Hewlett Packard Enterprise

HPE Comware 7
NETCONF XML API Reference

The information in this document is subject to change without notice.
© Copyright 2023 Hewlett Packard Enterprise Development LP

Contents

ACL 1
ACL/Groups 1
XML structure 1
Table description 1
Columns 1
ACL/NamedGroups 2
XML structure 2
Table description 2
Columns 2
ACL/PfilterApply 3
XML structure 3
Table description 3
Columns 4
ACL/ClearZonePairPfilter 4
XML structure 5
Table description 5
Columns 5

ACL

ACL/Groups

This table contains ACL information.

XML structure

```
<ACL>
  <Groups>
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <CountClear></CountClear>
    </Group>
  </Groups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type.	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—MAC. • **4**—User-defined.	N/A
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 5999.	The value range depends on the GroupType column. • 2000 to 5999 if GroupType is **1**. • 2000 to 3999 if GroupType is **2**.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/NamedGroups

This table contains named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
      <GroupIndex></GroupIndex>
      <CountClear></CountClear>
    </Group>
  </NamedGroups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type.	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—MAC. • **4**—User-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. The value range depends on the GroupType column. • 2000 to 3999 if GroupType is **1**. • 2000 to 3999 if GroupType is **2**. • 4000 to 4999 if GroupType is **3**. • 5000 to 5999 if GroupType is **4**.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/PfilterApply

This table contains packet filter application information.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <CountClear></CountClear>
    </Pfilter>
  </PfilterApply>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is **1**. • VLAN ID in the range of 1 to 4094 if AppObjType is **2**. • The value is 0 if AppObjType is **3**.
AppDirection	Application direction.	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—Ethernet frame header ACL. • 4—User-defined ACL. • **5**—ACL with the default action.	• Type 5 is a special ACL.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. The value range depends on the AppAclType column. • 2000 to 3999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**. • 0 if AppAclType is **5**.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/ClearZonePairPfilter

This table contains packet filter clearance information for zone-pair.

XML structure

```
<ACL>
  <ClearZonePairPfilter>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <Clear></Clear>
    </Pfilter>
  </ClearZonePairPfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ClearZonePairPfilter
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AclGroup	ACL name or number.	Index	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number**: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAclType column. • 2000 to 5999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**.

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

Contents

ACL 1

ACL/Groups 1
XML structure 1
Table description 1
Columns 1
ACL/NamedGroups 2
XML structure 2
Table description 3
Columns 3
ACL/Intervals 4
XML structure 4
Table description 5
Columns 5
ACL/IPv4BasicRules 5
XML structure 5
Table description 6
Columns 6
ACL/IPv4NamedBasicRules 8
XML structure 8
Table description 9
Columns 9
ACL/IPv6BasicRules 10
XML structure 11
Table description 11
Columns 11
ACL/IPv6NamedBasicRules 13
XML structure 13
Table description 14
Columns 14
ACL/IPv4AdvanceRules 16
XML structure 16
Table description 19
Columns 19
ACL/IPv4NamedAdvanceRules 31
XML structure 31
Table description 34
Columns 34
ACL/IPv6AdvanceRules 47
XML structure 47
Table description 49
Columns 50
ACL/IPv6NamedAdvanceRules 61
XML structure 61
Table description 64
Columns 64
ACL/MACRules 75
XML structure 75
Table description 76
Columns 77
ACL/MACNamedRules 80
XML structure 80
Table description 81
Columns 81
ACL/PfilterIgnoreAction 84
XML structure 84
Table description 84
Columns 84

ACL/PfilterDefAction ····· 85
XML structure ····· 85
Table description ····· 85
Columns ····· 85
ACL/PfilterApply ····· 85
XML structure ····· 86
Table description ····· 86
Columns ····· 86
ACL/UserRules ····· 88
XML structure ····· 88
Table description ····· 90
Columns ····· 90
ACL/UserNamedRules ····· 97
XML structure ····· 97
Table description ····· 99
Columns ····· 100
ACL/ZonePairPfilter ····· 108
XML structure ····· 108
Table description ····· 108
Columns ····· 109
ACL/PfilterFilterOption ····· 109
XML structure ····· 109
Table description ····· 109
Columns ····· 110
ACL/ExactMatchs ····· 110
XML structure ····· 110
Table description ····· 111
Columns ····· 111

ACL

ACL/Groups

This table contains ACL information.

XML structure

```
<ACL>
  <Groups>
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
    </Group>
  </Groups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—MAC. • **4**—User-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks

GroupID	ACL number	Index	Unsigned integer.
			Value range: 2000 to 5999.
				The value range depends on the GroupType column.
				• 2000 to 5999 if GroupType is **1**.
				  ○ IPv4 basic ACL: 2000 to 2999.
				  ○ IPv4 advanced ACL: 3000 to 3999.
				  ○ Ethernet frame header ACL: 4000 to 4999.
				  ○ User-defined ACL: 5000 to 5999.
				• 2000 to 3999 if GroupType is **2**.
				  ○ IPv6 basic ACL: 2000 to 2999.
				  ○ IPv6 advanced ACL: 3000 to 3999.

MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • **1**—Config (default). In this order, rules are sorted in ascending order of rule ID. • **2**—Auto. In this order, rules are sorted in depth-first order.	The match order can only be modified for ACLs that do not contain any rules. The match order can only be **config** for user-defined ACLs.
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	The rule numbering step for user-defined ACLs can only be 5.
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	This column cannot be modified.
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.

ACL/NamedGroups

This table contains named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
```

```
      <GroupCategory></GroupCategory>
      <GroupIndex></GroupIndex>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
    </Group>
  </NamedGroups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—MAC. • **4**—User-defined.	N/A

GroupCategory	ACL Category	Index	Enumeration:
			• **0**—invalid.
			• **1**—basic.
			• **2**—advanced.
				The value range depends on the GroupType column.
				• 1 to 2 if GroupType is **1 or 2**.
				  ○ basic ACL: 1.
				  ○ advanced ACL: 2.
				• 0 if GroupType is 3 or 4.

GroupIndex	ACL name or number	Index	String.
			Length: 1 to 63 characters.
			• **ACL name:** Case-insensitive string of 1 to 63 characters.
			• **ACL number:** String of digits in the range of 2000 to 5999.
				An ACL name must start with an English letter and cannot be **all**.
				The GroupIndex cannot be specified as an ACL name in GET operations for an ACL created by specifying both a number and a name.
				The value range depends on the GroupType column.
				• 2000 to 3999 if GroupType is **1**.
				  ○ IPv4 basic ACL: 2000 to 2999.
				  ○ IPv4 advanced ACL: 3000 to 3999.

Column name	Column description	Column type	Data type and restrictions	Remarks

				• 2000 to 3999 if GroupType is **2**.
				  ○ IPv6 basic ACL: 2000 to 2999.
				  ○ IPv6 advanced ACL: 3000 to 3999.
				• 4000 to 4999 if GroupType is **3**.
				  ○ Ethernet frame header ACL: 4000 to 4999.
				• 5000 to 5999 if GroupType is **4**.
				User-defined ACL: 5000 to 5999.

MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • **1**—Config (default). In this order, rules are sorted in ascending order of rule ID. • **2**—Auto. In this order, rules are sorted in depth-first order.	The match order can only be modified for ACLs that do not contain any rules. The match order can only be **config** for user-defined ACLs.
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	The rule numbering step for user-defined ACLs can only be 5.
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	This column cannot be modified.
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.

ACL/Intervals

This table contains ACL interval information.

XML structure

```
<ACL>
  <Intervals>
    <Interval>
      <IntervalType></IntervalType>
      <IntervalValue></IntervalValue>
    </Interval>
  </Intervals>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Intervals
Table type	Multi-instance table
Row name	Interval
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalType	The type of the interval	Index	Enumeration: • **1**—logging. • **2**—trap.	The type of the interval specified for generating packet filtering logs or traps. You cannot create, merge, or replace an interval when there is an effective interval of a different type.
IntervalValue	The value of the interval	N/A	Unsigned integer. Value range: 5 to 1440.	It must be a multiple of 5.

ACL/IPv4BasicRules

This table contains information about IPv4 basic ACL rules.

XML structure

```
<ACL>
  <IPv4BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
```

```
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv4BasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	This column must be configured together with the **SrcIPv4** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/IPv4NamedBasicRules

This table contains information about namd IPv4 basic ACL rules.

XML structure

```
<ACL>
  <IPv4NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv4NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	This column must be configured together with the **SrcIPv4** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/IPv6BasicRules

This table contains information about IPv6 basic ACL rules.

XML structure

```
<ACL>
  <IPv6BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv6BasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	This column must be configured together with the **SrcIPv6** column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header (default).	This column and the **RoutingTypeValue** column cannot both be configured.
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the **RoutingTypeAny** column cannot both be configured.
Fragment	Whether a rule matches only	N/A	Boolean: • **true**—Matches only non-first	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	non-first fragments.		fragments. • **false**—Matches both fragments and non-fragments (default).	
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/IPv6NamedBasicRules

This table contains information about named IPv6 basic ACL rules.

XML structure

```
<ACL>
  <IPv6NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <RoutingTypeAny></RoutingTypeAny>
```

```
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv6NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	This column must be configured together with the **SrcIPv6** column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header (default).	This column and the **RoutingTypeValue** column cannot both be configured.
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the **RoutingTypeAny** column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			rule matches (default).	
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/IPv4AdvanceRules

This table contains information about IPv4 advanced ACL rules.

XML structure

```
<ACL>
  <IPv4AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <SrcMicsegGroup></SrcMicsegGroup>
     <SrcMicsegMaskLength></SrcMicsegMaskLength>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4Wildcard></DstIPv4Wildcard>
      </DstIPv4>
      <DstObjectGroup></DstObjectGroup>
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
      <ECN></ECN>
      <DSCP></DSCP>
      <DSCPRange>
        <StartDSCP></StartDSCP>
```

```
  <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
  </TcpFlag>
<Established></Established>
<ICMP>
  <ICMPType></ICMPType>
  <ICMPCode></ICMPCode>
</ICMP>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>
  <InDstIPv4Addr></InDstIPv4Addr>
  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
```

```
        <InSrcPortValue1></InSrcPortValue1>
        <InSrcPortValue2></InSrcPortValue2>
      </InSrcPort>
      <InDstPort>
        <InDstPortOp></InDstPortOp>
        <InDstPortValue1></InDstPortValue1>
        <InDstPortValue2></InDstPortValue2>
      </InDstPort>
      <InTcpFlag>
        <InACK></InACK>
        <InFIN></InFIN>
        <InPSH></InPSH>
        <InRST></InRST>
        <InSYN></InSYN>
        <InURG></InURG>
      </InTcpFlag>
      <InEstablished></InEstablished>
      <InECN></InECN>
      <InDSCP></InDSCP>
      <InPrecedence></InPrecedence>
      <InTOS></InTOS>
      <Counting></Counting>
      <Logging></Logging>
      <FlowLogging></FlowLogging>
      <Comment></Comment>
      <UserGroup></UserGroup>
      <UserGroupAny></UserGroupAny>
      <SUserGroup></SUserGroup>
      <SUserGroupAny></SUserGroupAny>
      <DUserGroup></DUserGroup>
      <DUserGroupAny></DUserGroupAny>
      <GreValue></GreValue>
      <Options></Options>
      <FragmentType></FragmentType>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv4AdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type or an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default).	The VXLAN encapsulation supports this column. This column must be

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Matches the specified source IP address.	configured together with the **SrcIPv4** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses (default). • **false**—Matches the specified destination IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the **DstIPv4** column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	This column must be configured together with the **DstAny**

Column name	Column description	Column type	Data type and restrictions	Remarks
				column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the DstAny column cannot both be configured.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot both be configured.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: • StartDSCP • EndDSCP	DSCP and DSCPRange cannot both be configured.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The DSCP priority and the IP precedence cannot both be configured.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The DSCP priority and the ToS precedence cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols and the VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination port.		Value range: 0 to 65535.	
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—URG flag is set.	
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ICMP	ICMP messages.	N/A	Members include: • ICMPType. • ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1**—VXLAN encapsulation. • **2**—GRE encapsulation.	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—IPINIP encapsulation.	encapsulation type you must specify an inner protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify an inner protocol type when you remove or delete a rule. If you specify an inner protocol type,you must specify an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: • **true**—Matches any inner source IP addresses (default). • **false**—Matches the specified inner source IP address.	This column must be configured together with the **InSrcIPv4** column.
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: • InSrcIPv4Addr. • InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the **InSrcAny** column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InSrcIPv4Wildcard	Wildcard mask	N/A	String, dotted decimal	Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the inner source IPv4 address.		notation.	255.255.255.0. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: • **true**—Matches any inner destination IP addresses (default). • **false**—Matches the specified inner destination IP address.	This column must be configured together with the **InDstIPv4** column.
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: • InDstIPv4Addr. • InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the **InDstAny** column. The two members must both be specified.
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp.	Only the TCP and UDP inner protocols support this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• InSrcPortValue1. • InSrcPortValue2.	The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.

Column name	Column description	Column type	Data type and restrictions	Remarks
InTcpFlag	Inner TCP flags.	Data structure	Members include: • InACK. • InFIN. • InPSH. • InRST. • InSYN • InURG.	N/A
InACK	ACK flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP inner protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	InECN and InTOS cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
InPrecedence	Inner IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The inner DSCP priority and the inner IP precedence cannot both be configured.
InTOS	Inner ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The inner DSCP priority and the inner ToS precedence cannot both be configured.
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	This column and the FlowLogging column cannot both be configured.
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **UserGroupAny** column is **false**.
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32	This column is available when the

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	**SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any source user group. • **false**—Matches the specified user source group (default).	N/A
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any destination user group. • **false**—Matches the specified destination user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is **5**, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/IPv4NamedAdvanceRules

This table contains information about named IPv4 advanced ACL rules.

XML structure

```
<ACL>
  <IPv4NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
```

```
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<SrcObjectGroup></SrcObjectGroup>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstObjectGroup></DstObjectGroup>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
<ECN></ECN>
<DSCP></DSCP>
<DSCPRange>
  <StartDSCP></StartDSCP>
  <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
  </TcpFlag>
<Established></Established>
<ICMP>
  <ICMPType></ICMPType>
  <ICMPCode></ICMPCode>
```

```
</ICMP>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>
  <InDstIPv4Addr></InDstIPv4Addr>
  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPortOp></InDstPortOp>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InTcpFlag>
  <InACK></InACK>
  <InFIN></InFIN>
  <InPSH></InPSH>
  <InRST></InRST>
  <InSYN></InSYN>
  <InURG></InURG>
</InTcpFlag>
<InEstablished></InEstablished>
<InECN></InECN>
<InDSCP></InDSCP>
<InPrecedence></InPrecedence>
<InTOS></InTOS>
<Counting></Counting>
<Logging></Logging>
<FlowLogging></FlowLogging>
<Comment></Comment>
<UserGroup></UserGroup>
<UserGroupAny></UserGroupAny>
<SUserGroup></SUserGroup>
```

```
      <SUserGroupAny></SUserGroupAny>
      <DUserGroup></DUserGroup>
      <DUserGroupAny></DUserGroupAny>
      <GreValue></GreValue>
      <Options></Options>
      <FragmentType></FragmentType>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv4NamedAdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535.	If you set this column to 65535, the system automatically assigns a

Column name	Column description	Column type	Data type and restrictions	Remarks
			The value 65535 is an invalid rule ID.	new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type or an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the **SrcIPv4** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when

Column name	Column description	Column type	Data type and restrictions	Remarks
				the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses (default). • **false**—Matches the specified destination IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the **DstIPv4** column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the DstAny column cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot both be configured.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: • StartDSCP • EndDSCP	DSCP and DSCPRange cannot both be configured.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The DSCP priority and the IP precedence cannot both be configured.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The DSCP priority and the ToS precedence cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols and the VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—ACK flag is not set. • **1**—ACK flag is set.	
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ICMP	ICMP messages.	N/A	Members include: • ICMPType. • ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP	N/A	Unsigned integer.	Only the ICMP protocol

Column name	Column description	Column type	Data type and restrictions	Remarks
	messages.		Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1**—VXLAN encapsulation. • **2**—GRE encapsulation. • **3**—IPINIP encapsulation.	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an encapsulation type,you must specify an inner protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify an inner protocol type when you remove or delete a rule. If you specify an inner protocol type,you must specify an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: • **true**—Matches any inner source IP addresses (default). • **false**—Matches the specified inner source IP address.	This column must be configured together with the **InSrcIPv4** column.
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: • InSrcIPv4Addr. • InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the **InSrcAny** column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: • **true**—Matches any inner destination IP addresses (default). • **false**—Matches the specified inner destination IP address.	This column must be configured together with the **InDstIPv4** column.
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: • InDstIPv4Addr. • InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured together with the **InDstAny** column. The two members must both be specified.
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end

Column name	Column description	Column type	Data type and restrictions	Remarks
				inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InTcpFlag	Inner TCP flags.	Data structure	Members include: • InACK. • InFIN. • InPSH. • InRST. • InSYN • InURG.	N/A
InACK	ACK flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			set. • **1**—PSH flag is set.	
InRST	RST flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP inner protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	InECN and InTOS cannot both be configured.
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
InPrecedence	Inner IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The inner DSCP priority and the inner IP precedence cannot both be configured.
InTOS	Inner ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The inner DSCP priority and the inner ToS precedence cannot both be configured.
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match	N/A	Boolean: • **true**—Logs rule	This column and the FlowLogging column

Column name	Column description	Column type	Data type and restrictions	Remarks
	events.		match events. • **false**—Does not log rule match events (default).	cannot both be configured.
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **UserGroupAny** column is **false**.
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any source user group. • **false**—Matches the specified source user group (default).	N/A
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any destination user group. • **false**—Matches the specified destination user group (default).	N/A
GreValue	Config a gre	N/A	Hexadecimal string.	Only the GRE protocol

Column name	Column description	Column type	Data type and restrictions	Remarks
	value.		Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			range).	
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/IPv6AdvanceRules

This table contains information about IPv6 advanced ACL rules.

XML structure

```
<ACL>
  <IPv6AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <SrcMicsegGroup></SrcMicsegGroup>
      <SrcMicsegMaskLength></SrcMicsegMaskLength>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DstObjectGroup></DstObjectGroup>
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
      <ECN></ECN>
      <DSCP></DSCP>
      <FlowLabel></FlowLabel>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
```

```
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP6>
  <ICMP6Type></ICMP6Type>
  <ICMP6Code></ICMP6Code>
</ICMP6>
<Fragment></Fragment>
<HopTypeAny></HopTypeAny>
<HopTypeValue></HopTypeValue>
<TimeRange></TimeRange>
<VRF></VRF>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv6>
  <InSrcIPv6Addr></InSrcIPv6Addr>
  <InSrcIPv6Prefix></InSrcIPv6Prefix>
</InSrcIPv6>
<InDstAny></InDstAny>
<InDstIPv6>
  <InDstIPv6Addr></InDstIPv6Addr>
  <InDstIPv6Prefix></InDstIPv6Prefix>
</InDstIPv6>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
```

```
      <InDstPort>
        <InDstPortOp></InDstPortOp>
        <InDstPortValue1></InDstPortValue1>
        <InDstPortValue2></InDstPortValue2>
      </InDstPort>
      <InTcpFlag>
        <InACK></InACK>
        <InFIN></InFIN>
        <InPSH></InPSH>
        <InRST></InRST>
        <InSYN></InSYN>
        <InURG></InURG>
      </InTcpFlag>
      <InEstablished></InEstablished>
      <InECN></InECN>
      <InDSCP></InDSCP>
      <QoSLocalID></QoSLocalID>
      <Counting></Counting>
      <Logging></Logging>
      <FlowLogging></FlowLogging>
      <Comment></Comment>
      <UserGroup></UserGroup>
      <UserGroupAny></UserGroupAny>
      <SUserGroup></SUserGroup>
      <SUserGroupAny></SUserGroupAny>
      <DUserGroup></DUserGroup>
      <DUserGroupAny></DUserGroupAny>
      <GreValue></GreValue>
      <Options></Options>
      <FragmentType></FragmentType>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv6AdvanceRules>
</ACL>
```


Table description

Item	Description
Feature name	ACL

Table name	IPv6AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	The IPv6 VXLAN encapsulation supports this column. This column must be configured together with the **SrcIPv6** column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses (default). • **false**—Matches the specified destination IPv6 address.	The IPv6 VXLAN encapsulation supports this column. This column must be configured together with the **DstIPv6** column.
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when

Column name	Column description	Column type	Data type and restrictions	Remarks
				the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the DstAny column cannot both be configured.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header (default).	This column and the **RoutingTypeValue** column cannot both be configured.
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the **RoutingTypeAny** column cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols and the IPv6 VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ICMP6	ICMPv6 messages.	N/A	Members include: • ICMP6Type. • ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: • **true**—Matches any types of Hop-by-Hop Options header. • **false**—Matches the specified type of Hop-by-Hop Options header (default).	This column and the **HopTypeValue** column cannot both be configured.
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the **HopTypeAny** column cannot both be configured.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1—**VXLAN**.** • **4—**VXLAN-IPv6**.**	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an encapsulation type, you must specify an inner protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a	N/A	Boolean:	This column must be

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule matches any inner source IPv6 addresses.		• **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	configured together with the **InSrcIPv6** column.
InSrcIPv6	Inner source IPv6 information.	Data structure	Members include: • InSrcIPv6Addr. • InSrcIPv6Prefix.	This column must be configured together with the **InSrcAny** column. The two members must both be specified.
InSrcIPv6Addr	Inner source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the In **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InSrcIPv6Prefix	Length of the inner source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InDstAny	Whether a rule matches any inner destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses (default). • **false**—Matches the specified destination IPv6 address.	This column must be configured together with the **InDstIPv6** column.
InDstIPv6	Inner destination IPv6 information.	Data structure	Members include: • InDstIPv6Addr. • InDstIPv6Prefix.	This column must be configured together with the **InDstAny** column. The two members must both be specified.
InDstIPv6Addr	Inner destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port	Data	Members include:	Only the TCP and UDP protocols support this

Column name	Column description	Column type	Data type and restrictions	Remarks
	information.	structure	• InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
InDstPortOp	Inner Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Inner start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
InTcpFlag	Inner TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InACK	ACK flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the established status of an inner TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the **InTcpFlag** column cannot both be configured.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	This column and the FlowLogging column cannot both be configured.
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **UserGroupAny** column is **false**.
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
DUserGroup	Destination user group	N/A	String, case-insensitive.	This column is available when the

Column name	Column description	Column type	Data type and restrictions	Remarks
	name.		Length: 1 to 32 characters.	**DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/IPv6NamedAdvanceRules

This table contains information about named IPv6 advanced ACL rules.

XML structure

```
<ACL>
  <IPv6NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <SrcMicsegGroup></SrcMicsegGroup>
      <SrcMicsegMaskLength></SrcMicsegMaskLength>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DstObjectGroup></DstObjectGroup>
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
```

```
<ECN></ECN>
<DSCP></DSCP>
<FlowLabel></FlowLabel>
<RoutingTypeAny></RoutingTypeAny>
<RoutingTypeValue></RoutingTypeValue>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP6>
  <ICMP6Type></ICMP6Type>
  <ICMP6Code></ICMP6Code>
</ICMP6>
<Fragment></Fragment>
<HopTypeAny></HopTypeAny>
<HopTypeValue></HopTypeValue>
<TimeRange></TimeRange>
<VRF></VRF>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv6>
  <InSrcIPv6Addr></InSrcIPv6Addr>
  <InSrcIPv6Prefix></InSrcIPv6Prefix>
</InSrcIPv6>
<InDstAny></InDstAny>
<InDstIPv6>
  <InDstIPv6Addr></InDstIPv6Addr>
  <InDstIPv6Prefix></InDstIPv6Prefix>
</InDstIPv6>
```

```
      <InSrcPort>
        <InSrcPortOp></InSrcPortOp>
        <InSrcPortValue1></InSrcPortValue1>
        <InSrcPortValue2></InSrcPortValue2>
      </InSrcPort>
      <InDstPort>
        <InDstPortOp></InDstPortOp>
        <InDstPortValue1></InDstPortValue1>
        <InDstPortValue2></InDstPortValue2>
      </InDstPort>
      <InTcpFlag>
        <InACK></InACK>
        <InFIN></InFIN>
        <InPSH></InPSH>
        <InRST></InRST>
        <InSYN></InSYN>
        <InURG></InURG>
      </InTcpFlag>
      <InEstablished></InEstablished>
      <InECN></InECN>
      <InDSCP></InDSCP>
      <QoSLocalID></QoSLocalID>
      <Counting></Counting>
      <Logging></Logging>
      <FlowLogging></FlowLogging>
      <Comment></Comment>
      <UserGroup></UserGroup>
      <UserGroupAny></UserGroupAny>
      <SUserGroup></SUserGroup>
      <SUserGroupAny></SUserGroupAny>
      <DUserGroup></DUserGroup>
      <DUserGroupAny></DUserGroupAny>
      <GreValue></GreValue>
      <Options></Options>
      <FragmentType></FragmentType>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv6NamedAdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a	N/A	Boolean:	The IPv6 VXLAN

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule matches any source IPv6 addresses.		• **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	encapsulation supports this column. This column must be configured together with the **SrcIPv6** column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the SrcAny column cannot both be configured.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses (default). • **false**—Matches the specified destination IPv6 address.	The IPv6 VXLAN encapsulation supports this column. This column must be configured together with the **DstIPv6** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column and the DstAny column cannot both be configured.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header (default).	This column and the **RoutingTypeValue** column cannot both be configured.
RoutingTypeValue	Routing	N/A	Unsigned integer.	This column and the

Column name	Column description	Column type	Data type and restrictions	Remarks
	header type.		Value range: 0 to 255.	**RoutingTypeAny** column cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols and the IPv6 VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of

Column name	Column description	Column type	Data type and restrictions	Remarks
				this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ICMP6	ICMPv6 messages.	N/A	Members include: • ICMP6Type. • ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: • **true**—Matches any types of Hop-by-Hop Options header. • **false**—Matches the specified type of Hop-by-Hop Options header (default).	This column and the **HopTypeValue** column cannot both be configured.
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the **HopTypeAny** column cannot both be configured.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1—**VXLAN**.** • **4—**VXLAN-IPv6**.**	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an encapsulation type you must specify an inner

Column name	Column description	Column type	Data type and restrictions	Remarks
				protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses (default). • **false**—Matches the specified source IPv6 address.	This column must be configured together with the **InSrcIPv6** column.
InSrcIPv6	Inner source IPv6 information.	Data structure	Members include: • InSrcIPv6Addr. • InSrcIPv6Prefix.	This column must be configured together with the **InSrcAny** column. The two members must both be specified.
InSrcIPv6Addr	Inner source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the In **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InSrcIPv6Prefix	Length of the inner source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InDstAny	Whether a rule matches any inner destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses (default). • **false**—Matches the specified destination IPv6 address.	This column must be configured together with the **InDstIPv6** column.
InDstIPv6	Inner destination IPv6 information.	Data structure	Members include: • InDstIPv6Addr. • InDstIPv6Prefix.	This column must be configured together with the **InDstAny** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The two members must both be specified.
InDstIPv6Addr	Inner destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
InDstPortOp	Inner Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Inner start	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination port.		Value range: 0 to 65535.	
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
InTcpFlag	Inner TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
InACK	ACK flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags	N/A	Boolean: • **true**—Matches the	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
	indicating the established status of an inner TCP connection.		flags. • **false**—Ignores the flags.	On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the **InTcpFlag** column cannot both be configured.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events (default).	This column and the FlowLogging column cannot both be configured.
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **UserGroupAny** column is **false**.
UserGroupAny	Whether a rule matches	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	any user group.		• **true**—Matches any user group. • **false**—Matches the specified user group (default).	
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			to). • **5**—range (inclusive range).	
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/MACRules

This table contains information about Ethernet frame header ACL rules.

XML structure

```
<ACL>
  <MACRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
```

```
      <SrcMACAddress></SrcMACAddress>
      <SrcMACMask></SrcMACMask>
    </SrcMACAddr>
    <DstMACAddr>
      <DstMACAddress></DstMACAddress>
      <DstMACMask></DstMACMask>
    </DstMACAddr>
    <COS></COS>
    <Protocol>
      <ProtocolType></ProtocolType>
      <ProtocolTypeMask></ProtocolTypeMask>
    </Protocol>
    <LSAP>
      <LSAPType></LSAPType>
      <LSAPTypeMask></LSAPTypeMask>
    </LSAP>
    <EncapType></EncapType>
    <VxlanID></VxlanID>
    <InSrcMACAddr>
      <InSrcMACAddress></InSrcMACAddress>
      <InSrcMACMask></InSrcMACMask>
    </InSrcMACAddr>
    <InDstMACAddr>
      <InDstMACAddress></InDstMACAddress>
      <InDstMACMask></InDstMACMask>
    </InDstMACAddr>
    <InProtocol>
      <InProtocolType></InProtocolType>
      <InProtocolTypeMask></InProtocolTypeMask>
    </InProtocol>
    <TimeRange></TimeRange>
    <Counting></Counting>
    <Comment></Comment>
  </Rule>
 </MACRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	MACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 4000 to 4999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: • SrcMACAddress. • SrcMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: • DstMACAddress. • DstMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	The VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The members must both be specified. This column and the **LSAP** column cannot both be configured.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.
ProtocolType Mask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: • LSAPType. • LSAPTypeMask.	The members must both be specified. This column and the **Protocol** column cannot both be configured.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMa sk	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: • VXLAN encapsulation. • GRE encapsulation. • IPINIP encapsulation.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAd dr	Information about the inner source MAC address.	Data structure	Members include: • InSrcMACAddress. • InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAd dress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMa sk	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAd dr	Information about the inner destination MAC address.	Data structure	Members include: • InDstMACAddress. • InDstMACMask.	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of inner link layer protocol types are assigned by IANA.
InProtocolTypeMask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/MACNamedRules

This table contains information about Named Ethernet frame header ACL rules.

XML structure

```
<ACL>
  <MACNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>
        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
      </Protocol>
      <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
      </LSAP>
      <EncapType></EncapType>
      <VxlanID></VxlanID>
      <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress >
        <InSrcMACMask></InSrcMACMask>
      </InSrcMACAddr>
      <InDstMACAddr>
        <InDstMACAddress></InDstMACAddress>
        <InDstMACMask></InDstMACMask>
      </InDstMACAddr>
      <InProtocol>
        <InProtocolType></InProtocolType>
        <InProtocolTypeMask></InProtocolTypeMask>
      </InProtocol>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
    </Rule>
  </MACNamedRules>
```

```
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	MACNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 4000 to 4999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: • SrcMACAddress. • SrcMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC	N/A	Six groups of two hexadecimal digits,	Example: ff-ff-ff-ff-ff-ff.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.		hyphen-separated.	
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: • DstMACAddress. • DstMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	The VXLAN encapsulation supports this column. The members must both be specified. This column and the **LSAP** column cannot both be configured.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: • LSAPType. • LSAPTypeMask.	The members must both be specified. This column and the **Protocol** column cannot both be configured.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: • VXLAN encapsulation. • GRE encapsulation. • IPINIP encapsulation.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer	Only the VXLAN encapsulation supports

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 16777215	this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: • InSrcMACAddress. • InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: • InDstMACAddress. • InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of inner link layer protocol types are assigned by IANA.
InProtocolTypeMask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive.	It cannot be the word **all**.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters. The string must start with an English letter.	
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the **MatchOrder** column is **2**, you can modify only the comment for a rule.

ACL/PfilterIgnoreAction

This table contains information about the ignoring packet filter permit action.

XML structure

```
<ACL>
  <PfilterIgnoreAction>
    <IgnoreAction></IgnoreAction>
  </PfilterIgnoreAction>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterIgnoreAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreAction	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ignore the packet filter permit action.		• **true**—Ignore the packet filter permit action. • **false**—Not ignore the packet filter permit action (default).	

ACL/PfilterDefAction

This table contains information about the default global packet filter actions.

XML structure

```
<ACL>
  <PfilterDefAction>
    <DefaultAction></DefaultAction>
  </PfilterDefAction>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default packet filter action	N/A	Enumeration: • **1**—Permit (default). • **2**—Deny.

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <HardCount></HardCount>
      <InnerEncap></InnerEncap>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
    </Pfilter>
  </PfilterApply>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global.	Support for the specified type depends on the device model.
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is **1**. • VLAN ID in the range of 1 to 4094 if AppObjType is **2**. • The value is 0 if AppObjType is **3**.
AppDirection	Application	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	direction.		• **1**—Inbound. • **2**—Outbound.	
AppAclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—MAC ACL. • 4—User-defined ACL. • **5**—ACL with the default action.	• Type 5 is a special ACL.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. The value range depends on the AppAclType column. • 2000 to 3999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**. • 0 if AppAclType is **5**.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: • **1**—enable. • **2**—disable.	Support for this function depends on the device model. Global default action and VLAN default action do not support this function.
InnerEncap	Match the inner packet information of encapsulation packets.	N/A	Enumeration: • **0**—None (default). • **1**—VXLAN.	Support for this function depends on the device model. This column cannot be modified.
ShareMode	Whether to apply the ACL in sharing mode.	N/A	Boolean: • **true**—Apply the ACL in sharing mode. • **false**—Do not apply the ACL in sharing mode (default).	Support for this function depends on the device model. This column cannot be modified.
ShareModeBoth	Whether to apply the ACL in sharing mode for both direction.	N/A	Boolean: • **true**—Apply the ACL in sharing mode for both direction. • **false**—Do not apply the ACL in sharing mode for both direction (default).	Support for this function depends on the device model. This column cannot be modified.

ACL/UserRules

This table contains information about user-defined ACL rules.

XML structure

```
<ACL>
  <UserRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
        <L2Offset></L2Offset>
      </L2Rule>
      <IPv4Rule>
        <IPv4RuleString></IPv4RuleString>
        <IPv4RuleMask></IPv4RuleMask>
        <IPv4Offset></IPv4Offset>
      </IPv4Rule>
      <IPv6Rule>
        <IPv6RuleString></IPv6RuleString>
        <IPv6RuleMask></IPv6RuleMask>
        <IPv6Offset></IPv6Offset>
      </IPv6Rule>
      <L4Rule>
        <L4RuleString></L4RuleString>
        <L4RuleMask></L4RuleMask>
        <L4Offset></L4Offset>
      </L4Rule>
      <L5Rule>
        <L5RuleString></L5RuleString>
        <L5RuleMask></L5RuleMask>
        <L5Offset></L5Offset>
      </L5Rule>
      <UdfFormat></UdfFormat>
      <ProtocolType></ProtocolType>
      <IPv6ProtocolType></IPv6ProtocolType>
      <DualStackProtocolType></DualStackProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
```

```
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcMicsegGroup></SrcMicsegGroup>
      <SrcMicsegMaskLength></SrcMicsegMaskLength>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4Wildcard></DstIPv4Wildcard>
      </DstIPv4>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ECN></ECN>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <VRF></VRF>
    </Rule>
  </UserRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 5000 to 5999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: • L2RuleString. • L2RuleMask. • L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L2Offset	Offset in bytes after which the	N/A	Unsigned integer. Value range: 0 to the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	match operation begins.		device-specific upper limit.	
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: • IPv4RuleString. • IPv4RuleMask. • IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: • IPv6RuleString. • IPv6RuleMask. • IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: • L4RuleString. • L4RuleMask. • L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: • L5RuleString. • L5RuleMask. • L5Offset.	This column is available when the ProtocolType is specified. The members must all be specified.
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L5Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
UdfFormat	User-defined packet fortmat.	N/A	Enumeration: • **1**—IFA packet. • **2**—Raw ip packet. • **3**—VXLAN packet. • **4**—GRE-C1R0K1 packet. • **5**—GRE-C0R0K1 packet. • **6**—GRE-K1R1 packet. • **7**—4-byte GRE packet. • **8**—8-byte GRE packet. • **9**—12-byte GRE packet. • **10**—16-byte GRE packet. • **11**—20-byte GRE packet.	This column is available when the ProtocolType is specified.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule.
IPv6ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule.
DualStackProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256.	You cannot specify a protocol type when you remove or delete a rule. The value can only be 6 or 17 when you creat, merge or replace a rule. When the DualStackProtocolType is configured, only the

Column name	Column description	Column type	Data type and restrictions	Remarks
				following fields can be configured: GroupID, RuleID, Action, SrcMicsegGroup, SrcMicsegMaskLength, DstMicsegGroup, DstMicsegMaskLength、SrcPort, DstPort, TimeRange, Counting, VRF, TcpFlag.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	This column is available when the ProtocolType is specified. This column must be configured together with the **SrcIPv4 or SrcIPv6** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**.

Column name	Column description	Column type	Data type and restrictions	Remarks
				It must be empty when the **SrcAny** column is **true**.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses (default). • **false**—Matches the specified destination IP address.	This column is available when the ProtocolType is specified. This column must be configured together with the **DstIPv4 or DstIPv6** column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. DstIPv6Prefix.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. The availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	This column is available when the ProtocolType is specified.
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	Only the IPv4 type supports this column. The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	Only the IPv4 type supports this column. The DSCP priority and the ToS precedence cannot both be specified.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

ACL/UserNamedRules

This table contains information about named user-defined ACL rules.

XML structure

```
<ACL>
  <UserNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
```

```
  <L2Offset></L2Offset>
</L2Rule>
<IPv4Rule>
  <IPv4RuleString></IPv4RuleString>
  <IPv4RuleMask></IPv4RuleMask>
  <IPv4Offset></IPv4Offset>
</IPv4Rule>
<IPv6Rule>
  <IPv6RuleString></IPv6RuleString>
  <IPv6RuleMask></IPv6RuleMask>
  <IPv6Offset></IPv6Offset>
</IPv6Rule>
<L4Rule>
  <L4RuleString></L4RuleString>
  <L4RuleMask></L4RuleMask>
  <L4Offset></L4Offset>
</L4Rule>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<IPv6ProtocolType></IPv6ProtocolType>
<DualStackProtocolType></DualStackProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<SrcIPv6>
  <SrcIPv6Addr></SrcIPv6Addr>
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
```

```
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ECN></ECN>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <VRF></VRF>
    </Rule>
  </UserNamedRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 5000 to 5999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: • L2RuleString. • L2RuleMask. • L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: • IPv4RuleString. • IPv4RuleMask. • IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: • IPv6RuleString. • IPv6RuleMask. • IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: • L4RuleString. • L4RuleMask. • L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: • L5RuleString. • L5RuleMask. • L5Offset.	This column is available when the ProtocolType is specified. The members must all be specified.
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the	The length must be an even number.

Column name	Column description	Column type	Data type and restrictions	Remarks
			device-specific upper limit.	
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L5Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
UdfFormat	User-defined packet fortmat.	N/A	Enumeration: • **1**—IFA packet. • **2**—Raw ip packet. • **3**—VXLAN packet. • **4**—GRE-C1R0K1 packet. • **5**—GRE-C0R0K1 packet. • **6**—GRE-K1R1 packet. • **7**—4-byte GRE packet. • **8**—8-byte GRE packet. • **9**—12-byte GRE packet. • **10**—16-byte GRE packet. • **11**—20-byte GRE packet.	This column is available when the ProtocolType is specified.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule.
IPv6ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule.
DualStackProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256.	You cannot specify a protocol type when you remove or delete a rule. The value can only be 6 or 17 when you creat, merge or replace a rule. When the DualStackProtocolType is configured, only the following fields can be

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured: GroupID, RuleID, Action, SrcMicsegGroup, SrcMicsegMaskLength, DstMicsegGroup, DstMicsegMaskLength、SrcPort, DstPort, TimeRange, Counting, VRF, TcpFlag.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	This column is available when the ProtocolType is specified. This column must be configured together with the **SrcIPv4 or SrcIPv6** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. SrcIPv6Prefix.	This column must be configured together with the **SrcAny** column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses (default). • **false**—Matches the specified destination IP address.	This column is available when the ProtocolType is specified. This column must be configured together with the **DstIPv4 or DstIPv6** column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4	N/A	String, dotted decimal notation.	Example: 255.255.255.0.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.			This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. DstIPv6Prefix.	This column must be configured together with the **DstAny** column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—neq (not equal to). • **5**—range (inclusive range).	
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. The availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	This column is available when the ProtocolType is specified.
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	Only the IPv4 type supports this column. The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	Only the IPv4 type supports this column. The DSCP priority and the ToS precedence cannot both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

ACL/ZonePairPfilter

This table contains information about packet filter application for zone-pair.

XML structure

```
<ACL>
  <ZonePairPfilter>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AclType></AclType>
      <AclGroup></AclGroup>
    </Pfilter>
  </ZonePairPfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilter
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AclGroup	ACL name or number.	Index	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number**: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAclType column. • 2000 to 5999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**.

ACL/PfilterFilterOption

This table contains information about the applicable scope of packet filtering on a VLAN interface.

XML structure

```
<ACL>
  <PfilterFilterOption>
    <Pfilter>
      <VlanIfName></VlanIfName>
      <FilterOption></FilterOption>
    </Pfilter>
  </PfilterFilterOption>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterFilterOption
Table type	Multi-instance table
Row name	Pfilter

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIfName	Name of the VLAN interface.	Index	String. Length: 1 to 47 characters. Example: Vlan-interface1	N/A
FilterOption	Filter Option Type.	N/A	Enumeration: • **1**—Filters all packets. • **2**—Filters packets forwarded at Layer 3 by the VLAN interface.	N/A

ACL/ExactMatchs

This table contains information about an exact-match template.

XML structure

```
<ACL>
  <ExactMatchs>
    <ExactMatch>
      <TemplateID></TemplateID>
      <IPMatch>
        <Type></Type>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <SrcPort></SrcPort>
        <DstPort></DstPort>
        <Protocol></Protocol>
        <TcpFlag></TcpFlag>
        <DstMAC></DstMAC>
        <SrcMAC></SrcMAC>
      </IPMatch>
      <MACMatch>
        <DstMAC></DstMAC>
        <SrcMAC></SrcMAC>
      </MACMatch>
    </ExactMatch>
  </ExactMatchs>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ExactMatchs
Table type	Multi-instance table
Row name	ExactMatch
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateID	Template ID.	Index	Unsigned integer.	N/A
IPMatch	IP match type	N/A	Members include: • **Type** • **SrcIP** • **DstIP** • **SrcPort** • **DstPort** • **Protocol** • **TcpFlag** • **DstMac** • **SrcMAC**	IPMatch and MACMatch cannot be specified together
Type	IP version	N/A	Enumeration: • ipv4. • ipv6.	You must specify the Type when you replace an IPMatch, or when you merge or create an IPMatch that does not exist.
SrcIP	Source address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstIP	Destination address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcPort	Source port	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstPort	Destination port	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **true**—Conform. • **false**—Not conform.	
Protocol	Protocol	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
TcpFlag	TCP flag	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstMAC	Destination MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcMAC	Source MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
MACMatch	MAC match type	N/A	Members include: • **DstMac** • **SrcMAC**	N/A
DstMAC	Destination MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcMAC	Source MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

Contents

ACL 1

ACL/Base 1
XML structure 1
Table description 1
Columns 1
ACL/Capability 1
XML structure 1
Table description 2
Columns 2
ACL/Groups 3
XML structure 3
Table description 4
Columns 4
ACL/NamedGroups 5
XML structure 5
Table description 5
Columns 6
ACL/Intervals 8
XML structure 8
Table description 8
Columns 8
ACL/IPv4BasicRules 8
XML structure 9
Table description 9
Columns 9
ACL/IPv4NamedBasicRules 11
XML structure 11
Table description 12
Columns 12
ACL/IPv6BasicRules 14
XML structure 14
Table description 14
Columns 15
ACL/IPv6NamedBasicRules 16
XML structure 16
Table description 17
Columns 17
ACL/IPv4AdvanceRules 19
XML structure 19
Table description 22
Columns 22
ACL/IPv4NamedAdvanceRules 34
XML structure 34
Table description 37
Columns 37
ACL/IPv6AdvanceRules 49
XML structure 49
Table description 52
Columns 52
ACL/IPv6NamedAdvanceRules 63
XML structure 63
Table description 66
Columns 66
ACL/MACRules 77
XML structure 77
Table description 78
Columns 79

ACL/MACNamedRules ····· 81
XML structure ····· 81
Table description ····· 82
Columns ····· 83
ACL/PfilterDefAction ····· 85
XML structure ····· 85
Table description ····· 86
Columns ····· 86
ACL/PfilterIgnoreAction ····· 86
XML structure ····· 86
Table description ····· 86
Columns ····· 87
ACL/PfilterApply ····· 87
XML structure ····· 87
Table description ····· 87
Columns ····· 88
ACL/PfilterGroupRunInfo ····· 89
XML structure ····· 89
Table description ····· 90
Columns ····· 90
ACL/PfilterRuleRunInfo ····· 92
XML structure ····· 92
Table description ····· 92
Columns ····· 92
ACL/PfilterStatisticSum ····· 94
XML structure ····· 94
Table description ····· 94
Columns ····· 95
ACL/UserRules ····· 95
XML structure ····· 95
Table description ····· 97
Columns ····· 98
ACL/UserNamedRules ····· 107
XML structure ····· 107
Table description ····· 109
Columns ····· 110
ACL/ZonePairPfilter ····· 119
XML structure ····· 119
Table description ····· 120
Columns ····· 120
ACL/ZonePairPfilterRules ····· 120
XML structure ····· 121
Table description ····· 121
Columns ····· 121
ACL/PfilterFilterOption ····· 122
XML structure ····· 122
Table description ····· 122
Columns ····· 123
ACL/ExactMatchs ····· 123
XML structure ····· 123
Table description ····· 124
Columns ····· 124

ACL

ACL/Base

This table contains ACL base table.

XML structure

```
<ACL>
  <Base>
    <ProcessingStatus></ProcessingStatus>
  </Base>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
ProcessingStatus	ACL processing status	N/A	Enumeration: • **1**—Processing. • **2**—Idle.

ACL/Capability

This table contains ACL capability information, and it is used to obtain custom ACL parameters.

XML structure

```
<ACL>
  <Capability>
    <UserAclL2>
      <L2MaxOffset></L2MaxOffset>
      <L2MaxLen></L2MaxLen>
    </UserAclL2>
```

```
    <UserAclL4>
      <L4MaxOffset></L4MaxOffset>
      <L4MaxLen></L4MaxLen>
    </UserAclL4>
    <UserAclL5>
      <L5MaxOffset></L5MaxOffset>
      <L5MaxLen></L5MaxLen>
    </UserAclL5>
    <UserAclIPv4>
      <IPv4MaxOffset></IPv4MaxOffset>
      <IPv4MaxLen></IPv4MaxLen>
    </UserAclIPv4>
    <UserAclIPv6>
      <IPv6MaxOffset></IPv6MaxOffset>
      <IPv6MaxLen></IPv6MaxLen>
    </UserAclIPv6>
    <AclMaxRuleNumPerGroup></AclMaxRuleNumPerGroup>
    <MicsegIPv6Enable></MicsegIPv6Enable>
  </Capability>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserAclL2	Custom Layer 2 frame header parameters for user-defined ACL rules	Data structure	Members include: • L2MaxOffset. • L2MaxLen.
L2MaxOffset	Maximum offset relative to the beginning of the Layer 2 frame header	N/A	Unsigned integer. Value range: 0 to 254.
L2MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAclL4	Custom Layer 4 header parameters for user-defined ACL rules	Data structure	Members include: • L4MaxOffse. • L4MaxLen.

Column name	Column description	Column type	Data type and restrictions
L4MaxOffset	Maximum offset relative to the beginning of the Layer 4 header	N/A	Unsigned integer. Value range: 0 to 254.
L4MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAclL5	Custom Layer 5 header parameters for user-defined ACL rules	Data structure	Members include: • L5MaxOffset. • L5MaxLen.
L5MaxOffset	Maximum offset relative to the beginning of the Layer 5 header	N/A	Unsigned integer. Value range: 0 to 254.
L5MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAclIPv4	Custom IPv4 header parameters for user-defined ACL rules	Data structure	Members include: • IPv4MaxOffset. • IPv4MaxLen.
IPv4MaxOffset	Maximum offset relative to the beginning of the IPv4 header	N/A	Unsigned integer. Value range: 0 to 254.
IPv4MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAclIPv6	Custom IPv6 header parameters for user-defined ACL rules	Data structure	Members include: • IPv6MaxOffset. • IPv6MaxLen.
IPv6MaxOffset	Maximum offset relative to the beginning of the IPv6 header	N/A	Unsigned integer. Value range: 0 to 254.
IPv6MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
AclMaxRuleNumPerGroup	Maximum number of rules in an ACL	N/A	Unsigned integer. Value range: 0 to 65535.
MicsegIPv6Enable	Whether to configure the resource mode for microsegmentation	N/A	Members include: Enable

ACL/Groups

This table displays ACL information.

XML structure

```
<ACL>
  <Groups>
```

```
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
      <RuleNum></RuleNum>
    </Group>
  </Groups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. **3**—MAC. • **4**—User-defined.	N/A

GroupID	ACL number	Index	Unsigned integer.
			Value range: 2000 to 5999.
				The value range depends on the GroupType column.
				• 2000 to 5999 if GroupType is **1**.
				  ○ IPv4 basic ACL: 2000 to 2999.
				  ○ IPv4 advanced ACL: 3000 to 3999.
				  ○ Ethernet frame header ACL: 4000 to 4999.
				  ○ User-defined ACL: 5000 to 5999.
				• 2000 to 3999 if GroupType is **2**.
				  ○ IPv6 basic ACL: 2000 to 2999.
				  ○ IPv6 advanced ACL: 3000 to 3999.

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • **1**—Config. In this order, rules are sorted in ascending order of rule ID. • **2**—Auto. In this order, rules are sorted in depth-first order.	N/A
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20.	N/A
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.
RuleNum	Number of rules in the ACL	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/NamedGroups

This table displays named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
      <GroupCategory></GroupCategory>
      <GroupIndex></GroupIndex>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
      <RuleNum></RuleNum>
      <GroupNum></GroupNum>
    </Group>
  </NamedGroups>
</ACL>
```

Table description

Item	Description
Feature name	ACL

Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—MAC. • **4**—User-defined.	N/A

GroupCategory	ACL Category	Index	Enumeration:
			• **0**—invalid.
			• **1**—basic.
			• **2**—advanced.
				The value range depends on the GroupType column.
				• 1 to 2 if GroupType is **1 or 2**.
				  ○ basic ACL: 1.
				  ○ advanced ACL: 2.
				• 0 if GroupType is 3 or 4.

Column name	Column description	Column type	Data type and restrictions	Remarks

GroupIndex	ACL name or number	Index	String.
			Length: 1 to 63 characters.
			• **ACL name:** Case-insensitive string of 1 to 63 characters.
			• **ACL number:** String of digits in the range of 2000 to 5999.
				The GroupIndex cannot be specified as an ACL name in GET operations for an ACL created by specifying both a number and a name.
				The value range depends on the GroupType column.
				• 2000 to 3999 if GroupType is **1**.
				  ○ IPv4 basic ACL: 2000 to 2999.
				  ○ IPv4 advanced ACL: 3000 to 3999.
				• 2000 to 3999 if GroupType is **2**.
				  ○ IPv6 basic ACL: 2000 to 2999.
				  ○ IPv6 advanced ACL: 3000 to 3999.
				• 4000 to 4999 if GroupType is **3**.
				  ○ Ethernet frame header ACL: 4000 to 4999.
				• 5000 to 5999 if GroupType is **4**.
				User-defined ACL: 5000 to 5999.

MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • **1**—Config. In this order, rules are sorted in ascending order of rule ID. • **2**—Auto. In this order, rules are sorted in depth-first order.	N/A
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20.	N/A
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.
RuleNum	Number of rules in the ACL	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	Number of ACLs.	N/A	Unsigned integer.	N/A

ACL/Intervals

This table contains ACL interval information.

XML structure

```
<ACL>
  <Intervals>
    <Interval>
      <IntervalType></IntervalType>
      <IntervalValue></IntervalValue>
    </Interval>
  </Intervals>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Intervals
Table type	Multi-instance table
Row name	Interval
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalType	The type of the interval	Index	Enumeration: • **1**—logging. • **2**—trap.	The type of the interval specified for generating packet filtering logs or traps.
IntervalValue	The value of the interval	N/A	Unsigned integer. Value range: 5 to 1440.	It must be a multiple of 5.

ACL/IPv4BasicRules

This table contains IPv4 basic ACL rule information.

XML structure

```
<ACL>
  <IPv4BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
    </Rule>
  </IPv4BasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses. • **false**—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv4NamedBasicRules

This table contains named IPv4 basic ACL rule information.

XML structure

```
<ACL>
  <IPv4NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <RuleNum></RuleNum>
    </Rule>
```

```
  </IPv4NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses. • **false**—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/IPv6BasicRules

This table contains IPv6 basic ACL rule information.

XML structure

```
<ACL>
  <IPv6BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
       <MatchIndex></MatchIndex>
    </Rule>
  </IPv6BasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Address. • SrcIPv6Prefix.	The members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header.	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv6NamedBasicRules

This table contains named IPv6 basic ACL rule information.

XML structure

```
<ACL>
  <IPv6NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
```

```
      <SrcIPv6Prefix></SrcIPv6Prefix>
    </SrcIPv6>
    <SrcObjectGroup></SrcObjectGroup>
    <RoutingTypeAny></RoutingTypeAny>
    <RoutingTypeValue></RoutingTypeValue>
    <Fragment></Fragment>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
    <RuleNum></RuleNum>
  </Rule>
 </IPv6NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Address. • SrcIPv6Prefix.	The members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header.	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/IPv4AdvanceRules

This table contains IPv4 advanced ACL rule information.

XML structure

```
<ACL>
  <IPv4AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <SrcMicsegGroup></SrcMicsegGroup>
      <SrcMicsegMaskLength></SrcMicsegMaskLength>
      <DstAny></DstAny>
```

```
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstObjectGroup></DstObjectGroup>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
<ECN></ECN>
<DSCP></DSCP>
<DSCPRange>
  <StartDSCP></StartDSCP>
  <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP>
  <ICMPType></ICMPType>
  <ICMPCode></ICMPCode>
</ICMP>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
```

```
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>
  <InDstIPv4Addr></InDstIPv4Addr>
  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPortOp></InDstPortOp>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InTcpFlag>
  <InACK></InACK>
  <InFIN></InFIN>
  <InPSH></InPSH>
  <InRST></InRST>
  <InSYN></InSYN>
  <InURG></InURG>
</InTcpFlag>
<InEstablished></InEstablished>
<InECN></InECN>
<InDSCP></InDSCP>
<InPrecedence></InPrecedence>
<InTOS></InTOS>
<Counting></Counting>
<Logging></Logging>
<FlowLogging></FlowLogging>
<Comment></Comment>
<UserGroup></UserGroup>
<UserGroupAny></UserGroupAny>
<SUserGroup></SUserGroup>
<SUserGroupAny></SUserGroupAny>
<DUserGroup></DUserGroup>
<DUserGroupAny></DUserGroupAny>
<GreValue></GreValue>
<Options></Options>
<FragmentType></FragmentType>
<Status></Status>
<Count></Count>
<MatchIndex></MatchIndex>
```

```
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv4AdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses. • **false**—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses (default). • **false**—Matches the specified destination IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the **DstIPv4** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot both be configured.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: • StartDSCP • EndDSCP	DSCP and DSCPRange cannot both be configured.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP	ICMP messages.	Data structure	Members include: • ICMPType. • ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1**—VXLAN encapsulation. • **2**—GRE encapsulation. • **3**—IPINIP encapsulation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	Only the VXLAN encapsulation supports this column.
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: • **true**—Matches any inner source IP addresses. • **false**—Matches the specified inner source IP address.	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: • InSrcIPv4Addr. • InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: • **true**—Matches any inner destination IP addresses. • **false**—Matches the specified inner destination IP address.	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: • InDstIPv4Addr. • InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InTcpFlag	Inner TCP flags.	Data structure	Members include: • InACK. • InFIN. • InPSH. • InRST. • InSYN • InURG.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InACK	ACK flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP inner protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
InPrecedence	Inner IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InTOS	Inner ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group.	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any source user group. • **false**—Matches the specified source user group (default).	N/A
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.

Column name	Column description	Column type	Data type and restrictions	Remarks
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any destination user group. • **false**—Matches the specified destination user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/IPv4NamedAdvanceRules

This table contains named IPv4 advanced ACL rule information.

XML structure

```
<ACL>
  <IPv4NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
```

```
</SrcIPv4>
<SrcObjectGroup></SrcObjectGroup>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstObjectGroup></DstObjectGroup>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
<ECN></ECN>
<DSCP></DSCP>
<DSCPRange>
  <StartDSCP></StartDSCP>
  <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP>
  <ICMPType></ICMPType>
  <ICMPCode></ICMPCode>
</ICMP>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
```

```
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>
  <InDstIPv4Addr></InDstIPv4Addr>
  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPortOp></InDstPortOp>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InTcpFlag>
  <InACK></InACK>
  <InFIN></InFIN>
  <InPSH></InPSH>
  <InRST></InRST>
  <InSYN></InSYN>
  <InURG></InURG>
</InTcpFlag>
<InEstablished></InEstablished>
<InECN></InECN>
<InDSCP></InDSCP>
<InPrecedence></InPrecedence>
<InTOS></InTOS>
<Counting></Counting>
<Logging></Logging>
<FlowLogging></FlowLogging>
<Comment></Comment>
<UserGroup></UserGroup>
<UserGroupAny></UserGroupAny>
<SUserGroup></SUserGroup>
<SUserGroupAny></SUserGroupAny>
<DUserGroup></DUserGroup>
<DUserGroupAny></DUserGroupAny>
<GreValue></GreValue>
```

```
      <Options></Options>
      <FragmentType></FragmentType>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <RuleNum></RuleNum>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv4NamedAdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses. • **false**—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses. • **false**—Matches the specified destination IP address.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.

Column name	Column description	Column type	Data type and restrictions	Remarks
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot both be configured.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: • StartDSCP • EndDSCP	DSCP and DSCPRange cannot both be configured.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP	ICMP messages.	Data structure	Members include: • ICMPType. • ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1**—VXLAN encapsulation. • **2**—GRE encapsulation. • **3**—IPINIP encapsulation.	N/A
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	Only the VXLAN encapsulation supports this column.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: • **true**—Matches any inner source IP addresses. • **false**—Matches the specified inner source IP address.	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: • InSrcIPv4Addr. • InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InSrcAny** column is **false**. It must be empty when the **InSrcAny** column is **true**.
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: • **true**—Matches any inner destination IP addresses. • **false**—Matches the specified inner destination IP address.	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: • InDstIPv4Addr. • InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **InDstAny** column is **false**. It must be empty when the **InDstAny** column is **true**.
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.

Column name	Column description	Column type	Data type and restrictions	Remarks
InTcpFlag	Inner TCP flags.	Data structure	Members include: • InACK. • InFIN. • InPSH. • InRST. • InSYN • InURG.	N/A
InACK	ACK flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP header.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP inner protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
InPrecedence	Inner IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
InTOS	Inner ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group.	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any source user group. • **false**—Matches the specified source user group (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any destination user group. • **false**—Matches the specified destination user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			than). • **4**—neq (not equal to). • **5**—range (inclusive range).	
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/IPv6AdvanceRules

This table contains IPv6 advanced ACL rule information.

XML structure

```
<ACL>
  <IPv6AdvanceRules>
    <Rule>
      <GroupID></GroupID>
```

```
<RuleID></RuleID>
<Action></Action>
<ProtocolType></ProtocolType>
<SrcAny></SrcAny>
<SrcIPv6>
  <SrcIPv6Addr></SrcIPv6Addr>
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcObjectGroup></SrcObjectGroup>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
<DstObjectGroup></DstObjectGroup>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
<ECN></ECN>
<DSCP></DSCP>
<FlowLabel></FlowLabel>
<RoutingTypeAny></RoutingTypeAny>
<RoutingTypeValue></RoutingTypeValue>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP6>
  <ICMP6Type></ICMP6Type>
  <ICMP6Code></ICMP6Code>
```

```
</ICMP6>
<Fragment></Fragment>
<HopTypeAny></HopTypeAny>
<HopTypeValue></HopTypeValue>
<TimeRange></TimeRange>
<VRF></VRF>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv6>
  <InSrcIPv6Addr></InSrcIPv6Addr>
  <InSrcIPv6Prefix></InSrcIPv6Prefix>
</InSrcIPv6>
<InDstAny></InDstAny>
<InDstIPv6>
  <InDstIPv6Addr></InDstIPv6Addr>
  <InDstIPv6Prefix></InDstIPv6Prefix>
</InDstIPv6>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPortOp></InDstPortOp>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InTcpFlag>
  <InACK></InACK>
  <InFIN></InFIN>
  <InPSH></InPSH>
  <InRST></InRST>
  <InSYN></InSYN>
  <InURG></InURG>
</InTcpFlag>
<InEstablished></InEstablished>
<InECN></InECN>
<InDSCP></InDSCP>
<QoSLocalID></QoSLocalID>
<Counting></Counting>
<Logging></Logging>
<FlowLogging></FlowLogging>
<Comment></Comment>
<UserGroup></UserGroup>
<UserGroupAny></UserGroupAny>
<SUserGroup></SUserGroup>
```

```
      <SUserGroupAny></SUserGroupAny>
      <DUserGroup></DUserGroup>
      <DUserGroupAny></DUserGroupAny>
      <GreValue></GreValue>
      <Options></Options>
      <FragmentType></FragmentType>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv6AdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses. • **false**—Matches the specified destination IPv6 address.	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header.	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP6	ICMPv6 messages.	Data structure	Members include: • ICMP6Type. • ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: • **true**—Matches any types of Hop-by-Hop Options header. • **false**—Matches the specified type of Hop-by-Hop Options header.	N/A
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1—**VXLAN**.** • **4—**VXLAN-IPv6**.**	N/A
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A.
InSrcIPv6	Inner source IPv6 information.	Data structure	Members include: • InSrcIPv6Addr. • InSrcIPv6Prefix.	N/A
InSrcIPv6Addr	Inner source IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A
InSrcIPv6Prefix	Length of the inner source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
InDstAny	Whether a rule matches any inner destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses. • **false**—Matches the specified destination IPv6 address.	N/A
InDstIPv6	Inner destination IPv6 information.	Data structure	Members include: • InDstIPv6Addr. • InDstIPv6Prefix.	N/A
InDstIPv6Addr	Inner destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstIPv6Prefix	Length of the inner destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	Only the TCP and UDP protocols support this column.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	N/A
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP protocols support this column.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InTcpFlag	Inner TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
InACK	ACK flag in an nner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the established status of an inner TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group.	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536.The value 65536 indicates that the packet length value is not available.

ACL/IPv6NamedAdvanceRules

This table contains named IPv6 advanced ACL rule information.

XML structure

```
<ACL>
  <IPv6NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
```

```
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcObjectGroup></SrcObjectGroup>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
<DstObjectGroup></DstObjectGroup>
<DstMicsegGroup></DstMicsegGroup>
<DstMicsegMaskLength></DstMicsegMaskLength>
<ECN></ECN>
<DSCP></DSCP>
<FlowLabel></FlowLabel>
<RoutingTypeAny></RoutingTypeAny>
<RoutingTypeValue></RoutingTypeValue>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<SrcPortObjectGroup></SrcPortObjectGroup>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DstPortObjectGroup></DstPortObjectGroup>
<TcpFlag>
  <ACK></ACK>
  <FIN></FIN>
  <PSH></PSH>
  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP6>
  <ICMP6Type></ICMP6Type>
  <ICMP6Code></ICMP6Code>
</ICMP6>
<Fragment></Fragment>
<HopTypeAny></HopTypeAny>
<HopTypeValue></HopTypeValue>
<TimeRange></TimeRange>
<VRF></VRF>
```

```
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv6>
  <InSrcIPv6Addr></InSrcIPv6Addr>
  <InSrcIPv6Prefix></InSrcIPv6Prefix>
</InSrcIPv6>
<InDstAny></InDstAny>
<InDstIPv6>
  <InDstIPv6Addr></InDstIPv6Addr>
  <InDstIPv6Prefix></InDstIPv6Prefix>
</InDstIPv6>
<InSrcPort>
  <InSrcPortOp></InSrcPortOp>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPortOp></InDstPortOp>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InTcpFlag>
  <InACK></InACK>
  <InFIN></InFIN>
  <InPSH></InPSH>
  <InRST></InRST>
  <InSYN></InSYN>
  <InURG></InURG>
</InTcpFlag>
<InEstablished></InEstablished>
<InECN></InECN>
<InDSCP></InDSCP>
<QoSLocalID></QoSLocalID>
<Counting></Counting>
<Logging></Logging>
<FlowLogging></FlowLogging>
<Comment></Comment>
<UserGroup></UserGroup>
<UserGroupAny></UserGroupAny>
<SUserGroup></SUserGroup>
<SUserGroupAny></SUserGroupAny>
<DUserGroup></DUserGroup>
<DUserGroupAny></DUserGroupAny>
<GreValue></GreValue>
<Options></Options>
<FragmentType></FragmentType>
```

```
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <RuleNum></RuleNum>
      <Ttl>
        <TtlOp></TtlOp>
        <TtlValue1></TtlValue1>
        <TtlValue2></TtlValue2>
      </Ttl>
      <PktLength>
        <PktLengthOp></PktLengthOp>
        <PktLengthValue1></PktLengthValue1>
        <PktLengthValue2></PktLengthValue2>
      </PktLength>
    </Rule>
  </IPv6NamedAdvanceRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column or SrcObjectGroup column.
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses. • **false**—Matches the specified destination IPv6 address.	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column or DstObjectGroup column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: • **true**—Matches any types of routing header. • **false**—Matches the specified type of routing header.	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
SrcPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
DstPortObjectGroup	Source port object group name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP6	ICMPv6 messages.	Data structure	Members include: • ICMP6Type. • ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • **true**—Matches only non-first fragments. • **false**—Matches both fragments and non-fragments.	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: • **true**—Matches any types of Hop-by-Hop Options header. • **false**—Matches the specified type of Hop-by-Hop Options header.	N/A
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
EncapType	Encapsulation type.	N/A	Enumeration: • **1—**VXLAN**.** • **4—**VXLAN-IPv6**.**	N/A
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IPv6 addresses.	N/A	Boolean: • **true**—Matches any source IPv6 addresses. • **false**—Matches the specified source IPv6 address.	N/A.
InSrcIPv6	Inner source IPv6 information.	Data structure	Members include: • InSrcIPv6Addr. • InSrcIPv6Prefix.	N/A
InSrcIPv6Addr	Inner source IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A
InSrcIPv6Prefix	Length of the inner source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
InDstAny	Whether a rule matches any inner destination IPv6 addresses.	N/A	Boolean: • **true**—Matches any destination IPv6 addresses. • **false**—Matches the specified destination IPv6 address.	N/A
InDstIPv6	Inner destination IPv6 information.	Data structure	Members include: • InDstIPv6Addr. • InDstIPv6Prefix.	N/A
InDstIPv6Addr	Inner destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstIPv6Prefix	Length of the inner destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
InSrcPort	Inner source port information.	Data structure	Members include: • InSrcPortOp. • InSrcPortValue1. • InSrcPortValue2.	Only the TCP and UDP protocols support this column.
InSrcPortOp	Inner source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	N/A
InDstPort	Inner destination port information.	Data structure	Members include: • InDstPortOp. • InDstPortValue1. • InDstPortValue2.	Only the TCP and UDP protocols support this column.
InDstPortOp	Inner destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InTcpFlag	Inner TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
InACK	ACK flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
InFIN	FIN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
InPSH	PSH flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
InRST	RST flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
InSYN	SYN flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
InURG	URG flag in an inner TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
InEstablished	Whether a rule matches flags indicating the established status of a inner TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column.
InECN	Inner ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InDSCP	Inner DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Logging	Whether to log rule match events.	N/A	Boolean: • **true**—Logs rule match events. • **false**—Does not log rule match events.	N/A
FlowLogging	Whether to log matching packets on a per-flow basis.	N/A	Boolean: • **true**—Logs matching packets on a per-flow basis. • **false**—Does not log matching packets on a per-flow basis.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
UserGroup	User group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserGroupAny	Whether a rule matches any user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group.	N/A
SUserGroup	Source user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **SUserGroupAny** column is **false**.
SUserGroupAny	Whether a rule matches any source user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DUserGroup	Destination user group name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	This column is available when the **DUserGroupAny** column is **false**.
DUserGroupAny	Whether a rule matches any destination user group.	N/A	Boolean: • **true**—Matches any user group. • **false**—Matches the specified user group (default).	N/A
GreValue	Config a gre value.	N/A	Hexadecimal string. Length: 1 to 8 characters. Value range: 0 to FFFFFFFF.	Only the GRE protocol supports this column.
Options	IP options.	N/A	Boolean: • **true**—Options. • **false**—Not options, default.	Only when the ProtocolType value is 256,and then the table can supports this column.
FragmentType	Check fragment packet type.	N/A	Unsigned integer. Value range: 0 to 3. • **0**—First-fragment. • **1**—Non-fragment. • **2**—Non-or-first-fragment. • **3**—Any-fragment.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Ttl	Whether a rule matches TTL.	Data structure	Members include: • TtlOp. • TtlValue1. • TtlValue2.	N/A
TtlOp	TTL operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—neq (not equal to). • **5**—range (inclusive range).	
TtlValue1	Start TTL value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TtlValue2	End TTL value.	N/A	Unsigned integer. Value range: 1 to 256.	When the TtlOp is 5, the value range is 1 to 255. Otherwise, it can only be 256. The value 256 indicates that the end TTL value is not available.
PktLength	Whether a rule matches packet length.	Data structure	Members include: • PktLengthOp. • PktLengthValue1. • PktLengthValue2.	N/A
PktLengthOp	Packet length operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
PktLengthValue1	Start packet length value.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PktLengthValue2	End packet length value.	N/A	Unsigned integer. Value range: 0 to 65536.	When the PktLengthOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the packet length value is not available.

ACL/MACRules

This table contains Ethernet frame header ACL rule information.

XML structure

```
<ACL>
  <MACRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
```

```
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>
        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
      </Protocol>
      <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
      </LSAP>
      <EncapType></EncapType>
      <VxlanID></VxlanID>
      <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress>
        <InSrcMACMask></InSrcMACMask>
      </InSrcMACAddr>
      <InDstMACAddr>
        <InDstMACAddress></InDstMACAddress>
        <InDstMACMask></InDstMACMask>
      </InDstMACAddr>
      <InProtocol>
        <InProtocolType></InProtocolType>
        <InProtocolTypeMask></InProtocolTypeMask>
      </InProtocol>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
    </Rule>
  </MACRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	MACRules
Table type	Multi-instance table

Item	Description
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 4000 to 4999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: • SrcMACAddress. • SrcMACMask.	The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: • DstMACAddress. • DstMACMask.	The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	The members must both be specified.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: • LSAPType. • LSAPTypeMask.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: • VXLAN encapsulation. • GRE encapsulation. • IPINIP encapsulation.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: • InSrcMACAddress. • InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddr ess	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: • InDstMACAddress. • InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddr ess	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
InProtocolType Mask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/MACNamedRules

This table contains named Ethernet frame header ACL rule information.

XML structure

```
<ACL>
  <MACNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
```

```
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>
        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
      </Protocol>
      <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
      </LSAP>
      <EncapType></EncapType>
      <VxlanID></VxlanID>
      <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress>
        <InSrcMACMask></InSrcMACMask>
      </InSrcMACAddr>
      <InDstMACAddr>
        <InDstMACAddress></InDstMACAddress>
        <InDstMACMask></InDstMACMask>
      </InDstMACAddr>
      <InProtocol>
        <InProtocolType></InProtocolType>
        <InProtocolTypeMask></InProtocolTypeMask>
      </InProtocol>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <RuleNum></RuleNum>
    </Rule>
  </MACNamedRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	MACNamedRules
Table type	Multi-instance table
Row name	Rule

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 4000 to 4999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: • SrcMACAddress. • SrcMACMask.	The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: • DstMACAddress. • DstMACMask.	The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	The members must both be specified.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LSAP	LSAP.	Data structure	Members include: • LSAPType. • LSAPTypeMask.	The members must both be specified.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: • VXLAN encapsulation. • GRE encapsulation. • IPINIP encapsulation.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: • InSrcMACAddress. • InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddr ess	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: • InDstMACAddress. • InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddr ess	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: • ProtocolType. • ProtocolTypeMask.	Only the VXLAN encapsulation supports this

Column name	Column description	Column type	Data type and restrictions	Remarks
				column. The members must both be specified.
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
InProtocolType Mask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/PfilterDefAction

This table contains information about the default global packet filter actions.

XML structure

```
<ACL>
  <PfilterDefAction>
    <DefaultAction></DefaultAction>
  </PfilterDefAction>
```

```
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default packet filter action	N/A	Enumeration: • **1**—Permit. • **2**—Deny.

ACL/PfilterIgnoreAction

This table contains information about the ignoring the packet filter permit action.

XML structure

```
<ACL>
  <PfilterIgnoreAction>
    <IgnoreAction></IgnoreAction>
  </PfilterIgnoreAction>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterIgnoreAction
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreAction	Whether to the ignore packet filter permit action.	N/A	Boolean: • **true**—Ignore the packet filter permit action. • **false**—Not ignore the packet filter permit action.	N/A

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <HardCount></HardCount>
      <InnerEncap></InnerEncap>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
      <AppSequence></AppSequence>
      <IfName></IfName>
    </Pfilter>
  </PfilterApply>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is **1**. • VLAN ID in the range of 1 to 4094 if AppObjType is **2**. • The value is 0 if AppObjType is **3**.
AppDirection	Application direction.	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—MAC ACL. • 4—User-defined ACL. • **5**—ACL with the default action.	• Type 5 is a special ACL.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AppAclType column. • 2000 to 3999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**. • 0 if AppAclType is **5**.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: • **1**—enable. • **2**—disable.	N/A
InnerEncap	Match the inner packet information of encapsulation packets.	N/A	Enumeration: • **0**—None. • **1**—VXLAN.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ShareMode	Whether to apply the ACL in sharing mode.	N/A	Boolean: • **true**—Apply the ACL in sharing mode. • **false**—Do not apply the ACL in sharing mode.	N/A
ShareModeBoth	Whether to apply the ACL in sharing mode for both direction.	N/A	Boolean: • **true**—Apply the ACL in sharing mode for both direction. • **false**—Do not apply the ACL in sharing mode for both direction.	Support for this function depends on the device model. This column cannot be modified.
AppSequence	ACL application sequence.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

ACL/PfilterGroupRunInfo

This table contains running information about packet filter ACLs on application objects.

XML structure

```
<ACL>
  <PfilterGroupRunInfo>
    <GroupRunInfo>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <AclGroupStatus></AclGroupStatus>
      <AclGroupCountStatus></AclGroupCountStatus>
      <AclGroupPermitPkts></AclGroupPermitPkts>
      <AclGroupPermitBytes></AclGroupPermitBytes>
      <AclGroupDenyPkts></AclGroupDenyPkts>
      <AclGroupDenyBytes></AclGroupDenyBytes>
      <IfName></IfName>
    </GroupRunInfo>
  </PfilterGroupRunInfo>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterGroupRunInfo
Table type	Multi-instance table
Row name	GroupRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is **1**. • VLAN ID in the range of 1 to 4094 if AppObjType is **2**. • The value is 0 if AppObjType is **3**.
AppDirection	Application direction.	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • 3—MAC ACL. • 4—User-defined ACL. • **5**—ACL with the default action.	• Type 5 is a special ACL. The default action can be the default MAC action, default IPv4 action, or default IPv6 action.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	The value depends on the AppAclType column. • 2000 to 3999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**. • 1 if AppAclType is **4** and the default action is default MAC action. • 2 if AppAclType is **4** and the default action is default IPv4 action. • 3 if AppAclType is **4** and the default action is default IPv6 action.
AclGroupStatus	Whether an ACL is successfully applied.	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Partly succeeded.	N/A
AclGroupCountStatus	Whether an ACL with hardware counting enabled is successfully applied.	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Partly succeeded.	N/A
AclGroupPermitPkts	Number of permitted packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
AclGroupPermitBytes	Number of permitted bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
AclGroupDenyPkts	Number of denied packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
AclGroupDenyBytes	Number of denied bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

ACL/PfilterRuleRunInfo

This table contains running information about packet filter ACL rules on application objects.

XML structure

```
<ACL>
  <PfilterRuleRunInfo>
    <RuleRunInfo>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <AppAclRuleIndex></AppAclRuleIndex>
      <AclRuleStatus></AclRuleStatus>
      <AclRuleCountStatus></AclRuleCountStatus>
      <AclRuleMatchPkts></AclRuleMatchPkts>
      <AclRuleMatchBytes></AclRuleMatchBytes>
      <IfName></IfName>
    </RuleRunInfo>
  </PfilterRuleRunInfo>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterRuleRunInfo
Table type	Multi-instance table
Row name	RuleRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is **1**. • VLAN ID in the range of 1 to 4094 if AppObjType is **2**. • The value is 0 if AppObjType is **3**.
AppDirection	Application direction.	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • 3—MAC ACL. • 4—User-defined ACL.	N/A
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AppAclType column. • 2000 to 3999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**.
AppAclRuleIndex	Index of the ACL rules.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
AclRuleStatus	Whether an ACL rule is successfully applied.	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Partly succeeded.	N/A
AclRuleCountStatus	Whether an ACL rule with hardware counting enabled is successfully applied.	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Partly succeeded.	N/A
AclRuleMatchPkts	Number of matched packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.

Column name	Column description	Column type	Data type and restrictions	Remarks
AclRuleMatchBytes	Number of matched bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

ACL/PfilterStatisticSum

This table contains accumulative statistics about an ACL on a specific direction.

XML structure

```
<ACL>
  <PfilterStatisticSum>
    <StatisticSum>
      <Direction></Direction>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <AclRuleIndex></AclRuleIndex>
      <MatchPackets></MatchPackets>
      <MatchBytes></MatchBytes>
    </StatisticSum>
  </PfilterStatisticSum>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterStatisticSum
Table type	Multi-instance table
Row name	StatisticSum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AclType	ACL type	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • 3—MAC ACL. • 4—User-defined ACL.	N/A
AclGroup	ACL name or number	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AclType column. • 2000 to 3999 if AclType is **1**. • 2000 to 3999 if AclType is **2**. • 4000 to 4999 if AppAclType is **3**. • 5000 to 5999 if AppAclType is **4**.
AclRuleIndex	Index of the ACL rules	Index	Unsigned integer. Value range: 0 to 65534.	N/A
MatchPackets	Number of matched packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
MatchBytes	Number of matched bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.

ACL/UserRules

This table contains information about user-defined ACL rules.

XML structure

```
<ACL>
  <UserRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
```

```
<L2Rule>
  <L2RuleString></L2RuleString>
  <L2RuleMask></L2RuleMask>
  <L2Offset></L2Offset>
</L2Rule>
<IPv4Rule>
  <IPv4RuleString></IPv4RuleString>
  <IPv4RuleMask></IPv4RuleMask>
  <IPv4Offset></IPv4Offset>
</IPv4Rule>
<IPv6Rule>
  <IPv6RuleString></IPv6RuleString>
  <IPv6RuleMask></IPv6RuleMask>
  <IPv6Offset></IPv6Offset>
</IPv6Rule>
<L4Rule>
  <L4RuleString></L4RuleString>
  <L4RuleMask></L4RuleMask>
  <L4Offset></L4Offset>
</L4Rule>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<IPv6ProtocolType></IPv6ProtocolType>
<DualStackProtocolType></DualStackProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<SrcIPv6>
  <SrcIPv6Addr></SrcIPv6Addr>
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
```

```
      </DstIPv6>
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ECN></ECN>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <VRF></VRF>
    </Rule>
  </UserRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 5000 to 5999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: • L2RuleString. • L2RuleMask. • L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: • IPv4RuleString. • IPv4RuleMask. • IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: • IPv6RuleString. • IPv6RuleMask. • IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: • L4RuleString. • L4RuleMask. • L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: • L5RuleString. • L5RuleMask. • L5Offset.	The members must all be specified.
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UdfFormat	User-defined packet fortmat.	N/A	Enumeration: • **1**—IFA packet. • **2**—Raw ip packet. • **3**—VXLAN packet. • **4**—GRE-C1R0K1 packet. • **5**—GRE-C0R0K1 packet. • **6**—GRE-K1R1 packet. • **7**—4-byte GRE packet. • **8**—8-byte GRE packet. • **9**—12-byte GRE packet. • **10**—16-byte GRE packet. • **11**—20-byte GRE packet.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
IPv6ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DualStackProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256.	You cannot specify a protocol type when you remove or delete a rule. The value can only be 6 or 17 when you creat, merge or replace a rule. When the DualStackProtocolType is configured, only the following fields can be configured: GroupID, RuleID, Action, SrcMicsegGroup, SrcMicsegMaskLength, DstMicsegGroup, DstMicsegMaskLength、SrcPort, DstPort, TimeRange, Counting, VRF, TcpFlag.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses (default). • **false**—Matches the specified source IP address.	This column is available when the ProtocolType is specified. This column must be configured together with the **SrcIPv4 or SrcIPv6** column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses. • **false**—Matches the specified destination IP address.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. The availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	Only the IPv4 type supports this column. The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	Only the IPv4 type supports this column. The DSCP priority and the ToS precedence cannot both be specified.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

ACL/UserNamedRules

This table contains information about named user-defined ACL rules.

XML structure

```
<ACL>
  <UserNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
```

```
  <L2RuleString></L2RuleString>
  <L2RuleMask></L2RuleMask>
  <L2Offset></L2Offset>
</L2Rule>
<IPv4Rule>
  <IPv4RuleString></IPv4RuleString>
  <IPv4RuleMask></IPv4RuleMask>
  <IPv4Offset></IPv4Offset>
</IPv4Rule>
<IPv6Rule>
  <IPv6RuleString></IPv6RuleString>
  <IPv6RuleMask></IPv6RuleMask>
  <IPv6Offset></IPv6Offset>
</IPv6Rule>
<L4Rule>
  <L4RuleString></L4RuleString>
  <L4RuleMask></L4RuleMask>
  <L4Offset></L4Offset>
</L4Rule>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<DualStackProtocolType></DualStackProtocolType>
<IPv6ProtocolType></IPv6ProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<SrcIPv6>
  <SrcIPv6Addr></SrcIPv6Addr>
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcMicsegGroup></SrcMicsegGroup>
<SrcMicsegMaskLength></SrcMicsegMaskLength>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
```

```
      <DstMicsegGroup></DstMicsegGroup>
      <DstMicsegMaskLength></DstMicsegMaskLength>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ECN></ECN>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <VRF></VRF>
    </Rule>
  </UserNamedRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 5000 to 5999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: • L2RuleString. • L2RuleMask. • L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: • IPv4RuleString. • IPv4RuleMask. • IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: • IPv6RuleString. • IPv6RuleMask. • IPv6Offset.	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: • L4RuleString. • L4RuleMask. • L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: • L5RuleString. • L5RuleMask. • L5Offset.	The members must all be specified.
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UdfFormat	User-defined packet fortmat.	N/A	Enumeration: • **1**—IFA packet. • **2**—Raw ip packet. • **3**—VXLAN packet. • **4**—GRE-C1R0K1 packet. • **5**—GRE-C0R0K1 packet. • **6**—GRE-K1R1 packet. • **7**—4-byte GRE packet. • **8**—8-byte GRE packet. • **9**—12-byte GRE packet. • **10**—16-byte GRE packet. • **11**—20-byte GRE packet.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
IPv6ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DualStackProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256.	You cannot specify a protocol type when you remove or delete a rule. The value can only be 6 or 17 when you creat, merge or replace a rule. When the DualStackProtocolType is configured, only the following fields can be configured: GroupID, RuleID, Action, SrcMicsegGroup, SrcMicsegMaskLength, DstMicsegGroup, DstMicsegMaskLength、SrcPort, DstPort, TimeRange, Counting, VRF, TcpFlag.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • **true**—Matches any source IP addresses. • **false**—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **SrcAny** column is **false**. It must be empty when the **SrcAny** column is **true**.
SrcMicsegGroup	Source micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the SrcAny column.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of SrcMicsegGroup. Example: GroupID is 16, the SrcMicsegMaskLength can be 1,2,3,4.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • **true**—Matches any destination IP addresses. • **false**—Matches the specified destination IP address.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: • DstIPv4Addr. • DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the **DstAny** column is **false**. It must be empty when the **DstAny** column is **true**.
DstMicsegGroup	Destination micseg group number.	N/A	Unsigned integer. Value range: 0 to 65535.	This column cannot be configured together with the DstAny column.
DstMicsegMaskLength	Wildcard low-order n bits	N/A	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of DstMicsegGroup. Example: GroupID is 16, the DstMicsegMaskLength can be 1,2,3,4.
SrcPort	Source port information.	Data structure	Members include: • SrcPortOp. • SrcPortValue1. • SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: • **1**—lt (lower than). • **2**—eq (equal to). • **3**—gt (greater than). • **4**—neq (not equal to). • **5**—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is **5**, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—ACK flag is not set. • **1**—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—FIN flag is not set. • **1**—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—PSH flag is not set. • **1**—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—RST flag is not set. • **1**—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—SYN flag is not set. • **1**—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • **0**—URG flag is not set. • **1**—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • **true**—Matches the flags. • **false**—Ignores the flags.	Only the TCP protocol supports this column. The availability and usage of this column depend on the device model. This column and the **TcpFlag** column cannot both be configured.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	Only the IPv4 type supports this column. The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	Only the IPv4 type supports this column. The DSCP priority and the ToS precedence cannot both be specified.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • **true**—Counts the rule matches. • **false**—Does not count the rule matches.	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

ACL/ZonePairPfilter

This table contains information about packet filter application for zone pair.

XML structure

```
<ACL>
  <ZonePairPfilter>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <AppSequence></AppSequence>
```

```
    </Pfilter>
  </ZonePairPfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilter
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AclGroup	ACL name or number.	Index	• ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. The value range depends on the AppAclType column. • 2000 to 5999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**.
AppSequence	ACL application sequence.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

ACL/ZonePairPfilterRules

This table contains running information about packet filter ACL rules for zone pair.

XML structure

```
<ACL>
  <ZonePairPfilterRules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <AclRuleID></AclRuleID>
      <RuleMatchPkts></RuleMatchPkts>
      <RuleMatchBytes></RuleMatchBytes>
    </Rule>
  </ZonePairPfilterRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilterRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. • Length: 1 to 31 characters.	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL. • **3**—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.

Column name	Column description	Column type	Data type and restrictions	Remarks
AclGroup	ACL name or number.	Index	• ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. The value range depends on the AppAclType column. • 2000 to 5999 if AppAclType is **1**. • 2000 to 3999 if AppAclType is **2**.
AclRuleID	Index of the ACL rules.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
RuleMatchPkts	Number of matched packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.
RuleMatchBytes	Number of matched bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support match counting for packet filter, 0×FFFFFFFFFFFFFFFF is returned.

ACL/PfilterFilterOption

This table contains information about the applicable scope of packet filtering on a VLAN interface.

XML structure

```
<ACL>
  <PfilterFilterOption>
    <Pfilter>
      <VlanIfName></VlanIfName>
      <FilterOption></FilterOption>
    </Pfilter>
  </PfilterFilterOption>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterFilterOption
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIfName	Name of the VLAN interface.	Index	String. Length: 1 to 47 characters. Example: Vlan-interface1	N/A
FilterOption	Filter Option Type.	N/A	Enumeration: • **1**—Filters all packets. • **2**—Filters packets forwarded at Layer 3 by the VLAN interface.	N/A

ACL/ExactMatchs

This table contains information about an exact-match template.

XML structure

```
<ACL>
  <ExactMatchs>
    <ExactMatch>
      <TemplateID></TemplateID>
      <IPMatch>
        <Type></Type>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <SrcPort></SrcPort>
        <DstPort></DstPort>
        <Protocol></Protocol>
        <TcpFlag></TcpFlag>
        <DstMAC></DstMAC>
        <SrcMAC></SrcMAC>
      </IPMatch>
      <MACMatch>
        <DstMAC></DstMAC>
        <SrcMAC></SrcMAC>
      </MACMatch>
    </ExactMatch>
  </ExactMatchs>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ExactMatchs
Table type	Multi-instance table
Row name	ExactMatch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateID	Template ID.	Index	Unsigned integer.	The ranges for this column are customized by the product.
IPMatch	IP match type	N/A	Members include: • **Type** • **SrcIP** • **DstIP** • **SrcPort** • **DstPort** • **Protocol** • **TcpFlag** • **DstMac** • **SrcMAC**	N/A
Type	IP version	N/A	Enumeration: • ipv4. • ipv6.	N/A
SrcIP	Source address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstIP	Destination address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcPort	Source port	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstPort	Destination port	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Protocol	Protocol	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **true**—Conform. • **false**—Not conform.	
TcpFlag	TCP flag	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstMAC	Destination MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcMAC	Source MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
MACMatch	MAC match type	N/A	Members include: • **DstMac** • **SrcMAC**	N/A
DstMAC	Destination MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcMAC	Source MAC	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

Contents

ACL 1
ACL 1

ACL

ACL

Message	Explanation
Can't edit rules for an ACL when the match order is auto. 当规则匹配顺序为自动排序时，不能修改规则。	The ACL group created in auto mode cannot modify rules. 以 auto 形式创建的 ACL 组不能修改规则。
The rule doesn't exist. Please create the rule first. 规则不存在，请在添加描述信息前先添加规则。	Cannot add rule comment information when the rule does not exist. 规则不存在时不能添加规则评论信息。
Can’t name or rename an existing ACL. 不能命名或重命名一个已存在的ACL。	Cannot modify the name as an existing ACL. 不能修改名字为已存在的ACL。
Can't change the match order for an ACL that contains rules. 不能修改一个包含规则的ACL的匹配顺序。	When an ACL is configured with rules, the matching order cannot be modified. 当ACL已经配置了规则，不能修改匹配顺序。
The rule already exists. 规则已存在。	The newly created rule content is the same as other existing rules. 新建的规则内容与其他已存在的规则内容相同。
The rule ID is out of range. 规则编号超出范围。	Automatically assigned rule number is out of range. 自动分配的规则编码超出了范围。
The step is too large to generate sufficient rule IDs. 步长过大，可分配的规则编号不足。	The modified step size is too large, and the number of rules that can be assigned is insufficient. 修改后的步长过大，可分配的规则编号不足。
The name is already used by another ACL. 该名字已被另一个ACL使用。	The newly created ACL name is occupied by other existing ACLs. 新建的ACL名称被其他已经存在的ACL占用。
Maximum number of rules in the ACL already is reached. 此ACL的规则数已达上限。	The number of rules has reached the upper limit when a new ACL rule is created. 新建ACL规则时规则个数已达到上限。
Resources are insufficient for processing the request. 系统资源不足，请求无法完成。	Insufficient memory. 设备内存不足。
The ACL doesn't exist. 指定的ACL不存在。	Add a rule to an ACL group that does not exist. 向不存在的ACL组下添加规则。
The source IPv4 address object group doesn't exist. 指定的源IPv4地址对象组不存在。	The object-group referenced by the source address of the IPv4 type ACL rule does not exist. IPv4类型ACL规则源地址引用的对象组不存在。
The source IPv6 address object group doesn't exist. 指定的源IPv6地址对象组不存在。	The object-group referenced by the source address of the IPv6 type ACL rule does not exist. IPv6类型ACL规则源地址引用的对象组不存在。
The destination IPv4 address object group doesn't exist. 指定的目的IPv4地址对象组不存在。	The object-group referenced by the destination address of the IPv4 type ACL rule does not exist. IPv4类型ACL规则目的地址引用的对象组不存在。

The destination IPv6 address object group doesn't exist. 指定的目的IPv6地址对象组不存在。	The object-group referenced by the destination address of the IPv6 type ACL rule does not exist. IPv6类型ACL规则目的地址引用的对象组不存在。
Illegal source IPv4 address object group type. 指定的源IPv4地址对象组类型不正确。	The object-group type referenced by the source address of the IPv4 type ACL is not the IPv4 type. IPv4类型ACL规则源地址引用的对象组类型不是IPv4类型。
Illegal source IPv6 address object group type. 指定的源IPv6地址对象组类型不正确。	The object-group type referenced by the source address of the IPv6 type ACL is not the IPv6 type. IPv6类型ACL规则源地址引用的对象组类型不是IPv6类型。
Illegal destination IPv4 address object group type. 指定的目的IPv4地址对象组类型不正确。	The object-group type referenced by the destination address of the IPv4 type ACL is not the IPv4 type. IPv4类型ACL规则目的地址引用的对象组类型不是IPv4类型。
Illegal destination IPv6 address object group type. 指定的目的IPv6地址对象组类型不正确。	The object-group type referenced by the destination address of the IPv6 type ACL is not the IPv6 type. IPv6类型ACL规则目的地址引用的对象组类型不是IPv6类型。
Can't delete the ACL because it is being used. 该ACL正被引用，无法删除。	The ACL specified to be deleted is referenced by other modules and cannot be deleted. 指定要删除的ACL被其他模块引用，不能被删除。

Contents

ADVPN 1
ResetTunnelAdvpnSession 1
XML structure 1
Table description 1
Columns 1
ResetAllSessions 1
XML structure 2
Table description 2
Columns 2
ResetTunnelAdvpnSessionStat 2
XML structure 2
Table description 3
Columns 3
ResetAllSessionStats 3
XML structure 3
Table description 3
Columns 4

ADVPN

ResetTunnelAdvpnSession

This table is used to clear ADVPN sessions in the specified tunnel.

XML structure

```
<ADVPN>
  <ResetTunnelAdvpnSession>
    <Reset>
      <IPVersion></IPVersion>
      <TunnelID></TunnelID>
      <PrivateAddress></PrivateAddress>
    </Reset>
  </ResetTunnelAdvpnSession>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetTunnelAdvpnSession
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration • 4—IPv4 • 6—IPv6	This column must not be empty.
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddress	Private address	N/A	String	IPv4 address or IPv6 address.

ResetAllSessions

This table is used to clear all ADVPN sessions.

XML structure

```
<ADVPN>
  <ResetAllSessions>
    <Reset>
      <IPVersion></IPVersion>
    </Reset>
  </ResetAllSessions>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetAllSessions
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration • 4—IPv4 • 6—IPv6	This column must not be empty.

ResetTunnelAdvpnSessionStat

This table is used to clrear ADVPN session statistics for the specified tunnel.

XML structure

```
<ADVPN>
  <ResetTunnelAdvpnSessionStat>
    <Reset>
      <IPVersion></IPVersion>
      <TunnelID></TunnelID>
      <PrivateAddress></PrivateAddress>
    </Reset>
  </ResetTunnelAdvpnSessionStat>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetSessionStatistics
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration • 4—IPv4 • 6—IPv6	This column must not be empty.
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddress	Private address	N/A	String	IPv4 address or IPv6 address.

ResetAllSessionStats

This table is used to clear all ADVPN session statistics.

XML structure

```
<ADVPN>
  <ResetAllSessionStats>
    <Reset>
      <IPVersion></IPVersion>
    </Reset>
  </ResetAllSessionStats>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetAllSessionStatistics
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration • 4—IPv4 • 6—IPv6	This column must not be empty.

Contents

ADVPN 1
TunnelAdvpnCfg 1
XML structure 1
Table description 1
Columns 1
IPv4Networks 2
XML structure 2
Table description 3
Columns 3
IPv6Networks 3
XML structure 3
Table description 4
Columns 4

ADVPN

TunnelAdvpnCfg

This table is used to configure ADVPN feature in the specified tunnel.

XML structure

```
<ADVPN>
  <TunnelAdvpnCfg>
    <Tunnel>
      <TunnelID></TunnelID>
      <IPv4Client></IPv4Client>
      <Compatible></Compatible>
      <IPv6Client></IPv6Client>
      <DumbTime></DumbTime>
      <IdleTime></IdleTime>
      <SourcePort></SourcePort>
    </Tunnel>
  </TunnelAdvpnCfg>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	TunnelAdvpnCfg
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
IPv4Client	Name of the VAM client bounded to an IPv4 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Compatible	Compatibility configuration	N/A	Enumeration: • 0—Incompatible • 1—Compatible • 2—Invalid	The value of “2” means not specifying the IPv4 VAM client config.
IPv6Client	Name of the VAM client bounded to an IPv6 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DumbTime	Dumb time for an ADVPN session	N/A	Unsigned integer Value range: 10 to 600 The default value is 120 seconds	N/A
IdleTime	Idle timeout time for a spoke-spoke ADVPN tunnel	N/A	Unsigned integer. Value range:60 to 65535. The default value is 600 seconds	N/A
SourcePort	Source UDP port number	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18001	Only supports tunnel in the following modes: • 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6.

IPv4Networks

This table is used to configure the IPv4 subnets under the specified tunnel which is ADVPN node.

XML structure

```
<ADVPN>
  <IPv4Networks>
    <IPv4Network>
      <TunnelID></TunnelID>
      <Address></Address>
      <MaskLength></MaskLength>
      <Preference></Preference>
```

```
    </IPv4Network>
  </IPv4Networks>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4Networks
Table type	Multi-instance table
Row name	IPv4Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv4 network address	Index	IPv4 address	N/A.
MaskLength	Mask of the private IPv4 network address	Index	Unsigned integer Value range: 0 to 32	Example: 24
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv6Networks

This table is used to configure the IPv6 subnets under the specified tunnel which is ADVPN node.

XML structure

```
<ADVPN>
  <IPv6Networks>
    <IPv6Network>
      <TunnelID></TunnelID>
      <Address></Address>
      <MaskLength></MaskLength>
      <Preference></Preference>
    </IPv6Network>
  </IPv6Networks>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6Networks
Table type	Multi-instance table
Row name	IPv6Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv6 network address	Index	IPv6 address	Example: 1001::
MaskLength	Prefix length of private IPv6 network address	Index	Unsigned integer Value range: 0 to 128	N/A.
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

Contents

ADVPN 1
TunnelAdvpnCfg 1
XML structure 1
Table description 1
Columns 1
IPv4Networks 3
XML structure 3
Table description 3
Columns 3
IPv6Networks 4
XML structure 4
Table description 4
Columns 4
IPv4TunnelAdvpnSession 5
XML structure 5
Table description 6
Columns 6
IPv6TunnelAdvpnSession 9
XML structure 9
Table description 10
Columns 10
IPv4TunnelRunInfo 13
XML structure 13
Table description 13
Columns 14
IPv6TunnelRunInfo 14
XML structure 14
Table description 15
Columns 15

ADVPN

TunnelAdvpnCfg

This table displays the configuration about ADVPN tunnels.

XML structure

```
<ADVPN>
  <TunnelAdvpnCfg>
    <Tunnel>
      <TunnelID></TunnelID>
      <IPv4Client></IPv4Client>
      <Compatible></Compatible>
      <IPv6Client></IPv6Client>
      <DumbTime></DumbTime>
      <IdleTime></IdleTime>
      <SourcePort></SourcePort>
     </Tunnel>
  </TunnelAdvpnCfg>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	TunnelAdvpnCfg
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
IPv4Client	Name of the VAM client bounded to an	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv4 ADVPN tunnel interface			
Compatible	Compatibility configuration	N/A	Enumeration: • 0—Incompatible • 1—Compatible • 2—Invalid	The value of “2” means not specifying the IPv4 VAM client config.
IPv6Client	Name of the VAM client bounded to an IPv6 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DumbTime	Dumb time for an ADVPN session	N/A	Unsigned integer Value range: 10 to 600 The default value is 120 seconds	N/A
IdleTime	Idle timeout time for a spoke-spoke ADVPN tunnel	N/A	Unsigned integer. Value range:60 to 65535. The default value is 600 seconds	N/A
SourcePort	Source UDP port number	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18001	Only supports tunnel in the following modes: • 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6.

IPv4Networks

This table displays the IPv4 subnets configuration under an ADVPN node.

XML structure

```
<ADVPN>
  <IPv4Networks>
    <IPv4Network>
      <TunnelID></TunnelID>
      <Address></Address>
      <MaskLength></MaskLength>
      <Preference></Preference>
    </IPv4Network>
  </IPv4Networks>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4Networks
Table type	Multi-instance table
Row name	IPv4Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv4 network address	Index	IPv4 address	N/A.
MaskLength	Mask of the private IPv4 network address	Index	Unsigned integer Value range: 0 to 32	Example: 24
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv6Networks

This table displays the IPv6 subnets configuration under an ADVPN node.

XML structure

```
<ADVPN>
  <IPv6Networks>
    <IPv6Network>
      <TunnelID></TunnelID>
      <Address></Address>
      <MaskLength></MaskLength>
      <Preference></Preference>
    </IPv6Network>
  </IPv6Networks>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6Networks
Table type	Multi-instance table
Row name	IPv6Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv6 network address	Index	IPv6 address	Example: 1001::
MaskLength	Prefix length of private IPv6 network address	Index	Unsigned integer Value range: 0 to 128	N/A.
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv4TunnelAdvpnSession

This table is used to display IPv4 ADVPN tunnel session information.

XML structure

```
<ADVPN>
  <IPv4TunnelAdvpnSession>
    <IPv4AdvpnSession>
      <TunnelID></TunnelID>
      <PrivateAddress></PrivateAddress>
      <PublicAddress></PublicAddress>
      <AdvpnPort></AdvpnPort>
      <SPI>
        <AhInbound></AhInbound>
        <AhOutbound></AhOutbound>
        <EspInbound></EspInbound>
        <EspOutbound></EspOutbound>
      </SPI>
      <BehindNAT></BehindNAT>
      <SessionType></SessionType>
      <TunnelState></TunnelState>
      <HoldingTime></HoldingTime>
      <Input>
        <TotalPackets></TotalPackets>
        <DataPackets></DataPackets>
        <ControlPackets></ControlPackets>
        <Multicasts></Multicasts>
        <Errors></Errors>
      </Input>
      <Output>
        <TotalPackets></TotalPackets>
        <DataPackets></DataPackets>
        <ControlPackets></ControlPackets>
        <Multicasts></Multicasts>
        <Errors></Errors>
      </Output>
      <IPsecTunnelID></IPsecTunnelID>
      <SAIndex>
        <AhInbound></AhInbound>
        <AhOutbound></AhOutbound>
        <EspInbound></EspInbound>
        <EspOutbound></EspOutbound>
      </SAIndex>
    </IPv4AdvpnSession>
  </IPv4TunnelAdvpnSession>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4TunnelAdvpnSession
Table type	Multi-instance table
Row name	IPv4AdvpnSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddress	Private address of the ADVPN tunnel peer	Index	Ipv4Address	IPv4 address
PublicAddress	Public address of the ADVPN tunnel peer	N/A	String	IPv4 address. IPv6 address.
AdvpnPort	UDP port number for the ADVPN tunnel	N/A	Unsigned integer Value range: 1025 to 65535	Only supported when the link layer protocol is UDP or IPsec-UDP.
SPI	SP index for the inbound and outbound SAs	Data structure	Members include: • AhInbound • AhOutbound • EspInbound • EspOutbound	Only supported when link layer protocol is **IPsec-UDP** or **IPsec-GRE**.
AhInbound	Inbound AH SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
AhOutbound	Outbound AH SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
EspInbound	Inbound ESP SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
EspOutbound	Outbound ESP	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SP index		Value range: 0 to $2^{32}-1$.	
BehindNAT	Whether the NAT peer node is behind NAT	N/A	Boolean: • true • False	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: • 0—Unknown • 1—Hub-Hub • 2—Hub-Spoke • 3—Spoke-Hub • 4—Spoke-Spoke	N/A
TunnelState	ADVPN tunnel state	N/A	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	N/A
HoldingTime	Duration that the tunnel has been in the current state	N/A	Unsigned integer	Unit: seconds
Input	Statistics for incoming packets	Data structure	Members include: • TotalPackets • DataPackets • ControlPackets • Multicasts • Errors	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned Integer64	N/A
DataPackets	The number of incoming data packets	N/A	Unsigned Integer64	N/A
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	N/A
Errors	The number of	N/A	Unsigned integer 64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	incoming erroneous packets			
Output	Statistics for outgoing packets	Data structure	Members include: • TotalPackets • DataPackets • ControlPackets • Multicasts • Errors	N/A
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer	N/A
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	N/A
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	N/A
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	N/A
IPsecTunnelID	IPsec tunnel index	N/A	Unsigned integer 32	N/A
SAIndex	IPsec SA index information	Data structure	Members include: • AhInbound • AhOutbound • EspInbound • EspOutbound	N/A
AhInbound	Inbound IPsec AH SA index	N/A	Unsigned integer 32	N/A
AhOutbound	Outbound IPsec AH SA index	N/A	Unsigned integer 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EspInbound	Inbound IPsec ESP SA index	N/A	Unsigned integer 32	N/A
EspOutbound	Outbound IPsec ESP SA index	N/A	Unsigned integer 32	N/A

IPv6TunnelAdvpnSession

This table is used to display IPv6 ADVPN tunnel session information.

XML structure

```
<ADVPN>
  <IPv6TunnelAdvpnSession>
    <IPv6AdvpnSession>
      <TunnelID></TunnelID>
      <PrivateAddress></PrivateAddress>
      <PublicAddress></PublicAddress>
      <AdvpnPort></AdvpnPort>
      <SPI>
        <AhInbound></AhInbound>
        <AhOutbound></AhOutbound>
        <EspInbound></EspInbound>
        <EspOutbound></EspOutbound>
      </SPI>
      <BehindNAT></BehindNAT>
      <SessionType></SessionType>
      <TunnelState></TunnelState>
      <HoldingTime></HoldingTime>
      <Input>
        <TotalPackets></TotalPackets>
        <DataPackets></DataPackets>
        <ControlPackets></ControlPackets>
        <Multicasts></Multicasts>
        <Errors></Errors>
      </Input>
      <Output>
        <TotalPackets></TotalPackets>
        <DataPackets></DataPackets>
        <ControlPackets></ControlPackets>
        <Multicasts></Multicasts>
        <Errors></Errors>
      </Output>
      <IPsecTunnelID></IPsecTunnelID>
        <SAIndex>
```

```
      <AhInbound></AhInbound>
      <AhOutbound></AhOutbound>
      <EspInbound></EspInbound>
      <EspOutbound></EspOutbound>
    </SAIndex>
  </IPv6AdvpnSession>
 </IPv6TunnelAdvpnSession>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6TunnelAdvpnSession
Table type	Multi-instance table
Row name	IPv6AdvpnSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddress	Private address of the ADVPN tunnel peer	Index	Ipv6Address	IPv6 address
PublicAddress	Public address of the ADVPN tunnel peer	N/A	String	IPv4 address. IPv6 address.
AdvpnPort	UDP port number for the ADVPN tunnel	N/A	Unsigned integer Value range: 1025 to 65535	Only supported when the link layer protocol is UDP or IPsec-UDP.
SPI	SP index for the inbound and outbound SAs	Data structure	Members include: • AhInbound • AhOutbound • EspInbound • EspOutbound	Only supported when the link layer protocol is **IPsec-UDP** or **IPsec-GRE**.
AhInbound	Inbound AH SP	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	index		Value range: 0 to $2^{32}-1$.	
AhOutbound	Outbound AH SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
EspInbound	Inbound ESP SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
EspOutbound	Outbound ESP SP index	N/A	Unsigned integer Value range: 0 to $2^{32}-1$.	N/A
BehindNAT	Whether the NAT peer node is behind NAT	N/A	Boolean: • true • False	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: • 0—Unknown • 1—Hub-Hub • 2—Hub-Spoke • 3—Spoke-Hub • 4—Spoke-Spoke	N/A
TunnelState	ADVPN tunnel state	N/A	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	N/A
HoldingTime	Duration that the tunnel has been in the current state	N/A	Unsigned integer	Unit: seconds
Input	Statistics for incoming packets	Data structure	Members include: • TotalPackets • DataPackets • ControlPackets • Multicasts • Errors	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned integer 64	N/A
DataPackets	The number of incoming data packets	N/A	Unsigned integer 64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	N/A
Errors	The number of incoming erroneous packets	N/A	Unsigned integer 64	N/A
Output	Statistics for outgoing packets	Data structure	Members include: • TotalPackets • DataPackets • ControlPackets • Multicasts • Errors	N/A
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer 64	N/A
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	N/A
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	N/A
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	N/A
IPsecTunnelID	IPsec tunnel index	N/A	Unsigned integer 32	N/A
SAIndex	IPsec SA index information	Data structure	Members include: • AhInbound	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• AhOutbound • EspInbound • EspOutbound	
AhInbound	Inbound IPsec AH SA index	N/A	Unsigned integer 32	N/A
AhOutbound	Outbound IPsec AH SA index	N/A	Unsigned integer 32	N/A
EspInbound	Inbound IPsec ESP SA index	N/A	Unsigned integer 32	N/A
EspOutbound	Outbound IPsec ESP SA index	N/A	Unsigned integer 32	N/A

IPv4TunnelRunInfo

This table displays the IPv4 interface information.

XML structure

```
<ADVPN>
  <IPv4TunnelRunInfo>
    <TunnelRunInfo>
      <TunnelID></TunnelID>
      <ClientName></ClientName>
      <DomainName></DomainName>
      <LinkProtocol></LinkProtocol>
      <SessionNum></SessionNum>
    </TunnelRunInfo>
  </IPv4TunnelRunInfo>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4TunnelRunInfo
Table type	Multi-instance table

Row name	TunnelRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
ClientName	Name of the VAM client bound to the tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	Domain name of the VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
LinkProtocol	Link layer protocol for the ADVPN tunnel	N/A	Enumeration: • 0—Unknown • 1—GRE • 2—UDP • 3—IPsec-GRE • 4—IPsec-UDP	N/A
SessionNum	Number of ADVPN tunnels established on the tunnel interface	N/A	Unsigned integer	N/A

IPv6TunnelRunInfo

This table displays the IPv6 interface information.

XML structure

```
<ADVPN>
  <IPv6TunnelRunInfo>
    <TunnelRunInfo>
      <TunnelID></TunnelID>
      <ClientName></ClientName>
      <DomainName></DomainName>
      <LinkProtocol></LinkProtocol>
```

```
      <SessionNum></SessionNum>
    </TunnelRunInfo>
  </IPv6TunnelRunInfo>
</ADVPN>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6TunnelRunInfo
Table type	Multi-instance table
Row name	TunnelRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
ClientName	Name of the VAM client bound to the tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	Domain name of the VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
LinkProtocol	Link layer protocol for the ADVPN tunnel	N/A	Enumeration: • 0—Unknown • 1—GRE • 2—UDP • 3—IPsec-GRE • 4—IPsec-UDP	N/A
SessionNum	Number of ADVPN tunnels established on the tunnel interface	N/A	Unsigned integer	N/A

Contents

SessionDeleted event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
SessionStateChanged event ····· 4
XML structure for event subscription ····· 4
XML structure for event report ····· 5

SessionDeleted event

This event is used to report ADVPN tunnel information when the ADVPN tunnel is deleted.

XML structure for event subscription

```
<SessionDeletedEvent>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SessionDeletedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ADVPN</stream>
    <filter type="subtree">
      <SessionDeletedEvent xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
        <Tunnel>
          <TunnelID>1</TunnelID>
        </Tunnel>
      </SessionDeletedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ADVPN
Event name	SessionDeletedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/advpn:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer	No

XML structure for event report

```
<SessionDeletedEvent>
  <Tunnel>
    <TunnelID></TunnelID>
    <PrivateAddress></PrivateAddress>
    <PublicAddress></PublicAddress>
    <PeerPrivateAddress></PeerPrivateAddress>
    <PeerPublicAddress></PeerPublicAddress>
    <Type></Type>
    <LastState></LastState>
    <LastStateDuration></LastStateDuration>
    <DomainName></DomainName>
    <GroupName></GroupName>
  </Tunnel>
</SessionDeletedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SessionDeletedEvent xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
    <Tunnel>
      <TunnelID>1</TunnelID>
      <PrivateAddress>112.168.60.56</PrivateAddress>
      <PublicAddress>192.168.60.137</PublicAddress>
      <PeerPrivateAddress>112.168.60.18</PeerPrivateAddress>
      <PeerPublicAddress>192.168.60.11</PeerPublicAddress>
      <Type>2</Type>
      <LastState>2</LastState>
      <LastStateDuration>0H8M8S</LastStateDuration>
      <DomainName>abc</DomainName>
      <GroupName>aaa</GroupName>
    </Tunnel>
  </SessionDeletedEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelID	Tunnel ID	Unsigned integer	No
PrivateAddress	Private address	String, dotted decimal notation.	No

Column name	Column description	Data type and restrictions	Support for extended queries
PublicAddress	Public address	String, dotted decimal notation.	No
PeerPrivateAddress	Peer's private address	String, dotted decimal notation.	No
PeerPublicAddress	Peer's public address	String, dotted decimal notation.	No
Type	ADVPN tunnel type	Enumeration: • 0—Unknown • 1—Hub-Hub • 2—Hub-Spoke • 3—Spoke-Hub • 4—Spoke-Spoke	No
LastState	ADVPN tunnel's last state before the tunnel is deleted	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	No
LastStateDuration	ADVPN tunnel's holding time before the tunnel is deleted.	String, in the format of *xx*H*xx*M*xx*S. H, M, and S represent hours, minutes, and seconds.	No
DomainName	Domain name of the VAM client	String	No
GroupName	Group name of the ADVPN tunnel	String	No

SessionStateChanged event

This event is used to report ADVPN tunnel information when the ADVPN tunnel's state is changed.

XML structure for event subscription

```
<SessionStateChangedEvent>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SessionStateChangedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ADVPN</stream>
    <filter type="subtree">
      <SessionStateChangedEvent
xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
        <Tunnel>
          <TunnelID>1</TunnelID>
        </Tunnel>
      </SessionStateChangedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ADVPN
Event name	SessionStateChangedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/advpn:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelID	Tunnel ID	Unsigned integer	No

XML structure for event report

```
<SessionStateChangedEvent>
  <Tunnel>
    <TunnelID></TunnelID>
    <CurrentState></CurrentState>
    <NextState></NextState>
    <PrivateAddress></PrivateAddress>
    <PublicAddress></PublicAddress>
    <PeerPrivateAddress></PeerPrivateAddress>
    <PeerPublicAddress></PeerPublicAddress>
    <Type></Type>
    <LastState></LastState>
    <LastStateDuration></LastStateDuration>
    <DomainName></DomainName>
    <GroupName></GroupName>
  </Tunnel>
</SessionStateChangedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SessionStateChangedEvent xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
    <Tunnel>
      <TunnelID>1</TunnelID>
      <CurrentState>0</CurrentState>
      <NextState>2</NextState>
      <PrivateAddress>112.168.60.56</PrivateAddress>
      <PublicAddress>192.168.60.137</PublicAddress>
      <PeerPrivateAddress>112.168.60.18</PeerPrivateAddress>
      <PeerPublicAddress>192.168.60.11</PeerPublicAddress>
      <Type>2</Type>
      <LastState>0</LastState>
      <LastStateDuration>0H0M5S</LastStateDuration>
      <DomainName>abc</DomainName>
      <GroupName>aaa</GroupName>
    </Tunnel>
  </SessionStateChangedEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelID	Tunnel ID	Unsigned integer	No

Column name	Column description	Data type and restrictions	Support for extended queries
CurrentState	ADVPN tunnel's current state	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	No
NextState	ADVPN tunnel's next state	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	No
PrivateAddress	Private address	String, dotted decimal notation.	No
PublicAddress	Public address	String, dotted decimal notation.	No
PeerPrivateAddress	Peer's private address	String, dotted decimal notation.	No
PeerPublicAddress	Peer's public address	String, dotted decimal notation.	No
Type	ADVPN tunnel type	Enumeration: • 0—Unknown • 1—Hub-Hub • 2—Hub-Spoke • 3—Spoke-Hub • 4—Spoke-Spoke	No
LastState	ADVPN tunnel's last state before the tunnel's state is changed.	Enumeration: • 0—Establishing • 1—Dumb • 2—Success	No
LastStateDuration	ADVPN tunnel's holding time before the tunnel's state is changed	String, in the format of *xx*H*xx*M*xx*S. H, M, and S represent hours, minutes, and seconds.	No
DomainName	Domain name of the VAM client	String	No
GroupName	Group name of the ADVPN tunnel	String	No

Contents

AFT 1
AFT/ExportPortBlockMap 1
XML structure 1
Table description 1
Columns 1

AFT

AFT/ExportPortBlockMap

This table contains information about exporting AFT static port-block mappings.

XML structure

```
<AFT>
  <ExportPortBlockMap>
    <FileName></FileName>
  </ExportPortBlockMap>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	ExportPortBlockMap
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	**Column type**	Data type and restrictions	**Remarks**
FileName	Name of the export file	N/A	String: Length: 1 to 255 characters.	N/A

Contents

AFT 1

AFT/AftEnable 1
XML structure 1
Table description 1
Columns 1
AFT/AftLogEnable 2
XML structure 2
Table description 2
Columns 2
AFT/AftFlowBegin 2
XML structure 3
Table description 3
Columns 3
AFT/AftFlowEnd 3
XML structure 3
Table description 4
Columns 4
AFT/AftPrefixNat64 4
XML structure 4
Table description 4
Columns 5
AFT/AftAddressGroup 5
XML structure 5
Table description 5
Columns 6
AFT/AftAddressGroupMember 6
XML structure 6
Table description 7
Columns 7
AFT/AftV6toV4SrcDynamicAcl 7
XML structure 7
Table description 8
Columns 8
AFT/V4V6 9
XML structure 9
Table description 9
Columns 10
AFT /ALG 10
XML structure 10
Table description 11
Columns 11
AFT/PortBlockGroupIpv6Members 11
XML structure 12
Table description 12
Columns 12
AFT/PortBlockGroupIpv4Members 13
XML structure 13
Table description 13
Columns 13
AFT/PortBlockGroups 14
XML structure 14
Table description 15
Columns 15
AFT/AftV6toV4PortBlock 16
XML structure 16
Table description 16
Columns 16

AFT/AftPortBlockSynEnable ····· 16
XML structure ····· 16
Table description ····· 17
Columns ····· 17
AFT/AftLogPortBlock ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 18

AFT

AFT/AftEnable

This table contains informations about AFT enabling switch on the interface.

XML structure

```
<AFT>
  <AftEnable>
    <Interface>
      <IfIndex></IfIndex>
      <EnableSwitch></EnableSwitch>
    </Interface>
  </AftEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftEnable
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can see the XSD document of your product. For more information about IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
EnableSwitch	Whether enable AFT on the	N/A	Boolean:	N/A

	inerface		• true—YES • false—NO(default).	

AFT/AftLogEnable

This table contains information about AFT logging switch

XML structure

```
<AFT>
  <AftLogEnable>
    <EnableSwitch></EnableSwitch>
  </AftLogEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT logging	N/A	Boolean: • true—YES • false—NO(default).

AFT/AftFlowBegin

This table contains information about AFT flow begin enabling switch

XML structure

```
<AFT>
  <AftFlowBegin>
    <EnableSwitch></EnableSwitch>
  </AftFlowBegin>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowBegin
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-begin logging	N/A	Boolean: • true—YES • false—NO(default).

AFT/AftFlowEnd

This table contains information about AFT flow end enabling switch

XML structure

```
<AFT>
  <AftFlowEnd>
    <EnableSwitch></EnableSwitch>
  </AftFlowEnd>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowEnd
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-end logging	N/A	Boolean: • true—YES • false—NO(default).

AFT/AftPrefixNat64

This table contains information about AFT NAT64 prefix

XML structure

```
<AFT>
  <AftPrefixNat64>
    <PrefixNat64>
      <Ipv6Prefix></Ipv6Prefix>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PrefixNat64>
  </AftPrefixNat64>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPrefixNat64
Table type	Multi-instance table
Row name	PrefixNat64

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	IPv6 NAT64 prefix	Index	IPv6: Hexadecimal string, colon-separated.	Example: 1000::
Ipv6PrefixLength	IPv6 NAT64 prefix length	Index	Unsigned integer. Value range:32,40,48,56,64,96.	N/A

AFT/AftAddressGroup

This table contains information about AFT address groups.

XML structure

```
<AFT>
  <AftAddressGroup>
    <GroupNumbers>
      <GroupNumber></GroupNumber>
      <VRID></VRID>
    </GroupNumbers>
  </AftAddressGroup>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroup
Table type	Muti-instance table
Row name	GroupNumbers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks	
GroupNumber	AFT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A	
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	• Master/backup mode: No VRRP keyword is required. • Load sharing method: Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and AFT address pool address, so that traffic is transmitted on the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the flow of traffic and enable traffic to be transmitted on the active device in the specified VRRP backup group.	

AFT/AftAddressGroupMember

This table contains information about AFT address group members.

XML structure

```
<AFT>
  <AftAddressGroupMember>
    <GroupMembers>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMembers>
  </AftAddressGroupMember>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroupMember
Table type	Multi-instance table
Row name	GroupMembers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	N/A

AFT/AftV6toV4SrcDynamicAcl

This table contains information about AFT IPv6 to IPv4 source dynamic acl rules.

XML structure

```
<AFT>
  <AftV6toV4SrcDynamicAcl>
    <RuleNumbers>
```

```
      <Ipv6Acl></Ipv6Acl>
      <Type></Type>
      <AddressGroup></AddressGroup>
      <IfIndex></IfIndex>
      <AddrGrpType></AddrGrpType>
      <PortBlockSize></PortBlockSize>
      <Ipv4VpnName></Ipv4VpnName>
      <PortRangeStart></PortRangeStart>
      <PortRangeEnd></PortRangeEnd>
      <ExtendedBlockNum></ExtendedBlockNum>
    </RuleNumbers>
  </AftV6toV4SrcDynamicAcl>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4SrcDynamicAcl
Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Acl	Ipv6Acl name or number	Index	String, case-insensitive. Must start with a-z or A-Z, the word “all” can not be used as name. or the acl number Value range: 2000 to 3999. Length: 1 to 63 characters..	N/A
Type	Address group or easy ip	N/A	Enumeration: • 0—address group. • 1—easy ip.	N/A
AddressGroup	Address group number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about IfIndex, you can

				reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
AddrGrpType	Address group type:pat, nopat or port block	N/A	Enumeration: • 0—NPt. • 1—PT • 2—port block	N/A
PortBlockSize	Whether to use port block	N/A	Unsigned integer. Value range: 100 to 64512.	Can be empty
Ipv4VpnName	Whether to use vpn	N/A	String. Length:1 to 31 characters	Can be empty
PortRangeStart	Start port of the port block	N/A	Unsigned integer. Value range: 1024 to 65535.	Can be empty
PortRangeEnd	End port of the port block	N/A	Unsigned integer. Value range: 1024 to 65535	Can be empty
ExtendedBlockNum	The number of the extend port block	N/A	Unsigned integer. Value range: 1 to 5.	Can be empty

AFT/V4V6

This table contains information about IPv4 address translate to IPv6 address or IPv6 address translate to IPv4 address.

XML structure

```
<AFT>
  <V4V6>
    <Static>
      <TransMode></TransMode>
      <Ipv4Address></Ipv4Address>
      <Vpn4Name></Vpn4Name>
      <Ipv6Address></Ipv6Address>
      <Vpn6Name></Vpn6Name>
    </Static>
  </V4V6>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	V4V6

Item	Description
Table type	Multi-instance table
Row name	Static
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TransMode	Static Mode	Index	Unsigned integer • **0**—V4V6. • **1**—V6V4**.**	This column can only be the index of V4V6 or V6V4.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Vpn4Name	VRF to which the IPv4 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv4 address members do not belong to any VPN.
Ipv6Address	IPv6 address	Index	String, dotted decimal notation.	Example: 1235::1.
Vpn6Name	VRF to which the IPv6 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv6 address members do not belong to any VPN.

AFT /ALG

This table contains the protocols for which NAT64 with ALG is enabled.

XML structure

```
<AFT>
  <ALG>
    <ALGInfo>
      <AppID></AppID>
      <EnableALG></EnableALG>
    </ALGInfo>
  </ALG>
</AFT>
```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT64 with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 6. • 0—DNS • 1—FTP. • 2—ICMP-ERROR • 3—HTTP • 4—SIP • 5—RTSP • 6—H323	Use ALG with AFT to translate the payload information to ensure the establishment of data connections. AFT translates IP address and port information in packet headers, and ALG processes the fields in application layer payloads. The packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.
EnableALG	Whether enable NAT64 with ALG.	N/A	Boolean: • true—YES • false—NO.	N/A

AFT/PortBlockGroupIpv6Members

This table contains information about IPv6 address members in AFT port block groups.

XML structure

```
<AFT>
  <PortBlockGroupIpv6Members>
    <Ipv6Member>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6Member>
  </PortBlockGroupIpv6Members>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroupIpv6Members
Table type	Multi-instance table
Row name	Ipv6Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple IPv6 address members in a port block group, but they cannot overlap. IPv6 address members in different port block groups can overlap.
VRF	VRF to which the IPv6 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv6 address members do not belong to any VPN.
StartIpv6Address	Start IPv6 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1235::1.
EndIpv6Address	End IPv6 address of the public IP	Index	String, dotted decimal notation.	Example: 1235::1. The end IP address cannot be smaller than

Column name	Column description	Column type	Data type and restrictions	Remarks
	address range			the start IP address. If the start and end IP addresses are the same, only one public IP address is specified.
Ipv6PrefixLength	IPv6 NAT64 prefix length	Index	Unsigned integer. Value range: 1 to 128.	N/A

AFT/PortBlockGroupIpv4Members

This table contains information about public IPv4 address members in AFT port block groups.

XML structure

```
<AFT>
  <PortBlockGroupIpv4Members>
    <Ipv4Member>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </Ipv4Member>
  </PortBlockGroupIpv4Members>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroupIpv4Members
Table type	Multi-instance table
Row name	Ipv4Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a

Column name	Column description	Column type	Data type and restrictions	Remarks
				port block group, but they cannot overlap. Public IP address members in different port block groups can overlap, but. the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in its port range by the port block size.
VRF	VRF to which the IPv4 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv4 address members do not belong to any VPN.
StartIpv4Address	Start IPv4 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, only one public IP address is specified.

AFT/PortBlockGroups

This table contains information about AFT port block groups.

XML structure

```
<AFT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
```

```
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
PortBlockSize	The number of ports included in a port block	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	When you set a port block size, give consideration to the number of private IP addresses, the number of public IP addresses, and the port range. The port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	To define a default port range, set *GlobalStartPort* and *GlobalEndPort* to their default values. The *GlobalStartPort* value cannot be greater than the *GlobalEndPort* value. The port range must include all ports that the public IP addresses used for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A

AFT/AftV6toV4PortBlock

This table contains information about AFT port block group-based IPv6-to-IPv4 source rules.

XML structure

```
<AFT>
  <AftV6toV4PortBlock>
    <RuleNumbers>
      <AddressGroup></AddressGroup>
    </RuleNumbers>
  </AftV6toV4PortBlock>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4PortBlock
Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
AddressGroup	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.

AFT/AftPortBlockSynEnable

This table contains information about AFT port-block

XML structure

```
<AFT>
  <AftPortBlockSynEnable>
    <EnableSwitch></EnableSwitch>
  </AftPortBlockSynEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPortBlockSynEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableSwitch	Whether enable AFT port-block synchrinize	N/A	Boolean: • true—YES • false—NO(default).	N/A

AFT/AftLogPortBlock

This table contains information about AFT port-block logging switch

XML structure

```
<AFT>
  <AftLogPortBlock>
    <AssignEnableSwitch></AssignEnableSwitch>
    <WithdrawEnableSwitch ></WithdrawEnableSwitch>
    <AlarmEnableSwitch></AlarmEnableSwitch>
  </AftLogPortBlock>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogPortBlock
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssignEnableSwitch	Whether enable AFT port-block-assign logging	N/A	Boolean: • true—YES • false—NO(default).	N/A
WithdrawEnableSwitch	Whether enable AFT port-block-withdraw logging	N/A	Boolean: • true—YES • false—NO(default).	N/A
AlarmEnableSwitch	Whether enable AFT port-block-alarm logging	N/A	Boolean: • true—YES • false—NO(default).	N/A

Contents

AFT 1

AFT/AftEnable 1
XML structure 1
Table description 1
Columns 1
AFT/AftLogEnable 2
XML structure 2
Table description 2
Columns 2
AFT/AftFlowBegin 2
XML structure 2
Table description 3
Columns 3
AFT/AftFlowEnd 3
XML structure 3
Table description 3
Columns 4
AFT/AftPrefixNat64 4
XML structure 4
Table description 4
Columns 4
AFT/AftAddressGroup 5
XML structure 5
Table description 5
Columns 5
AFT/AftAddressGroupMember 6
XML structure 6
Table description 6
Columns 6
AFT/AftV6toV4SrcDynamicAcl 7
XML structure 7
Table description 7
Columns 8
AFT/V4V6 9
XML structure 9
Table description 9
Columns 9
AFT /ALG 10
XML structure 10
Table description 10
Columns 10
AFT/PortBlockGroupIpv6Members 11
XML structure 11
Table description 12
Columns 12
AFT/PortBlockGroupIpv4Members 12
XML structure 12
Table description 13
Columns 13
AFT/PortBlockGroups 14
XML structure 14
Table description 14
Columns 15
AFT/AftV6toV4PortBlock 15
XML structure 15
Table description 16
Columns 16

AFT/AftPortBlockSynEnable ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
AFT/AftLogPortBlock ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
AFT/AftVrrpList ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18

AFT

AFT/AftEnable

This table contains informations about AFT enable switch on the interface.

XML structure

```
<AFT>
  <AftEnable>
    <Interface>
      <IfIndex></IfIndex>
      <EnableSwitch></EnableSwitch>
    </Interface>
  </AftEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftEnable
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
EnableSwitch	Whether enable AFT on the inerface	N/A	Boolean: • true—YES • false—NO	N/A

AFT/AftLogEnable

This table contains informations about AFT log enable switch

XML structure

```
<AFT>
  <AftLogEnable>
    <EnableSwitch></EnableSwitch>
  </AftLogEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether eanble AFT log	N/A	Boolean: • true—YES • false—NO

AFT/AftFlowBegin

This table contains informations about AFT flow begin enable switch

XML structure

```
<AFT>
  <AftFlowBegin>
    <EnableSwitch></EnableSwitch>
  </AftFlowBegin>
```

```
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowBegin
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether eanble AFT flow-begin log	N/A	Boolean: • true—YES • false—NO

AFT/AftFlowEnd

This table contains informations about AFT flow end enable switch

XML structure

```
<AFT>
  <AftFlowEnd>
    <EnableSwitch></EnableSwitch>
  </AftFlowEnd>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowEnd
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether eanble AFT flow-end log	N/A	Boolean: • true—YES • false—NO

AFT/AftPrefixNat64

This table contains informations about AFT nat64 prefix

XML structure

```
<AFT>
  <AftPrefixNat64>
    <PrefixNat64>
      <Ipv6Prefix></Ipv6Prefix>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PrefixNat64>
  </AftPrefixNat64>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPrefixNat64
Table type	Multi-instance table
Row name	PrefixNat64
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	Ipv6 nat64 prefix	index	IPv6: Hexadecimal string, colon-separated.	Example: 1000::
Ipv6PrefixLength	Ipv6 nat64 prefix length	index	Unsigned integer. Value range:32、40、48、56、64、96.	N/A

AFT/AftAddressGroup

This table contains informations about AFT address groups.

XML structure

```
<AFT>
  <AftAddressGroup>
    <GroupNumbers>
      <GroupNumber></GroupNumber>
      <VRID></VRID>
    </GroupNumbers>
  </AftAddressGroup>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroup
Table type	Muti-instance table
Row name	GroupNumbers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks	
GroupNumber	AFT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A	
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	• Master/backup mode: No VRRP keyword is required. • Load sharing method: Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and AFT address pool address, so that traffic is transmitted on	

				the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the flow of traffic and enable traffic to be transmitted on the active device in the specified VRRP backup group.

AFT/AftAddressGroupMember

This table contains informations about AFT address group members.

XML structure

```
<AFT>
  <AftAddressGroupMember>
    <GroupMembers>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMembers>
  </AftAddressGroupMember>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroupMember
Table type	Multi-instance table
Row name	GroupMembers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the	Index	IPv4: String, dotted decimal notation.	The *StartIpv4Address* cannot be greater than

	address group member			the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	N/A

AFT/AftV6toV4SrcDynamicAcl

This table contains the aft ipv6 to ipv4 source dynamic acl rules.

XML structure

```
<AFT>
  <AftV6toV4SrcDynamicAcl>
    <RuleNumbers>
      <Ipv6Acl></Ipv6Acl>
      <Type></Type>
      <AddressGroup></AddressGroup>
      <IfIndex></IfIndex>
      <AddrGrpType></AddrGrpType>
      <PortBlockSize></PortBlockSize>
      <Ipv4VpnName></Ipv4VpnName>
      <PortRangeStart></PortRangeStart>
      <PortRangeEnd></PortRangeEnd>
      <ExtendedBlockNum></ExtendedBlockNum>
    </RuleNumbers>
  </AftV6toV4SrcDynamicAcl>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4SrcDynamicAcl

Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Acl	Ipv6Acl name or number	Index	String, case-insensitive. Must start with a-z or A-Z, the word “all” can not be used as name. or the acl number Value range: 2000 to 3999. Length: 1 to 63 characters..	N/A
Type	Address group or easy ip	N/A	Enumeration: • 0—address group. • 1—easy ip.	N/A
AddressGroup	Address group number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
AddrGrpType	Address group type:pat, nopat or port block	N/A	Enumeration: • 0—NPt. • 1—PT • 2—port block	N/A
PortBlockSize	Whether to use port block	N/A	Unsigned integer. Value range: 100 to 64512.	Can be empty
Ipv4VpnName	Whether to use vpn	N/A	String. Length:1 to 31 characters	Can be empty
PortRangeStart	Start port of the port block	N/A	Unsigned integer. Value range: 1024 to 65535.	Can be empty
PortRangeEnd	End port of the port block	N/A	Unsigned integer. Value range: 1024 to 65535	Can be empty
ExtendedBlockNum	The number of the extend port block	N/A	Unsigned integer. Value range: 1 to 5.	Can be empty

AFT/V4V6

This table contains information about IPv4 address translate to IPv6 address or IPv6 address translate to IPv4 address.

XML structure

```
<AFT>
  <V4V6>
    <Static>
      <TransMode></TransMode>
      <Ipv4Address></Ipv4Address>
      <Vpn4Name></Vpn4Name>
      <Ipv6Address></Ipv6Address>
      <Vpn6Name></Vpn6Name>
    </Static>
  </V4V6>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	V4V6
Table type	Multi-instance table
Row name	Static
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TransMode	Static Mode	Index	Unsigned integer • **0**—V4V6. • **1**—V6V4**.**	This column can only be the index of V4V6 or V6V4.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Vpn4Name	VRF to which the IPv4 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv4 address members do not belong to any VPN.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address	Index	String, dotted decimal notation.	Example: 1235::1.
Vpn6Name	VRF to which the IPv6 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv6 address members do not belong to any VPN.

AFT /ALG

This table contains the protocols for which NAT64 with ALG is enabled.

XML structure

```
<AFT>
  <ALG>
    <ALGInfo>
      <AppID></AppID>
      <AppName></AppName>
      <EnableALG></EnableALG>
    </ALGInfo>
  </ALG>
</AFT>
```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT64 with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 6. • 0—DNS • 1—FTP. • 2—ICMP-ERROR	Use ALG with AFT to translate the payload information to ensure the establishment of data connections. AFT translates IP address

			• 3—HTTP • 4—SIP • 5—RTSP • 6—H323	and port information in packet headers, and ALG processes the fields in application layer payloads. The packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.
AppName	Protocol name for which NAT64 with ALG is enabled.	N/A	String, Case-insensitive. Length: 1 to 63 characters.	N/A
EnableALG	Whether enable NAT64 with ALG.	N/A	Boolean: • true—YES • false—NO.	N/A

AFT/PortBlockGroupIpv6Members

This table contains information about IPv6 address members in AFT port block groups.

XML structure

```
<AFT>
  <PortBlockGroupIpv6Members>
    <Ipv6Member>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6Member>
  </PortBlockGroupIpv6Members>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroupIpv6Members
Table type	Multi-instance table
Row name	Ipv6Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple IPv6 address members in a port block group, but they cannot overlap. IPv6 address members in different port block groups can overlap.
VRF	VRF to which the IPv6 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv6 address members do not belong to any VPN.
StartIpv6Address	Start IPv6 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1235::1.
EndIpv6Address	End IPv6 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1235::1. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, only one public IP address is specified.
Ipv6PrefixLength	IPv6 NAT64 prefix length	Index	Unsigned integer. Value range: 1 to 128.	N/A

AFT/PortBlockGroupIpv4Members

This table contains information about public IPv4 address members in AFT port block groups.

XML structure

```
<AFT>
```

```
  <PortBlockGroupIpv4Members>
    <Ipv4Member>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </Ipv4Member>
  </PortBlockGroupIpv4Members>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroupIpv4Members
Table type	Multi-instance table
Row name	Ipv4Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a port block group, but they cannot overlap. Public IP address members in different port block groups can overlap, but. the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in its port range by the port block size.
VRF	VRF to which the IPv4 address members belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IPv4 address members do not belong to any VPN.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIpv4Address	Start IPv4 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the public IP address range	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, only one public IP address is specified.

AFT/PortBlockGroups

This table contains information about AFT port block groups.

XML structure

```
<AFT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
PortBlockSize	The number of ports included in a port block	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	When you set a port block size, give consideration to the number of private IP addresses, the number of public IP addresses, and the port range. The port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	To define a default port range, set *GlobalStartPort* and *GlobalEndPort* to their default values. The *GlobalStartPort* value cannot be greater than the *GlobalEndPort* value. The port range must include all ports that the public IP addresses used for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A

AFT/AftV6toV4PortBlock

This table contains information about AFT port block group-based IPv6-to-IPv4 source rules.

XML structure

```
<AFT>
  <AftV6toV4PortBlock>
    <RuleNumbers>
      <AddressGroup></AddressGroup>
    </RuleNumbers>
  </AftV6toV4PortBlock>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4PortBlock
Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
AddressGroup	AFT port block group number	Index	Unsigned integer. Value range: 0 to 65535.

AFT/AftPortBlockSynEnable

This table contains information about AFT port-block

XML structure

```
<AFT>
  <AftPortBlockSynEnable>
    <EnableSwitch></EnableSwitch>
  </AftPortBlockSynEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPortBlockSynEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableSwitch	Whether enable AFT port-block synchrinize	N/A	Boolean: • true—YES • false—NO(default).	N/A

AFT/AftLogPortBlock

This table contains information about AFT port-block logging switch

XML structure

```
<AFT>
  <AftLogPortBlock>
    <AssignEnableSwitch></AssignEnableSwitch>
    <WithdrawEnableSwitch ></WithdrawEnableSwitch>
    <AlarmEnableSwitch></AlarmEnableSwitch>
  </AftLogPortBlock>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogPortBlock
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssignEnableSwitch	Whether enable AFT port-block-assign logging	N/A	Boolean: • true—YES • false—NO(default).	N/A
WithdrawEnableSwitch	Whether enable AFT port-block-withdraw logging	N/A	Boolean: • true—YES • false—NO(default).	N/A
AlarmEnable	Whether	N/A	Boolean:	N/A

Switch	enable AFT port-block-alarm logging		• true—YES • false—NO(default).	

AFT/AftVrrpList

This table contains AFT VRRP information.

XML structure

```
<AFT>
  <AftVrrpList>
    <VrrpInfo>
      <VrrpType></VrrpType>
      <VrrpId></VrrpId>
      <IfIndex></IfIndex>
      <Status></Status>
    </VrrpInfo>
  </AftVrrpList>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftVrrpList
Table type	Muti-instance table
Row name	GroupNumbers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrrpType	Type of the virtual router	N/A	Unsigned integer. Value range: 0 to 1. • 0—IPv4 • 1—IPv6.	N/A
VrrpId	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	• Master/backup mode: No VRRP group is required. • Load sharing method: Under normal circumstances, there is no need to specify a VRRP group. The system automatically binds the VRRP group with the smallest VRID on the same

				network segment as the virtual IP address and AFT address pool address, so that traffic is transmitted on the active device in the VRRP group. When multiple VRRP groups exist, you can specify a VRRP group ID to explicitly direct the traffic to the active device in the specified VRRP group.
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For more information about interface name, see the XSD document of your product. For more information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration document
Status	Status of the virtual router	N/A	Unsigned integer. Value range: 0 to 1. • 0—standby • 1—active.	N/A

Contents

Alarm 1
Alarm/ActiveAlarms 1
XML structure 1
Table description 1
Columns 1
Alarm/HistoryAlarms 2
XML structure 2
Table description 2
Columns 2

Alarm

Alarm/ActiveAlarms

This table contains information about active alarms.

XML structure

```
<Alarm>
  <ActiveAlarms>
    <ActiveAlarm>
      <AlarmSeq></AlarmSeq>
      <AlarmName></AlarmName>
      <Level></Level>
      <Position></Position>
      <AlarmTime></AlarmTime>
      <Info></Info>
    </ActiveAlarm>
  </ActiveAlarms>
</Alarm>
```

Table description

Item	Description
Feature name	Alarm
Table name	ActiveAlarms
Table type	Multi-instance table
Row name	ActiveAlarm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AlarmSeq	Alarm sequence number	Index	Unsigned integer.
AlarmName	Alarm name	N/A	String. Length: 1 to 63 characters.
Level	Alarm severity level	N/A	Enumeration. • critical • major • minor • warning
Position	Location where the alarm occurred	N/A	String.

			Length: 1 to 63 characters.
AlarmTime	Time when the alarm occurred	N/A	Date and time. Format: YYYY-MM-DDTHH:MM:SS.
Info	Alarm information	N/A	String. Length: 1 to 1023 characters.

Alarm/HistoryAlarms

This table contains information about historical alarms that have been cleared.

XML structure

```
<Alarm>
  <HistoryAlarms>
    <HistoryAlarm>
      <RecoverSeq></RecoverSeq>
      <AlarmName></AlarmName>
      <Level></Level>
      <Position></Position>
      <AlarmSeq></AlarmSeq>
      <AlarmTime></AlarmTime>
      <AlarmInfo></AlarmInfo>
      <RecoverTime></RecoverTime>
      <RecoverInfo></RecoverInfo>
    </HistoryAlarm>
  </HistoryAlarms>
</Alarm>
```

Table description

Item	Description
Feature name	Alarm
Table name	HistoryAlarms
Table type	Multi-instance table
Row name	HistoryAlarm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecoverSeq	Alarm clearance sequence number	Index	Unsigned integer.
AlarmName	Alarm name	N/A	String.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 63 characters.
Level	Alarm severity level	N/A	Enumeration. • critical • major • minor • warning
Position	Location where the alarm occurred	N/A	String. Length: 1 to 63 characters.
AlarmSeq	Alarm sequence number	N/A	Unsigned integer.
AlarmTime	Time when the alarm occurred	N/A	Date and time. Format: YYYY-MM-DDTHH:MM:SS.
AlarmInfo	Alarm information.	N/A	String. Length: 1 to 1023 characters.
RecoverTime	Time when the alarm was cleared	N/A	Date and time. Format: YYYY-MM-DDTHH:MM:SS.
RecoverInfo	Information about clearance of the alarm	N/A	String. Length: 1 to 1023 characters.

Contents

ALR 1
ALR/RedirectTunnels 1
XML structure 1
Table description 1
Columns 1
ALR/RedirectTunnels/UserNetworks 2
XML structure 2
Table description 2
Columns 2
ALR/ServiceFeatures 3
XML structure 3
Table description 3
Columns 3
ALR/ServiceFeatures/SourceIps 4
XML structure 4
Table description 4
Columns 4
ALR/GlobalRedirects 5
XML structure 5
Table description 5
Columns 5

ALR

This document is used for internal use of transfer control and separation, and is not open to users.

ALR/RedirectTunnels

This table contains the distribution of redirection matching information.

XML structure

```
<ALR>
  <RedirectTunnels>
    <RedirectTunnel>
      <Upid></Upid>
      <IfName></IfName>
      <UserNetworks>
        <UserNetwork>
          <NetworkIpAddress></NetworkIpAddress>
          <NetworkIpMaskLen></NetworkIpMaskLen>
          <VRF></VRF>
        </UserNetwork>
      </UserNetworks>
    </RedirectTunnel>
  </RedirectTunnels>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	RedirectTunnels
Table type	Multi-instance table
Row name	RedirectTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Upid	UP id	Index	Unsigned integer, Value range: 1024 to ~	The maximum value is subject to product customization

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Redirect interface	N/A	String, case-sensitive. Length: 2 to 47 characters.	N/A
UserNetworks	User networks info	Sublist	N/A	For more information, see the UserNetworks table

ALR/RedirectTunnels/UserNetworks

This table contains RedirectTunnels/UserNetworks information.

XML structure

Please refer to the XML structure of RedirectTunnels.

Table description

Item	Description
Feature name	ALR
Table name	UserNetworks
Table type	Multi-instance table
Row name	UserNetwork
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the NetworkIpAddress does not belong to any VPN.
NetworkIpAddress	User ip network address for UP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.
NetworkIpMaskLen	User ip network address mask len for UP	Index	IPv4: Unsigned integer, Value range: 1 to 32 IPv6: Unsigned integer, Value range: 1 to 128	if NetworkIpAddress is IPv4, this parameter's Value range is 1 to 32 if NetworkIpAddress is IPv6, this parameter's Value range is 1 to 128

Column name	Column description	Column type	Data type and restrictions	Remarks
Upid	UP id	N/A	Unsigned integer, Value range: 1024 to ~	Refence to: RedirectTunnels/Upid

ALR/ServiceFeatures

This table contains service feature information.

XML structure

```
<ALR>
  <ServiceFeatures>
    <ServiceFeature>
      <ServiceType></ServiceType>
      <DestPort></DestPort>
      <SourceIps>
        <SourceIp>
          <VRF></VRF>
          <IpAddress></IpAddress>
        </SourceIp>
      </SourceIps>
    </ServiceFeature>
  </ServiceFeatures>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	ServiceFeatures
Table type	Multi-instance table
Row name	ServiceFeature
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Config Service type	Index	• 0—DHCPV4. • 1—DHCPV6. • 2—PORTAL. • 3—RADIUS-DAE.	N/A
DestPort	Destination port of receiving packet	N/A	Non-negative integer. Value range: 1 to 65535.	Example: 2000.
SourceIps	Source ip info	Sublist	N/A	For more information, see the SourceIps table.

ALR/ServiceFeatures/SourceIps

This table contains source ip address for receiving Service packets.

XML structure

Please refer to the XML structure of ServiceFeatures.

Table description

Item	Description
Feature name	ALR
Table name	ServiceSourceIps
Table type	Multi-instance table
Row name	ServiceSourceIp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Config service type	Index	• 0—DHCPV4. • 1—DHCPV6. • 2—PORTAL. • 3—RADIUS-DAE.	Refence to: ServiceFeatures/Service Type
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IpAddress does not belong to any VPN.

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	Source ip of service packet	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.

ALR/GlobalRedirects

This table contains the distribution of global redirection matching information.

XML structure

```
<ALR>
  <GlobalRedirects>
    <GlobalRedirect>
      <MatchVRF></MatchVRF>
      <MatchDestIpAddress></MatchDestIpAddress>
      <RedirectIfName></RedirectIfName>
      <RedirectVRFId></RedirectVRFId>
    </GlobalRedirect>
  </GlobalRedirects>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	GlobalRedirects
Table type	Multi-instance table
Row name	GlobalRedirect
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchVRF	Match VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IpAddress does not belong to any VPN.

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchDestIpAddress	Match destination IP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.
RedirectIfName	Redirect interface	N/A	String, case-sensitive. Length: 2 to 47 characters.	N/A
RedirectVRFId	Redirect vpn id	N/A	Unsigned integer, Value range: 0 ~ 65535.	public vpn:0 invalid value:65535

Contents

ALR 1
ALR/RedirectTunnels 1
XML structure 1
Table description 1
Columns 1
ALR/RedirectTunnels/UserNetworks 2
XML structure 2
Table description 2
Columns 2
ALR/ServiceFeatures 3
XML structure 3
Table description 3
Columns 3
ALR/ServiceFeatures/SourceIps 4
XML structure 4
Table description 4
Columns 4
ALR/GlobalRedirects 4
XML structure 5
Table description 5
Columns 5

ALR

This document is used for internal use of transfer control and separation, and is not open to users.

ALR/RedirectTunnels

This table contains the distribution of redirection matching information.

XML structure

```
<ALR>
  <RedirectTunnels>
    <RedirectTunnel>
      <Upid></Upid>
      <IfName></IfName>
      <UserNetworks>
        <UserNetwork>
          <NetworkIpAddress></NetworkIpAddress>
          <NetworkIpMaskLen></NetworkIpMaskLen>
          <VRF></VRF>
        </UserNetwork>
      </UserNetworks>
    </RedirectTunnel>
  </RedirectTunnels>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	RedirectTunnels
Table type	Multi-instance table
Row name	RedirectTunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Upid	UP id	Index	Unsigned integer, Value range: 1024 to ~	The maximum value is subject to product customization

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Redirect interface	N/A	String, case-sensitive. Length: 2 to 47 characters.	N/A
UserNetworks	User networks info	Sublist	N/A	For more information, see the UserNetworks table

ALR/RedirectTunnels/UserNetworks

This table contains RedirectTunnels/UserNetworks information.

XML structure

Please refer to the XML structure of RedirectTunnels.

Table description

Item	Description
Feature name	ALR
Table name	UserNetworks
Table type	Multi-instance table
Row name	UserNetwork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the NetworkIpAddress does not belong to any VPN.
NetworkIpAddress	User ip network address for UP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.
NetworkIpMaskLen	User ip network address mask len for UP	Index	IPv4: Unsigned integer, Value range: 1 to 32 IPv6: Unsigned integer, Value range: 1 to 128	if NetworkIpAddress is IPv4, this parameter's Value range is 1 to 32 if NetworkIpAddress is IPv6, this parameter's Value range is 1 to 128

Column name	Column description	Column type	Data type and restrictions	Remarks
Upid	UP id	N/A	Unsigned integer, Value range: 1024 to ~	Refence to: RedirectTunnels/Upid

ALR/ServiceFeatures

This table contains service feature information.

XML structure

```
<ALR>
  <ServiceFeatures>
    <ServiceFeature>
      <ServiceType></ServiceType>
      <DestPort></DestPort>
      <SourceIps>
        <SourceIp>
          <VRF></VRF>
          <IpAddress></IpAddress>
        </SourceIp>
      </SourceIps>
    </ServiceFeature>
  </ServiceFeatures>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	ServiceFeatures
Table type	Multi-instance table
Row name	ServiceFeature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Config service type	Index	• 0—DHCPV4. • 1—DHCPV6. • 2—PORTAL. • 3—RADIUS-DAE.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestPort	Destination port of receiving packet	N/A	Non-negative integer. Value range: 1 to 65535.	Example: 2000.
SourceIps	Source ip info	Sublist	N/A	For more information, see the SourceIps table.

ALR/ServiceFeatures/SourceIps

This table contains source ip address for receiving Service packets.

XML structure

Please refer to the XML structure of ServiceFeatures.

Table description

Item	Description
Feature name	ALR
Table name	ServiceSourceIps
Table type	Multi-instance table
Row name	ServiceSourceIp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Config service type	Index	• 0—DHCPV4. • 1—DHCPV6. • 2—PORTAL. • 3—RADIUS-DAE.	Refence to: ServiceFeatures/Service Type
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IpAddress does not belong to any VPN.
IpAddress	Source ip of service packet	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.

ALR/GlobalRedirects

This table contains the distribution of global redirection matching information.

XML structure

```
<ALR>
  <GlobalRedirects>
    <GlobalRedirect>
      <MatchVRF></MatchVRF>
      <MatchDestIpAddress></MatchDestIpAddress>
      <RedirectIfName></RedirectIfName>
      <RedirectVRFId></RedirectVRFId>
    </GlobalRedirect>
  </GlobalRedirects>
</ALR>
```

Table description

Item	Description
Feature name	ALR
Table name	GlobalRedirects
Table type	Multi-instance table
Row name	GlobalRedirect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchVRF	Match VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the IpAddress does not belong to any VPN.
MatchDestIpAddress	Match destination IP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address:For example, 1.0.0.1. IPv6 address, For example, 2001:12::1:2.
RedirectIfName	Redirect interface	N/A	String, case-sensitive. Length: 2 to 47 characters.	N/A
RedirectVRFId	Redirect vpn id	N/A	Unsigned integer, Value range: 0 ~ 65535.	public vpn:0 invalid value:65535

Contents

AntiVirus 1
AntiVirus/SignatureManualUpgrading 1
XML structure 1
Table description 1
Columns 1
AntiVirus/SignatureAutoUpgradeNow 1
XML structure 2
Table description 2
Columns 2
AntiVirus/SignatureRollback 2
XML structure 2
Table description 2
Columns 3

AntiVirus

AntiVirus/SignatureManualUpgrading

This table contains the information of AntiVirus signatures manual upgrade.

XML structure

```
<AntiVirus>
  <SignatureManualUpgrading>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL the upgrade signature file.	N/A	String: case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 character.	N/A
Location	The Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file after the signature library update is complete.

AntiVirus/SignatureAutoUpgradeNow

This table contains the information of AntiVirus signatures upgrade at once.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgradeNow>
    <UpgradeNow></UpgradeNow>
  </SignatureAutoUpgradeNow>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpgradeNow	Auto upgrade at once.	N/A	This column must be empty.	N/A

AntiVirus/SignatureRollback

This table contains the information of AntiVirus signatures rollback.

XML structure

```
<AntiVirus>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureRollback
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	rollback	N/A	Boolean: • true：rollback last version • false：rollback original version	N/A

Contents

AntiVirus 1

AntiVirus/Policies 1
XML structure 1
Table description 1
Columns 1
AntiVirus/PolicyInProfile 2
XML structure 2
Table description 2
Columns 2
AntiVirus/RuleInPolicy 2
XML structure 3
Table description 3
Columns 3
AntiVirus/SignatureAutoUpgrading 4
XML structure 4
Table description 4
Columns 5
AntiVirus/ActionDefaultParameters 5
XML structure 5
Table description 5
Columns 6
AntiVirus/RuleInPolicySigID 6
XML structure 6
Table description 6
Columns 7
AntiVirus/CloudQueryConfig 7
XML structure 7
Table description 7
Columns 7
AntiVirus/RuleInPolicyMd5 8
XML structure 8
Table description 8
Columns 8
AntiVirus/EnhancedInspectConfig 8
XML structure 8
Table description 9
Columns 9

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <CloudQuery></CloudQuery>
      <WarningParameter></WarningParameter>
      <EnabledWarnFile></EnabledWarnFile>
    </Policy>
  </Policies>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the policy	N/A	String: case-sensitive. Length: 1 to 255 characters.	N/A
CloudQuery	Enabling status of cloud querying	N/A	Enumeration: • 1—Enabled. • 2—Disabled.	N/A
WarningPara	WarningParamet	N/A	String:case-insensitive.	Only support unsigned

meter	er-Name		Length:1 to 63 characters	integer,character and underline.
EnabledWarnFile	Enabling status of the warning profile	N/A	Boolean: • true • false	N/A

AntiVirus/PolicyInProfile

This table contains AntiVirus policy applied to the profile.

XML structure

```
<AntiVirus>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfil>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String: case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AntiVirus/RuleInPolicy

This table contains the information of rules in an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <Protocol>
        <ProtocolName></ProtocolName>
        <Direction></Direction>
        <Action></Action>
        <FileSize></FileSize>
      </Protocol>
      <Application>
        <AppName></AppName>
        <Action></Action>
      </Application>
    </Policy>
  </RuleInPolicy>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Protocol	Protocol configuration	DataStructure	Members include: • ProtocolName • Direction • Action	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive • HTTP • FTP • SMTP • POP3	N/A

			• IMAP • NFS • SMB	
Direction	Direction of protocol traffic	N/A	Enumeration: • **0**—Upload • **1**—Download • **2**—Both	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: • **1**—Alert • **2**—Block • **3**—Redirect	N/A
FileSize	File Size	N/A	Unsigned integer. Value range: 1 to 24	The unit is MB，and default value is 1MB.
Application	Application configuration	Data Structure	Members include: • AppName • Action	N/A
AppName	Application name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Actions for the specified application	N/A	Enumeration: • **1**—Alert • **2**—Block • **3**—Permit	N/A

AntiVirus/SignatureAutoUpgrading

This table contains the information of AntiVirus signatures auto upgrading.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 03:01:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: • **0**—Week • **1**—Periodic	Default is 1
Day	Days	N/A	Unsigned integer. Value range: 0 to 15.	When Type is **0**, the value range is 0 to 6. Otherwise, the value range is 1 to 15. The default is 3.

AntiVirus/ActionDefaultParameters

This table contains Antivirus action default parameter information.

XML structure

```
<AntiVirus>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	action	Index	Enumeration: • **1**—Block • **2**—Capture • **3**—Logging • **4**—Redirect • **5**—Mail	N/A
ParameterName	Parameter-Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is from DIM table. E.g. If Action is block, the ParameterName's value is from DIM/BlockParameters.

AntiVirus/RuleInPolicySigID

This table contains the Exception sigs information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicySigID>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionSigID></ExceptionSigID>
    </Policy>
  </RuleInPolicySigID>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicySigID
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
ExceptionSigID	ID of the virus	Index	Unsigned integer. Value range: 1 to 536870910.	N/A

AntiVirus/CloudQueryConfig

This table contains cloud query configuration.

XML structure

```
<AntiVirus>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	CloudQueryConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 100000 to 200000.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

AntiVirus/RuleInPolicyMd5

This table contains the MD5 exception information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicyMd5>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionMd5></ExceptionMd5>
    </Policy>
  </RuleInPolicyMd5>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicyMd5
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
ExceptionMd5	Value of the MD5	Index	String: case-insensitive. Length: 32 characters.	N/A

AntiVirus/EnhancedInspectConfig

This table contains deep inspect configuration. The HostAddr config have been moved to the DIM module.

XML structure

```
<AntiVirus>
  <EnhancedInspectConfig>
```

```
    <HostAddr></HostAddr>
    <FileSizeMax></FileSizeMax>
    <Enabled></Enabled>
  </EnhancedInspectConfig>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	EnhancedInpectConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostAddr	Address of the host	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FileSizeMax	Max size of the file	N/A	Unsigned integer. Value range: 1 to 10	The unit is MB，and default value is 1MB.
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false

Contents

AntiVirus 1

AntiVirus/Policies 1
XML structure 1
Table description 1
Columns 1
AntiVirus/PolicyInProfile 2
XML structure 2
Table description 2
Columns 2
AntiVirus/RuleInPolicy 2
XML structure 3
Table description 3
Columns 3
AntiVirus/Signatures 4
XML structure 4
Table description 4
Columns 5
AntiVirus/SignatureFileInfos 5
XML structure 5
Table description 5
Columns 6
AntiVirus/UpdatePercentage 6
XML structure 6
Table description 6
Columns 7
AntiVirus/SignatureAutoUpgrading 7
XML structure 7
Table description 7
Columns 8
AntiVirus/ActionDefaultParameters 8
XML structure 8
Table description 8
Columns 9
AntiVirus/RuleInPolicySigID 9
XML structure 9
Table description 9
Columns 10
AntiVirus/FamilyInfos 10
XML structure 10
Table description 10
Columns 10
AntiVirus/CloudQueryConfig 11
XML structure 11
Table description 11
Columns 12
AntiVirus/CloudQueryState 12
XML structure 12
Table description 12
Columns 12
AntiVirus/RuleInPolicyMd5 13
XML structure 13
Table description 13
Columns 13
AntiVirus/EnhancedInspectConfig 13
XML structure 14
Table description 14
Columns 14

AntiVirus/EnhancedInspectState 14
XML structure 14
Table description 15
Columns 15

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <CloudQuery></CloudQuery>
      <WarningParameter></WarningParameter>
      <EnabledWarnFile></EnabledWarnFile>
    </Policy>
  </Policies>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the policy	N/A	String: case-sensitive. Length: 1 to 255 characters.	N/A
CloudQuery	Enabling status of cloud querying	N/A	Enumeration: • **1**—Enabled. • **2**—Disabled.	N/A
WarningParameter	WarningParameter-Name	N/A	String:case-insensitive. Length: 1 to 63 characters.	Only support unsigned integer,character and underline.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnabledWarnFile	Enabling status of the warning profile	N/A	Boolean: • True • false	N/A

AntiVirus/PolicyInProfile

This table contains AntiVirus policy applied to the profile.

XML structure

```
<AntiVirus>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfil>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String: case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AntiVirus/RuleInPolicy

This table contains the information of rules in an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <Protocol>
        <ProtocolName></ProtocolName>
        <Direction></Direction>
        <Action></Action>
        <FileSize></FileSize>
      </Protocol>
      <Application>
        <AppName></AppName>
        <Action></Action>
      </Application>
    </Policy>
  </RuleInPolicy>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Protocol	Protocol configuration	DataStructure	Members include: • ProtocolName • Direction • Action	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive. • HTTP • FTP • SMTP • POP3 • IMAP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• NFS • SMB	
Direction	Direction of protocol traffic	N/A	Enumeration: • **0**—Upload • **1**—Download • **2**—Both	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: • **1**—Alert • **2**—Block • **3**—Redirect	N/A
FileSize	File Size	N/A	Unsigned integer. Value range: 1 to 24.	The unit is MB，and default value is 1MB.
Application	Application configuration	Data Structure	Members include: • AppName • Action	N/A
AppName	Application name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Actions for the specified application	N/A	Enumeration: • **1**—Alert • **2**—Block • **3**—Permit	N/A

AntiVirus/Signatures

This table contains the pre-defined rules information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <Signatures>
    <Signature>
      <SignatureID></SignatureID>
      <Severity></Severity>
      <SignatureName></SignatureName>
      <FamilyName></FamilyName>
    </Signature>
  </Signatures>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus

Table name	Signatures
Table type	Multi-instance table
Row name	Signature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SignatureID	ID of the virus	Index	Unsigned integer. Value range: 1 to 536870910.	From signature file.
Severity	Severity of the virus	N/A	Enumeration: • **1**—Critical • **2**—High • **3**—Minor • **4**—Low	From signature file.
SignatureName	Name of the virus	N/A	String: case-insensitive. Length: 1 to 127 characters.	From signature file.
FamilyName	Name of the virus family	N/A	String: case-insensitive Length: 1 to 127 characters	From signature file.

AntiVirus/SignatureFileInfos

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <SignatureFileInfos>
    <FileInfo>
      <Version></Version>
      <FileName></FileName>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
    </FileInfo>
  </SignatureFileInfos>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureFileInfos

Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	signature file version	Index	Enumeration: • **1**—Current • **2**—Latest • **3**—Factory	N/A
FileName	Name of the signature file	N/A	String: case-insensitive. Length: 1 to 31 characters.	v.v(2.1)
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	Consider time-zone
Updates	Updating Information	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

AntiVirus/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<AntiVirus>
  <UpdatePercentage>
    <Percentage></Percentage>
    <ErrorCode></ErrorCode>
  </UpdatePercentage>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	UpdatePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Percentage of update	N/A	Unsigned integer. Value range: 0 to 100.	When the value range is 0 to 100, it means in upgrading, Otherwise, it means error
ErrorCode	Error Code of update	N/A	Enumeration: 0—Success 1—Invaild_License 2—Invaild Sigfile 3—Unable connect to Service 4—No Enough flash space 5—No Enough memory	N/A

AntiVirus/SignatureAutoUpgrading

This table contains the information of AntiVirus signatures auto upgrading.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 03:01:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: • **0**—Week • **1**—Periodic	Default is 1
Day	Days	N/A	Unsigned integer. Value range: 0 to 15.	When Type is **0**, the value range is 0 to 6. Otherwise, the value range is 1 to 15. The default is 3.

AntiVirus/ActionDefaultParameters

This table contains Antivirus action default parameter information.

XML structure

```
<AntiVirus>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	action	Index	Enumeration: • **1**—Block • **2**—Capture • **3**—Logging • **4**—Redirect • **5**—Mail	N/A
ParameterName	Parameter-Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is from DIM table. E.g. If Action is block, the ParameterName's value is from DIM/BlockParameters.

AntiVirus/RuleInPolicySigID

This table contains the Exception sigs information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicySigID>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionSigID></ExceptionSigID>
    </Policy>
  </RuleInPolicySigID>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicySigID
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
ExceptionSigID	ID of the virus	Index	Unsigned integer. Value range: 1 to 536870910.	N/A

AntiVirus/FamilyInfos

This table contains information about virus families displayed on paginated lists.

XML structure

```
<AntiVirus>
  <FamilyInfos>
     <FamilyInfo>
       <UserID></UserID>
       <Position></Position>
       <TotalCount></TotalCount>
       <FamilyID></FamilyID>
       <FamilyName></FamilyName>
    </FamilyInfo>
  </FamilyInfos>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	FamilyInfos
Table type	Multi-instance table
Row name	FamilyInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current virtual user.	Index	Unsigned integer.	The value is used to identify each query results in back end, and send to fore-end

Column name	Column description	Column type	Data type and restrictions	Remarks
				to get other paginated results when query results is more than one page.
Position	Position of the family on the entire virus families list.	Index	Unsigned integer.	N/Az
TotalCount	Total number of virus families.	N/A	Unsigned integer.	If the query function is used, the total number of virus families in the query results is displayed.
FamilyID	ID of the family.	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the anti-virus signature file.
FamilyName	Name of the family.	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the anti-virus signature file.

AntiVirus/CloudQueryConfig

This table contains cloud query configure information.

XML structure

```
<AntiVirus>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	CloudQueryConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 100000 to 200000.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

AntiVirus/CloudQueryState

This table contains cloud query status information.

XML structure

```
<AntiVirus>
  <CloudQueryState>
    <HostName></HostName>
    <HostState></HostState>
    <HostStateErrCode></HostStateErrCode>
  </CloudQueryState>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	CloudQueryState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
HostState	Status of the host	N/A	Enumeration: • **0**—Available • **1**—Unavailable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HostStateErrCode	Error code of cloud query	N/A	Unsigned integer. Value range: 0 to 3.	N/A

AntiVirus/RuleInPolicyMd5

This table contains the MD5 exception information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicyMd5>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionMd5></ExceptionMd5>
    </Policy>
  </RuleInPolicyMd5>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicyMd5
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
ExceptionMd5	Value of the MD5	Index	String: case-insensitive. Length: 32 characters.	N/A

AntiVirus/EnhancedInspectConfig

This table contains deep inspect configuration.

XML structure

```
<AntiVirus>
  <EnhancedInspectConfig>
    <HostAddr></HostAddr>
    <FileSizeMax></FileSizeMax>
    <Enabled></Enabled>
  </EnhancedInspectConfig>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	EnhancedInspectConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostAddr	Address of the host	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FileSizeMax	Max size of the file	N/A	Unsigned integer. Value range: 1 to 10	The unit is MB，and default value is 1MB.
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false

AntiVirus/EnhancedInspectState

This table contains C3000 server connection status information.

XML structure

```
<AntiVirus>
  <EnhancedInspectState>
    <HostAddr></HostAddr>
    <HostState></HostState>
    <Supported></Supported>
  </EnhancedInspectState>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	EnhancedInspectState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostAddr	IP address of the host	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
HostState	Status of the host	N/A	Enumeration: • **0**—Disconnected. • **1**—Connecting. • **2**—Connected.	N/A
Supported	Support for enhanced anti-virus inspection	N/A	Boolean: • true—Supported. • false—Not supported.	N/A

Contents

AntiVirus 2
AntiVirus/SignatureManualUpgrading 2
AntiVirus/SignatureAutoUpgradeNow 2
AntiVirus/RuleInPolicy 2
AntiVirus/RuleInPolicySigID 3

AntiVirus

AntiVirus/SignatureManualUpgrading

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	Please install a valid license. 请安装正确的license。

AntiVirus/SignatureAutoUpgradeNow

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	Please install a valid license. 请安装正确的license。
The signature file is updating. Please try again later. 特征库正在升级，请稍后再试。	Please try later. 正在升级，稍后再试。
Operation failed because a connection to the signature library server could not be established. 操作失败: 连接特征库服务器失败。	Please examine your network or server. 请检查网络和服务器是否正常。
Cannot execute this operation because of memory alert. 由于内存门限不能执行此操作。	Please try later. 待设备内存门限解除后再试。
The signature version is up to date. No update is needed. 特征库已是最新版本，不需要进行升级。	No update is needed because the version is up to date. 不需要升级，已经是最新版本。
Cannot update the signature library because the required service card cannot be found. 未检测到业务板，特征库升级失败。	Cannot update the signature library because the required service card cannot be found. 特征库升级操作需要有业务板。

AntiVirus/RuleInPolicy

Message	Explanation
The maximum number of 100 application exceptions already reached. 最多可配置100个应用例外。	A maximum of 100 application exceptions can be configured. 最多可配置100个应用例外。

AntiVirus/RuleInPolicySigID

Message	Explanation
The maximum number of 512 signature exceptions already reached. 最多可配置512个病毒例外。	A maximum of 512 signature exceptions can be configured. 最多可配置512个病毒例外。

Contents

AP 1

AP/ResetAP 1
XML structure 1
Table description 1
Columns 1
AP/ResetAllAP 1
XML structure 1
Table description 2
Columns 2
AP/PersistentAP 2
XML structure 2
Table description 2
Columns 3
AP/RegroupAPByName 3
XML structure 3
Table description 3
Columns 3
AP/RegroupAPByMac 3
XML structure 4
Table description 4
Columns 4
AP/RegroupAPBySerialID 4
XML structure 4
Table description 5
Columns 5
AP/AuthenticateAP 5
XML structure 5
Table description 5
Columns 6
AP/AuthenticateAllAP 6
XML structure 6
Table description 6
Columns 6
AP/ImportAuthenticateFile 7
XML structure 7
Table description 7
Columns 7
AP/ProvisionAP 7
XML structure 7
Table description 8
Columns 8
AP/RenameAP 8
XML structure 8
Table description 8
Columns 9
AP/ SetRadioRun 9
XML structure 9
Table description 9
Columns 9
AP/ImageDeploy 10
XML structure 10
Table description 10
Columns 10
AP/DenyConnect 10
XML structure 11
Table description 11
Columns 11

AP/APGroupRemoteCfgSyn ····· 11
XML structure ····· 11
Table description ····· 12
Columns ····· 12
AP/APRemoteCfgSyn ····· 12
XML structure ····· 12
Table description ····· 12
Columns ····· 13
AP/LedBlinkAP ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 13

AP

AP/ResetAP

This table contains information of AP resetting.

XML structure

```
<AP>
  <ResetAP>
    <AP>
      <ApName></ApName>
    </AP>
  </ResetAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ResetAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

AP/ResetAllAP

This table contains information of resetting all APs.

XML structure

```
<AP>
  <ResetAllAP>
    <Global>
      <ResetType></ResetType>
    </Global>
```

```
  </ResetAllAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ResetAllAP
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ResetType	Which type of APs will be reset.	Index	Enumeration: • **1**—All. • **2—Unauthenticated.**

AP/PersistentAP

This table contains information of AP persistence.

XML structure

```
<AP>
  <PersistentAP>
    <AP>
      <ApName></ApName>
    </AP>
  </PersistentAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PersistentAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

AP/RegroupAPByName

This table contains information of AP regrouping.

XML structure

```
<AP>
  <RegroupAPByName>
    <AP>
      <ApName></ApName>
      <GroupName></GroupName>
    </AP>
  </RegroupAPByName>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPByName
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/RegroupAPByMac

This table contains information of AP regrouping by MAC address.

XML structure

```
<AP>
  <RegroupAPByMac>
    <MAC>
      <MacAddress></MacAddress>
      <GroupName></GroupName>
    </MAC>
  </RegroupAPByMac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPByMac
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	AP MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/RegroupAPBySerialID

This table contains information of AP regrouping by serial ID.

XML structure

```
<AP>
  <RegroupAPBySerialID>
    <SerialID>
      <SerialID></SerialID>
      <GroupName></GroupName>
    </SerialID>
  </RegroupAPBySerialID>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPBySerialID
Table type	Multi-instance table
Row name	SerialID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/AuthenticateAP

This table contains information of authenticating APs.

XML structure

```
<AP>
  <AuthenticateAP>
    <AP>
      <ApName></ApName>
      <Action></Action>
    </AP>
  </AuthenticateAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	AuthenticateAP
Table type	Multi-instance table
Row name	AP

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Action	The authenticating action type.	N/A	Enumeration: • **1**—Accept. • **2—Reject.**	N/A

AP/AuthenticateAllAP

This table contains information of authenticating all APs.

XML structure

```
<AP>
  <AuthenticateAllAP>
    <Global>
      <Action></Action>
    </Global>
  </AuthenticateAllAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	AuthenticateAllAP
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Action	The authenticating action type.	N/A	Enumeration: • **1**—Accept. • **2—Reject.**

AP/ImportAuthenticateFile

This table contains information of importing authenticating file.

XML structure

```
<AP>
  <ImportAuthenticateFile>
    <FileName></FileName>
  </ImportAuthenticateFile>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ImportAuthenticateFile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The TXT file name with full path which will be imported as the AP ACL rules for AP authentication.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Should end with “.txt” and specify the authentication ACL first.

AP/ProvisionAP

This table contains information of provisioning APs.

XML structure

```
<AP>
  <ProvisionAP>
    <AP>
      <ApName></ApName>
      <Action></Action>
    </AP>
  </ProvisionAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ProvisionAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Action	The authenticating action type.	N/A	Enumeration: • **1**—Provision. • **2—Reset provisioning.**	N/A

AP/RenameAP

This table contains information about renaming APs.

XML structure

```
<AP>
  <RenameAP>
    <AP>
      <ApName></ApName>
      <NewApName></NewApName>
    </AP>
  </RenameAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RenameAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
NewApName	New AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

AP/ SetRadioRun

This table contains radio information of run data.

XML structure

```
<AP>
  <SetRadioRun>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Channel></Channel>
      <Power></Power>
    </Radio>
  </SetRadioRun>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SetRadioRun
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Channel	Working channel	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The value range depends on the AP/ChannelDB/SupportedChannelList” column.	
Power	Transmit power	N/A	Unsigned short. Value range: 1 to “AP/PowerDB/ValidMaxPower” .Unit: dBm	N/A

AP/ImageDeploy

This table contains information of ap image deploy.

XML structure

```
<AP>
  <ImageDeploy>
    <Global>
      <ImageDeployType></ImageDeployType>
    </Global>
  </ImageDeploy >
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ImageDeploy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImageDeploy Type	Which type of APs will be image deploy	Index	Enumeration: • **1**—All. • **2—**Unauthenticated**.**	ImageDeployType

AP/DenyConnect

This table contains information of deny ap connect.

XML structure

```
<AP>
  <DenyConnect>
    <Global>
      <DenyConnectType></DenyConnectType>
    </Global>
  </DenyConnect>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	DenyConnect
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DenyConnect Type	The deny connnect action type.	Index	Enumeration: • **1**—Disable. • **2**—Enable.	DenyConnectType

AP/APGroupRemoteCfgSyn

This table contains information of AP group remote configuration synchronization action.

XML structure

```
<AP>
  <APGroupRemoteCfgSyn>
    <Syn>
      <GroupName></GroupName>
    </Syn>
  </APGroupRemoteCfgSyn>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRemoteCfgSyn
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

AP/APRemoteCfgSyn

This table contains information of AP remote configuration synchronization action.

XML structure

```
<AP>
  <APRemoteCfgSyn>
    <Syn>
      <APName></APName>
    </Syn>
  </APRemoteCfgSyn>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APRemoteCfgSyn
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

AP/LedBlinkAP

This table contains AP LED flashing information.

XML structure

```
<AP>
  <LedBlinkAP>
    <AP>
      <ApName></ApName>
      <Time></Time>
    </AP>
  </LedBlinkAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	LedBlinkAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Time	LED flashing duration	Index	Unsigned short. Value range: 1 to 60. Unit: seconds	N/A.

Contents

AP 1

AP/GlobalCfg 1
XML structure 1
Table description 1
Columns 2
AP/ManualAP 3
XML structure 3
Table description 4
Columns 4
AP/RadioOfManualAP 6
XML structure 6
Table description 7
Columns 7
AP/PrvsOfManualAP 11
XML structure 11
Table description 12
Columns 12
AP/PrvsOfManualAPACIPv4 14
XML structure 14
Table description 14
Columns 14
AP/PrvsOfManualAPACIPv6 14
XML structure 15
Table description 15
Columns 15
AP/EdcaRadio 15
XML structure 15
Table description 16
Columns 16
AP/RadioWmm 17
XML structure 17
Table description 17
Columns 17
AP/Radio11n 18
XML structure 18
Table description 18
Columns 19
AP/RadioMCS 20
XML structure 20
Table description 20
Columns 21
AP/Radio11ac 21
XML structure 21
Table description 22
Columns 22
AP/RadioVHTMCS 22
XML structure 22
Table description 23
Columns 23
AP/APGroup 23
XML structure 23
Table description 24
Columns 24
AP/APGroupMACRule 26
XML structure 26
Table description 27
Columns 27

AP/APGroupSerialIDRule ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
AP/APGroupNameRule ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
AP/APGroupIPv4Rule ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
AP/APGroupIPv6Rule ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
AP/APGroupModel ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 31
AP/APGroupRadio ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
AP/APGroupRadio11n ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38
AP/APGroupRadioMCS ····· 39
XML structure ····· 39
Table description ····· 40
Columns ····· 40
AP/APGroupRadio11ac ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41
AP/APGroupRadioVHTMCS ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42
AP/APGroupPrvs ····· 43
XML structure ····· 43
Table description ····· 44
Columns ····· 44
AP/APGroupPrvsACIPv4 ····· 44
XML structure ····· 44
Table description ····· 45
Columns ····· 45
AP/APGroupPrvsACIPv6 ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
AP/Location ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 47
AP/APAuthentication ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 47
AP/LocalAC ····· 48
XML structure ····· 48

Table description 48
Columns 49
AP/ContainerTopology 50
XML structure 50
Table description 50
Columns 50
AP/Container 51
XML structure 51
Table description 51
Columns 51
AP/WlanEnable 51
XML structure 52
Table description 52
Columns 52
AP/APGroupModelCfg 52
XML structure 52
Table description 53
Columns 53
AP/VirtualManualAP 53
XML structure 53
Table description 54
Columns 54
AP/RadioOfVirtualManualAP 55
XML structure 55
Table description 55
Columns 56
AP/VirtualAPGroup 58
XML structure 58
Table description 58
Columns 59
AP/VirtualAPGroupModel 59
XML structure 59
AP/SpmIfCfg 59
XML structure 60
Table description 60
Columns 60
AP/SpmPortPoe 61
XML structure 61
Table description 61
Columns 62
AP/SpmPortIsolate 62
XML structure 62
Table description 62
Columns 63
AP/SpmVlan 63
XML structure 63
Table description 63
Columns 64
AP/APGroupIfRemoteCfg 64
XML structure 64
Table description 65
Columns 65
AP/APGroupRemoteCfg 66
XML structure 66
Table description 66
Columns 67
AP/APGroupAggRemoteCfg 67
XML structure 67
Table description 67
Columns 68
AP/APIfRemoteCfg 68
XML structure 68

Table description ····· 69
Columns ····· 69
AP/APRemoteCfg ····· 70
XML structure ····· 70
Table description ····· 70
Columns ····· 70
AP/APAggRemoteCfg ····· 71
XML structure ····· 71
Table description ····· 71
Columns ····· 71
AP/SpmMonitorCfg ····· 72
XML structure ····· 72
Table description ····· 72
Columns ····· 72

AP

AP/GlobalCfg

This table contains the informations of global.

XML structure

```
<AP>
  <GlobalCfg>
    <AutoAp></AutoAp>
    <AutoPersistent></AutoPersistent>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Preempt></Preempt>
    <FirmwareUpgrade></FirmwareUpgrade>
    <TunnelEncryption></TunnelEncryption>
    <Gps></Gps>
    <LocalAC></LocalAC>
    <CentralACIPv4></CentralACIPv4>
    <CentralACIPv6></CentralACIPv6>
    <ControlAddress></ControlAddress>
    <ControlAddressIPv4></ControlAddressIPv4>
    <ControlAddressIPv6></ControlAddressIPv6>
    <VirtualAp></VirtualAp>
  </GlobalCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoAp	Whether an AP can connect the AC without creating a manual AP.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
AutoPersistent	When an auto AP connects the AC , whether convert the AP to manual AP automatically.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AC is locked	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch Default value is false.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable Default value is true.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
Gps	Whether to open the Gps report switch.	N/A	Boolean: • true—Enable • false—Disable	Only for FatAP Type
LocalAC	Whether to enable Local ac.	N/A	Boolean: • true—Enable • false—Disable	Only for Local-ac Type
CentralACIPv4	The IPv4 Central AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only for Local-ac Type
CentralACIPv6	The IPv6 Central AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Only for Local-ac Type
ControlAddress	CAPWAP control address configuration	N/A	Boolean: • true—Enable • false—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
VirtualAp	Whether an AP can creat a virtual AP.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A

AP/ManualAP

This table contains manual AP information.

XML structure

```
<AP>
  <ManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
      <ControlAddress></ControlAddress>
      <ControlAddressIPv4></ControlAddressIPv4>
      <ControlAddressIPv6></ControlAddressIPv6>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
      <LedMode></LedMode>
      <MapConfiguration></MapConfiguration>
```

```
      <VirtualAC>
        <VirtualACIPv4></VirtualACIPv4>
        <VirtualACIPv6></VirtualACIPv6>
        <Vlan></Vlan>
      </VirtualAC>
    </AP>
  </ManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Characters will be automatically convert case. Refer to AP/APDB. This column is mandatory when the row is being created. This column is not writable when the row is being deleted, removed. This column should not be changed when the row is being replaced or merged.
CfgSerialID	Configured AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
CfgMacAddress	Configured AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 stantard.

RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: • true—Support. • false—Not support.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 3 to 255.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8. Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of AP.	N/A	String, Length: 1 to 499 characters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
ControlAddress	CAPWAP control address configuration.	N/A	Boolean:	N/A

			• true—Enable. • false—Disable.	
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
LedMode	LED mode	N/A	Enumeration: • 0—Normal • 1—Quiet • 2—Awake • 3—Always-on • 4— Inherit	N/A
MapConfiguration	deploy a configuration file to an AP.	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
VirtualAC	VirtualAC info	Data structure	Members include: • VirtualACIPv4 • VirtualACIPv6 • Vlan	N/A
VirtualACIPv4	The IPv4 virtual AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
VirtualACIPv6	The IPv6 virtual AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Vlan	VLAN	N/A	Unsinged integer. Value range: 1 to 4094.	N/A

AP/RadioOfManualAP

This table contains radio information of manual AP.

XML structure

```
<AP>
  <RadioOfManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Status></Status>
```

```
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
      <CfgMaxPowerPercent></CfgMaxPowerPercent>
      <TimeRangeName></TimeRangeName>
      <ProtectionMode></ProtectionMode>
      <CfgAntennaType></CfgAntennaType>
    </Radio>
  </RadioOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Status	Radio status	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
RateMulticast	Multicast rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preamble	Preamble.	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time.	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power.	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
Distance	The distance that Radio can cover.	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration tim.	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold.	N/A	Unsigned short. The value range is 256~2346. And the value must be an even number. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	Protection threshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	Short retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgChannel	Configured channel number.	N/A	Unsigned short. The value range conforms to “AP/ChannelDB/SupportedChannelList” column. If this column is not configured, the channel number will be calculated automatically.	If you set the value to 15, the radio automatically selects an optimal channel, and then locks the channel. If you set the value to 16, the radio selects an optimal channel but does not lock the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 0 to “AP/PowerDB/ValidMaxPower”. Unit: dBm	Setting this field to 0 indicates using the default maximum power.
CfgMaxPowerPercent	Configured maximum power in percentage	N/A	Unsigned short. Value range: 1 to 10. Unit: null.	• When both CfgMaxPower and CfgMaxPowerPercent are configured, CfgMaxPowerPercent has higher priority. • Value 1 represents 10%, 2 represents 20%, etc. The Remove operation will set the value of this parameter to 10 by default.
TimeRangeName	The name of time range.	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
ProtectionMode	Protection Mode	N/A	Enumeration: • 1—rts-cts • 2—cts-to-self	N/A
CfgAntennaType	Configured Antenna Type	N/A	String, case-sensitive. Length: 1 to 64 characters	N/A

AP/PrvsOfManualAP

This table contains provision information of manual AP.

XML structure

```
<AP>
  <PrvsOfManualAP>
```

```
    <Prvs>
      <ApName></ApName>
      <ACHostName></ACHostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
      <GatewayIPv4></GatewayIPv4>
      <GatewayIPv6></GatewayIPv6>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Dot1xSupplAnonyIdent></Dot1xSupplAnonyIdent>
      <Dot1xSupplEapMethod></Dot1xSupplEapMethod>
      <Dot1xSupplEnable></Dot1xSupplEnable>
      <Dot1xSupplPasswdCiper></Dot1xSupplPasswdCiper>
      <Dot1xSupplPasswdSimple></Dot1xSupplPasswdSimple>
      <Dot1xSupplUsername></Dot1xSupplUsername>
    </Prvs>
  </PrvsOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAP
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
ACHostNam e	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1,1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
GatewayIPv4	Specify a gateway by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
GatewayIPv6	Specify a gateway by its IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
IPv4Address	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Address	Specify an IPv6 address that the AP uses to establish a CAPWAP tunnel.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Dot1xSupplAnonyIdent	Specify an anonymous identifier for the supplicant.	N/A	String. Length: 1 to 253 characters.	N/A
Dot1xSupplEapMethod	Specify an EAP authentication method.	N/A	Enumeration: • 1—md5 • 2—peap-gtc • 3—peap-mschapv2 • 4—ttls-gtc • 5—ttls-mschapv2	N/A
Dot1xSupplEnable	Enable the 802.1X supplicant feature.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Dot1xSupplPasswdCipher	Specify a ciphertext password for the 802.1X supplicant.	N/A	String. Length: 1 to 201 characters.	N/A
Dot1xSupplPasswdSimple	Specify a plaintext password for the 802.1X supplicant.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1xSuppl Username	Specify a username for the 802.1X supplicant.	N/A	String. Length: 1 to 253 characters.	N/A

AP/PrvsOfManualAPACIPv4

This table contains provision information of manual AP of IPv4 address.

XML structure

```
<AP>
  <PrvsOfManualAPACIPv4>
    <Prvs>
      <ApName></ApName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </PrvsOfManualAPACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/PrvsOfManualAPACIPv6

This table contains provision information of manual AP of IPv6 address.

XML structure

```
<AP>
  <PrvsOfManualAPACIPv6>
    <Prvs>
      <ApName></ApName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </PrvsOfManualAPACIPv6>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	ApName	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1. This column is available when the SrcAny column is false.

AP/EdcaRadio

This table contains radio EDCA information.

XML structure

```
<AP>
  <EdcaRadio>
    <EdcaPara>
      <ApName></ApName>
      <RadioID></RadioID>
      <AccessCategory></AccessCategory>
```

```
      <Noack></Noack>
      <CfgAifsn></CfgAifsn>
      <CfgEcwmin></CfgEcwmin>
      <CfgEcwmax></CfgEcwmax>
      <CfgTxOpLimit></CfgTxOpLimit>
    </EdcaPara>
  </EdcaRadio>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	EdcaRadio
Table type	Multi-instance table
Row name	EdcaPara
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned short. Value range: 1 to 31.	N/A
AccessCategory	A label for the common set of enhanced distributed channel access parameters that are used by a WMM STA to conten d for the channel in order to transmit MSDUs with certain priorities.	Index	Enumeration: • 0—BE. • 1—BK. • 2—VI. • 3—VO.	N/A
Noack	Whehter acknowledgement is required.	N/A	Boolean: • true—Not required. • false—Required. The default value is false.	N/A
CfgAifsn	ArbitrationInter Frame Spacing Number.	N/A	The value range conforms to “AP/RadioIDB/Aifsn” column.	N/A
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to “AP/RadioIDB/Ecwmin” column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			“AP/RadioIDB/Ecwmax” column.	
CfgTxOpLimit	Transmission oppurtunity limit.	N/A	The value range conforms to “AP/RadioIDB/TxOpLimit” column.	N/A

AP/RadioWmm

This table contains radio WMM information.

XML structure

```
<AP>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
    </Wmm>
  </RadioWmm>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length:1to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WMM status of radio.	N/A	Boolean: • true—Enable. • false—Disable. The default value is true.	N/A

AP/Radio11n

This table contains radio 802.11n information.

XML structure

```
<AP>
  <Radio11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <MimoMode></MimoMode>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></BandwidthAutoswitch >
   </Dot11n>
  </Radio11n>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Radio11n
Table type	Multi-instance table
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Ampdu	A-mpdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
Amsdu	A-msdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
ShortGI	Short GI function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
Stbc	STBC function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
Ldpc	LDPC function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
MimoMode	MIMO mode.	N/A	Enumeration: • 0—Inherit • 17—1×1. • 34—2×2. • 51—3×3. • 68—4×4. • 85—5×5. • 102—6×6. • 119—7×7. • 136—8×8.	N/A
Greenap	Green AP function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartAntenna	Smart antenna function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit.	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: • 1—Auto • 2—High-availability • 3—High-throughput	Effective only when SmartAntenna is enabled.
Client11nOnly	Client dot11n only function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Inherit .	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: • true—Enable. • false—Disable. The column is only for 2.4GHz radio mode, and AP/RadioOfManualAP/Bandwidth must be 2.	N/A

AP/RadioMCS

This table contains MCS information of AP radios.

XML structure

```
<AP>
  <RadioMCS>
    <MCS>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
    <MCS>
  </RadioMCS >
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSSupported must be greater than or equal to the MCSMandatory.

AP/Radio11ac

This table contains radio 802.11ac information.

XML structure

```
<AP>
  <Radio11ac>
    <Dot11ac>
      <ApName></ApName>
      <RadioID></RadioID>
      <Client11acOnly></Client11acOnly>
    </Dot11ac>
  </Radio11ac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Radio11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Client11acOnly	Client dot11ac only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/RadioVHTMCS

This table contains radio VHTMCS information.

XML structure

```
<AP>
  <RadioVHTMCS>
    <VHTMCS>
      <ApName></ApName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSIndex></VHTMCSIndex>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
    </VHTMCS>
  </RadioVHTMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioVHTMCS
Table type	Multi-instance table
Row name	VHTMCS
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSIndex	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.

AP/APGroup

This table contains information of AP groups.

XML structure

```
<AP>
  <APGroup>
    <Group>
      <Name></Name>
```

```
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
      <LedMode></LedMode>
      <VirtualAC>
        <VirtualACIPv4></VirtualACIPv4>
        <VirtualACIPv6></VirtualACIPv6>
        <Vlan></Vlan>
      </VirtualAC>
    </Group>
  </APGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 stantard.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionLock	Whether the region code of the AP group is locked.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds Default value is 10 seconds.	N/A
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 3 to 255. Default value is 3.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8. Unit: seconds Default value is 5 seconds.	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds Default value is 3.	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable Default value is true.	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of APGroup.	N/A	String, Length: 1 to 64 cahracters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade	N/A	Boolean: • true—Enable • false—Disable	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover	N/A	Boolean: • true—Enable • false—Disable	N/A
LedMode	LED mode	N/A	Enumeration: • 0—Normal • 1—Quiet • 2—Awake • 3—Always-on	N/A
MapConfiguration	AP Configuration file name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
VirtualAC	VirtualAC info	Data structure	Members include: • VirtualACIPv4 • VirtualACIPv6 • Vlan	N/A
VirtualACIPv4	The IPv4 virtual AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
VirtualACIPv6	The IPv6 virtual AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Vlan	VLAN	N/A	Unsinged integer. Value range: 1 to 4094.	N/A

AP/APGroupMACRule

This table contains information of AP groups' rules of MAC address.

XML structure

```
<AP>
  <APGroupMACRule>
    <Rule>
      <GroupName></GroupName>
```

```
      <MacAddress></MacAddress>
    </Rule>
  </APGroupMACRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupMACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
MacAddress	AP MAC address.	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/APGroupSerialIDRule

This table contains information of AP groups' rules of serial ID.

XML structure

```
<AP>
  <APGroupSerialIDRule>
    <Rule>
      <GroupName></GroupName>
      <SerialID></SerialID>
    <Rule>
  </APGroupSerialIDRule>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	APGroupSerialIDRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	N/A

AP/APGroupNameRule

This table contains information of AP groups' rules of AP name.

XML structure

```
<AP>
  <APGroupNameRule>
    <Rule>
      <GroupName></GroupName>
      <APName></APName>
    <Rule>
  </APGroupNameRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupNameRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

AP/APGroupIPv4Rule

This table contains information of AP groups' rules of IPv4 address range.

XML structure

```
<AP>
  <APGroupIPv4Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv4Addr></IPv4Addr>
      <IPv4Wildcard></IPv4Wildcard>
    <Rule>
  </APGroupIPv4Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv4Addr	IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Wildcard	Wildcard mask for the IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 255.255.255.0.

AP/APGroupIPv6Rule

This table contains information of AP groups' rules of IPv6 address range.

XML structure

```
<AP>
  <APGroupIPv6Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv6Addr></IPv6Addr>
      <IPv6Wildcard></IPv6Wildcard>
    <Rule>
  </APGroupIPv6Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv6Addr	Source IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.
IPv6Wildcard	Length of the source IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false.

AP/APGroupModel

This table contains information of AP group models.

XML structure

```
<AP>
  <APGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
    </Model>
  </APGroupModel>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupModel
Table type	Multi-instance table
Row name	Model
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

AP/APGroupRadio

This table contains information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio>
    <Radio>
```

```
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
      <ProtectionMode></ProtectionMode>
      <CfgAntennaType></CfgAntennaType>
    </Radio>
  </APGroupRadio>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: • **1—**20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M Default value is 1 when the Mode is 1、2、3、4、6. Default value is 2 when the Mode is 5. Defautl value is 3 when the Mode is 7.	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
Status	Radio status.	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically. Default value: auto	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: A. 1, 2Mbps(802.11b). B. 6, 12, 24Mbps(802.11a/802.11an) C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: A. 5.5, 11Mbps(802.11b) B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an) C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: null.	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
Preamble	Preamble.	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode. Default value: short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeaconInterval	Beacon Interval time.	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms Default value: 100	N/A
PowerLock	Lock the power.	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
Distance	The distance that Radio can cover.	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre). Default value: 1	N/A
MaxRxDuration	Max Reveived frame duration time.	N/A	Unsigned integer. The value range is 500~250000. Unit: ms. Default value: 2000	N/A
FragmentThreshold	Fragment threshold.	N/A	Unsigned short. The value range is 256~2346. And the value must be an even number. Unit: byte. Default value: 2346	N/A
LongRetryThreshold	Long retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 4	N/A
ProtectionThreshold	Protection threshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte. Default value: 2346	N/A
ShortRetryThreshold	Short retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 7	N/A
CfgChannel	Configured channel number.	N/A	Unsigned short. The value range conforms to “AP/ChannelDB/SupportedChannelList” column. If this column is set to zero, the channel number will be calculated automatically.	If you set the value to 15, the radio automatically selects an optimal channel, and then locks the channel. If you set the value to 16, the radio selects an optimal channel but does not lock the channel.

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgMaxPower	Configured maximum power.	N/A	Unsigned short. Value range: 0 to “AP/PowerDB/ValidMaxPower”. Unit: dBm	Setting this field to 0 indicates inheriting the setting.
ProtectionMode	Protection Mode	N/A	Enumeration: • 1—rts-cts • 2—cts-to-self	N/A
CfgAntennaType	Configured Antenna Type	N/A	String, case-sensitive. Length: 1 to 64 characters	N/A

AP/APGroupRadio11n

This table contains 802.11n information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio11n>
    <Radio11n>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <MimoMode></MimoMode>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></ BandwidthAutoswitch >
    </Radio11n>
  </APGroupRadio11n>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11n
Table type	Multi-instance table

Item	Description
Row name	Radio11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
Ampdu	A-mpdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
Amsdu	A-msdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
ShortGI	Short GI function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
Stbc	STBC function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
Ldpc	LDPC function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MimoMode	MIMO mode.	N/A	Enumeration: • 0—Undo. • 17—1×1. • 34—2×2. • 51—3×3. • 68—4×4. • 85—5×5. • 102—6×6. • 119—7×7. • 136—8×8.	N/A
Greenap	Green ap function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
SmartAntenna	Smart antenna function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: • 1: Auto • 2: High-availability • 3: High-throughput	Effective only when SmartAntenna is enabled.
Client11nOnly	Client dot11n only function.	N/A	Enumeration: • 0—Disable. • 1—Enable. • 2—Undo.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: • true—Enable. • false—Disable. The column is only for 2.4GHz radio mode, and AP/APGroupRadio/Bandwidth must be 2.	N/A

AP/APGroupRadioMCS

This table contains MCS information of AP Group radios.

XML structure

```
<AP>
  <APGroupRadioMCS>
    <RadioMCS>
      <GroupName></GroupName>
      <ModelName></ModelName>
```

```
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
    <RadioMCS>
  </APGroupRadioMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Group name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.

Column name	Column description	Column type	Data type and restrictions	Remarks
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 76.	The MCSSupported must be greater than or equal to the MCSMandatory.

AP/APGroupRadio11ac

This table contains 802.11ac information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio11ac>
    <Radio11ac>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Client11acOnly></Client11acOnly>
    </Radio11ac>
  </APGroupRadio11ac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11ac
Table type	Multi-instance table
Row name	Radio11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
Client11acOnly	Client dot11ac only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/APGroupRadioVHTMCS

This table contains radio VHTMCS information.

XML structure

```
<AP>
  <APGroupRadioVHTMCS>
    <RadioVHTMCS>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSIndex></VHTMCSIndex>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
    </RadioVHTMCS>
  </APGroupRadioVHTMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadioVHTMCS
Table type	Multi-instance table
Row name	RadioVHTMCS
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSIndex	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```
<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <ACHostName></ACHostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
    </Prvs>
  </APGroupPrvs>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvs
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GroupName.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1,1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

AP/APGroupPrvsACIPv4

This table contains provision information of AP Group of IPv4 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv4>
    <Prvs>
      <GroupName></GroupName>
```

```
      <ACIPv4></ACIPv4>
    </Prvs>
  </APGroupPrvsACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/APGroupPrvsACIPv6

This table contains provision information of AP group of IPv6 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv6>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </APGroupPrvsACIPv6>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	APGroupPrvsACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GroupName.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

AP/Location

This table contains the informations of locations.

XML structure

```
<AP>
  <Location>
    <Location>
      <LocationName></LocationName>
    </Location>
  </Location>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Location
Table type	Multi-instance table
Row name	Location
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Location name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A

AP/APAuthentication

This table contains the informations of AP authentication.

XML structure

```
<AP>
  <APAuthentication>
    <Status></Status>
    <Method></Method>
    <PermitUnauth></PermitUnauth>
    <AuthDomain></AuthDomain>
    <AclNumber></AclNumber>
    <AclName></AclName>
  </APAuthentication>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APAuthentication
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The status of AP authentication.	N/A	Boolean: • true—Enable. • false—Disable. Default value is disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Method	The authentication method.	N/A	Enumeration: • 1—MAC address. • 2—Serial ID. Default value is MAC address.	N/A
PermitUnauth	Whether the un-authenticated AP is allowed to join the AC.	N/A	Boolean: • true—Allowed. • false—Not allowed. Default value is allowed.	N/A
AuthDomain	The ISP domain of remote AP authentication.	N/A	String, case-insensitive. Length: 1 to 24 characters.	N/A
AclNumber	The ACL number of local AP authentication.	N/A	Unsigned short. Value range: 200 to 299.	This column is unavailable when the AC uses an ACL name.
AclName	The ACL name of local AP authentication.	N/A	String, case-sensitive. Length: 1 to 64 characters.	This column is unavailable when the AC uses an ACL number. The ACL name should not be “all”.

AP/LocalAC

This table contains local-ac information.

XML structure

```
<AP>
  <LocalAC>
    <AC>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <EchoInterval></EchoInterval>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <FirmwareUpgrade></FirmwareUpgrade>
    </AC>
  </LocalAC>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	LocalAC
Table type	Multi-instance table
Row name	AC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local-ac name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Model	Local-ac model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Characters will be automatically convert case. Refer to AP/ACDB. This column is mandatory when the row is being created. This column is not writable when the row is being deleted, removed. This column should not be changed when the row is being replaced or merged.
CfgSerialID	Configured Local-ac serial ID.	N/A	String, uppercase. Length: 1 to 63 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8 Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/ContainerTopology

This table contains information about all PoE ports on the container (such as SPM and WT).

XML structure

```
<AP>
  <ContainerTopology>
    <Container>
      <ContainerName></ContainerName>
      <PoePort></PoePort>
      <PoeStatus></PoeStatus>
    </Container>
  </ContainerTopology>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ContainerTopology
Table type	Multi-instance table
Row name	Container
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContainerName	Container name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
PoePort	Port on the container	Index	Unsigned short.	See AP/APDB/.
PoeStatus	PoE port status	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/Container

This table contains information about containers.

XML structure

```
<AP>
  <Container>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgMacAddress></CfgMacAddress>
    </AP>
  </Container>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Container
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgMacAddr ess	Configured AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/WlanEnable

This table contains information about wlan enable.

XML structure

```
<AP>
  <WlanEnable>
    <Status></Status>
  </WlanEnable>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wlan status	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/APGroupModelCfg

This table contains information of AP group models configurations.

XML structure

```
<AP>
  <APGroupModelCfg>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <MapConfiguration></MapConfiguration>
    </Model>
  </APGroupModelCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupModelCfg
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
MapConfiguration	deploy a configuration file to an AP.	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

AP/VirtualManualAP

This table contains virtual manual AP information.

XML structure

```
<AP>
  <VirtualManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <EchoInterval></EchoInterval>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </AP>
  </VirtualManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Characters will be automatically convert case. Refer to AP/APDB. This column is mandatory when the row is being created. This column is not writable when the row is being deleted, removed. This column should not be changed when the row is being replaced or merged.
CfgSerialID	Configured AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
CfgMacAddress	Configured AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A

Description	The description of AP.	N/A	String, Length: 1 to 499 characters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/RadioOfVirtualManualAP

This table contains radio information of virtual manual AP.

XML structure

```
<AP>
  <RadioOfVirtualManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <CfgChannel></CfgChannel>
    </Radio>
  </RadioOfVirtualManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfVirtualManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
RateMulticast	Multicast rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgChannel	Configured channel number.	N/A	Unsigned short. The value range conforms to “AP/ChannelDB/Supported ChannelList” column. If this column is not configured, the channel number will be calculated automatically.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.

AP/VirtualAPGroup

This table contains information of virtual AP groups.

XML structure

```
<AP>
  <VirtualAPGroup>
    <Group>
      <Name></Name>
      <EchoInterval></EchoInterval>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </Group>
  </VirtualAPGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualAPGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds Default value is 10 seconds.	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable Default value is disable.	N/A
Description	The description of APGroup.	N/A	String, Length: 1 to 64 cahracters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable false—Disable	N/A

AP/VirtualAPGroupModel

This table contains information of virtual AP group models.

XML structure

```
<AP>
  <VirtualAPGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
    </Model>
  </VirtualAPGroupModel>
</AP>
```

AP/SpmIfCfg

This table contains interface information for an SPM.

XML structure

```
<AP>
  <SpmIfCfg>
    <IfCfg>
      <SpmName></SpmName>
      <IfName></IfName>
      <AdminStatus></AdminStatus>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag></HybridVlanListTag>
      <HybridVlanListUnTag></HybridVlanListUnTag>
      <Description></Description>
    </IfCfg>
  </SpmIfCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmIfCfg
Table type	Multi-instance table
Row name	IfCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: GE 1 XGE 26	N/A
AdminStatus	Interface administration status.	N/A	Enumeration: • **1**—Up (default). • **2**—Down.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkType	Link type of the interface.	N/A	Enumeration: • **1**—Access. • **2**—Trunk. • **3**—Hybrid.	N/A
AccessVlan	Access VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VLAN range.	Example: 1,2,3,5-8,10-20
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VLAN range.	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VLAN range.	Example: 1,2,3,5-8,10-20
Description	Interface description.	N/A	String. Length: 1 to 128 characters.	N/A.

AP/SpmPortPoe

This table contains PoE information for an SPM.

XML structure

```
<AP>
  <SpmPortPoe>
    <PortPoe>
      <SpmName></SpmName>
      <IfName></IfName>
      <Enable></Enable>
    </PortPoe>
  </SpmPortPoe>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmPortPoe

Item	Description
Table type	Multi-instance table
Row name	PortPoe
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: GE 1 XGE 26	N/A
Enable	PoE enabling status.	N/A	Boolean: • true—Enable. • false—Disable.	N/A.

AP/SpmPortIsolate

This table contains port isolation information for an SPM.

XML structure

```
<AP>
  <SpmPortIsolate>
    <PortIsolate>
      <SpmName></SpmName>
      <IfName></IfName>
      <IsolatedGroupID></IsolatedGroupID>
    </PortIsolate>
  </SpmPortIsolate>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	SpmPortIsolate
Table type	Multi-instance table
Row name	PortIsolate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: GE 1 XGE 26	N/A
IsolatedGroupID	Port isolation group ID.	N/A	Unsigned integer. Value: 1	Only one group ID is supported.

AP/SpmVlan

This table contains VLAN information for an SPM.

XML structure

```
<AP>
  <SpmVlan>
    <Vlan>
      <SpmName></SpmName>
      <ID></ID>
      <Description></Description>    </Vlan>
  </SpmVlan>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmVlan

Item	Description
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	Vlan description	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A

AP/APGroupIfRemoteCfg

This table contains information of AP group interface remote configuration.

XML structure

```
<AP>
  <APGroupIfRemoteCfg>
    <IfRemoteCfg>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <Type></Type>
      <Num></Num>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag ></HybridVlanListTag>
      <HybridVlanListUnTag ></HybridVlanListUnTag>
      <Isolate></Isolate>
      <QosTrust></QosTrust>
      <QosPriority ></QosPriority>
      <LinkAggGroupId></LinkAggGroupId>
      <IfManagement></IfManagement>
    </IfRemoteCfg>
```

```
  </APGroupIfRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIfRemoteCfg
Table type	Multi-instance table
Row name	IfRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Interface type.	Index	Enumeration: • 1—ethernet. • 2—gigabitethernet. • 3—ten-gigabitethernet • 4—smartrate-ethernet • 5—bridge-aggregation	
Num	Interface number.	Index	Unsigned integer.	N/A
LinkType	VLAN type of an interface.	N/A	Enumeration: • 1—Access. • 2—Trunk. • 3—Hybrid.	N/A
AccessVlan	Access vlan.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Isolate	Port isolation.	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true—Enable • false—Disable.	
QosTrust	Quality of service module trust mode.	• N/A	Enumeration. • 2 : dot1p • 4 : dscp	N/A
QosPriority	Quality of service module Priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LinkAggGroupId	Link aggregation group ID.	N/A	Unsigned integer. Value range: 1.	N/A
IfManagement	Interface management.	N/A	Boolean: • true—Up • false—Down.	N/A

AP/APGroupRemoteCfg

This table contains information of AP group remote configuration.

XML structure

```
<AP>
  <APGroupRemoteCfg>
    <RemoteCfg>
      <GroupName></GroupName>
      <VlanList></VlanList>
      <Enable></Enable>
    </RemoteCfg>
  </APGroupRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRemoteCfg
Table type	Multi-instance table
Row name	RemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
VlanLiist	VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Enable	Status of remote configuration synchronization.	N/A	Boolean: • true—Enable • false—Disable.	N/A

AP/APGroupAggRemoteCfg

This table contains information of AP group bridge aggregation remote configuration.

XML structure

```
<AP>
  <APGroupBridgeAggRemoteCfg>
    <AggRemoteCfg>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <Num></Num>
      <Mode></Mode>
    </AggRemoteCfg>
  </APGroupBridgeAggRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupBridgeAggRemoteCfg
Table type	Multi-instance table
Row name	AggRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Num	Bridge aggregation interface number.	Index	Unsigned integer. Value range: 1.	N/A
Mode	Link aggregation mode.	N/A	Enumeration. • 1 : static • 2 : dynamic	N/A

AP/APIfRemoteCfg

This table contains information of AP interface remote configuration.

XML structure

```
<AP>
  <APIfRemoteCfg>
    <IfRemoteCfg>
      <APName></APName>
      <Type></Type>
      <Num></Num>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag ></HybridVlanListTag>
      <HybridVlanListUnTag ></HybridVlanListUnTag>
      <Isolate></Isolate>
      <QosTrust></QosTrust>
      <QosPriority ></QosPriority>
      <LinkAggGroupId></LinkAggGroupId>
      <IfManagement></IfManagement>
    </IfRemoteCfg>
  </APIfRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APIfRemoteCfg
Table type	Multi-instance table
Row name	IfRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Type	Interface type.	Index	Enumeration: • 1—ethernet. • 2—gigabitethernet. • 3—ten-gigabitethernet • 4—smartrate-ethernet • 5—bridge-aggregation	
Num	Interface number.	Index	Unsigned integer.	N/A
LinkType	VLAN type of an interface.	N/A	Enumeration: • 1—Access. • 2—Trunk. • 3—Hybrid.	N/A
AccessVlan	Access vlan.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Isolate	Port isolation.	N/A	Boolean: • true—Enable • false—Disable.	N/A
QosTrust	Quality of service module trust mode.	• N/A	Enumeration. • 2 : dot1p • 4 : dscp	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QosPriority	Quality of service module Priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LinkAggGroupId	Link aggregation group ID.	N/A	Unsigned integer. Value range: 1.	N/A
IfManagement	Interface management.	N/A	Boolean: • true—Up • false—Down.	N/A

AP/APRemoteCfg

This table contains information of AP remote configuration.

XML structure

```
<AP>
  <APRemoteCfg>
    <RemoteCfg>
      <APName></APName>
      <VlanList></VlanList>
      <Enable></Enable>
    </RemoteCfg>
  </APRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APRemoteCfg
Table type	Multi-instance table
Row name	RemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
VlanLiist	VLAN list.	N/A	VlanRange	Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
				1,2,3,5-8,10-20
Enable	Status of remote configuration synchronization.	N/A	Boolean: • true—Enable • false—Disable.	N/A

AP/APAggRemoteCfg

This table contains information of AP bridge aggregation remote configuration.

XML structure

```
<AP>
  <APBridgeAggRemoteCfg>
    <AggRemoteCfg>
      <APName></APName>
      <Num></Num>
      <Mode></Mode>
    </AggRemoteCfg>
  </APBridgeAggRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APBridgeAggRemoteCfg
Table type	Multi-instance table
Row name	AggRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Num	Bridge aggregation interface number.	Index	Unsigned integer. Value range: 1.	N/A
Mode	Link aggregation mode.	N/A	Enumeration. • 1 : static • 2 : dynamic	N/A

AP/SpmMonitorCfg

This table contains configuration monitoring information.

XML structure

```
<AP>
  <SpmMonitorCfg>
    <MonitorCfg>
      <SpmName></SpmName>
      <Cpu></Cpu>
      <Memory></Memory>
      <Temperature></Temperature>
    </MonitorCfg>
  </SpmMonitorCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmMonitorCfg
Table type	Multi-instance table
Row name	MonitorCfg
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Cpu	Whether CPU monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A
Memory	Whether memory monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A
Temperature	Whether temperature monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A

Contents

AP 1

AP/APSummary 1
XML structure 1
Table description 2
Columns 2
AP/GlobalCfg 7
XML structure 7
Table description 7
Columns 8
AP/ManualAP 10
XML structure 10
Table description 11
Columns 11
AP/APRunningCfg 14
XML structure 14
Table description 14
Columns 15
AP/RunAP 16
XML structure 16
Table description 17
Columns 17
AP/APHistory 20
XML structure 20
Table description 20
Columns 21
AP/RadioOfManualAP 21
XML structure 21
Table description 22
Columns 22
AP/RadioRunningCfg 27
XML structure 27
Table description 28
Columns 28
AP/Radio11n 33
XML structure 33
Table description 34
Columns 34
AP/RadioMCS 35
XML structure 35
Table description 36
Columns 36
AP/Radio11ac 36
XML structure 36
Table description 37
Columns 37
AP/RadioVHTMCS 37
XML structure 37
Table description 38
Columns 38
AP/RadioRunningCfg11n 38
XML structure 39
Table description 39
Columns 39
AP/RadioRunningCfg11ac 41
XML structure 41
Table description 41
Columns 42

AP/RadioOfRunAP ····· 42
XML structure ····· 42
Table description ····· 43
Columns ····· 43
AP/PrvsOfManualAP ····· 45
XML structure ····· 45
Table description ····· 46
Columns ····· 46
AP/PrvsOfManualAPACIPv4 ····· 47
XML structure ····· 47
Table description ····· 48
Columns ····· 48
AP/PrvsOfManualAPACIPv6 ····· 48
XML structure ····· 48
Table description ····· 48
Columns ····· 49
AP/APDB ····· 49
XML structure ····· 49
Table description ····· 49
Columns ····· 50
AP/APDBVersion ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 51
AP/RadioDB ····· 51
XML structure ····· 51
Table description ····· 52
Columns ····· 52
AP/RegionDB ····· 55
XML structure ····· 55
Table description ····· 55
Columns ····· 55
AP/AntennaDB ····· 56
XML structure ····· 56
Table description ····· 56
Columns ····· 56
AP/ChannelTypeMap ····· 57
XML structure ····· 57
Table description ····· 57
Columns ····· 57
AP/PowerIndex ····· 60
XML structure ····· 60
Table description ····· 60
Columns ····· 61
AP/ChannelDB ····· 62
XML structure ····· 62
Table description ····· 63
Columns ····· 63
AP/PowerDB ····· 65
XML structure ····· 65
Table description ····· 65
Columns ····· 66
AP/ChannelReport ····· 68
XML structure ····· 68
Table description ····· 69
Columns ····· 69
AP/NeighborAPReport ····· 70
XML structure ····· 70
Table description ····· 70
Columns ····· 71
AP/EdcaRadio ····· 71
XML structure ····· 71

Table description 72
Columns 72
AP/RadioWmm 73
XML structure 73
Table description 73
Columns 74
AP/APGroup 74
XML structure 74
Table description 75
Columns 75
AP/APGroupMACRule 77
XML structure 77
Table description 77
Columns 78
AP/APGroupSerialIDRule 78
XML structure 78
Table description 78
Columns 78
AP/APGroupNameRule 79
XML structure 79
Table description 79
Columns 79
AP/APGroupIPv4Rule 79
XML structure 79
Table description 80
Columns 80
AP/APGroupIPv6Rule 80
XML structure 80
Table description 81
Columns 81
AP/APGroupModel 81
XML structure 81
Table description 81
Columns 82
AP/APGroupRadio 82
XML structure 82
Table description 83
Columns 83
AP/APGroupRadio11n 88
XML structure 88
Table description 88
Columns 88
AP/APGroupRadioMCS 90
XML structure 90
Table description 90
Columns 90
AP/APGroupRadio11ac 91
XML structure 91
Table description 91
Columns 92
AP/APGroupRadioVHTMCS 92
XML structure 92
Table description 92
Columns 93
AP/APGroupPrvs 93
XML structure 93
Table description 94
Columns 94
AP/APGroupPrvsACIPv4 94
XML structure 95
Table description 95
Columns 95

AP/APGroupPrvsACIPv6 ····· 95
XML structure ····· 95
Table description ····· 96
Columns ····· 96
AP/APListOfGroup ····· 96
XML structure ····· 96
Table description ····· 96
Columns ····· 97
AP/Location ····· 97
XML structure ····· 97
Table description ····· 97
Columns ····· 97
AP/APAuthentication ····· 98
XML structure ····· 98
Table description ····· 98
Columns ····· 98
AP/HistorySummary ····· 99
XML structure ····· 99
Table description ····· 99
Columns ····· 100
AP/AllAP ····· 100
XML structure ····· 101
Table description ····· 101
Columns ····· 101
AP/LocalACDB ····· 102
XML structure ····· 102
Table description ····· 103
Columns ····· 103
AP/LocalAC ····· 103
XML structure ····· 103
Table description ····· 104
Columns ····· 104
AP/ContainerTopology ····· 105
XML structure ····· 105
Table description ····· 105
Columns ····· 105
AP/Container ····· 106
XML structure ····· 106
Table description ····· 106
Columns ····· 107
AP/WlanEnable ····· 107
XML structure ····· 107
Table description ····· 108
Columns ····· 108
AP/ImageStatus ····· 108
XML structure ····· 108
Table description ····· 108
Columns ····· 109
AP/RadioAutoDisable ····· 109
XML structure ····· 109
Table description ····· 109
AP/APGroupModelCfg ····· 110
XML structure ····· 110
Table description ····· 110
Columns ····· 110
AP/InterfaceOfAP ····· 110
XML structure ····· 111
Table description ····· 111
Columns ····· 111
AP/AllAPFast ····· 112
XML structure ····· 112
Table description ····· 112

Columns 113
AP/VirtualManualAP 114
XML structure 114
Table description 115
Columns 115
AP/RadioOfVirtualManualAP 116
XML structure 116
Table description 117
Columns 117
AP/VirtualAPGroup 119
XML structure 119
Table description 120
Columns 120
AP/VirtualAPGroupModel 121
XML structure 121
Table description 121
Columns 121
AP/VirtualAPGroupRadio 122
XML structure 122
Table description 122
Columns 122
AP/SpmIfCfg 125
XML structure 125
Table description 126
Columns 126
AP/SpmPortPoe 127
XML structure 127
Table description 127
Columns 128
AP/SpmPortIsolate 128
XML structure 128
Table description 129
Columns 129
AP/SpmIfBoard 129
XML structure 129
Table description 130
Columns 130
AP/SpmVlan 130
XML structure 130
Table description 131
Columns 131
AP/SpmIfStatistics 131
XML structure 131
Table description 132
Columns 132
AP/APGroupIfRemoteCfg 133
XML structure 134
Table description 134
Columns 134
AP/APGroupRemoteCfg 136
XML structure 136
Table description 136
Columns 136
AP/APGroupAggRemoteCfg 136
XML structure 137
Table description 137
Columns 137
AP/APIfRemoteCfg 137
XML structure 138
Table description 138
Columns 138
AP/APRemoteCfg 140

XML structure 140
Table description 140
Columns 140
AP/APAggRemoteCfg 140
XML structure 141
Table description 141
Columns 141
AP/SpmLLDP 141
XML structure 141
Table description 142
Columns 142
AP/SpmMonitorCfg 143
XML structure 143
Table description 143
Columns 143
AP/SpmMonitorData 144
XML structure 144
Table description 144
Columns 144

AP

AP/APSummary

This table contains AP global statistics.

XML structure

```
<AP>
  <APSummary>
    <ManualApNum></ManualApNum>
    <RunApNum></RunApNum>
    <OfflineApNum></OfflineApNum>
    <UnhealthyApNum></UnhealthyApNum>
    <ApGroupNum></ApGroupNum>
    <LocationNum></LocationNum>
    <NorthIfOutPkt></NorthIfOutPkt>
    <NorthIfOutByte></NorthIfOutByte>
    <NorthIfInPkt></NorthIfInPkt>
    <NorthIfInByte></NorthIfInByte>
    <Is5gRadioNum></Is5gRadioNum>
    <Is2gRadioNum></Is2gRadioNum>
    <AccessModeNum></AccessModeNum>
    <SensorModeNum></SensorModeNum>
    <HybirdModeNum></HybirdModeNum>
    <ChannelBusyLower10PctNum></ChannelBusy10PctNum>
    <ChannelBusy10PctNum></ChannelBusy10PctNum>
    <ChannelBusy20PctNum></ChannelBusy20PctNum>
    <ChannelBusy30PctNum></ChannelBusy30PctNum>
    <ChannelBusy40PctNum></ChannelBusy40PctNum>
    <ChannelBusy50PctNum></ChannelBusy50PctNum>
    <ChannelBusy60PctNum></ChannelBusy60PctNum>
    <ChannelBusy70PctNum></ChannelBusy70PctNum>
    <ChannelBusy80PctNum></ChannelBusy80PctNum>
    <ChannelBusy90PctNum></ChannelBusy90PctNum>
    <NoiseFloorLower105Num></NoiseFloorLower105Num>
    <NoiseFloor100Num></NoiseFloor100Num>
    <NoiseFloor95Num></NoiseFloor95Num>
    <NoiseFloor90Num></NoiseFloor90Num>
    <NoiseFloor85Num></NoiseFloor85Num>
    <NoiseFloor80Num></NoiseFloor80Num>
    <NoiseFloor75Num></NoiseFloor75Num>
    <NoiseFloor70Num></NoiseFloor70Num>
    <NoiseFloorUpper70Num></NoiseFloorUpper70Num>
    <Dot11InterfLower10PctNum></Dot11InterfLower10PctNum>
    <Dot11Interf10PctNum></Dot11Interf10PctNum>
    <Dot11Interf20PctNum></Dot11Interf20PctNum>
```

```
    <Dot11Interf30PctNum></Dot11Interf30PctNum>
    <Dot11Interf40PctNum></Dot11Interf40PctNum>
    <Dot11Interf50PctNum></Dot11Interf50PctNum>
    <Dot11Interf60PctNum></Dot11Interf60PctNum>
    <Dot11Interf70PctNum></Dot11Interf70PctNum>
    <Dot11Interf80PctNum></Dot11Interf80PctNum>
    <Dot11Interf90PctNum></Dot11Interf90PctNum>
    <NonDot11InterfLower10PctNum></NoneDot11InterfLower10PctNum>
    <NonDot11Interf10PctNum></NonDot11Interf10PctNum>
    <NonDot11Interf20PctNum></NonDot11Interf20PctNum>
    <NonDot11Interf30PctNum></NonDot11Interf30PctNum>
    <NonDot11Interf40PctNum></NonDot11Interf40PctNum>
    <NonDot11Interf50PctNum></NonDot11Interf50PctNum>
    <NonDot11Interf60PctNum></NonDot11Interf60PctNum>
    <NonDot11Interf70PctNum></NonDot11Interf70PctNum>
    <NonDot11Interf80PctNum></NonDot11Interf80PctNum>
    <NonDot11Interf90PctNum></NonDot11Interf90PctNum>
    <RunSPMNum></RunSPMNum>
    <OfflineSPMNum></OfflineSPMNum>
    <MaxRunApNum></MaxRunApNum>
    <MaxPersistentApNum></MaxPersistentApNum>  </APSummary>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APSummary
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ManualApNum	Number of manual APs	N/A	Unsigned integer. Value range: 0 to 65535.
RunApNum	Number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.
OfflineApNum	Number of offline APs	N/A	Unsigned integer. Value range: 0 to 65535.
UnhealthyApNum	Number of Unhealthy APs	N/A	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
ApGroupNum	Number of AP groups	N/A	Unsigned integer. Value range: 0 to 65535.
LocationNum	Number of locations	N/A	Unsigned integer. Value range: 0 to 65535.
NorthIfOutPkt	Packets count of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfOutByte	Throughput statistics of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInPkt	Packets count of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInByte	Throughput statistics of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
Is5gRadioNum	Number of radios which is 5GHz.	N/A	Unsigned integer. Value range: 0 to 4294967295.
Is2.4gRadioNum	Number of radios which is 2.4GHz.	N/A	Unsigned integer. Value range: 0 to 4294967295.
AccessModeNum	Number of radios in access mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.
SensorModeNum	Number of radios in sensor mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.
HybirdModeNum	Number of radios in hybird mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusyLower10PctNum	Number of radios which channel busy is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy10PctNum	Number of radios which channel busy is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy20PctNum	Number of radios which channel busy is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy30PctNum	Number of radios which channel busy is between 30% and	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
	40%		
ChannelBusy40PctNum	Number of radios which channel busy is between 40% and 50%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy50PctNum	Number of radios which channel busy is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy60PctNum	Number of radios which channel busy is between 60% and 70%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy70PctNum	Number of radios which channel busy is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy80PctNum	Number of radios which channel busy is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy90PctNum	Number of radios which channel busy is upper than 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloorLower105Num	Number of radios which noise floor is lower than 105dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor100Num	Number of radios which noise floor is between 100dbm and 105dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor95Num	Number of radios which noise floor is between 95dbm and 100dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor90Num	Number of radios which noise floor is between 90dbm and 95dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor85Num	Number of radios which noise floor is between 85dbm and 90dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor80Num	Number of radios which noise floor is between 80dbm and 85dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor75Num	Number of radios which noise floor is between 75dbm and 80dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
NoiseFloor70Num	Number of radios which noise floor is between 70dbm and 75dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloorUpper70Num	Number of radios which noise floor is upper than 70dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11InterfLower10PctNum	Number of radios which 802.11 interference is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf10PctNum	Number of radios which 802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf20PctNum	Number of radios which 802.11 interference is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf30PctNum	Number of radios which 802.11 interference is between 30% and 40%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf40PctNum	Number of radios which 802.11 interference is between 40% and 50%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf50PctNum	Number of radios which 802.11 interference is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf60PctNum	Number of radios which802.11 interference is between 60% and 70%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf70PctNum	Number of radios which802.11 interference is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf80PctNum	Number of radios which802.11 interference is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf90PctNum	Number of radios which802.11 interference is upper	N/A	Unsigned integer. Value range: 0 to

Column name	Column description	Column type	Data type and restrictions
	than 90%		4294967295.
NonDot11InterfLower10PctNum	Number of radios which non-802.11 interference is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf10PctNum	Number of radios which non-802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf20PctNum	Number of radios which non-802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf30PctNum	Number of radios which non-802.11 interference is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf40PctNum	Number of radios which non-802.11 interference is between 30% and 40%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf50PctNum	Number of radios which non-802.11 interference is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf60PctNum	Number of radios which non-802.11 interference is between 60% and 70%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf70PctNum	Number of radios which non-802.11 interference is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf80PctNum	Number of radios which non-802.11 interference is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf90PctNum	Number of radios which non-802.11 interference is upper than 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
RunSPMNum	Number of running SPMs	N/A	Unsigned integer. Value range: 0 to 65535.
OfflineSPMNum	Number of offline SPMs	N/A	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
MaxRunApNum	Max number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.
MaxPersistentApNum	Max number of persistent APs	N/A	Unsigned integer. Value range: 0 to 65535.

AP/GlobalCfg

This table contains the informations of global.

XML structure

```
<AP>
  <GlobalCfg>
    <AutoAp></AutoAp>
    <AutoPersistent></AutoPersistent>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Priority></Priority>
    <Preempt></Preempt>
    <EchoInterval></EchoInterval>
    <EchoCount></EchoCount>
    <RetransInterval></RetransInterval>
    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <TunnelEncryption></TunnelEncryption>
    <MainAPName></MainAPName>
    <Gps></Gps>
    <LocalAC></LocalAC>
    <CentralACIPv4></CentralACIPv4>
    <CentralACIPv6></CentralACIPv6>
    <ContralAddress></ContralAddress>
    <ControlAddressIPv4></ControlAddressIPv4>
    <ControlAddressIPv6></ControlAddressIPv6>
    <VirtualAp></VirtualAp>
  </GlobalCfg>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoAp	Whether an AP can connect the AC without creating a manual AP.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
AutoPersistent	When an auto AP connects the AC , whether convert the AP to manual AP automatically.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 stantard.
RegionLock	Whether the region code of the AC is locked.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds.	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true: Enable • false: Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
MainAPName	AP name.	N/A	String, case-sensitive. Length: 1 to 64 characters.	Only for FatAP Type.
Gps	Gps.	N/A	Boolean: • true—Support. • false—Not support.	Only for FatAP Type
LocalAC	Whether to enable Local ac.	N/A	Boolean: • true—Enable. • false—Disable.	Only for Local-ac Type
CentralACIPv4	The IPv4 Central AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only for Local-ac Type
CentralACIPv6	The IPv6 Central AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Only for Local-ac Type
ControlAddress	CAPWAP control address configuration.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualAp	Whether an AP can creat a virtual AP.	N/A	Boolean: • true—Support. • false—Not support. Default value is false.	N/A

AP/ManualAP

This table contains information of manual AP.

XML structure

```
<AP>
  <ManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <RadioNum></RadioNum>
      <Status></Status>
      <GroupName></GroupName>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
      <OfflineTime></OfflineTime>
      <OfflineMoment></OfflineMoment>
      <ControlAddress></ControlAddress>
      <ControlAddressIPv4></ControlAddressIPv4>
      <ControlAddressIPv6></ControlAddressIPv6>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
      <ModelType></ModelType>
      <LedMode></LedMode>
```

```
      <MapConfiguration></MapConfiguration>
      <VirtualAC>
        <VirtualACIPv4></VirtualACIPv4>
        <VirtualACIPv6></VirtualACIPv6>
        <Vlan></Vlan>
      </VirtualAC>
    </AP>
  </ManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgSerialID	Configured AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
CfgMacAddress	Configured AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
RadioNum	Number of the radio.	N/A	Unsigned short. Value range: 1 to 4.	N/A
Status	AP associated status.	N/A	Enumeration: • 1—Online • 2—Offline • 3—Image downloading	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 stantard.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: • true—Support. • false—Not support.	N/A
Priority	AP connection priority.	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 3 to 255.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8. Unit: seconds.	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds.	N/A
StatisInterval	RetransCount	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	The description of AP.	N/A	String, Length: 1 to 499 cahracters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
OfflineTime	The time since the AP online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
OfflineMoment	The time of the AP offline in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T09:35:07
ControlAddress	CAPWAP control address configuration	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ModelType	Model type	N/A	Enumeration: • 1—Normal. • 2—WT. • 3—WTU.	When the value is 3, some commands can not be configurated.
LedMode	LED mode	N/A	Enumeration: • 0—Normal. • 1—Quiet. • 2—Awake. • 3—Always-on.	N/A
MapConfiguration	AP Configuration file name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
VirtualAC	VirtualAC info	Data structure	Members include: • VirtualACIPv4 • VirtualACIPv6 Vlan	N/A
VirtualACIP	The IPv4 virtual	N/A	String, dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
v4	AC address.		notation.	
VirtualACIPv6	The IPv6 virtual AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Vlan	VLAN	N/A	Unsinged integer. Value range: 1 to 4094.	N/A

AP/APRunningCfg

This table contains information of AP running configurations.

XML structure

```
<AP>
  <APRunningCfg>
    <AP>
      <Name></Name>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </AP>
  </APRunningCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APRunningCfg
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 stantard.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: • true—Support. • false—Not support.	N/A
Priority	AP connection priority.	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 3 to 255.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8. Unit: seconds.	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds.	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of AP.	N/A	String, Length: 1 to 499 cahracters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/RunAP

This table contains the information of the running AP.

XML structure

```
<AP>
  <RunAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <SerialID></SerialID>
      <Type></Type>
      <MacAddress></MacAddress>
      <RadioNum></RadioNum>
      <Status></Status>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <Ipv4WildMask></Ipv4WildMask>
      <Ipv6Wildcard></Ipv6Wildcard>
      <GateWayIpv4></GateWayIpv4>
      <GateWayIpv6></GateWayIpv6>
      <PortNumber></PortNumber>
      <GroupName></GroupName>
      <OnlineTime></OnlineTime>
      <HWVer><HWVer>
      <SWVer><SWVer>
      <BWVer><BWVer>
      <TransCtrlPkt></TransCtrlPkt>
      <RecvCtrlPkt></RecvCtrlPkt>
      <TransDataPkt></TransDataPkt>
      <RecvDataPkt></RecvDataPkt>
      <EchoReqCnt></EchoReqCnt>
```

```
      <EchoRespLossCnt></EchoRespLossCnt>
      <DiscoveryType></DiscoveryType>
      <ConfigFailCnt></ConfigFailCnt>
      <LastFailReason></LastFailReason>
      <LastRebootReason></LastRebootReason>
      <TunnelDownReason></TunnelDownReason>
      <ConnectionType></ConnectionType>
      <PeerACIPv4Address><PeerACIPv4Address>
      <PeerACIPv6Address><PeerACIPv6Address>
      <LocationName></LocationName>
      <AuthenticatedFlag></AuthenticatedFlag>
      <LocalACName><LocalACName>
      <CtrlTunnelCurrSec></CtrlTunnelCurrSec>
      <DataTunnelCurrSec></DataTunnelCurrSec>
      <CtrlTunnelUpTimeTicks></CtrlTunnelUpTimeTicks>
    </AP>
  </RunAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RunAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SerialID	AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
Type	AP type.	N/A	Enumeration: • 1—auto • 2—manual	N/A
MacAddress	AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioNum	Number of the radio.	N/A	Unsigned short. Value range: 1 to 4.	N/A
Status	AP associated status.	N/A	Enumeration: • 1—Online • 3—Image downloading	N/A
Ipv4Address	AP IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
Ipv6Address	AP IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
Ipv4WildMask	Wildcard mask for the IPv4 address of AP.	N/A	String, dotted decimal notation.	Example: 255.255.255.0.
Ipv6Wildcard	Length of the source AP IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	
GateWayIpv4	AP gateway IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
GateWayIpv6	AP gateway IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
PortNumber	AP port number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
OnlineTime	AP online duration.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
HWVer	The version of AP hardware.	N/A	Enumeration: • 1—Ver.A • 2—Ver.B • 3—Ver.C • 4—Ver.D • 5—Ver.E	N/A
SWVer	The version of AP software.	N/A	String. Length: 1 to 31 characters.	N/A
BWVer	The version of AP	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bootrom.		Length: 1 to 31 characters.	
TransCtrlPkt	Count of transmitted control packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RecvCtrlPkt	Count of received control packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
TransDataPkt	Count of transmitted data packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RecvDataPkt	Count of received data packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EchoReqCnt	Count of echo request packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EchoRespLossCnt	Count of lost echo response packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DiscoveryType	By which type the AP find the AC.	N/A	Enumeration: • 1—Unknown • 2—DHCP • 3—Static Configuration • 4—DNS	N/A
ConfigFailCnt	Count of failed Configuration.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LastFailReason	The cause of synchronizing configurations to the AP failed in last time.	N/A	String. Length: 1 to 31 characters.	N/A
LastRebootReason	The cause of the AP rebooting in last time.	N/A	String. Length: 1 to 31 characters.	N/A
TunnelDownReason	The cause of the tunnel down in last time.	N/A	String. Length: 1 to 31 characters.	N/A
ConnectionType	The connection type of tunnel.	N/A	Enumeration: • 1—Active • 2—Standby	N/A
PeerACIPv4Address	The IPv4 address of peer AC that AP is connecting to.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerACIPv6 Address	The IPv6 address of peer AC that AP is connecting to.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
AuthenticatedFlag	Whether the auto-ap is authenticated.	N/A	Boolean: • Enable • Disable	When AP type is manual AP, this column is invalid.
LocalACName	Local-ac name.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
CtrlTunnelCurrSec	Control tunnel current security	N/A	Enumeration: • 1—Cleartxt • 2—Dtls	N/A
DataTunnelCurrSec	Data tunnel current security	N/A	Enumeration: • 1—Cleartxt • 2—Dtls	N/A
CtrlTunnelUpTimeTicks	Control tunnel uptime ticks	N/A	Unsigned integer.	N/A

AP/APHistory

This table contains the information of the AP history.

XML structure

```
<AP>
  <APHistory>
    <AP>
      <Name></Name>
      <LatestIPV4Address></LatestIPV4Address>
      <LatestIPV6Address></LatestIPV6Address>
      <ConnectCnt></ConnectCnt>
    </AP>
  </APHistory>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APHistory

Item	Description
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
LatestIPV4Address	The latest IPv4 address that AP used.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
LatestIPV6Address	The latest IPv6 address that AP used.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
ConnectCnt	The count that the AP connected the AC.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

AP/RadioOfManualAP

This table contains radio information of manual AP.

XML structure

```
<AP>
  <RadioOfManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11GAC></SupportDot11GAC>
      <SupportDot11AC></SupportDot11AC>
      <SupportDot11AX></ SupportDot11AX>
      <SupportDot11GAX></SupportDot11GAX>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
```

```
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <ChannelAutoLock></ChannelAutoLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
      <ProtectionMode></ProtectionMode>
      <ValidChannelNum></ValidChannelNum>
      <ValidChannelList></ValidChannelList>
      <TimeRangeName></TimeRangeName>
      <CfgAntennaType></CfgAntennaType>
    </Radio>
  </RadioOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AX	Whether a radio supports 802.11ax(5GHz) radio mode	N/A	Boolean: • true—Support. false—Not support.	N/A
SupportDot11GAX	Whether a radio supports 802.11ax(2.4GHz) radio mode	N/A	Boolean: • true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
Status	Radio status.	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
RateMulticast	Multicast.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preamble	Preamble.	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time.	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power.	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
Distance	The distance that Radio can cover.	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration time.	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold.	N/A	Unsigned short. The value range is 256~2346.And the value must be an even number. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	ProtectionThreshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	ShortRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number.	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList” column. And 15 –auto lock、16-auto unlock.	When the value is 15, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgMaxPower	Configured maximum power.	N/A	Unsigned short. Value range: 1 to “AP/PowerDB/ValidMaxPower”. Unit: dBm	N/A
ProtectionMode	Protection mode.	N/A	Enumeration: • 1—Rts/Cts. • 2—Cts To Self	N/A
ValidChannelNum	Number of the valid channels	N/A	Unsigned integer. Value range: 0 to 32.	N/A
ValidChannelList	a list of the valid channels.	N/A	Number string. It is a comma-separated list of valid channels. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2,3,4,5,6,7,8,9,10,11
TimeRangeName	The name of time range.	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
CfgAntennaType	Configured Antenna Type	N/A	String, case-sensitive. Length: 1 to 64 characters	N/A

AP/RadioRunningCfg

This table contains radio information of radio running configurations.

XML structure

```
<AP>
  <RadioRunningCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></ SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11GAC></SupportDot11GAC>
      <SupportDot11AC></SupportDot11AC>
      <SupportDot11AX></SupportDot11AX>
      <SupportDot11GAX></SupportDot11GAX>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
```

```
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
    </Radio>
  </RadioRunningCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioRunningCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AX	Whether a radio supports 802.11ax(5GHz) radio mode	N/A	Boolean: • true—Support. false—Not support.	N/A
SupportDot11GAX	Whether a radio supports 802.11ax(2.4GHz) radio mode	N/A	Boolean: • true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
Status	Radio status.	N/A	Enumeration: • Disable • Enable	N/A
RateMulticast	Multicast rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preamble	Preamble.	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time.	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power.	N/A	Enumeration: • Disable • Enable	N/A
	~~Lock the channel~~		~~Boolean:~~ ~~• true—ChanneAutoLock.~~ ~~• false—ChanneAutoUnLock.~~ ~~The default value is true.~~	~~When the value is true, the radio automatically selects an optimal channel, and then locks the channel.~~ ~~When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.~~
Distance	The distance that Radio can cover.	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration time.	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold.	N/A	Unsigned short. The value range is 256~2346. And the value must be an even number. Unit: byte.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LongRetryThreshold	LongRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	ProtectionThreshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	ShortRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number.	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList" column. And 15 －auto lock、16-auto unlock.	When the value is 15, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
CfgMaxPower	Configured maximum power.	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/Radio11n

This table contains radio 802.11n information.

XML structure

```
<AP>
  <Radio11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <MimoMode></MimoMode>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
```

```
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></ BandwidthAutoswitch >
    </Dot11n>
  </Radio11n>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Radio11n
Table type	Multi-instance table
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Ampdu	A-mpdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Amsdu	A-msdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ShortGI	Short GI function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Stbc	STBC function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Ldpc	LDPC function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MimoMode	MIMO mode.	N/A	Enumeration: • 17—1×1. • 34—2×2. • 51—3×3. • 68—4×4. • 85—5×5. • 102—6×6. • 119—7×7. • 136—8×8.	N/A
Greenap	Green AP function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SmartAntenna	Smart antenna function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: • 1: Auto • 2: High-availability • 3: High-throughput	Effective only when SmartAntenna is enabled.
Client11nOnly	Client dot11n only function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: • true—Enable. • false—Disable. The column is only for 2.4GHz radio mode, and AP/RadioOfManualAP/Bandwidth must be 2..	N/A

AP/RadioMCS

This table contains MCS information of AP radios.

XML structure

```
<AP>
  <RadioMCS>
    <MCS>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
    <MCS>
```

```
  </RadioMCS >
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSSupported must be greater than or equal to the MCSMandatory.

AP/Radio11ac

This table contains radio 802.11ac information.

XML structure

```
<AP>
  <Radio11ac>
```

```
    <Dot11ac>
      <ApName></ApName>
      <RadioID></RadioID>
      <Client11acOnly></Client11acOnly>
    </Dot11ac>
  </Radio11ac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Radio11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Client11acOnly	Client dot11ac only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/RadioVHTMCS

This table contains VHTMCS information of AP radios.

XML structure

```
<AP>
  <RadioVHTMCS>
    <VHTMCS>
      <ApName></ApName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
```

```
      <VHTMCSIndex></VHTMCSIndex>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
    </VHTMCS>
  </RadioVHTMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioVHTMCS
Table type	Multi-instance table
Row name	VHTMCS
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSIndex	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255.	N/A
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.

AP/RadioRunningCfg11n

This table contains radio 802.11n information of radio running configurations.

XML structure

```
<AP>
  <RadioRunningCfg11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <MimoMode></MimoMode>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Protection></Protection>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></BandwidthAutoswitch >
    </Dot11n>
  </RadioRunningCfg11n>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioRunningCfg11n
Table type	Multi-instance table
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Stbc	STBC function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
MimoMode	MIMO mode.	N/A	Enumeration: • 17—1×1. • 34—2×2. • 51—3×3. • 68—4×4. • 85—5×5. • 102—6×6. • 119—7×7. • 136—8×8.	N/A
Greenap	Green AP function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartAntenna	Smart antenna function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: • 1: Auto • 2: High-availability • 3: High-throughput	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: • true—Enable. • false—Disable. The column is only for 2.4GHz radio mode, and AP/ RadioRunningCfg/ Bandwidth must be 2..	N/A

AP/RadioRunningCfg11ac

This table contains radio 802.11ac information of radio running configurations.

XML structure

```
<AP>
  <RadioRunningCfg11ac>
    <Dot11ac>
      <ApName></ApName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSMulticast></VHTMCSMulticast>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
      <Client11acOnly></Client11acOnly>
    </Dot11ac>
  </RadioRunningCfg11ac>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	RadioRunningCfg11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255.	N/A
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/RadioOfRunAP

This table contains radio information of running AP.

XML structure

```
<AP>
  <RadioOfRunAP>
```

```
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Status></Status>
      <Channel></Channel>
      <SecondaryOffSet></SecondaryOffSet>
      <MaxPower></MaxPower>
      <BasicBSSID></BasicBSSID>
      <TxPower></TxPower>
      <NoiseFloor></NoiseFloor>
      <ChannelBusy></ChannelBusy>
      <ChannelTxBusy></ChannelTxBusy>
      <ChannelRxBusy></ChannelRxBusy>
      <ExtChannelBusy></ExtChannelBusy>
      <RetryRatio></RetryRatio>
      <InterfRadioCnt></InterfRadioCnt>
      <AdjChlInterfRadioCnt></AdjChlInterfRadioCnt>
      <OtherInterfBssCnt></OtherInterfBssCnt>
      <OtherAdjChlInterfBssCnt></OtherAdjChlInterfBssCnt>
    </Radio>
  </RadioOfRunAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfRunAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Status	Radio status.	N/A	Enumeration: • enable • disable	N/A
Channel	Channel number.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type and region code.	N/A
SecondaryOffSet	Secondary channel offset.	N/A	Enumeration: • 0: None • 1: Above • 2: Below	N/A
MaxPower	Maximum power.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type, channel number and region code. Unit: dBm	N/A
BasicBSSID	Basic BSSID.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TxPower	Tx power.	N/A	Unsigned short.	N/A
NoiseFloor	Noise floor.	N/A	String, Length: 1 to 7 characters.	N/A
ChannelBusy	Channel usage.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelTxBusy	Channel Tx usage	N/A	Unsigned short.	N/A
ChannelRxBusy	Channel Rx usage	N/A	Unsigned short.	N/A
ExtChannelBusy	External Channel usage	N/A	Unsigned short.	N/A
RetryRatio	Frame Retry Ratio	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
InterfRadioCnt	Interruption radio count with same channel in the intranet.	N/A	Unsigned short	N/A
AdjChlInterfRadioCnt	Interruption radio count with adjacent channel in the intranet.	N/A	Unsigned short	N/A
OtherInterfBssCnt	Interruption BSS count with same channel out of the intranet.	N/A	Unsigned short	N/A
OtherAdjChlInterfBssCnt	Interruption BSS count with adjacent channel out of the intranet.	N/A	Unsigned short	N/A

AP/PrvsOfManualAP

This table contains provision information of manual AP.

XML structure

```
<AP>
  <PrvsOfManualAP>
    <Prvs>
      <ApName></ApName>
      <ACHostName></ACHostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
      <GatewayIPv4></GatewayIPv4>
      <GatewayIPv6></GatewayIPv6>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Dot1xSupplAnonyIdent></Dot1xSupplAnonyIdent>
```

```
      <Dot1xSupplEapMethod></Dot1xSupplEapMethod>
      <Dot1xSupplEnable></Dot1xSupplEnable>
      <Dot1xSupplPasswdCiper></Dot1xSupplPasswdCiper>
      <Dot1xSupplPasswdSimple></Dot1xSupplPasswdSimple>
      <Dot1xSupplUsername></Dot1xSupplUsername>
    </Prvs>
  </PrvsOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAP
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1,1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
GatewayIPv4	Specify a gateway by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
GatewayIPv6	Specify a gateway by its IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
IPv4Address	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Address	Specify an IPv6 address that the AP uses to establish a CAPWAP tunnel.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Dot1xSupplAnonyIdent	Specify an anonymous identifier for the supplicant.	N/A	String. Length: 1 to 253 characters.	N/A
Dot1xSupplEapMethod	Specify an EAP authentication method.	N/A	Enumeration: • 1—md5 • 2—peap-gtc • 3—peap-mschapv2 • 4—ttls-gtc • 5—ttls-mschapv2	N/A
Dot1xSupplEnable	Enable the 802.1X supplicant feature.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Dot1xSupplPasswdCipher	Specify a ciphertext password for the 802.1X supplicant.	N/A	String. Length: 1 to 201 characters.	N/A
Dot1xSupplPasswdSimple	Specify a plaintext password for the 802.1X supplicant.	N/A	String. Length: 1 to 127 characters.	N/A
Dot1xSupplUsername	Specify a username for the 802.1X supplicant.	N/A	String. Length: 1 to 253 characters.	N/A

AP/PrvsOfManualAPACIPv4

This table contains provision information of manual AP of IPv4 address.

XML structure

```
<AP>
  <PrvsOfManualAPACIPv4>
    <Prvs>
      <ApName></ApName>
      <ACIPv4></ACIPv4>
```

```
    </Prvs>
  </PrvsOfManualAPACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/PrvsOfManualAPACIPv6

This table contains provision information of manual AP of IPv6 address.

XML structure

```
<AP>
  <PrvsOfManualAPACIPv6>
    <Prvs>
      <ApName></ApName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </PrvsOfManualAPACIPv6>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv6

Item	Description
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

AP/APDB

This table contains AP model information.

XML structure

```
<AP>
  <APDB>
    <Model>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
      <DefaultRegionCode></DefaultRegionCode>
      <StartPoePort></StartPoePort>
      <EndPoePort></EndPoePort>
      <ModelType></ModelType>
    </Model>
  </APDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APDB
Table type	Multi-instance table
Row name	Model

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioNum	Radio's number of AP model	N/A	Unsigned short. Value range: 1 to 4.	N/A
DefaultRegionCode	Default region code of AP model.	N/A	Unsigned short.	Conform to ISO 3166 stantard.
StartPoePort	Start PoE port.	N/A	Unsigned char.	N/A
EndPoePort	End PoE port.	N/A	Unsigned char.	N/A
ModelType	Model type.	N/A	Enumeration: • 1—Normal • 2—WT • 3—WTU	When the value is 3, some command can not be configurated.

AP/APDBVersion

This table contains apdb version of AP model.

XML structure

```
<AP>
  <APDBVersion>
    <Model>
      <ModelName></ModelName>
      <HardwareVersion></HardwareVersion>
      <SoftwareVersion></SoftwareVersion>
    </Model>
  </APDBVersion>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APDBVersion
Table type	Multi-instance table
Row name	Model

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name.	Index	String, uppercase. Length: 1 to 63 characters.	Refer to APDB/ModelName.
HardwareVersion	The version of Hardware.	Index	Enumeration: • 1—Ver.A • 2—Ver.B • 3—Ver.C • 4—Ver.D • 5—Ver.E • 6—Ver.F	N/A
SoftwareVersion	The version of Software.	N/A	String Length:1 to 31.	N/A

AP/RadioDB

This table contains radio information of AP model.

XML structure

```
<AP>
  <RadioDB>
    <Radio>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <DefaultRadioMode></DefaultRadioMode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11GAC></SupportDot11GAC>
      <SupportDot11AC></SupportDot11AC>
      <Spectrum></Spectrum>
      <DefaultAntennaType></DefaultAntennaType>
      <Aifsn></Aifsn>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <TxOpLimit></TxOpLimit>
      <SupportBandwidth></SupportBandwidth>
```

```
      <SupportMCS></SupportMCS>
      <SupportVHTMCS></SupportVHTMCS>
      <ShortGI20M></ShortGI20M>
      <ShortGI40M></ShortGI40M>
      <ShortGI80M></ShortGI80M>
      <ShortGI160M></ShortGI160M>
      <SUBeamformer></SUBeamformer>
      <MUBeamformer></MUBeamformer>
      <Ldpc></Ldpc>
      <TxStbc></TxStbc>
      <RxStbc></RxStbc>
      <VHTLdpc></VHTLdpc>
      <VHTTxStbc></VHTTxStbc>
      <VHTRxStbc></VHTRxStbc>
    </Radio>
  </RadioDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioDB
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name.	Index	String, uppercase. Length: 1 to 63 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
DefaultRadioMode	Default radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
DefaultAnteannaType	Default antenna type of radio.	N/A	String, case-insensitive. Length: 1 to 80 characters.	N/A
Aifsn	ArbitrationInter Frame Spacing Number	N/A	Unsigned integer. Value range is 1 to 15, and is restricted by chipset.	N/A
Ecwmin	Exponent form of CWmin	N/A	Unsigned integer. Value range is 0 to 10, and is restricted by chipset.	N/A
Ecwmax	Exponent form of CWmax	N/A	Unsigned integer. Value range is 1 to 10, and is restricted by chipset.	N/A
TxOpLimit	Transmission oppurtunity limit	N/A	Unsigned integer. Value range is 0 to 32767 and is restricted by chipset. Unit is millisecond.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportBandwidth	Supported channel bandwidth	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
SupportMCS	Supported MCS	N/A	Unsigned short. Value range: 0 to 76.	N/A
SupportVHTMCS	Supported VHT-MCS	N/A	Unsigned short. Value range: 1 to 8.	N/A
ShortGI20M	Supported short GI for 20MHz	N/A	Boolean: • true—Support. • false—Not support.	N/A
ShortGI40M	Supported short GI for 40MHz	N/A	Boolean: • true—Support. • false—Not support.	N/A
ShortGI80M	Supported short GI for 80MHz	N/A	Boolean: • true—Support. • false—Not support.	N/A
ShortGI160M	Supported short GI for 160MHz	N/A	Boolean: • true—Support. • false—Not support.	N/A
SUBeamformer	Supported SU-Beamformer	N/A	Boolean: • true—Support. • false—Not support.	N/A
MUBeamformer	Supported MU-Beamformer	N/A	Boolean: • true—Support. • false—Not support.	N/A
Ldpc	Supported ldpc	N/A	Boolean: • true—Support. • false—Not support.	N/A
TxStbc	Supported TxStbc	N/A	Boolean: • true—Support. • false—Not support.	N/A
RxStbc	Supported RxStbc	N/A	Boolean: • true—Support. • false—Not support.	N/A
VHTLdpc	Supported VHT ldpc	N/A	Boolean: • true—Support. • false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VHTTxStbc	Supported VHT TxStbc	N/A	Boolean: • true—Support. • false—Not support.	N/A
VHTRxStbc	Supported VHT RxStbc	N/A	Boolean: • true—Support. • false—Not support.	N/A

AP/RegionDB

This table contains valid region list of AP models.

XML structure

```
<AP>
  <RegionDB>
    <Region>
      <ModelName></ModelName>
      <RegionCode></RegionCode>
      <SupportedRadioList></SupportedRadioList>
    </Region>
  </RegionDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegionDB
Table type	Multi-instance table
Row name	Region
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 stantard.

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportedRadioList	Supported radio list of current region.	N/A	Number string. It is a comma-separated list of supported radio IDs. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2

AP/AntennaDB

This table contains valid antenna types of AP models.

XML structure

```
<AP>
  <AntennaDB>
    <Antenna>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <AntennaType></AntennaType>
    </Antenna>
  </AntennaDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	AntennaDB
Table type	Multi-instance table
Row name	Antenna
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
AntennaType	Antenna type of radio	Index	String, case-insensitive. Length: 1 to 80 characters.	N/A

AP/ChannelTypeMap

This table contains channel type of radios.

XML structure

```
<AP>
  <ChannelTypeMap>
    <ChannelMap>
      <RadioMode></RadioMode>
      <Bandwidth></Bandwidth>
      <Channel></Channel>
      <ChannelType></ChannelType>
    </ChannelMap>
  </ChannelTypeMap>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ChannelTypeMap
Table type	Multi-instance table
Row name	ChannelMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioMode	Radio mode	Index	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth	Index	Enumeration: • **1**—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Channel	Legal channel number.	Index	Unsigned short.	Conform to IEEE 802.11 protocol , ISO 3166 stantard and the related national and regional laws and regulations.

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	N/A	Enumeration: • 1—802.11b • 2—802.11g • 3—802.11n(2.4GHz) in 20M mode • 4—802.11n(2.4GHz) in 40M mode • 5—802.11gac(2.4GHz) in 20M mode • 6—802.11gac(2.4GHz) in 40M mode • 7—802.11a(36 to 64) • 8—802.11a(100 to 144) • 9—802.11a(149 to 165) • 10—802.11n(5GHz) (36 to 64) in 20M mode • 11—802.11n(5GHz) (100 to 144) in 20M mode • 12—802.11n(5GHz) (149 to 165) in 20M mode • 13—802.11n(5GHz) (36 to 64) in 40M mode • 14—802.11n(5GHz) (100 to 144) in 40M mode • 15—802.11n(5GHz) (149 to 165) in 40M mode • 16—802.11ac (36 to 64) in 20M mode • 17—802. 11ac (100 to 144) in 20M mode • 18—802. 11ac (149 to 165) in 20M mode • 19—802.11ac (36 to 64) in 40M mode • 20—802. 11ac (100 to 144) in 40M mode • 21—802. 11ac (149 to 165) in 40M mode • 22—802.11ac (36 to 64) in 80M mode • 23—802. 11ac (100 to 144) in 80M mode • 24—802. 11ac (149 to 165) in 80M mode • 25—802.11ac (36 to 64) in 160M mode	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 26—802. 11ac (100 to 144) in 160M mode • 27—802. 11ac (149 to 165) in 160M mode • 28—802. 11ac (36 to 64) in 8080M mode • 29—802. 11ac (100 to 144) in 8080M mode • 30—802. 11ac (149 to 165) in 8080M mode	

AP/PowerIndex

This table contains valid power index of AP models.

XML structure

```
<AP>
  <PowerIndex>
    <Index>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <RadioMode></RadioMode>
      <AntennaType></AntennaType>
      <RegionCode></RegionCode>
      <ChannelType></ChannelType>
      <PowerIndex></PowerIndex>
      <PowerSubIndex></PowerSubIndex>
    </Index>
  </PowerIndex>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PowerIndex
Table type	Multi-instance table
Row name	Index
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
RadioMode	Radio mode	Index	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz)	N/A
AntennaType	Antenna type of radio.	Index	String, case-insensitive. Length: 1 to 80 characters.	N/A
RegionCode	Region code of AP.	Index	Unsigned short.	Refer to AP/RegionDB/RegionCode.
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: • 1—802.11b • 2—802.11g • 3—802.11n(2.4GHz) in 20M mode • 4—802.11n(2.4GHz) in 40M mode • 5—802.11gac in 20M mode • 6—802.11gac in 40M mode • 7—802.11a(36 to 64) • 8—802.11a(100 to 144) • 9—802.11a(149 to 165) • 10—802.11n(5GHz) (36 to 64) in 20M mode • 11—802.11n(5GHz) (100 to 144) in 20M mode • 12—802.11n(5GHz) (149 to 165) in 20M mode • 13—802.11n(5GHz) (36 to 64) in 40M mode • 14—802.11n(5GHz) (100 to 144) in 40M	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			mode • 15—802.11n(5GHz) (149 to 165) in 40M mode • 16—802.11ac (36 to 64) in 20M mode • 17—802. 11ac (100 to 144) in 20M mode • 18—802. 11ac (149 to 165) in 20M mode • 19—802.11ac (36 to 64) in 40M mode • 20—802. 11ac (100 to 144) in 40M mode • 21—802. 11ac (149 to 165) in 40M mode • 22—802.11ac (36 to 64) in 80M mode • 23—802. 11ac (100 to 144) in 80M mode • 24—802. 11ac (149 to 165) in 80M mode • 25—802.11ac (36 to 64) in 160M mode • 26—802. 11ac (100 to 144) in 160M mode • 27—802. 11ac (149 to 165) in 160M mode • 28—802. 11ac (36 to 64) in 8080M mode • 29—802. 11ac (100 to 144) in 8080M mode • 30—802. 11ac (149 to 165) in 8080M mode	
PowerIndex	The index value of power table	N/A	Enumeration: • 1—System script • 2—Userscript	N/A
PowerSubIndex	The sub-index value of power table	N/A	Unsigned short.	N/A

AP/ChannelDB

This table contains valid channel list of AP models.

XML structure

```
<AP>
  <ChannelDB>
    <Channel>
     <PowerIndex></PowerIndex>
```

```
    <ChannelType></ChannelType>
    <PowerSubIndex></PowerSubIndex>
    <SupportedChannelList></SupportedChannelList>
   </Channel>
  </ChannelDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ChannelDB
Table type	Multi-instance table
Row name	Channel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	The index value of power table	Index	Enumeration: • 1—System script • 2—Userscript	Refer to AP/PowerIndex/PowerIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: • 1—802.11b • 2—802.11g • 3—802.11n(2.4GHz) in 20M mode • 4—802.11n(2.4GHz) in 40M mode • 5—802.11gac in 20M mode • 6—802.11gac in 40M mode • 7—802.11a(36 to 64) • 8—802.11a(100 to 144) • 9—802.11a(149 to 165) • 10—802.11n(5GHz) (36 to 64) in 20M mode • 11—802.11n(5GHz) (100 to 144) in 20M mode • 12—802.11n(5GHz) (149 to 165) in 20M mode • 13—802.11n(5GHz) (36 to 64) in 40M mode • 14—802.11n(5GHz) (100 to 144) in 40M mode • 15—802.11n(5GHz) (149 to 165) in 40M mode • 16—802.11ac (36 to 64) in 20M mode • 17—802. 11ac (100 to 144) in 20M mode • 18—802. 11ac (149 to 165) in 20M mode • 19—802.11ac (36 to 64) in 40M mode • 20—802. 11ac (100 to 144) in 40M mode • 21—802. 11ac (149 to 165) in 40M mode • 22—802.11ac (36 to 64) in 80M mode • 23—802. 11ac (100 to 144) in 80M mode • 24—802. 11ac (149 to 165) in 80M mode • 25—802.11ac (36 to 64) in 160M mode	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 26—802. 11ac (100 to 144) in 160M mode • 27—802. 11ac (149 to 165) in 160M mode • 28—802. 11ac (36 to 64) in 8080M mode • 29—802. 11ac (100 to 144) in 8080M mode • 30—802. 11ac (149 to 165) in 8080M mode	
PowerSubIndex	The sub-index value of power table	Index	Unsigned short.	Refer to AP/PowerIndex/PowerSubIndex
SupportedChannelList	Supported channel list of current model.	N/A	Number string. It is a comma-separated list of supported channels. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2,3

AP/PowerDB

This table contains valid power values of AP models.

XML structure

```
<AP>
  <PowerDB>
    <Power>
      <PowerIndex></PowerIndex>
      <ChannelType></ChannelType>
      <PowerSubIndex></PowerSubIndex>
      <Channel></Channel>
      <ValidMaxPower></ValidMaxPower>
    </Power>
  </PowerDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PowerDB
Table type	Multi-instance table
Row name	Power
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	The index value of power table	Index	Enumeration: • 1—System script • 2—User script	Refer to AP/PowerIndex/PowerIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: • 1—802.11b • 2—802.11g • 3—802.11n(2.4GHz) in 20M mode • 4—802.11n(2.4GHz) in 40M mode • 5—802.11gac in 20M mode • 6—802.11gac in 40M mode • 7—802.11a(36 to 64) • 8—802.11a(100 to 144) • 9—802.11a(149 to 165) • 10—802.11n(5GHz) (36 to 64) in 20M mode • 11—802.11n(5GHz) (100 to 144) in 20M mode • 12—802.11n(5GHz) (149 to 165) in 20M mode • 13—802.11n(5GHz) (36 to 64) in 40M mode • 14—802.11n(5GHz) (100 to 144) in 40M mode • 15—802.11n(5GHz) (149 to 165) in 40M mode • 16—802.11ac (36 to 64) in 20M mode • 17—802. 11ac (100 to 144) in 20M mode • 18—802. 11ac (149 to 165) in 20M mode • 19—802.11ac (36 to 64) in 40M mode • 20—802. 11ac (100 to 144) in 40M mode • 21—802. 11ac (149 to 165) in 40M mode • 22—802.11ac (36 to 64) in 80M mode • 23—802. 11ac (100 to 144) in 80M mode • 24—802. 11ac (149 to 165) in 80M mode • 25—802.11ac (36 to 64) in 160M mode	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 26—802. 11ac (100 to 144) in 160M mode • 27—802. 11ac (149 to 165) in 160M mode • 28—802. 11ac (36 to 64) in 8080M mode • 29—802. 11ac (100 to 144) in 8080M mode • 30—802. 11ac (149 to 165) in 8080M mode	
PowerSubIndex	The sub-index value of power table	Index	Unsigned short.	Refer to AP/PowerIndex/PowerSubIndex
Channel	Legal channel number.	Index	Unsigned short.	Refer to AP/ChannelDB/SupportedChannelList.
ValidMaxPower	Legal maximum power. The upper limit of configurable maximum power.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type, channel number and region code.	Conform to IEEE 802.11 protocol , ISO 3166 stantard and the related national and regional laws and regulations.

AP/ChannelReport

This table contains the fileds which carry the channel reports of the Ap.

XML structure

```
<AP>
  <ChannelReport>
    <Channel>
      <ApName></ApName>
      <RadioID></RadioID>
      <Channel></Channel>
      <NeighborCount></NeighborCount>
      <Load></Load>
      <Utilization></Utilization>
      <Interference></Interference>
      <PacketErr></PacketErr>
      <Retry></Retry>
      <RadarStatus><RadarStatus>
    </Channel>
  </ChannelReport>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ChannelReport
Table type	Multi-instance table
Row name	Channel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Channel	Legal channel number.	Index	Unsigned short.	Refer to AP/ChannelDB/SupportedChannelList.
NeighborCount	Neighbour number of the legal channels.	N/A	Unsigned integer.	N/A
Load	Percentage of the time for transmitting all packets on the channel to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Utilization	Percentage of the time for transmitting packets of the BSS to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Interference	Percentage of the time for transmitting packets of other BSSs to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErr	Packet error rate of the legal channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Retry	Retransmission rate of the legal channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
RadarStatus	Radar detection status at the legal channel.	N/A	Boolean: • true—Radar is detected. • false—Radar is not detected.	N/A

AP/NeighborAPReport

This table contains the fileds which carry the information of the Ap's current neighbors.

XML structure

```
<AP>
  <NeighborAPReport>
    <Neighbor>
      <ApName></ApName>
      <RadioID></RadioID>
      <MacAddress></MacAddress>
      <Channel></Channel>
      <Interference></Interference>
      <SignalStrength></SignalStrength>
      <NeighborType></NeighborType>
    </Neighbor>
  </NeighborAPReport>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	NeighborAPReport
Table type	Multi-instance table
Row name	Neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	If the neighbor is unmanaged AP, this column is MAC address; or if the neighbor is managed AP, it is basic BSSID. Example: 00-0c-af-e3-5d-c0.
Channel	Channel number where the neighbor is discovered.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type and country code.	N/A
Interference	Percentage of the time for transmitting packets of the neighbor to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
SignalStrength	Strength of signal received.	N/A	Unsigned integer. Unit: dBm.	An indication of the total channel power (signal, noise, and interference) of a received frame measured on the channel and at the antenna connector used to receive the frame.
NeighborType	Management status of the neighbor.	N/A	Boolean: • true—Managed neighbor. • false—UnManaged neighbor.	N/A

AP/EdcaRadio

This table contains radio EDCA information.

XML structure

```
<AP>
  <EdcaRadio>
```

```
    <EdcaPara>
      <ApName></ApName>
      <RadioID></RadioID>
      <AccessCategory></AccessCategory>
      <Noack></Noack>
      <CfgAifsn></CfgAifsn>
      <CfgEcwmin></CfgEcwmin>
      <CfgEcwmax></CfgEcwmax>
      <CfgTxOpLimit></CfgTxOpLimit>
    </EdcaPara>
  </EdcaRadio>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	EdcaRadio
Table type	Multi-instance table
Row name	EdcaPara
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length:1to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
AccessCategory	A label for the common set of enhanced distributed channel access parameters that are used by a WMM STA to conten d for the channel in order to transmit MSDUs with certain priorities..	Index	Enumeration: • 0—BE. • 1—BK. • 2—VI. • 3—VO.	N/A
Noack	Whehter acknowledgement is required.	N/A	Boolean: • true—Not required. • false—Required.	N/A
CfgAifsn	ArbitrationInter Frame Spacing Number.	N/A	The value range conforms to “AP/RadioIDB/Aifsn” column.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to “AP/RadioIDB/Ecwmin” column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to “AP/RadioIDB/Ecwmax” column.	N/A
CfgTxOpLimit	Transmission oppurtunity limit.	N/A	The value range conforms to “AP/RadioIDB/TxOpLimit” column.	N/A

AP/RadioWmm

This table contains radio WMM information.

XML structure

```
<AP>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
    </Wmm>
  </RadioWmm>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Status	WMM status of radio.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/APGroup

This table contains information of AP groups.

XML structure

```
<AP>
  <APGroup>
    <Group>
      <Name></Name>
      <RuleNum></RuleNum>
      <ModelNum></ModelNum>
      <APNum></APNum>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
      <LedMode></LedMode>
      <MapConfiguration></MapConfiguration>
      <VirtualAC>
        <VirtualACIPv4></VirtualACIPv4>
        <VirtualACIPv6></VirtualACIPv6>
```

```
        <Vlan></Vlan>
      </VirtualAC>
    </Group>
  </APGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
AP group name	Number of rules in the AP group	N/A	Unsigned short. Value range: 0 to 5.	N/A
ModelNum	Number of models in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
APNum	Number of APs in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 stantard.
RegionLock	Whether the region code of the AP group is locked.	N/A	Boolean: • true—Support. • false—Not support.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: • true: Switch • false: Not switch.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 3 to 255.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8. Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of APGroup.	N/A	String, Length: 1 to 64 cahracters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade	N/A	Boolean: • true—Enable. • false—Disable.	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover	N/A	Boolean: • true—Enable. • false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LedMode	LED mode	N/A	Enumeration: • 0—Normal • 1—Quiet • 2—Awake • 3—Always-on	N/A
MapConfiguration	AP Configuration file name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
VirtualAC	VirtualAC info	Data structure	Members include: • VirtualACIPv4 • VirtualACIPv6 Vlan	N/A
VirtualACIPv4	The IPv4 virtual AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
VirtualACIPv6	The IPv6 virtual AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Vlan	VLAN	N/A	Unsinged integer. Value range: 1 to 4094.	N/A

AP/APGroupMACRule

This table contains information of AP groups' rules of MAC address.

XML structure

```
<AP>
  <APGroupMACRule>
    <Rule>
      <GroupName></GroupName>
      <MacAddress></MacAddress>
    </Rule>
  </APGroupMACRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupMACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
MacAddress	AP MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/APGroupSerialIDRule

This table contains information of AP groups' rules of serial ID.

XML structure

```
<AP>
  <APGroupSerialIDRule>
    <Rule>
      <GroupName></GroupName>
      <SerialID></SerialID>
    <Rule>
  </APGroupSerialIDRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupSerialIDRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	N/A

AP/APGroupNameRule

This table contains information of AP groups' rules of AP name.

XML structure

```
<AP>
  <APGroupNameRule>
    <Rule>
      <GroupName></GroupName>
      <APName></APName>
    <Rule>
  </APGroupNameRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupNameRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
APName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

AP/APGroupIPv4Rule

This table contains information of AP groups' rules of IPv4 address range.

XML structure

```
<AP>
  <APGroupIPv4Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv4Addr></IPv4Addr>
```

```
      <IPv4Wildcard></IPv4Wildcard>
    <Rule>
  </APGroupIPv4Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv4Addr	IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
IPv4Wildcard	Wildcard mask for the IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 255.255.255.0.

AP/APGroupIPv6Rule

This table contains information of AP groups' rules of IPv6 address range.

XML structure

```
<AP>
  <APGroupIPv6Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv6Addr></IPv6Addr>
      <IPv6Wildcard></IPv6Wildcard>
    <Rule>
  </APGroupIPv6Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv6Addr	Source IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.
IPv6Wildcard	Length of the source IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false.

AP/APGroupModel

This table contains information of AP group models.

XML structure

```
<AP>
  <APGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
    </Model>
  </APGroupModel>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupModel

Item	Description
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioNum	Number of the radio	N/A	Unsigned short. Value range: 1 to 4.	N/A

AP/APGroupRadio

This table contains information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio>
    <Radio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></ SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11AC></SupportDot11AC>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
```

```
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
      <ProtectionMode></ProtectionMode>
      <CfgAntennaType></CfgAntennaType>
    </Radio>
  </APGroupRadio>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: • true—Support. • false—Not support.	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
Status	Radio status	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto The value range conforms to “AP/RadioOfManualAP/CfgRateMandatory” column. If this column is not configured, the multicast rate will be calculated automatically.	N/A
RateMandatory	Mandatory rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: A. 1, 2Mbps(802.11b). B. 6, 12, 24Mbps(802.11a/802.11an) C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)	The value can have multi-selections.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: A. 5.5, 11Mbps(802.11b) B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an) C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)	The value can have multi-selections, exclude the one which multicast rate uses.
RateDisabled	Disabled rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses.
Preamble	Preamble	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerLock	Lock the power	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms.	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. And the value must be an even number. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList" column. And 15 –auto lock、16-auto unlock.	When the value is 15, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A
ProtectionMode	Protection Mode	N/A	Enumeration: • 1—rts-cts • 2—cts-to-self	N/A
CfgAntennaType	Configured Antenna Type	N/A	String, case-sensitive. Length: 1 to 64 characters	N/A

AP/APGroupRadio11n

This table contains 802.11n information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio11n>
    <Radio11n>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <MimoMode></MimoMode>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></BandwidthAutoswitch>
    </Radio11n>
  </APGroupRadio11n>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11n
Table type	Multi-instance table
Row name	Radio11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Ampdu	A-mpdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Amsdu	A-msdu function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ShortGI	Short GI function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Stbc	STBC function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Ldpc	LDPC function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
MimoMode	MIMO mode.	N/A	Enumeration: • 17—1×1. • 34—2×2. • 51—3×3. • 68—4×4. • 85—5×5. • 102—6×6. • 119—7×7. • 136—8×8.	N/A
Greenap	Green AP function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SmartAntenna	Smart antenna function	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: • 1: Auto • 2: High-availability • 3: High-throughput	Effective only when SmartAntenna is enabled.
Client11nOnly	Client dot11n only function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthAutoswitch	Bandwidth autoswitch function	N/A	Boolean: • true—Enable. • false—Disable. The column is only for 2.4GHz radio mode, and AP/APGroupRadio/Bandwidth must be 2.	N/A

AP/APGroupRadioMCS

This table contains MCS information of AP Group radios.

XML structure

```
<AP>
  <APGroupRadioMCS>
    <RadioMCS>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
    <RadioMCS>
  </APGroupRadioMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Group name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 76.	The MCSSupported must be greater than or equal to the MCSMandatory.

AP/APGroupRadio11ac

This table contains 802.11ac information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio11ac>
    <Radio11ac>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Client11acOnly></Client11acOnly>
    </Radio11ac>
  </APGroupRadio11ac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11ac
Table type	Multi-instance table
Row name	Radio11ac

Item	Description
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Client11acOnly	Client dot11ac only function.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

AP/APGroupRadioVHTMCS

This table contains VHTMCS information of AP group radios.

XML structure

```
<AP>
  <APGroupRadioVHTMCS>
    <RadioVHTMCS>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSIndex></VHTMCSIndex>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
    </RadioVHTMCS>
  </APGroupRadioVHTMCS>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadioVHTMCS

Item	Description
Table type	Multi-instance table
Row name	RadioVHTMCS
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSIndex	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```
<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <ACHostName></ACHostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
```

```
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
    </Prvs>
  </APGroupPrvs>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvs
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1,1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

AP/APGroupPrvsACIPv4

This table contains provision information of AP Group of IPv4 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv4>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </APGroupPrvsACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, dotted decimal notation.	Example: 1.1.1.1.
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.

AP/APGroupPrvsACIPv6

This table contains provision information of AP group of IPv6 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv6>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </APGroupPrvsACIPv6>
```

```
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

AP/APListOfGroup

This table contains the AP list of AP groups.

XML structure

```
<AP>
  <APListOfGroup>
    <AP>
      <GroupName></GroupName>
      <ApName></ApName>
    </AP>
  </APListOfGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APListOfGroup

Item	Description
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ApName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

AP/Location

This table contains the informations of locations.

XML structure

```
<AP>
  <Location>
    <Location>
      <LocationName></LocationName>
    </Location>
  </Location>
<AP>
```

Table description

Item	Description
Feature name	AP
Table name	Location
Table type	Multi-instance table
Row name	Location
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Location name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

AP/APAuthentication

This table contains the informations of AP authentication.

XML structure

```
<AP>
  <APAuthentication>
    <Status></Status>
    <Method></Method>
    <PermitUnauth></PermitUnauth>
    <AuthDomain></AuthDomain>
    <AclNumber></AclNumber>
    <AclName></AclName>
  </APAuthentication>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APAuthentication
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The status of AP authentication.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Method	The authentication method	N/A	Enumeration: • 1—MAC address. • 2—Serial ID.	N/A
PermitUnauth	Whether the un-authenticated AP is allowed to join the AC.	N/A	Boolean: • true—Allowed. • false—Not allowed.	N/A
AuthDomain	The ISP domain of remote AP authentication.	N/A	String, case-insensitive. Length: 1 to 24 characters.	N/A
AclNumber	The ACL number of local AP authentication.	N/A	Unsigned short. Value range: 200 to 299.	This column is unavailable when the AC uses an ACL name.

Column name	Column description	Column type	Data type and restrictions	Remarks
AclName	The ACL name of local AP authentication.	N/A	String, case-sensitive. Length: 1 to 64 characters.	This column is unavailable when the AC uses an ACL number. The ACL name should not be “all”.

AP/HistorySummary

This table contains information of history summary.

XML structure

```
<AP>
  <HistorySummary>
    <Record>
      <Date></Date>
      <Time></Time>
      <ManualApNum></ManualApNum>
      <RunApNum></RunApNum>
      <OfflineApNum></OfflineApNum>
      <UnhealthyApNum></UnhealthyApNum>
      <ApGroupNum></ApGroupNum>
      <LocationNum></LocationNum>
      <NorthIfOutPkt></NorthIfOutPkt>
      <NorthIfOutByte></NorthIfOutByte>
      <NorthIfInPkt></NorthIfInPkt>
      <NorthIfInByte></NorthIfInByte>
    </Record>
  </HistorySummary>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	HistorySummary
Table type	Multi-instance table
Row name	Record
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Date	The date of the record,	Index	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
Time	The time of the record.	Index	Format: hh:mm. Value range: 00:00 to 23:59.	N/A
ManualApNum	Number of manual APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Index	Number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
OfflineApNum	Number of offline APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UnhealthyApNum	Number of Unhealthy APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ApGroupNum	Number of AP groups	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
LocationNum	Number of locations	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
NorthIfOutPkt	Packets count of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfOutByte	Throughput statistics of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfInPkt	Packets count of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfInByte	Throughput statistics of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

AP/AllAP

This table contains the information of all APs.

XML structure

```
<AP>
  <AllAP>
    <AP>
      <LocationName></LocationName>
      <Name></Name>
      <Type></Type>
      <Status></Status>
      <GroupName></GroupName>
      <SerialID></SerialID>
      <MacAddress></MacAddress>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <OnlineTime></OnlineTime>
      <ModelType></ModelType>
      <APID></APID>
    </AP>
  </AllAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	AllAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Which location the AP belongs to.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
Name	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Status	AP associated status	N/A	Enumeration: • 1—Online • 2—Offline • 3—Image downloading	N/A
Type	AP type	N/A	Enumeration:	N/A

			• 1—auto • 2—manual	
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
SerialID	AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
MacAddress	AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Ipv4Address	AP IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
Ipv6Address	AP IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
OnlineTime	AP online duration.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
ModelType	AP model type.	N/A	Enumeration: • 1—Normal ap • 2—WT • 3—WTU • 4—WTU_DIRECT • 5—SPM	N/A
APID	AP ID.	N/A	Unsigned integer.	N/A

AP/LocalACDB

This table contains local-ac model information.

XML structure

```
<AP>
  <LocalACDB>
    <Model>
      <ModelName></ModelName>
      <HardwareVersion></HardwareVersion>
      <SoftwareVersion></SoftwareVersion>
    </Model>
  </LocalACDB>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	LocalACDB
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	Local-ac model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
HardwareVersion	The version of Hardware.	Index	Enumeration: • 1—Ver.A • 2—Ver.B • 3—Ver.C • 4—Ver.D • 5—Ver.E • 6—Ver.F	N/A
SoftwareVersion	The version of Software.	N/A	String Length:1 to 31.	N/A

AP/LocalAC

This table contains information of local-ac.

XML structure

```
<AP>
  <LocalAC>
    <AC>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <Status></Status>
      <EchoInterval></EchoInterval>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
```

```
    </AC>
  </LocalAC>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	LocalAC
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local-ac name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	Local-ac model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgSerialID	Configured Local-ac serial ID	N/A	String, uppercase. Length: 1 to 63 characters.	N/A
Status	Local-ac associated status	N/A	Enumeration: • 1—Online • 2—Offline • 3—Image downloading	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8 Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 2 to 5. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable. • false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Local AC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AC uses an IPv6 address.
Ipv6Address	Local AC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the ACuses an IPv4 address.

AP/ContainerTopology

This table contains information about all PoE ports on the container and units (such as WAP and WTU) connected to the container (such as SPM and WT).

XML structure

```
<AP>
  <ContainerTopology>
    <Container>
      <ContainerName></ContainerName>
      <PoePort></PoePort>
      <PoeStatus></PoeStatus>
      <UnitName></UnitName>
    </Container>
  </ContainerTopology>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ContainerTopology
Table type	Multi-instance table
Row name	Container
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContainerName	Container name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PoePort	Port on the container	Index	Unsigned short.	See AP/APDB/.
PoeStatus	PoE port status	N/A	Boolean: • true—Enable. • false—Disable.	N/A
UnitName	Unit name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A

AP/Container

This table contains information about containers.

XML structure

```
<AP>
  <Container>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgMacAddress></CfgMacAddress>
      <APNum></APNum>
      <Status></Status>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <OnlineTime></OnlineTime>
      <LastDownReason></LastDownReason>
      <LastRebootReason></LastRebootReason>
      <OfflineMoment></OfflineMoment>
    </AP>
  </Container>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Container
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgMacAddress	Configured AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
APNum	Number of APs connected to the container	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Status	AP association status	N/A	Enumeration: • 1—Online. • 2—Image downloading.	N/A
Ipv4Address	AP IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
Ipv6Address	AP IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
OnlineTime	Time since the AP came online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
LastDownReason	Cause of the tunnel down the last time.	N/A	String. Length: 1 to 31 characters.	N/A
LastRebootReason	Cause of the AP rebooting in last time.	N/A	String. Length: 1 to 31 characters.	N/A
OfflineMoment	The time of the AP offline in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T09:35:07

AP/WlanEnable

This table contains information about wlan enable.

XML structure

```
<AP>
  <WlanEnable>
```

```
    <Status></Status>
  </WlanEnable>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	WlanEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wlan status	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/ImageStatus

This table contains information about image status.

XML structure

```
<AP>
  <ImageStatus>
    <Status>
      <TotalNum></TotalNum>
      <SuccessNum></SuccessNum>
      <FailedNum></FailedNum>
    </Status>
  </ImageStatus>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ImageStatus

Item	Description
Table type	Single-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalNum	Number of total Aps.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SuccessNum	Number of success Aps.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FailedNum	Number of failed Aps.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

AP/RadioAutoDisable

This table contains radio auto off service information.

XML structure

```
<AP>
  <RadioAutoDisable>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </RadioAutoDisable>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioAutoDisable
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

AP/APGroupModelCfg

This table contains information of AP group models configurations.

XML structure

```
<AP>
  <APGroupModelCfg>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <MapConfiguration></MapConfiguration>
    </Model>
  </APGroupModelCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupModelCfg
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
MapConfiguration	deploy a configuration file to an AP.	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

AP/InterfaceOfAP

This table contains interface information for a running AP.

XML structure

```
<AP>
  <InterfaceOfAP>
    <Interface>
      <ApName></ApName>
      <InterfaceName></InterfaceName>
      <Status></Status>
      <Speed></Speed>
      <Description></Description>
      <InterfaceType></InterfaceType>
      <Mtu></Mtu>
      <PhyAddress></PhyAddress>
    </Interface>
  </InterfaceOfAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	InterfaceOfAP
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A.
Interface Name	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Status	Interface status.	N/A	Enumeration: • 1—UP • 2—DOWN	N/A
Speed	Interface speed	N/A	String. Length: 1 to 31 characters.	N/A
Description	The description of Interface.	N/A	String, Length: 1 to 63 cahracters.	N/A
Mtu	Max transmit data units	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceType	Interface type	N/A	Unsigned integer.	N/A
PhyAddress	Phy Mac address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/AllAPFast

This table contains information about all APs for quick query.

XML structure

```
<AP>
  <AllAPFast>
    <AP>
      <Name></Name>
      <Model></Model>
      <Type></Type>
      <SID></SID>
      <Mac></Mac>
      <GN></GN>
      <Sta></Sta>
      <SUM></SUM>
      <OnT></OnT>
      <UpT></UpT>
      <SV></SV>
      <Ipv4></Ipv4>
      <Desp></Desp>
      <RegT></RegT>
      <AuFlg></AuFlg>
      <InFlg></InFlg>
      <Radio>
        <ID></ID>
        <Mode></Mode>
        <CB></CB>
        <Retry></Retry>
      </Radio>
    </AP>
  </AllAPFast>
</AP>
```

Table description

Item	Description
Feature name	AP

Item	Description
Table name	AllAPFast
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	AP type.	N/A	Enumeration: • 1—auto • 2—manual	N/A
SID	AP serial ID.	N/A	String, uppercase. Length: 1 to 63 characters.	N/A
Mac	AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
GN	Name of AP group to which the AP belongs.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Sta	AP association status.	N/A	Enumeration: • 1—Online • 2—Offline • 3—Image downloading	N/A
SUM	Time when AP status was updated.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OnT	AP online duration.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
UpT	AP system uptime.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SV	AP software version.	N/A	String. Length: 1 to 31 characters.	N/A
IPv4	IPv4 address of the backup AC.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Des	Description of the AP.	N/A	String. Length: 1 to 499 characters.	N/A
RegT	AP registration	N/A	Unsigned integer. Value	N/A

	time.		range: 0 to 4294967295.	
AuFlag	AP authentication flag.	N/A	Enumeration: • 1—Unknown • 2—Permit • 3—Deny	N/A
InFlag	Inside AP flag.	N/A	Boolean: • true • false	N/A
Radio	Radio on the AP.	Data Structure	Members include: • ID • Mode • CB • Retry	N/A
ID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) 9—802.11ax(5GHz)	N/A
CB	Channel usage.	N/A	Unsigned short.	N/A
Retry	Frame retry ratio.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

AP/VirtualManualAP

This table contains information of virtual manual AP.

XML structure

```
<AP>
  <VirtualManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <RadioNum></RadioNum>
```

```
      <Status></Status>
      <GroupName></GroupName>
      <EchoInterval></EchoInterval>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </AP>
  </VirtualManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgSerialID	Configured AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
CfgMacAddress	Configured AP MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
RadioNum	Number of the radio.	N/A	Unsigned short. Value range: 1 to 4.	N/A
Status	AP associated status.	N/A	Enumeration: • 1—Online • 2—Offline • 3—Image downloading	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
StatisInterval	RetransCount	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A
Description	The description of AP.	N/A	String, Length: 1 to 499 cahracters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/RadioOfVirtualManualAP

This table contains radio information of virtual manual AP.

XML structure

```
<AP>
  <RadioOfVirtualManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <CfgChannel></CfgChannel>
    </Radio>
  </RadioOfVirtualManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfVirtualManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode.	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz) • 8—802.11ax(2.4GHz) • 9—802.11ax(5GHz)	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateMandatory	Mandatory rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate.	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
CfgChannel	Configured channel number.	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList" column. And 15 －auto lock、16-auto unlock.	When the value is 15, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.

AP/VirtualAPGroup

This table contains information of virtual AP groups.

XML structure

<AP>

```
  <VirtualAPGroup>
    <Group>
      <Name></Name>
      <ModelNum></ModelNum>
      <APNum></APNum>
      <EchoInterval></EchoInterval>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </Group>
  </VirtualAPGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualAPGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelNum	Number of models in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
APNum	Number of APs in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • true—Enable • false—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	The description of APGroup.	N/A	String, Length: 1 to 64 cahracters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/VirtualAPGroupModel

This table contains information of virtual AP group models.

XML structure

```
<AP>
  <VirtualAPGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
    </Model>
  </VirtualAPGroupModel>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualAPGroupModel
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioNum	Number of the radio	N/A	Unsigned short. Value range: 1 to 4.	N/A

AP/VirtualAPGroupRadio

This table contains information of virtual AP group radios.

XML structure

```
<AP>
  <VirtualAPGroupRadio>
    <Radio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <CfgChannel></CfgChannel>
    </Radio>
  </VirtualAPGroupRadio>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	VirtualAPGroupRadio
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode	N/A	Enumeration: • 1—802.11b • 2—802.11a • 3—802.11g • 4—802.11n(2.4GHz) • 5—802.11n(5GHz) • 6—802.11ac(2.4GHz) • 7—802.11ac(5GHz)	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
RateMulticast	Multicast rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto The value range conforms to “AP/RadioOfManualAP/CfgRateMandatory” column. If this column is not configured, the multicast rate will be calculated automatically.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: D. 1, 2Mbps(802.11b). E. 6, 12, 24Mbps(802.11a/802.11an) F. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)	The value can have multi-selections.
RateSupported	Supported rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps Default value: D. 5.5, 11Mbps(802.11b) E. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an) F. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)	The value can have multi-selections, exclude the one which multicast rate uses.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateDisabled	Disabled rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses.
CfgChannel	Configured channel number	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList" column. And 15 –auto lock、16-auto unlock.	When the value is 15, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.

AP/SpmIfCfg

This table contains interface information for an SPM.

XML structure

```
<AP>
  <SpmIfCfg>
    <IfCfg>
      <SpmName></SpmName>
      <IfName></IfName>
      <AdminStatus></AdminStatus>
      <Status></Status>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag></HybridVlanListTag>
      <HybridVlanListUnTag></HybridVlanListUnTag>
```

```
      <Description></Description>
      <ActualSpeed></ActualSpeed>
      <ActualDuplex></ActualDuplex>
    </IfCfg>
  </SpmIfCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmIfCfg
Table type	Multi-instance table
Row name	IfCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: ge 1	N/A
AdminStatus	Interface administration status	N/A	Enumeration: • **1**—Administratively up. • **2**—Administratively down.	N/A
Status	Interface operation status	N/A	Enumeration: • **1**—Up. • **2**—Down. • **3**—ADM	N/A
LinkType	Link type of the interface.	N/A	Enumeration: • **1**—Access. • **2**—Trunk. • **3**—Hybrid.	N/A
AccessVlan	Access VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VLAN range.	Example: 1,2,3,5-8,10-20

Column name	Column description	Column type	Data type and restrictions	Remarks
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VLAN range.	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VLAN range	Example: 1,2,3,5-8,10-20
Description	Interface description	N/A	String. Length: 1 to 128 characters.	N/A
ActualSpeed	Actual speed of an interface.	N/A	String. Length: 1 to 16 characters.	Examples:10M,100M,1G,10G.
ActualDuplex	Actual duplex mode of an interface	N/A	Enumeration: • **1**—Full. • **2**—Half. • **3**—Auto.	N/A

AP/SpmPortPoe

This table contains PoE information for an SPM.

XML structure

```
<AP>
  <SpmPortPoe>
    <PortPoe>
      <SpmName></SpmName>
      <IfName></IfName>
      <Enable></Enable>
      <DetectionStatus></DetectionStatus>
      <CurrentPower></CurrentPower>
      <MaxPower></MaxPower>
    </PortPoe>
  </SpmPortPoe>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmPortPoe
Table type	Multi-instance table

Item	Description
Row name	PortPoe
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: ge 1	N/A
Enable	PoE enabling status.	N/A	Boolean: • true—Enable. • false—Disable.	N/A.
DetectionStatus	Detection status.	N/A	Enumeration: • **1**—Disabled • **2**—Searching • **3**—Requesting Power • **4**—Delivering Power • **5**—Faulty • 6—Not support	
CurrentPower	Current power, in milliwatt	N/A	Unsigned integer.	N/A.
MaxPower	Max power, in milliwatt	N/A	Unsigned integer.	N/A.

AP/SpmPortIsolate

This table contains port isolation information for an SPM.

XML structure

```
<AP>
  <SpmPortIsolate>
    <PortIsolate>
      <SpmName></SpmName>
      <IfName></IfName>
      <IsolatedGroupID></IsolatedGroupID>
    </PortIsolate>
  </SpmPortIsolate>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmPortIsolate
Table type	Multi-instance table
Row name	PortIsolate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: ge 1	N/A
IsolatedGroupID	Port isolation group ID.	N/A	Unsigned integer. • Value: 1	Only one group ID is supported.

AP/SpmIfBoard

This table contains interface module information for an SPM.

XML structure

```
<AP>
  <SpmIfBoard>
    <IfBoard>
      <SpmName></SpmName>
      <IfName></IfName>
      <Status></Status>
      <PoeStatus></PoeStatus>
    </IfBoard>
  </SpmIfBoard>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmIfBoard
Table type	Multi-instance table
Row name	IfBoard
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: ge 1	N/A
Status	Interface status.	N/A	Enumeration: • **1**—Up. • **2**—Down. • **3**—ADM.	N/A
PoeStatus	PoE status.	N/A	Enumeration: • **1**—Disabled • **2**—Searching • **3**—Requesting Power • **4**—Delivering Power • **5**—Fault • 6—Not support	N/A

AP/SpmVlan

This table contains VLAN information for an SPM.

XML structure

```
<AP>
  <SpmVlan>
    <Vlan>
      <SpmName></SpmName>
      <ID></ID>
      <Description></Description>
      <PortList></PortList>
```

```
      <PortListTag></PortListTag>
      <PortListUnTag></PortListUnTag>
    </Vlan>
  </SpmVlan>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmVlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	Vlan description	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
PortList	Port list.	N/A	String. Length: 1 to 256 characters.	Example: 1,2,3,5-8,10-20
PortListTag	Tagged port list.	N/A	String. Length: 1 to 256 characters.	Example: 1,2,3,5-8,10-20
PortListUnTag	Untagged port list.	N/A	String. Length: 1 to 256 characters.	Example: 1,2,3,5-8,10-20

AP/SpmIfStatistics

This table contains.interface statistics information about an SPM.

XML structure

```
<AP>
```

```
  <SpmIfStatistics>
    <IfStatistics>
      <SpmName></SpmName>
      <IfName></IfName>
      <IfType></IfType>
      <LinkStatus></LinkStatus>
      <InRate></InRate>
      <OutRate></OutRate>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
      <InUcastPkts></InUcastPkts>
      <OutUcastPkts></OutUcastPkts>
      <InNUcastPkts></InNUcastPkts>
      <OutNUcastPkts></OutNUcastPkts>
      <InErrors></InErrors>
      <OutErrors></OutErrors>
      <LastClear></LastClear>
    </IfStatistics>
  </SpmIfStatistics>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmIfStatistics
Table type	Multi-instance table
Row name	IfStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name.	Index	String. Length: 1 to 47 characters. Example: ge 1	N/A
IfType	Interface type.	N/A	Enumeration: • **1**—Physics. • **2**—Virtual.	N/A
LinkStatus	Interface status.	N/A	Enumeration: • **1**—Up.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Down.	
InRate	Rate of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutRate	Rate of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InUcastPkts	Number of inbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutUcastPkts	Number of outbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InNUcastPkts	Number of inbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutNUcastPkts	Number of outbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InErrors	Number of inbound error packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutErrors	Number of outbound error packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
LastClear	Local time when the statistics on an interface were cleared most recently.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

AP/APGroupIfRemoteCfg

This table contains information of AP group interface remote configuration.

XML structure

```
<AP>
  <APGroupIfRemoteCfg>
    <IfRemoteCfg>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <Type></Type>
      <Num></Num>
      <IfName></IfName>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag ></HybridVlanListTag>
      <HybridVlanListUnTag ></HybridVlanListUnTag>
      <Isolate></Isolate>
      <QosTrust></QosTrust>
      <QosPriority ></QosPriority>
      <LinkAggGroupId></LinkAggGroupId>
      <IfManagement></IfManagement>
    </IfRemoteCfg>
  </APGroupIfRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIfRemoteCfg
Table type	Multi-instance table
Row name	IfRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Interface type.	Index	Enumeration: • 1—ethernet. • 2—gigabitethernet. • 3—ten-gigabitethernet • 4—smartrate-ethernet • 5—bridge-aggregation	
Num	Interface number.	Index	Unsigned integer.	N/A
IfName	The name of an interface.	N/A	String. Length: 1 to 63 characters. Example: ten-gigabitethernet-1 gigabitethernet-1 smartrate-ethernet-1	N/A
LinkType	VLAN type of an interface.	N/A	Enumeration: • 1—Access. • 2—Trunk. • 3—Hybrid.	N/A
AccessVlan	Access vlan.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Isolate	Port isolation.	N/A	Boolean: • true—Enable • false—Disable.	N/A
QosTrust	Quality of service module trust mode.	• N/A	Enumeration. • 2 : dot1p • 4 : dscp	N/A
QosPriority	Quality of service module Priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LinkAggGroupId	Link aggregation group ID.	N/A	Unsigned integer. Value range: 1.	N/A
IfManagement	Interface management.	N/A	Boolean: • true—Up • false—Down.	N/A

AP/APGroupRemoteCfg

This table contains information of AP group remote configuration.

XML structure

```
<AP>
  <APGroupRemoteCfg>
    <RemoteCfg>
      <GroupName></GroupName>
      <VlanList></VlanList>
      <Enable></Enable>
    </RemoteCfg>
  </APGroupRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupRemoteCfg
Table type	Multi-instance table
Row name	RemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
VlanLiist	VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Enable	Status of remote configuration synchronization.	N/A	Boolean: • true—Enable • false—Disable.	N/A

AP/APGroupAggRemoteCfg

This table contains information of AP group bridge aggregation remote configuration.

XML structure

```
<AP>
  <APGroupBridgeAggRemoteCfg>
    <AggRemoteCfg>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <Num></Num>
      <Mode></Mode>
    </AggRemoteCfg>
  </APGroupBridgeAggRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupBridgeAggRemoteCfg
Table type	Multi-instance table
Row name	AggRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Num	Bridge aggregation interface number.	Index	Unsigned integer. Value range: 1.	N/A
Mode	Link aggregation mode.	N/A	Enumeration. • 0 : invalid • 1 : static • 2 : dynamic	N/A

AP/APIfRemoteCfg

This table contains information of AP interface remote configuration.

XML structure

```
<AP>
  <APIfRemoteCfg>
    <IfRemoteCfg>
      <APName></APName>
      <Type></Type>
      <Num></Num>
      <IfName></IfName>
      <LinkType></LinkType>
      <AccessVlan></AccessVlan>
      <TrunkPvidVlan></TrunkPvidVlan>
      <TrunkVlanList></TrunkVlanList>
      <HybridPvidVlan></HybridPvidVlan>
      <HybridVlanListTag></HybridVlanListTag>
      <HybridVlanListUnTag></HybridVlanListUnTag>
      <Isolate></Isolate>
      <QosTrust></QosTrust>
      <QosPriority></QosPriority>
      <LinkAggGroupId></LinkAggGroupId>
      <IfManagement></IfManagement>
    </IfRemoteCfg>
  </APIfRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APIfRemoteCfg
Table type	Multi-instance table
Row name	IfRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Interface type.	Index	Enumeration: • 1—ethernet. • 2—gigabitethernet. • 3—ten-gigabitethernet • 4—smartrate-ethernet • 5—bridge-aggregation	
Num	Interface number.	Index	Unsigned integer.	N/A
IfName	The name of an interface.	N/A	String. Length: 1 to 63 characters. Example: ten-gigabitethernet-1 gigabitethernet-1 smartrate-ethernet-1	N/A
LinkType	VLAN type of an interface.	N/A	Enumeration: • 1—Access. • 2—Trunk. • 3—Hybrid.	N/A
AccessVlan	Access vlan.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkPvidVlan	Trunk port PVID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
TrunkVlanList	Trunk VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridPvidVlan	Hybrid port PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
HybridVlanListTag	Hybrid tagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
HybridVlanListUnTag	Hybrid untagged VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Isolate	Port isolation.	N/A	Boolean: • true—Enable • false—Disable.	N/A
QosTrust	Quality of service module trust mode.	• N/A	Enumeration. • 2 : dot1p • 4 : dscp	N/A
QosPriority	Quality of service module Priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LinkAggGroupId	Link aggregation group ID.	N/A	Unsigned integer. Value range: 1.	N/A
IfManagement	Interface management.	N/A	Boolean: • true—Up • false—Down.	N/A

AP/APRemoteCfg

This table contains information of AP remote configuration.

XML structure

```
<AP>
  <APRemoteCfg>
    <RemoteCfg>
      <APName></APName>
      <VlanList></VlanList>
      <Enable></Enable>
    </RemoteCfg>
  </APRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APRemoteCfg
Table type	Multi-instance table
Row name	RemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
VlanLiist	VLAN list.	N/A	VlanRange	Example: 1,2,3,5-8,10-20
Enable	Status of remote configuration synchronization.	N/A	Boolean: • true—Enable • false—Disable.	N/A

AP/APAggRemoteCfg

This table contains information of AP bridge aggregation remote configuration.

XML structure

```
<AP>
  <APBridgeAggRemoteCfg>
    <AggRemoteCfg>
      <APName></APName>
      <Num></Num>
      <Mode></Mode>
    </AggRemoteCfg>
  </APBridgeAggRemoteCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APBridgeAggRemoteCfg
Table type	Multi-instance table
Row name	AggRemoteCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name.	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Num	Bridge aggregation interface number.	Index	Unsigned integer. Value range: 1.	N/A
Mode	Link aggregation mode.	N/A	Enumeration. • 0 : invalid • 1 : static • 2 : dynamic	N/A

AP/SpmLLDP

This table contains LLDP neighbor information.

XML structure

```
<AP>
  <SpmLLDP>
    <LLDP>
```

```
      <SpmName></SpmName>
      <IfName></IfName>
      <LocalMac></LocalMac>
      <SystemName></SystemName>
      <ChassisID></ChassisID>
      <PortID></PortID>
    </LLDP>
  </SpmLLDP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmLLDP
Table type	Multi-instance table
Row name	LLDP
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SpmName	SPM name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
IfName	Interface name	Index	String. Length: 0 to 47 characters.	N/A
LocalMac	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SystemName	System name	N/A	String. Length: 0 to 255 characters.	N/A
ChassisID	Chassis name	N/A	String. Length: 0 to 255 characters.	N/A
PortID	Neighbor port ID	N/A	String. Length: 0 to 255 characters.	N/A

AP/SpmMonitorCfg

This table contains configuration monitoring information for an SPM.

XML structure

```
<AP>
  <SpmMonitorCfg>
    <MonitorCfg>
      <SpmName></SpmName>
      <Cpu></Cpu>
      <Memory></Memory>
      <Temperature></Temperature>
    </MonitorCfg>
  </SpmMonitorCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmMonitorCfg
Table type	Multi-instance table
Row name	MonitorCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Cpu	Whether CPU monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A
Memory	Whether memory monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A
Temperature	Whether temperature monitoring is enabled	N/A	Boolean: • true—Enable • false—Disable	N/A

AP/SpmMonitorData

This table contains data monitoring information for an SPM.

XML structure

```
<AP>
  <SpmMonitorData>
    <MonitorData>
      <SpmName></SpmName>
      <Time></Time>
      <Cpu></Cpu>
      <Memory></Memory>
      <Temperature></Temperature>
    </MonitorData>
  </SpmMonitorData>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	SpmMonitorData
Table type	Multi-instance table
Row name	MonitorData
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpmName	SPM name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Time	Time	Index	Data time Format: YYYY-MM-DDTHH:MM	N/A
Cpu	Device CPU usage(%)	N/A	String. Length: 1 to 16 characters	Examples: 0.7
Memory	Device memory usage(%)	N/A	String. Length: 1 to 16 characters	Examples: 26.2
Temperature	Temperature of the device (°C)	N/A	Unsigned short.	Examples: 42

Contents

AppProfile 1
AppProfile/Profiles 1
XML structure 1
Table description 1
Columns 1

AppProfile

AppProfile/Profiles

This table contains application profile information.

XML structure

```
<AppProfile>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
    </Profile>
  </Profiles>
</AppProfile>
```

Table description

Item	Description
Feature name	AppProfile
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the application profile	Index	String: case-insensitive. Length: 1 to 100 characters. Only numbers, letters, and underscores (_) are allowed.	N/A

Contents

AppProfile 1
AppProfile/Profiles 1
XML structure 1
Table description 1
Columns 1

AppProfile

AppProfile/Profiles

This table contains application profile information.

XML structure

```
<AppProfile>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
    </Profile>
  </Profiles>
</AppProfile>
```

Table description

Item	Description
Feature name	AppProfile
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the application profile	Index	String: case-insensitive. Length: 1 to 100 characters. Only numbers, letters, and underscores (_) are allowed.	N/A

Contents

AppProxy 1
AppProxy/MoveBeforeRules 1
XML structure 1
Table description 1
Columns 1
AppProxy/ImportCertificates 1
XML structure 2
Table description 2
Columns 2
AppProxy/DeleteCertificates 2
XML structure 2
Table description 3
Columns 3
AppProxy/CommitWhiteLists 3
XML structure 3
Table description 3
Columns 4

AppProxy

AppProxy/MoveBeforeRules

This table is used to move a rule to before another rule.

XML structure

```
<AppProxy>
  <MoveBeforeRules>
    <Rule>
      <ID></ID>
      <DestID></DestID>
    </Rule>
  </MoveBeforeRules>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	MoveBeforeRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the rule to be moved	N/A	Unsigned integer. Value range: 1 to 65535	N/A
DestID	ID of the reference rule before which the rule is placed	N/A	Unsigned integer. Value range: 1 to 65536	When the value is 65536, the rule is placed after all rules.

AppProxy/ImportCertificates

This table is used to import the certificate for SSL server in SSL decryption.

XML structure

```
<AppProxy>
  <ImportCertificates>
    <ImportCertificate>
      <FileName></FileName>
      <Trust></Trust>
      <Password></Password>
    </ImportCertificate>
  </ImportCertificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	ImportCertificates
Table type	Multi-instance table
Row name	ImportCertificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
Trust	Credibility of the certificate	N/A	Enumeration: • **0**—untrust. • **1**—trust. • **2**—untrust and trust.	N/A
Password	Password of the certificate	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

AppProxy/DeleteCertificates

This table is used to delete the imported certificate.

XML structure

```
<AppProxy>
  <DeleteCertificates>
    <FileName></FileName>
  </DeleteCertificates>
```

```
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	DeleteCertificates
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index.	String, case-insensitive. Length: 1 to 255 characters.	N/A

AppProxy/CommitWhiteLists

This table contains information about committing SSL whitelist.

XML structure

```
<AppProxy>
  <CommitWhiteLists>
    <Commit></Commit>
  </CommitWhiteLists>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	CommitWhiteLists
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Commit	Action of committing SSL whitelist	N/A	This column must be empty.	N/A

Contents

AppProxy 1

AppProxy/PolicyRules 1
- XML structure 1
- Table description 1
- Columns 1

AppProxy/RuleSrcAddrs 2
- XML structure 2
- Table description 2
- Columns 2

AppProxy/RuleDestAddrs 3
- XML structure 3
- Table description 3
- Columns 4

AppProxy/RuleSrcSecZones 4
- XML structure 4
- Table description 4
- Columns 5

AppProxy/RuleDestSecZones 5
- XML structure 5
- Table description 5
- Columns 6

AppProxy/RuleUsers 6
- XML structure 6
- Table description 6
- Columns 7

AppProxy/RuleUserGrps 7
- XML structure 7
- Table description 8
- Columns 8

AppProxy/RuleServGrps 8
- XML structure 8
- Table description 9
- Columns 9

AppProxy/WhiteListHostNames 9
- XML structure 9
- Table description 10
- Columns 10

AppProxy/WhiteListPredefine 10
- XML structure 10
- Table description 10
- Columns 11

AppProxy/WhiteListPredefineChromeHsts 11
- XML structure 11
- Table description 11
- Columns 12

AppProxy/TrustCertificate 12
- XML structure 12
- Table description 12
- Columns 12

AppProxy

AppProxy/PolicyRules

This table contains proxy rule information.

XML structure

```
<AppProxy>
  <PolicyRules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <Enable></Enable>
    </Rule>
  </PolicyRules>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	PolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65536.	When creating a rule, if the ID is set to 0, the device will automatically assign an ID. The value 65536 is reserved for default rule.
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be “default”. When operating the default rule, this column cannot be specified.
Action	Action for the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule		• **1**—No proxy. • **2**—SSL decrypt. • **3**—TCP proxy.	
Enable	Enabling status of the rule	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	When operating the default rule, this column cannot be set to 0.

AppProxy/RuleSrcAddrs

This table contains source address object group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleSrcAddrs>
    <SrcAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </RuleSrcAddrs>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcAddrs
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
NameList	Object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	The value cannot be “any”.

AppProxy/RuleDestAddrs

This table contains destination address object group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleDestAddrs>
    <DestAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </RuleDestAddrs>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestAddrs
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
NameList	Object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	The value cannot be “any”.

AppProxy/RuleSrcSecZones

This table contains source security zone information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleSrcSecZones>
    <SrcSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </RuleSrcSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcSecZones
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
NameList	Zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be “any”.

AppProxy/RuleDestSecZones

This table contains destination security zone information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleDestSecZones>
    <DestSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </RuleDestSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestSecZones
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
ZoneList	Zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be “any”.

AppProxy/RuleUsers

This table contains user information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUsers>
    <User>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserList>
        <UserName></UserName>
        <DomainName></DomainName>
      </UserList>
    </User>
  </RuleUsers>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUsers
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
UserList	User list	Data structure	Members include: • UserName • DomainName	N/A
UserName	Name of the user	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ | / : * ? < > @.
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleUserGrps

This table contains user group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUserGrps>
    <UserGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserGrpList>
        <UserGrpName></UserGrpName>
        <DomainName></DomainName>
      </UserGrpList>
    </UserGrp>
  </RuleUserGrps>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUserGrps
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
UserGrpList	User group list	Data structure	Members include: • UserGrpName • DomainName	N/A
UserGrpName	Name of the user group	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleServGrps

This table contains service object group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleServGrps>
    <ServGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
```

```
      <NameItem></NameItem>
    </NameList>
  </ServGrp>
</RuleServGrps>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleServGrps
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
NameList	Service group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	The value cannot be “any”.

AppProxy/WhiteListHostNames

This table contains information of user-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListHostNames>
    <HostName>
      <Name></Name>
    </HostName>
  </WhiteListHostNames>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListHostNames
Table type	Multi-instance table
Row name	HostName
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	The host name may contain space.

AppProxy/WhiteListPredefine

This table contains information of pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefine>
    <HostName>
      <Type></Type>
      <Name></Name>
      <Enable></Enable>
    </HostName>
  </WhiteListPredefine>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefine
Table type	Multi-instance table
Row name	HostName
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the host name belongs to the pre-define chrome-HSTS list	Index	Enumeration: • **1**—Not in chrome-HSTS. • **2**—in chrome-HSTS.	N/A
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	The host name may contain spaces.
Enable	Enabling status of the host name	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A

AppProxy/WhiteListPredefineChromeHsts

This table contains the state information of chrome-HSTS in pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefineChromeHsts>
    <Enable></Enable>
  </WhiteListPredefineChromeHsts>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefineChromeHsts
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of host names in chrome-HSTS whitelist	N/A	Boolean: • **true**—Enabled • **false**—Disabled	N/A

AppProxy/TrustCertificate

This table contains credibility information of certificates.

XML structure

```
<AppProxy>
  <TrustCertificates>
    <TrustCertificate>
      <FileName></FileName>
      <Trust></Trust>
    </TrustCertificate>
  </TrustCertificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	TrustCertificates
Table type	Multi-instance table
Row name	TrustCertificate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
Trust	Credibility type of the certificate	N/A	Enumeration: • **0**—untrust. • **1**—trust. • **2**—trust&untrust.	N/A

Contents

AppProxy 1

AppProxy/GetRules 1
- XML structure 1
- Table description 2
- Columns 2

AppProxy/QueryRules 3
- XML structure 3
- Table description 4
- Columns 4

AppProxy/RuleSrcAddrs 6
- XML structure 6
- Table description 6
- Columns 7

AppProxy/RuleDestAddrs 7
- XML structure 7
- Table description 7
- Columns 8

AppProxy/RuleSrcSecZones 8
- XML structure 8
- Table description 8
- Columns 9

AppProxy/RuleDestSecZones 9
- XML structure 9
- Table description 9
- Columns 10

AppProxy/RuleUsers 10
- XML structure 10
- Table description 10
- Columns 11

AppProxy/RuleUserGrps 11
- XML structure 11
- Table description 12
- Columns 12

AppProxy/RuleServGrps 12
- XML structure 12
- Table description 13
- Columns 13

AppProxy/WhiteListHostNames 13
- XML structure 13
- Table description 14
- Columns 14

AppProxy/WhiteListPredefine 14
- XML structure 14
- Table description 14
- Columns 15

AppProxy/WhiteListPredefineChromeHsts 15
- XML structure 15
- Table description 15
- Columns 16

AppProxy/TrustCertificate 16
- XML structure 16
- Table description 16
- Columns 16

AppProxy/Certificates 17
- XML structure 17
- Table description 17
- Columns 17

AppProxy/Specifications ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18

AppProxy

AppProxy/GetRules

This table contains information about proxy rules.

XML structure

```
<AppProxy>
  <GetRules>
    <Rule>
      <ID></ID>
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
      <ServGrpList>
        <ServGrpItem></ServGrpItem>
      </ServGrpList>
      <UserList>
        <UserItem></UserItem>
        <DomainItem></DomainItem>
      </UserList>
      <UserGrpList>
        <UserGrpItem></UserGrpItem>
        <DomainItem></DomainItem>
      </UserGrpList>
      <Enable></Enable>
      <AllRulesCount></AllRulesCount>
    </Rule>
  </GetRules>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	GetRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65536	The value 65536 is reserved for default rule.
Name	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the rule	N/A	Enumeration: • **1**—No proxy. • **2**—SSL decrypt. • **3**—TCP proxy.	N/A
SrcZoneList	Source zone list	Data structure	Members include: • SrcZoneItem	N/A
SrcZoneItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestZoneList	Destination zone list	Data structure	Members include: • DestZoneItem	N/A
DestZoneItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
SrcAddrList	Source address list	Data structure	Members include: • SrcAddrItem	N/A
SrcAddrItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
DestAddrList	Destination address list	Data structure	Members include: • DestAddrItem	N/A
DestAddrItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
ServGrpList	Service group list	Data structure	Members include: • ServGrpItem	N/A
ServGrpItem	Name of the	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service object group		Length: 0 to 63 characters.	
UserList	User list	Data structure	Members include: • UserItem • DomainItem	N/A
UserItem	Name of the user	N/A	String, case-sensitive. Length: 0 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ | / : * ? < > @.
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
UserGrpList	User group list	Data structure	Members include: • UserGrpItem • DomainItem	N/A
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Length: 0 to 200 characters.	N/A
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
Enable	Enabling status of the rule	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
AllRulesCount	Total number of rules	N/A	Unsigned integer.	

AppProxy/QueryRules

This table contains information about proxy rules.

XML structure

```
<AppProxy>
  <QueryRules>
    <Rule>
      <ID></ID>
```

```
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
       <ServGrpList>
        <ServGrpItem></ServGrpItem>
      </ServGrpList>
      <UserList>
        <UserItem></UserItem>
        <DomainItem></DomainItem>
      </UserList>
      <UserGrpList>
        <UserGrpItem></UserGrpItem>
        <DomainItem></DomainItem>
      </UserGrpList>
      <Enable></Enable>
      <AllRulesCount></AllRulesCount>
    </Rule>
  </QueryRules>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	QueryRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer.	The value 65536 is reserved for the default

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 65536	rule.
Name	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the rule	N/A	Enumeration: • **1**—No proxy. • **2**—SSL decrypt. • **3**—TCP proxy.	N/A
SrcZoneList	Source zone list	Data structure	Members include: • SrcZoneItem	N/A
SrcZoneItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestZoneList	Destination zone list	Data structure	Members include: • DestZoneItem	N/A
DestZoneItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
SrcAddrList	Source address list	Data structure	Members include: • SrcAddrItem	N/A
SrcAddrItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
DestAddrList	Destination address list	Data structure	Members include: • DestAddrItem	N/A
DestAddrItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
ServGrpList	Service group list	Data structure	Members include: • ServGrpItem	N/A
ServGrpItem	Name of the service object group	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
UserList	User list	Data structure	Members include: • UserItem • DomainItem	N/A
UserItem	Name of the user	N/A	String, case-sensitive. Length: 0 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ | / : * ? < > @.
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un,

Column name	Column description	Column type	Data type and restrictions	Remarks
				if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
UserGrpList	User group list	Data structure	Members include: • UserGrpItem • DomainItem	N/A
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Length: 0 to 200 characters.	N/A
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
Enable	Enabling status of the rule	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
AllRulesCount	Total number of rules	N/A	Unsigned integer.	

AppProxy/RuleSrcAddrs

This table contains source address object group information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleSrcAddrs>
    <SrcAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </RuleSrcAddrs>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcAddrs

Item	Description
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
NameList	Object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source address object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be “any”.

AppProxy/RuleDestAddrs

This table contains destination address object group information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleDestAddrs>
    <DestAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </RuleDestAddrs>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestAddrs
Table type	Multi-instance table

Item	Description
Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
NameList	Object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be “any”.

AppProxy/RuleSrcSecZones

This table contains source security zone information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleSrcSecZones>
    <SrcSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </RuleSrcSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcSecZones
Table type	Multi-instance table

Item	Description
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
NameList	Zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be “any”.

AppProxy/RuleDestSecZones

This table contains destination security zone information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleDestSecZones>
    <DestSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </RuleDestSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestSecZones
Table type	Multi-instance table
Row name	DestSecZones

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
NameList	Zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be “any”.

AppProxy/RuleUsers

This table contains user information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUsers>
    <User>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserList>
        <UserName></UserName>
        <DomainName></DomainName>
      </UserList>
    </User>
  </RuleUsers>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUsers
Table type	Multi-instance table
Row name	User

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
UserList	User list	Data structure	Members include: • UserName • DomainName	N/A
UserName	Name of the user	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ | / : * ? < > @.
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleUserGrps

This table contains user group information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUserGrps>
    <UserGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserGrpList>
        <UserGrpName></UserGrpName>
        <DomainName></DomainName>
      </UserGrpList>
    </UserGrp>
  </RuleUserGrps>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUserGrps
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
UserGrpList	UserGrp list	Data structure	Members include: • UserGrpName • DomainName	N/A
UserGrpName	Name of the user group	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ | / ?: * ? < > @, and it cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleServGrps

This table contains service object group information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleServGrps>
    <ServGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
```

```
      </NameList>
    </ServGrp>
  </RuleServGrps>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleServGrps
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false**—No.	This value is always false.
NameList	Service group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be “any”.

AppProxy/WhiteListHostNames

This table contains information of user-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListHostNames>
    <HostName>
      <Name></Name>
      <RowCount></RowCount>
    </HostName>
  </WhiteListHostNames>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListHostNames
Table type	Multi-instance table
Row name	HostName
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RowCount	Number of host name items	N/A	Unsigned integer.	N/A

AppProxy/WhiteListPredefine

This table contains information of pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefine>
    <HostName>
      <Type></Type>
      <Name></Name>
      <Enable></Enable>
      <RowCount></RowCount>
    </HostName>
  </WhiteListPredefine>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefine
Table type	Multi-instance table
Row name	HostName

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the host name belongs to the pre-define chrome-HSTS list	Index	Enumeration: • **1**—Not in chrome-HSTS. • **2**—In chrome-HSTS.	N/A
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Enable	Enabling status of the host name	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
RowCount	Number of the host name items	N/A	Unsigned integer.	N/A

AppProxy/WhiteListPredefineChromeHsts

This table contains the state information of chrome-HSTS in pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefineChromeHsts>
    <Enable></Enable>
  </WhiteListPredefineChromeHsts>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefineChromeHsts
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of host names in chrome-HSTS whitelist	N/A	Boolean: • **true**—Enabled • **false**—Disabled	N/A

AppProxy/TrustCertificate

This table contains credibility information of certificates.

XML structure

```
<AppProxy>
  <TrustCertificates>
    <TrustCertificate>
      <FileName></FileName>
      <Trust></Trust>
    </TrustCertificate>
  </TrustCertificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	TrustCertificates
Table type	Multi-instance table
Row name	TrustCertificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of certificate	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
Trust	Credibility type of the certificate	N/A	Enumeration: • **0**—untrust. • **1**—trust. • **2**—untrust&trust.	N/A

AppProxy/Certificates

This table contains certificates information.

XML structure

```
<AppProxy>
  <Certificates>
    <Certificate>
      <Name></Name>
      <Trust></Trust>
      <Issuer></Issuer>
      <Subject></Subject>
      <StartDate></StartDate>
      <EndDate></EndDate>
      <Version></Version>
      <Serialnumber></Serialnumber>
      <Extend></Extend>
    </Certificate>
  </Certificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	Certificates
Table type	Multi-instance table
Row name	Certificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	File name of CA certificate.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
Trust	Credibility type of the certificate.	N/A	Enumeration: • **0**—untrust. • **1**—trust. • **2**—untrust&trust.	N/A
Issuer	Publisher of the certificate	N/A	String	N/A
Subject	Holder of the certificate	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDate	The effective date of certificate	N/A	String	N/A
EndDate	Expiration date of the certificate	N/A	String	N/A
Version	Version of the certificate	N/A	Unsigned integer	N/A
Serialnumber	Serial number of the certificate	N/A	String	N/A
Extend	Extended information of the certificate	N/A	String	N/A

AppProxy/Specifications

This table contains specification information.

XML structure

```
<Specifications>
    <RuleSrcAddrLimit></RuleSrcAddrLimit>
    <RuleDestAddrLimit></RuleDestAddrLimit>
    <RuleServGrpsLimit></RuleServGrpLimit>
    <RuleSrcSecZonesLimit></RuleSrcSecZonesLimit>
    <RuleDestSecZonesLimit></RuleDestSecZonesLimit>
    <RuleUsersLimit></RuleUsersLimit>
    <RuleUserGrpsLimit></RuleUserGrpsLimit>
</Specifications>
```

Table description

Item	Description
Feature name	AppProxy
Table name	Specifications
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleSrcAddrLimit	Number limit of source address	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	object groups in a rule			
RuleDestAddrLimit	Number limit of destination address object groups in a rule	N/A	Unsigned integer.	N/A
RuleServGrpsLimit	Number limit of service object groups in a rule	N/A	Unsigned integer.	N/A
RuleSrcSecZonesLimit	Number limit of source security zones in a rule	N/A	Unsigned integer.	N/A
RuleDestSecZonesLimit	Number limit of destination security zones in a rule	N/A	Unsigned integer.	N/A
RuleUsersLimit	Number limit of users in a rule	N/A	Unsigned integer.	N/A
RuleUserGrpsLimit	Number limit of user groups in a rule	N/A	Unsigned integer.	N/A

Contents

AppProxy 2
AppProxy/MoveBeforeRules 2
AppProxy/ImportCertificates 2
AppProxy/CommitWhiteLists 3
AppProxy/RuleSrcAddrs 3
AppProxy/RuleDestAddrs 3
AppProxy/RuleSrcSecZones 3
AppProxy/RuleDestSecZones 4
AppProxy/RuleUsers 4
AppProxy/RuleUserGrps 4
AppProxy/RuleServGrps 5
AppProxy/WhiteListHostNames 5
AppProxy/WhiteListPredefine 5
AppProxy/WhiteListPredefineChromeHsts 5
AppProxy/PolicyRules 6

AppProxy

AppProxy/MoveBeforeRules

Message	Explanation
The default rule cannot be moved. 默认规则不能移动。	The default rule cannot be moved before any user-defined rules. 默认规则不能被移动到任何自定义规则之前。
The rule to be removed or the target rule doesn't exist. 要移动的规则或目标规则不存在。	The rule to be moved or the target rule does not exist and processing fails. 将要移动的规则或目标规则不存在，处理失败。
The two rule IDs cannot be the same. 要移动的规则与目标规则是同一个规则。	The rule to be moved and the target rule cannot be the same rule. 要移动的规则和目标规则不能是同一个规则

AppProxy/ImportCertificates

Message	Explanation
Certificate file does not exist. 证书文件不存在。	The certificate file to import does not exist. 要导入的证书文件不存在。
Invalid password. 无效密码。	The input password does not match the imported certificate. 输入的密码与导入的证书不匹配。
The column Trust cannot be empty. Trust列不能为空。	Trust column must be specified when importing a certificate. 导入证书时必须制定trust列。
Failed to parse the certificate. 导入的证书解析失败。	Imported certificate is invalid and the parsing fails. 导入的证书不合法，导致解析失败
Failed to verify the certificate. 导入的证书验证失败。	The certificate verification fails because the imported certificate expires or other reasons. 导入的证书过期或由于其他原因导致验证失败。
The certificate file does not have a key pair. 导入的证书不含密钥对。	The imported certificate must contain a key pair. 导入的证书必须包含密钥对。
The certificate file does not have a root certificate. 导入的证书不包含根证书。	The imported certificate must contain the root certificate. 导入的证书必须包含根证书。
The certificate and the public key do not match. 导入的证书公钥不匹配。	The imported certificate and public key do not match. 导入的证书和公钥不匹配。
An SSL decryption certificate with the same name already exists. 该证书已存在。	Certificate cannot be imported if it has the same name with a certificate on the device. 不能导入文件名同名的证书。

AppProxy/CommitWhiteLists

Message	Explanation
Failed to submit the SSL whitelist settings. 提交白名单失败。	Failure to compile the whitelist due to insufficient memory or other reasons. 由于内存不足或其他原因导致编译白名单失败，。
Activating the SSL whitelist settings. Please wait... 正在提交白名单，请稍等。	A whitelist is being submitted. The next submission can be processed only after the submission is completed. 正在提交白名单，需要等提交完之后，才可以处理下一次提交。

AppProxy/RuleSrcAddrs

Message	Explanation
Object group type not supported. 对象组类型不支持。	The specified object group must be of the address type. 引用的对象组必须是地址类型的。
Maximum number of source IP address object groups in the rule already reached. 引用的源地址对象组已达上限。	A maximum of 64 source address object groups can be used in one rule. 规则下最多引用64个源地址对象组。
The object group does not exist. 对象组不存在。	The specified address object group does not exist. Please create the address object group before using it. 引用的地址对象组不存在，需要先创建地址对象组才可以引用。

AppProxy/RuleDestAddrs

Message	Explanation
Object group type not supported. 对象组类型不支持。	The specified object group must be of the address type. 引用的对象组必须是地址类型的。
Maximum number of destination IP address object groups in the rule already reached. 引用的目的地址对象组已达上限。	A maximum of 64 destination address object groups can be used in one rule. 规则下最多引用64个目的地址对象组。
The object group does exist. 对象组不存在。	The specified address object group does not exist. Please create the address object group before using it. 引用的地址对象组不存在，需要先创建地址对象组才可以引用。

AppProxy/RuleSrcSecZones

Message	Explanation
Maximum number of source security zones in the rule already reached. 引用的源安全域已达上限。	A maximum of 16 source security zones can be used in one rule. 规则下最多引用16个源安全域。
Configuration succeeded but the source security zone does not exist. 引用的源安全域不存在。	Configuration succeeded, but it does not take effect because the source security zone does not exist. 配置成功了，但是源安全域不存在，配置不生效。

AppProxy/RuleDestSecZones

Message	Explanation
Maximum number of destination security zones in the rule already reached. 引用的源安全域已达上限。	Maximum 16 destination security zones referenced under rules. 规则下最多引用16个目的安全域。
Configuration succeeded but the destination security zone does not exist. 引用的源安全域不存在。	Configuration succeeded, but it does not take effect because the destination security zone does not exist. 配置成功了，但是源安全域不存在，配置不生效。

AppProxy/RuleUsers

Message	Explanation
Configuration succeeded but the user doesn't exist. 引用的用户不存在。	Configuration succeeded, but it does not take effect because the user does not exist. 配置成功了，但是用户不存在，配置不生效。
Maximum number of users in the rule already reached. 引用的用户已达上限。	A maximum of 64 users can be specified in a rule. 规则下最多引用64个用户。
The user name cannot be a, al, or all and cannot contain the following special characters:\r\n\\ | / : * ? < > @. 用户名不能包含 \\, |, /, :, *, ?, <, >, @,且不能为a、al、和all。	Input username is not valid. Please enter a new one according to the prompt message. 输入的用户名不合法，按照提示输入。
The domain name cannot contain the following characters: \r\n\\ | / : * ? < > @. 域名不能包含 /, \\, |, :, *, ?, <, >, @。	Input domain name is not valid. Please enter a new one according to the prompt message. 输入的域名不合法，按照提示输入。

AppProxy/RuleUserGrps

Message	Explanation
Configuration succeeded but the user groups do not exist. 引用的用户组不存在。	Configuration succeeded, but it does not take effect because the user groups do not exist. 配置成功了，但是用户组不存在，配置不生效。
Maximum number of user groups in the rule already reached. 引用的用户组已达上限。	A maximum of 64 user groups can be specified by a under rule. 规则下最多引用64个用户组。
The domain name cannot contain the following characters: \r\n\\ | / : * ? < > @.	Input domain name is not valid. Please enter a new one according to the prompt message.

域名不能包含 /, \\, |, :, *, ?, <, >, @。	输入的域名不合法，按照提示输入。

AppProxy/RuleServGrps

Message	Explanation
Incorrect object group type. 对象组类型不支持。	The specified object group must be of the service type. 引用的对象组必须是服务类型的。
Maximum number of service object groups in the rule already reached. 引用的服务已达上限。	A maximum of 64 service object groups can be specified in a rule. 规则下最多引用64个服务对象组。
The object group does not exist. 对象组不存在。	The specified service object group does not exist. Please create the service object group before using it. 引用的服务对象组不存在，需要先创建服务对象组才可以引用。

AppProxy/WhiteListHostNames

Message	Explanation
Maximum number of user-defined hostnames on the SSL hostname whitelist already reached. 域名白名单已达上限。	A maximum of 1000 items can be created in user-defined hostname whitelist. 自定义域名白名单最多1000个。

AppProxy/WhiteListPredefine

Message	Explanation
The hostname is not on the pre-defined SSL hostname whitelist. 预定义白名单中不存在指定的域名。	The specified domain name is not on the pre-defined whitelist. 指定的域名不在预定义白名单里。
To disable the Chrome-HSTS whitelist entry, you must first turn on the Chrome-HSTS whitelist by using the app-proxy ssl whitelist predefined-hostname chrome-hsts enable command. Chrome HSTS列表已经禁用。	Chrome HSTS whitelist is already disabled. Chrome HSTS列表已经去使能了，不需要再去使能。

AppProxy/WhiteListPredefineChromeHsts

Message	Explanation
To activate the setting, execute app-proxy ssl	After modifying the whitelist, please submit the whitelist

whitelist activate. 白名单列表已修改，请提交。	to make it take effect. 修改白名单列表之后，需要提交白名单才能生效。

AppProxy/PolicyRules

Message	Explanation
The rule ID is already used by another application proxy policy rule. 规则已经存在。	When creating a rule, the specified ID is already used. A new ID can be manually specified or automatically assigned without specifying an ID at the time of creation. 创建规则时，指定的ID已经被占用了，需要换一个ID或者创建时不指定ID，自动分配。
The rule name is already used by another application proxy policy rule. 规则名称已存在。	When creating a rule, a rule with the specified name already exists, but the ID is inconsistent with the ID of an existing rule. 创建规则时，已有指定名称的规则，但是ID跟已存在的规则的ID不一致。
Maximum number of application proxy policy rules already reached. 规则个数已达上限。	A maximum of 1024 rules can be created. 最多只能创建1024个代理策略规则。
Invalid name. 无效的规则名称。	Rule name cannot be default. 规则名称不能是default。
The default rule cannot delete. 默认策略不能删除。	The default rule is automatically created at startup and cannot be deleted. 默认策略在进程启动时自动创建，不能删除。
The default rule cannot be disabled. 默认策略不能禁用。	The default rule cannot be enabled. It can only be modified. 默认策略不能去使能，只能修改动作。

Contents

APR 1
APR/ClearApplicationStatistics 1
XML structure 1
Table description 1
Columns 1

APR

APR/ClearApplicationStatistics

This table contains APR statistics information.

XML structure

```
<APR>
  <ClearApplicationStatistics>
    <Statistic>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Statistic>
  </ClearApplicationStatistics>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	ClearApplicationStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Clear	Resets counters.	N/A	This column must be empty.	N/A

Contents

APR 1

APR/GeneralPortMappings 1
XML structure 1
Table description 1
Columns 2
APR/Ipv4PortMappings 3
XML structure 3
Table description 3
Columns 4
APR/Ipv6PortMappings 5
XML structure 5
Table description 6
Columns 6
APR/Ipv4SubnetPortMappings 8
XML structure 8
Table description 8
Columns 9
APR/Ipv6SubnetPortMappings 10
XML structure 10
Table description 11
Columns 11
APR/ Ipv4ACLPortMappings 13
XML structure 13
Table description 13
Columns 14
APR/ Ipv6ACLPortMappings 15
XML structure 15
Table description 15
Columns 16
APR/Applications 17
XML structure 17
Table description 17
Columns 18
APR/AppGroups 18
XML structure 18
Table description 18
Columns 19
APR/AppGroupMembers 19
XML structure 19
Table description 19
Columns 20
APR/AppGroupMembersIncGrp 20
XML structure 20
Table description 21
Columns 21
APR/StatisticOnInterfaces 21
XML structure 21
Table description 22
Columns 22
APR/TerminalGroups 22
XML structure 22
Table description 23
Columns 23
APR/TerminalGroupMembersJson 23
XML structure 24
Table description 24
Columns 24

APR/TerminalExtractEnable ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26

APR

APR/GeneralPortMappings

This table contains information about port mappings.

XML structure

```
<APR>
  <GeneralPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </GeneralPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	GeneralPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet. If two port mappings are configured with the same port number and transport layer protocol, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protoconame can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.
Support for row creation and deletion			Yes	

APR/Ipv4PortMappings

This table contains information about IPv4 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv4PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv4PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6—**TCP. • **17—**UDP. • **33—**DCCP. • **132—**SCTP. • **136—**UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6PortMappings

This table contains information about IPv6 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv6PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
```

```
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv6PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6—**TCP. • **17—**UDP. • **33—**DCCP. • **132—**SCTP. • **136—**UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
StartIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated..	Example: 1:1::1:6. This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4SubnetPortMappings

This table contains information about IPv4 subnet-based host-port mappings.

XML structure

```
<APR>
  <Ipv4SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv4SubnetPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4SubnetPortMappings
Table type	Multi-instance table

Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv4PrefixLength	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 1 to 32.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6SubnetPortMappings

This table contains information about IPv6 subnet-based host-port mappings.

XML structure

```
<APR>
  <Ipv6SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
```

```
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv6SubnetPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6SubnetPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv6PrefixLength	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv4ACLPortMappings

This table contains information about IPv4 ACL-based host-port mappings.

XML structure

```
<APR>
  <Ipv4ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
    </PortMapping>
  </Ipv4ACLPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • **6—**TCP. • **17—**UDP. • **33—**DCCP. • **132—**SCTP. • **136—**UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv6ACLPortMappings

This table contains information about IPv6 ACL-based host-port mappings.

XML structure

```
<APR>
  <Ipv6ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
    </PortMapping>
  </Ipv6ACLPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Applications

This table contains information about predefined and user-defined applications.

XML structure

```
<APR>
  <Applications>
    <Application>
      <Type></Type>
      <AppName></AppName>
      <SecRisk></SecRisk>
    </Application>
  </Applications>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Applications
Table type	Multi-instance table
Row name	Application
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the application layer protocol	Index	Enumeration: • 0—predefined. • 1—user-defined.	N/A
AppName	Application layer protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment.
SecRisk	Application layer protocol security risk	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

APR/AppGroups

This table contains information about the user-defined application groups.

XML structure

```
<APR>
  <AppGroups>
    <GroupInfo>
      <GroupName></GroupName>
      <Description></Description>
    </GroupInfo>
  </AppGroups>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppGroups
Table type	Multi-instance table
Row name	GroupInfo

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.
Description	Description for the application group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank spaces can be included in a description. The default description of the user-defined application group is "User defined group".

APR/AppGroupMembers

This table contains the application protocols included in a user-defined application group.

XML structure

```
<APR>
  <AppGroupMembers>
    <GroupMember>
      <GroupName></GroupName>
      <AppName></AppName>
    </GroupMember>
  </AppGroupMembers>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppGroupMembers
Table type	Multi-instance table
Row name	GroupMember

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	User-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.
AppName	Predefined or user-defined application protocol name which is added to the application group	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. A maximum of 65535 user-defined application protocols can be added to an application group. If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group. Whether the device can recognize the packets of this protocol depends on your configuration.

APR/AppGroupMembersIncGrp

This table contains the application groups included in an application group.

XML structure

```
<APR>
  <AppGroupMembersIncGrp>
```

```
    <GroupMember>
      <GroupName></GroupName>
      <IncGrpName></IncGrpName>
    </GroupMember>
  </AppGroupMembersIncGrp>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	`AppGroupMembersIncGrp`
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.
`IncGrpName`	Application group name which is added to the application group	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.

APR/StatisticOnInterfaces

This table contains the interfaces where statistic is enabled.

XML structure

```
<APR>
  <StatisticOnInterfaces>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <EnableStatistic></EnableStatistic>
    </Interface>
  </StatisticOnInterfaces>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	StatisticOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	The direction of the interface	Index	• Enumeration: • 0—Inbound. • 1—Outbound.	**N/A**
EnableStatistic	Whether enable statistic for the interface	N/A	• Boolean: • true—YES. • false—NO (default).	N/A

APR/TerminalGroups

This table contains information about terminal groups.

XML structure

```
<APR>
  <TerminalGroups>
    <GroupInfo>
      <GroupName></GroupName>
      <GroupID></GroupID>
```

```
      <Type></Type>
      <Description></Description>
    </GroupInfo>
  </TerminalGroups>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalGroups
Table type	Multi-instance table
Row name	GroupInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined terminal group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal name can't be "invalid" or "other". You can create up to 65536 terminal groups on the device.
GroupID	Terminal group ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Type	Terminal group type	N/A	Enumeration: • 0—predefined. • 1—user-defined.	N/A
Description	Description for the terminal group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank spaces can be included in a description. The default description of the user-defined terminal group is "User defined group".

APR/TerminalGroupMembersJson

This table contains terminals included in a terminal group.

XML structure

```
<APR>
  <TerminalGroupMembers>
    <GroupMember>
      <GroupName></GroupName>
      <TerminalValJson></TerminalValJson>
      <LastTerminal></LastTerminal>
    </GroupMember>
  </TerminalGroupMembers>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined terminal name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal name can't be "invalid" or "other". You can create up to 65536 terminal groups on the device.

Column name	Column description	Column type	Data type and restrictions	Remarks
TerminalValJson	Predefined or user-defined terminal names in the terminal group	Index	String, case-insensitive. Length: 1 to 65535 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal name can't be "invalid" or "other". The terminal name must be standard and can be identified by the device. A maximum of 65535 user-defined terminals can be added to a terminal group. If you add a nonexistent terminal to the terminal group, the system first creates the terminal before adding it to the terminal group. Whether the device can recognize the packets of this terminal depends on your configuration.
LastTerminal	The last terminal in the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

APR/TerminalExtractEnable

This table contains information about whether the terminal extraction function is enabled.

XML structure

```
<APR>
  <TerminalExtractEnable>
    <ExtractEnable></ExtractEnable>
  </TerminalExtractEnable>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalExtractEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtractEnable	Whether the terminal extraction function is enabled	Index	Boolean: • true—YES • false—NO	

Contents

APR 1

APR/PredefinedPortMappings 1
XML structure 1
Table description 1
Columns 1
APR/GeneralPortMappings 2
XML structure 2
Table description 2
Columns 3
APR/Ipv4PortMappings 4
XML structure 4
Table description 4
Columns 5
APR/Ipv6PortMappings 6
XML structure 6
Table description 7
Columns 7
APR/Ipv4SubnetPortMappings 9
XML structure 9
Table description 9
Columns 10
APR/Ipv6SubnetPortMappings 11
XML structure 11
Table description 12
Columns 12
APR/ Ipv4ACLPortMappings 13
XML structure 13
Table description 14
Columns 14
APR/ Ipv6ACLPortMappings 15
XML structure 15
Table description 16
Columns 16
APR/Applications 17
XML structure 17
Table description 18
Columns 18
APR/AppGroups 19
XML structure 19
Table description 19
Columns 19
APR/AppGroupMembers 20
XML structure 20
Table description 20
Columns 21
APR/StatisticOnInterfaces 21
XML structure 21
Table description 22
Columns 22
APR/ApplicationStatistics 22
XML structure 22
Table description 23
Columns 23
APR/AppSubCategorys 24
XML structure 24
Table description 24
Columns 25

APR/SecurityRisks 25
XML structure 25
Table description 25
Columns 26
APR/RiskLevels 26
XML structure 26
Table description 26
Columns 26
APR/Terminals 27
XML structure 27
Table description 27
Columns 27
APR/TerminalGroups 28
XML structure 28
Table description 28
Columns 29
APR/TerminalGroupMembersJson 29
XML structure 29
Table description 29
Columns 30
APR/TerminalExtractEnable 30
XML structure 30
Table description 31
Columns 31
APR/VideoTerminalHeatMap 31
XML structure 31
Table description 32
Columns 32
APR/VideoIPSeg 32
XML structure 32
Table description 33
Columns 33
APR/VideoTerminalTable 33
XML structure 33
Table description 34
Columns 34
APR/VideoIPv6Seg 35
XML structure 35
Table description 35
Columns 35

APR

APR/PredefinedPortMappings

This table contains information about predefined port mappings.

XML structure

```
<APR>
  <PredefinedPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </PredefinedPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	PredefinedPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
L4ProtocolID	Transport layer protocol ID.	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name using the port mapping.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment.

APR/GeneralPortMappings

This table contains information about port mappings.

XML structure

```
<APR>
  <GeneralPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </GeneralPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	GeneralPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet. If two port mappings are configured with the same port number and transport layer protocol, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4PortMappings

This table contains information about IPv4 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv4PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv4PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6—**TCP. • **17—**UDP. • **33—**DCCP. • **132—**SCTP. • **136—**UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6PortMappings

This table contains information about IPv6 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv6PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
```

```
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv6PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6—**TCP. • **17—**UDP. • **33—**DCCP. • **132—**SCTP. • **136—**UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
StartIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated..	Example: 1:1::1:6. This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4SubnetPortMappings

This table contains information about IPv4 subnet-based host-port mappings.

XML structure

```
<APR>
  <Ipv4SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv4SubnetPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4SubnetPortMappings
Table type	Multi-instance table

Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 1 to 32.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6SubnetPortMappings

This table contains information about IPv6 subnet-based host-port mappings.

XML structure

```
<APR>
  <Ipv6SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv6SubnetPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6SubnetPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv6PrefixLength	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv4ACLPortMappings

This table contains information about IPv4 ACL-based host-port mappings.

XML structure

```
<APR>
  <Ipv4ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
```

```
    </PortMapping>
  </Ipv4ACLPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv6ACLPortMappings

This table contains information about IPv6 ACL-based host-port mappings.

XML structure

```
<APR>
  <Ipv6ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
    </PortMapping>
  </Ipv6ACLPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv6ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • **6**—TCP. • **17**—UDP. • **33**—DCCP. • **132**—SCTP. • **136**—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Applications

This table contains information about predefined and user-defined applications.

XML structure

```
<APR>
  <Applications>
    <Application>
      <Type></Type>
      <AppName></AppName>
      <AppID></AppID>
      <L5AppID></L5AppID>
      <AppSubCategoryID></AppSubCategoryID>
      <IsTunnel></IsTunnel>
      <IsEncrypted></IsEncrypted>
      <SecRisk></SecRisk>
      <RiskLevel></RiskLevel>
```

```
    </Application>
  </Applications>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Applications
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the application layer protocol	Index	Enumeration: • 0—predefined. • 1—user-defined.	N/A
AppName	Application layer protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment.
AppID	Application layer protocol ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
L5AppID	Application layer 5 protocol ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
AppSubCategoryID	Identify a subcategory	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
IsTunnel	Whether or not the protocol is a tunnel protocol	N/A	Boolean: • true—YES • false—NO (default).	N/A
IsEncrypted	Whether or not the protocol is a cryptographic protocol	N/A	Boolean: • true—YES • false—NO (default).	N/A
SecRisk	Application layer protocol security risk	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RiskLevel	Application layer protocol risk level	N/A	Unsigned integer. Value range: 1 to 2^{16} - 1.	N/A

APR/AppGroups

This table contains information about the application groups.

XML structure

```
<APR>
  <AppGroups>
    <GroupInfo>
      <GroupName></GroupName>
      <GroupID></GroupID>
      <Type></Type>
      <Description></Description>
    </GroupInfo>
  </AppGroups>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppGroups
Table type	Multi-instance table
Row name	GroupInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Application group ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Type	Application group type	N/A	• Enumeration: • 0—predefined. • 1—user-defined.	N/A
Description	Description for the application group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank spaces can be included in a description. The default description of the user-defined application group is "User defined group".

APR/AppGroupMembers

This table contains the application protocols included in an application group.

XML structure

```
<APR>
  <AppGroupMembers>
    <GroupMember>
      <GroupName></GroupName>
      <AppName></AppName>
    </GroupMember>
  </AppGroupMembers>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application group name can't be "invalid" or "other". You can create up to 65536 application groups on the device.
AppName	Predefined or user-defined application protocol name which is added to the application group	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application layer protocol name can't be "invalid" or "other". The application layer protocol name must be standard and can be identified by the equipment. A maximum of 65535 user-defined application protocols can be added to an application group. If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group. Whether the device can recognize the packets of this protocol depends on your configuration.

APR/StatisticOnInterfaces

This table contains the interfaces where statistic is enabled.

XML structure

```
<APR>
  <StatisticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <EnableStatistic></EnableStatistic>
    </Interface>
  </StatisticOnInterfaces>
```

```
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	StatisticOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	The direction of the interface	Index	• Enumeration: • 0—Inbound. • 1—Outbound.	**N/A**
EnableStatistic	Whether enable statistic for the interface	N/A	• Boolean: • true—YES. • false—NO (default).	N/A

APR/ApplicationStatistics

This table contains the statistics for the specified application protocols on the interface.

XML structure

```
<APR>
  <ApplicationStatistics>
    <Statistic>
      <IfIndex></IfIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <InPackets></InPackets>
      <InBytes></InBytes>
      <InPPS></InPPS>
      <InBPS></InBPS>
```

```
      <OutPackets></OutPackets>
      <OutBytes></OutBytes>
      <OutPPS></OutPPS>
      <OutBPS></OutBPS>
    </Statistic>
  </ApplicationStatistics>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	ApplicationStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Application protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	The application protocol name must be standard and can be identified by the equipment.
InPackets	Number of packets received by the interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InBytes	Number of bytes received by the interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InPPS	Packets received per second by the interface	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InBPS	Bytes received per second by the interface	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
OutPackets	Number of packets sent by the interface by the interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutBytes	Number of bytes sent by the interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutPPS	Packets sent per second by the interface	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
OutBPS	Bytes sent per second by the interface	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

APR/AppSubCategorys

This table contains information about the application categorys.

XML structure

```
<APR>
  <AppSubCategorys>
    <AppSubCategoryEntry>
      <ID></ID>
      <Name></Name>
    </AppSubCategoryEntry>
  </AppSubCategorys>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppSubCategorys
Table type	Multi-instance table
Row name	AppSubCategoryEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`ID`	Application category ID	Index	Unsigned integer. Value range: 0 to 232 - 1.	N/A
`Name`	Predefined application category name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). You can create up to 65536 application groups on the device.

APR/SecurityRisks

This table contains information about the application security risk.

XML structure

```
<APR>
  <SecurityRisks>
    <SecurityRisk>
      <RiskID></RiskID>
      <RiskName></RiskName>
      <RiskValue></RiskValue>
    </SecurityRisk>
  </SecurityRisks>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	SecurityRisks
Table type	Multi-instance table
Row name	SecurityRisk
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RiskID	Application layer protocol security risk ID	Index	Unsigned integer. Value range: 0 to 2^{16} - 1.	N/A
RiskName	Application layer protocol security risk name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RiskValue	Risk value	N/A	Unsigned integer. Value range: 0 to 2^{16} - 1.	N/A

APR/RiskLevels

This table contains information about the application risk level.

XML structure

```
<APR>
  <RiskLevels>
    <RiskLevel>
      <Level></Level>
      <Boundary></Boundary>
    </RiskLevel>
  </RiskLevels>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	RiskLevels
Table type	Multi-instance table
Row name	RiskLevel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Level	Application layer protocol risk level	Index	Unsigned integer. Value range: 1 to 2^{16} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Boundary	The boundary value of the level	N/A	Unsigned integer. Value range: 0 to 2^{16} - 1.	N/A

APR/Terminals

This table contains information about predefined and user-defined terminals.

XML structure

```
<APR>
  <Terminals>
    <Terminal>
      <Type></Type>
      <TermimalName></TerminalName>
      <TerminalID></TerminalID>
      <L5TerminalID></L5AppID>
      <TerminalSubCategoryID></TerminalSubCategoryID>
    </Terminal>
  </Terminals>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Terminals
Table type	Multi-instance table
Row name	Terminal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the terminal	Index	Enumeration: • 0—predefined. • 1—user-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TerminalName	Name of the terminal	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal name can't be "invalid" or "other". The terminal name must be standard and can be identified by the device.
TerminalID	ID of the terminal	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
L5TerminalID	Layer 5 protocol ID of the terminal	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TerminalSubCategoryID	Identify a subcategory	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A

APR/TerminalGroups

This table contains information about terminal groups.

XML structure

```
<APR>
  <TerminalGroups>
    <GroupInfo>
      <GroupName></GroupName>
      <GroupID></GroupID>
      <Type></Type>
      <Description></Description>
    </GroupInfo>
  </TerminalGroups>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalGroups
Table type	Multi-instance table
Row name	GroupInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined terminal group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal group name can't be "invalid" or "other". You can create up to 65536 terminal groups on the device.
GroupID	Terminal group ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Type	Terminal group type	N/A	Enumeration: • 0—predefined. • 1—user-defined.	N/A
Description	Description for the terminal group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank spaces can be included in a description. The default description of the user-defined terminal group is "User defined group".

APR/TerminalGroupMembersJson

This table contains terminals included in a terminal group.

XML structure

```
<APR>
  <TerminalGroupMembers>
    <GroupMember>
      <GroupName></GroupName>
      <TerminalValJson></TerminalValJson>
      <LastTerminal></LastTerminal>
    </GroupMember>
  </TerminalGroupMembers>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalGroupMembers

Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined terminal name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal group name can't be "invalid" or "other". You can create up to 65536 terminal groups on the device.
TerminalValJson	Predefined or user-defined terminal names in the terminal group	Index	String, case-insensitive. Length: 1 to 65535 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The terminal name can't be "invalid" or "other". The terminal name must be standard and can be identified by the device. A maximum of 65535 user-defined terminals can be added to a terminal group. If you add a nonexistent terminal to the terminal group, the system first creates the terminal before adding it to the terminal group. Whether the device can recognize the packets of this terminal depends on your configuration.
LastTerminal	The last terminal in the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

APR/TerminalExtractEnable

This table contains information about whether the terminal extraction function is enabled.

XML structure

```
<APR>
  <TerminalExtractEnable>
```

```
    <ExtractEnable></ExtractEnable>
  </TerminalExtractEnable>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	TerminalExtractEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtractEnable	Whether the terminal extraction function is enabled	Index	Boolean: • true—YES • false—NO	

APR/VideoTerminalHeatMap

This table contains the terminal heat map.

XML structure

```
<APR>
  <VideoTerminalHeatMap>
    <HeatMap>
      <Count></Count>
      <AddrType></AddrType>
      <AddrSeg></AddrSeg>
      <TerminalState></TerminalState>
      <DeviceType></DeviceType>
      <TerminalJsonVal></TerminalJsonVal>
    </HeatMap>
  </VideoTerminalHeatMap>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	VideoTerminalHeatMap
Table type	Multi-instance table
Row name	HeatMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Count	The number of IP addresses obtained	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddrType	The type of the address	Index	Enumeration: • 1—ipv4. • 2—ipv6.	N/A
AddrSeg	The address segment of the terminal	Index	String, case-insensitive. Length:1 to 45 characters.	IPv4 or IPv6.
TerminalState	The state of the terminal	N/A	Enumeration: • 1—Normal. • 2—Unreachable. • 3—Abnormal.	N/A
DeviceType	The type of the terminal	N/A	Enumeration: • 1—IPC. • 2—Others.	N/A
TerminalJson Val	Json values of information about the terminal	N/A	String, case-insensitive. Length: 0 to 65000 characters.	N/A

APR/VideoIPSeg

This table contains information about terminal IPv4 segments.

XML structure

```
<APR>
  <VideoIPSeg>
    <VideoSeg>
      <IPCount></IPCount>
      <IPJsonVal></IPJsonVal>
```

```
    </VideoSeg>
  </VideoIPSeg>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	VideoIPSeg
Table type	Multi-instance table
Row name	VideoSeg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPCount	The number of IPv4 segments obtained	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
IPJsonVal	Json values of information about IPv4 segments	N/A	String, case-insensitive. Length:0 to 65000 characters.	N/A

APR/VideoTerminalTable

This table contains terminal information in a table.

XML structure

```
<APR>
  <VideoTerminalTable>
    <VideoTable>
      <Position></Position>
      <AddrType></AddrType>
      <TerminalAddr></TerminalAddr>
      <AddrMask></AddrMask>
      <TerminalState></TerminalState>
      <DeviceType></DeviceType>
      <PageNo></PageNo>
      <CountPerPage></CountPerPage>
      <TotalCount></TotalCount>
      <TerminalJsonVal></TerminalJsonVal>
    </VideoTable>
```

```
  </VideoTerminalTable>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	VideoTerminalTable
Table type	Multi-instance table
Row name	VideoTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Position	Record the number	Index	Unsigned integer. Value range: 0 to 200.	N/A
AddrType	The type of the address	Index	Enumeration: • 1—ipv4. • 2—ipv6.	N/A
TerminalAddr	The address of the terminal	N/A	String, case-insensitive. Length:1 to 45 characters.	IPv4 or IPv6.
AddrMask	The mask of terminal address	N/A	Unsigned integer. Value range: 0 to 128.	N/A
TerminalState	The state of the terminal	N/A	Enumeration: • 1—Normal. • 2—Unreachable. • 3—Abnormal.	N/A
DeviceType	The type of the terminal	N/A	Enumeration: • 1—IPC. • 2—Others.	N/A
PageNo	Page number to display	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
CountPerPage	Number of ip per page	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
TotalCount	Total number of terminal addresses	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
TerminalJsonVal	Json values of information about the terminal	N/A	String, case-insensitive. Length:0 to 65000 characters.	N/A

APR/VideoIPv6Seg

This table contains information about terminal IPv6 segments.

XML structure

```
<APR>
  <VideoIPv6Seg>
    <VideoSeg>
      <IPv6Count></IPv6Count>
      <IPv6JsonVal></IPv6JsonVal>
    </VideoSeg>
  </VideoIPv6Seg>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	VideoIPv6Seg
Table type	Multi-instance table
Row name	VideoSeg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Count	The number of IPv6 segments obtained	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
IPv6JsonVal	Json values of information about IPv6 segments	N/A	String, case-insensitive. Length:0 to 65000 characters.	N/A

Contents

APR 1
APR/GeneralPortMappings 1
APR/Ipv4PortMappings 1
APR/Ipv6PortMappings 2
APR/Ipv4SubnetPortMappings 3
APR/Ipv6SubnetPortMappings 3
APR/Ipv4ACLPortMappings 4
APR/Ipv6ACLPortMappings 4
APR/Applications 5
APR/AppGroups 5
APR/AppGroupMembers 5
APR/AppGroupMembersIncGrp 6

APR

APR/GeneralPortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
Maximum number of port mappings already reached. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the limit. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, the maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv4PortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
End IP address cannot be smaller than start IP address. 结束地址不能小于起始地址。	Invalid configuration because the end IP address is lower than start IP address. 结束地址小于起始地址，则为无效地址。
Maximum number of port mappings already reached. 端口映射条目个数已达到最大值。	When adding a port mapping, number of port mappings reached the limit. 新增端口映射时，端口映射条目个数已达到最大值。

An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group, and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv6PortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
End IP address cannot be smaller than start IP address. 结束地址不能小于起始地址。	Invalid configuration because the end IP address is lower than start IP address. 结束地址小于起始地址，则为无效地址。
Maximum number of port mappings already reached. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the maximum. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv4SubnetPortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
Number of port mappings exceeded the limit. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the maximum. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv6SubnetPortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
Number of port mappings exceeded the limit. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the maximum. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。

The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv4ACLPortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
Number of port mappings exceeded the limit. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the maximum. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required. 应用层协议为必选配置项。	When adding a port mapping, an application layer protocol is required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Ipv6ACLPortMappings

Message	Explanation
The specified IP address range overlaps with an existing IP address range. 指定的网段地址与已有网段地址重叠。	When adding a port mapping, the specified IP address range overlaps with an existing IP address range. 新增端口映射时，指定的网段地址与已有网段地址重叠。
Number of port mappings exceeded the limit. 端口映射条目个数已达到最大值。	When adding a port mapping, the number of port mappings reached the maximum. 新增端口映射时，端口映射条目个数已达到最大值。
An application layer protocol is required.	When adding a port mapping, an application layer protocol is

应用层协议为必选配置项。	required. 新增端口映射时，应用层协议为必选配置项。
Maximum number of user-defined applications already reached. 自定义应用数量达到最大值。	When adding a port mapping, maximum number of user-defined applications has been already reached. 新增端口映射时，自定义应用数量达到最大值。
The application is being used by a group and cannot be deleted. 此应用已被应用组引用无法删除。	The application is being used by a group and cannot be deleted. 删除端口映射时，应用已经被应用组引用无法删除。

APR/Applications

Message	Explanation
The specified application does not exist. 该应用不存在。	No custom applications are specified. 没有指定的自定义应用。

APR/AppGroups

Message	Explanation
Cannot modify the configuration of pre-defined application groups. 预定义应用组不能修改。	When configuring application groups, you cannot modify the configuration of pre-defined application groups. 配置应用组时，预定义应用组不能修改。
Maximum number of user-defined application groups already reached. 自定义应用组数量达到最大值。	The maximum number of user-defined application groups is reached and no application groups can be created. 创建自定义应用组时，数量已达到最大值。

APR/AppGroupMembers

Message	Explanation
Can't modify the configuration of pre-defined application groups. 预定义应用组不能修改。	When configuring application groups, you cannot modify the configuration of pre-defined application groups. 配置应用组时，预定义应用组不能修改。

APR/AppGroupMembersIncGrp

Message	Explanation
Can't modify the configuration of pre-defined application groups. 预定义应用组不能修改。	When configuring application groups, you cannot modify the configuration of pre-defined application groups. 配置应用组时，预定义应用组不能修改。

Contents

APT 1
APT/SandboxTryConnect 1
XML structure 1
Table description 1
Columns 1

APT

APT/SandboxTryConnect

This table contains APT try connect sandbox.

XML structure

```
<APT>
  <SandboxTryConnect>
      <Try></Try>
  </SandboxTryConnect>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	SandboxTryConnect
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Try	Try connect sandbox.	N/A	This column must be empty.	N/A

Contents

APT 1

APT/Policies 1
XML structure 1
Table description 1
Columns 1
APT/PolicyInProfile 2
XML structure 2
Table description 2
Columns 3
APT/LoginSandbox 3
XML structure 3
Table description 3
Columns 4

APT

APT/Policies

This table contains the APT policy information.

XML structure

```
<APT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <Application></Application>
      <Direction></Direction>
      <FileTypeList>
        <FileType></FileType>
      </FileTypeList>
    </Policy>
  </Policies>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PolicyDescription	Policy description	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Application	Application protocol type	N/A	Enumeration: • **1**—HTTP. • **2**—HTTPS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—FTP. • **8**—SMTP. • **16**—POP3. • **32**—IMAP. • **64**—NFS. • **128**—SMB.	
Direction	File transfer direction	N/A	Enumeration: • **0**—Both. (Default.) • **1**—Upload. • **2**—Download.	N/A
FileTypeList	File type list	Data structure	Members include: • FileType	N/A
FileType	File type name	N/A	String, case-insensitive. Length: 1 to 8 characters.	N/A

APT/PolicyInProfile

This table contains application of APT policies to the profile.

XML structure

```
<APT>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

APT/LoginSandbox

This table contains sandbox login configuration information.

XML structure

```
<APT>
  <LoginSandbox>
    <Enable></Enable>
    <IpAddress></IpAddress>
    <Protocol></Protocol>
    <Username></Username>
    <Password></Password>
    <EXE></EXE>
    <ZIP></ZIP>
    <OFFICE></OFFICE>
    <PDF></PDF>
    <PICTURE></PICTURE>
    <WEB></WEB>
    <VIDEO></VIDEO>
    <OTHER></OTHER>
    <CacheSize></CacheSize>
    <STATE></STATE>
  </LoginSandbox>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	LoginSandbox
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of sandbox	N/A	Boolean: • true • false	N/A
IpAddress	IP address of the sandbox	N/A	String, case-insensitive. Length: 1 to 64 characters.	Example: h3c.com.
Protocol	Type of file transfer protocol	N/A	• Enumeration: • 0—HTTP. • 1—HTTPS.	N/A
Username	Sandbox username	N/A	String, case-insensitive. Length: 5 to 12 characters.	N/A
Password	Password	N/A	String, case-sensitive. Length: 6 to 32 characters.	N/A
EXE	Maximum size of exe file that can be transferred	N/A	Unsigned short. Value range: 0 to 10240.	N/A
ZIP	Maximum size of zip file that can be transferred	N/A	Unsigned short. Value range: 0 to 10240.	N/A
OFFICE	Maximum size of office file that can be transferred	N/A	Unsigned short. Value range: 0 to 2048.	N/A
PDF	Maximum size of pdf file that can be transferred	N/A	Unsigned short. Value range: 0 to 2048.	N/A
PICTURE	Maximum size of picture file that can be transferred	N/A	Unsigned short. Value range: 0 to 500.	N/A
WEB	Maximum size of web file that can be transferred	N/A	Unsigned short. Value range: 0 to 500.	N/A
VIDEO	Maximum size of video file that can be transferred	N/A	Unsigned short. Value range: 0 to 102400.	N/A
OTHER	Maximum size of other file that can be transferred	N/A	Unsigned short. Value range: 0 to 102400.	N/A
CacheSize	Maximum cache size for the blacklist and whitelist	N/A	Unsigned int. Value range: 100000 to 200000.	N/A
STATE	State of sandbox connection	N/A	Boolean: • true • false	N/A

Contents

APT 1

APT/Policies 1
XML structure 1
Table description 1
Columns 1
APT/PolicyInProfile 2
XML structure 2
Table description 2
Columns 3
APT/LoginSandbox 3
XML structure 3
Table description 3
Columns 4

APT

APT/Policies

This table contains the APT policy information.

XML structure

```
<APT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <Application></Application>
      <Direction></Direction>
      <FileTypeList>
        <FileType></FileType>
      </FileTypeList>
    </Policy>
  </Policies>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PolicyDescription	Policy description	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Application	Application protocol type	N/A	Enumeration: • **1**—HTTP. • **2**—HTTPS. • **4**—FTP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **8**—SMTP. • **16**—POP3. • **32**—IMAP. • **64**—NFS. • **128**—SMB.	
Direction	File transfer direction	N/A	Enumeration: • **0**—Both. • **1**—Upload. • **2**—Download.	N/A
FileTypeList	File type list	Data structure	Members include: • FileType	N/A
FileType	File type name	N/A	String, case-insensitive. Length: 1 to 8 characters.	N/A

APT/PolicyInProfile

This table contains application of APT policies to the profile.

XML structure

```
<APT>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

APT/LoginSandbox

This table contains sandbox login configuration information.

XML structure

```
<APT>
  <LoginSandbox>
    <Enable></Enable>
    <IpAddress></IpAddress>
    <Protocol></Protocol>
    <Username></Username>
    <Password></Password>
    <EXE></EXE>
    <ZIP></ZIP>
    <OFFICE></OFFICE>
    <PDF></PDF>
    <PICTURE></PICTURE>
    <WEB></WEB>
    <VIDEO></VIDEO>
    <OTHER></OTHER>
    <CacheSize></CacheSize>
    <STATE></STATE>
  </LoginSandbox>
</APT>
```

Table description

Item	Description
Feature name	APT
Table name	LoginSandbox
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of sandbox	N/A	Boolean: • true • false	N/A
IpAddress	IP address of the sandbox	N/A	String, case-insensitive. Length: 1 to 64 characters.	Example: h3c.com.
Protocol	Type of file transfer protocol	N/A	Enumeration: • **0**—HTTP. • **1**—HTTPS.	N/A
Username	Sandbox username	N/A	String, case-insensitive. Length: 5 to 12 characters.	N/A
Password	Password	N/A	String, case-sensitive. Length: 6 to 32 characters.	N/A
EXE	Maximum size of exe file that can be transferred	N/A	Unsigned short. Value range: 0 to 10240.	N/A
ZIP	Maximum size of zip file that can be transferred	N/A	Unsigned short. Value range: 0 to 10240.	N/A
OFFICE	Maximum size of office file that can be transferred	N/A	Unsigned short. Value range: 0 to 2048.	N/A
PDF	Maximum size of pdf file that can be transferred	N/A	Unsigned short. Value range: 0 to 2048.	N/A
PICTURE	Maximum size of picture file that can be transferred	N/A	Unsigned short. Value range: 0 to 500.	N/A
WEB	Maximum size of web file that can be transferred	N/A	Unsigned short. Value range: 0 to 500.	N/A
VIDEO	Maximum size of video file that can be transferred	N/A	Unsigned short. Value range: 0 to 102400.	N/A
OTHER	Maximum size of other file that can be transferred	N/A	Unsigned short. Value range: 0 to 102400.	N/A
CacheSize	Maximum cache size for the blacklist and whitelist	N/A	Unsigned int. Value range: 100000 to 200000.	N/A
STATE	State of sandbox connection	N/A	Boolean: • true • false	N/A

Contents

ARP 1
ARP/ArpScan 1
XML structure 1
Table description 1
Columns 1
ARP/ArpFixup 2
XML structure 2
Table description 2
Columns 3
ARP/ArpClearByType 3
XML structure 3
Table description 3
Columns 4
ARP/ArpClearByIfIndex 4
XML structure 4
Table description 4
Columns 5
ARP/ArpClearTable 5
XML structure 5
Table description 5
Columns 5
ARP/ArpSnoopingClearByVLAN 6
XML structure 6
Table description 6
Columns 6
ARP/ArpSnoopingClearByIP 6
XML structure 6
Table description 7
Columns 7
ARP/ArpRateLimitAllIf 7
XML structure 7
Table description 8
Columns 8
ARP/ArpClearSuppressionByVsi 8
XML structure 8
Table description 9
Columns 9
ARP/ExportArpConfig 9
XML structure 9
Table description 10
Columns 10
ARP/ImportArpConfig 10
XML structure 10
Table description 10
Columns 11

ARP

ARP/ArpScan

This table is used to enable ARP automatic scanning in a specific Ipv4 address range.

XML structure

```
<ARP>
  <ArpScan>
    <Scan>
      <IfIndex></IfIndex>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Scan>
  </ArpScan>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScan
Table type	Multi-instance table
Row name	Scan
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address Start	The start IPv4 address of the scanning range	N/A	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides. The start IP address and end IP address must be on the same network as the primary IP address or manually configured secondary IP addresses of the interface.
Ipv4Address End	The end IPv4 address of the scanning range	N/A	String, dotted decimal notation.	Must be specified if the Ipv4AddressStart column is specified.

ARP/ArpFixup

This table is used to change the existing dynamic ARP entries into static ARP entries.

XML structure

```
<ARP>
  <ArpFixup>
    <Fixup>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </Fixup>
  </ArpFixup>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFixup

Table type	Multi-instance table
Row name	Fixup
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpClearByType

This table is used to clear ARP entries according to ARP entry type.

XML structure

```
<ARP>
  <ArpClearByType>
    <ArpType></ArpType>
  </ArpClearByType>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearByType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ArpType	ARP entry type	N/A	Enumeration: • **0**—Dynamic. • **1**—Static. • **2**—Multiport. • **3**—All.

ARP/ArpClearByIfIndex

This table is used to clear dynamic ARP entries according to interface index.

XML structure

```
<ARP>
  <ArpClearByIfIndex>
    <ClearByIfIndex>
      <IfIndex></IfIndex>
    </ClearByIfIndex>
  </ArpClearByIfIndex>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearByIfIndex
Table type	Multi-instance table
Row name	ClearByIfIndex
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface view Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/aggregate subinterface view S-channel interface/S-channel aggregate interface view

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.

ARP/ArpClearTable

This table is used to clear ARP entries by an IP address and an interface index.

XML structure

```
<ARP>
  <ArpClearTable>
    <ClearEntry>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </ClearEntry>
  </ArpClearTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearTable
Table type	Multi-instance table
Row name	ClearEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpSnoopingClearByVLAN

This table is used to clear dynamic ARP Snnoping entries according to VLAN..

XML structure

```
<ARP>
  <ArpSnoopingClearByVLAN>
    <ClearByVLAN>
      <VLANID></VLANID>
    </ClearByVLAN>
  </ArpSnoopingClearByVLAN>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingClearByVLAN
Table type	Multi-instance table
Row name	ClearByVLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer.

ARP/ArpSnoopingClearByIP

This table is used to clear dynamic ARP Snnoping entries according to Ipv4 address.

XML structure

```
<ARP>
  <ArpSnoopingClearByIP>
```

```
    <ClearByIP>
      <Ipv4Address></Ipv4Address>
    </ClearByIP>
  </ArpSnoopingClearByIP>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingClearByIP
Table type	Multi-instance table
Row name	ClearByIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpRateLimitAllIf

This table is used to config ARP rate limit on all layer 2 physical interface and layer 2 aggregate interface.

XML structure

```
<ARP>
  <ArpRateLimitAllIf>
    <RateLimitAllIf>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
    </RateLimitAllIf>
  </ArpRateLimitAllIf>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitAllIf
Table type	Multi-instance table
Row name	RateLimitAllIf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	
RateLimitEnable	Whether the rate limit function is enable.	N/A	Boolean: • **true** (default) • **false**	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

ARP/ArpClearSuppressionByVsi

This table is used to clear ARP suppression entries by VSI.

XML structure

<ARP>

```
  <ArpClearSuppressionByVsi>
    <ClearSuppressionByVsi>
      <VsiName></VsiName>
    </ClearSuppressionByVsi>
  </ArpClearSuppressionByVsi>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearSuppressionByVsi
Table type	Multi-instance table
Row name	ClearSuppressionByVsi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.

ARP/ExportArpConfig

This table is used to export ARP configuration.

XML structure

```
<ARP>
  <ExportArpConfig>
    <ExportArp>
      <FileName></FileName>
    </ExportArp>
  </ExportArpConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ExportArpConfig
Table type	Single-instance table
Row name	ExportArp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	The file for saving ARP configuration	N/A	String. Length: 1 to 255 characters.

ARP/ImportArpConfig

This table is used to import ARP configuration.

XML structure

```
<ARP>
  <ImportArpConfig>
    <ImportArp>
      <FileName></FileName>
      <StartLine></StartLine>
    </ImportArp>
  </ImportArpConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ImportArpConfig

Item	Description
Table type	Multi-instance table
Row name	ImportArp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Configuration file	N/A	String. Length: 1 to 255 characters.
StartLine	Start line of ARP configuration in the configuration file	N/A	Unsigned integer.

Contents

ARP 1

ARP/ArpScanAutoRate 1
XML structure 1
Table description 1
Columns 1
ARP/ArpIfScanAuto 2
XML structure 2
Table description 2
Columns 3
ARP/ArpConfig 3
XML structure 4
Table description 4
Columns 4
ARP/ArpGratuitous 5
XML structure 5
Table description 6
Columns 6
ARP/ArpLearnLimit 6
XML structure 7
Table description 7
Columns 7
ARP/ArpGratuitousInterval 8
XML structure 8
Table description 9
Columns 9
ARP/ArpProxy 10
XML structure 10
Table description 10
Columns 11
ARP/ArpAttackProtect 12
XML structure 12
Table description 12
Columns 12
ARP/ArpRateLimit 14
XML structure 14
Table description 15
Columns 15
ARP/ArpRateLimitLog 16
XML structure 16
Table description 16
Columns 16
ARP/ArpSourceMACExclude 17
XML structure 17
Table description 17
Columns 17
ARP/ArpAuthorized 18
XML structure 18
Table description 18
Columns 18
ARP/ArpDetection 19
XML structure 19
Table description 19
Columns 20
ARP/ArpDetectionTrust 20
XML structure 20
Table description 20
Columns 21

ARP/ArpFilterSource 21
XML structure 21
Table description 22
Columns 22
ARP/ArpFilterBinding 23
XML structure 23
Table description 23
Columns 23
ARP/ArpSnooping 24
XML structure 24
Table description 24
Columns 25
ARP/ArpInterface 25
XML structure 25
Table description 25
Columns 26
ARP/ArpVsiConfig 26
XML structure 26
Table description 27
Columns 27
ARP/ArpRouteAdvertise 28
XML structure 28
Table description 28
Columns 29
ARP/ArpVsiFeature 30
XML structure 30
Table description 31
Columns 31
ARP/ArpVsiDetectionTrust 32
XML structure 32
Table description 32
Columns 33
ARP/ArpForwardConverseLearn 33
XML structure 33
Table description 34
Columns 34
ARP/ArpDetectionInterface 34
XML structure 34
Table description 35
Columns 35
ARP/ArpAgingIfConfig 35
XML structure 36
Table description 36
Columns 36
ARP/ArpIfScanAutoWithMultiIP 37
XML structure 37
Table description 38
Columns 38
ARP/ArpScanKeepalive 39
XML structure 39
Table description 39
ARP/ArpVsrpPort 40
XML structure 40
Table description 40
Columns 40
ARP/ArpConsistencyTable 40
XML structure 40
Table description 41
Columns 41

ARP

ARP/ArpScanAutoRate

This table contains the information about ARP auto scanning.

XML structure

```
<ARP>
  <ArpScanAutoRate>
    <SendRatePPM></SendRatePPM>
    <SendRatePPS></SendRatePPS>
  </ArpScanAutoRate>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScanAutoRate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SendRatePPM	Number of ARP request packets to be sent per minute.	N/A	Unsigned integer. Value range: 10 to 600.	This value must be a multiple of 10. SendRatePPM or SendRatePPS can only have one of them .

Column name	Column description	Column type	Data type and restrictions	Remarks
SendRatePPS	Number of ARP request packets to be sent per second.	N/A	Unsigned integer. Value range: 10 to 1000.	This value must be a multiple of 10.

ARP/ArpIfScanAuto

This table contains interface-specific information about ARP auto scanning.

XML structure

```
<ARP>
  <ArpIfScanAuto>
    <IfScanAuto>
      <IfIndex></IfIndex>
      <AutoEnable></AutoEnable>
      <StartIP></StartIP>
      <EndIP></EndIP>
    </IfScanAuto>
  </ArpIfScanAuto>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpIfScanAuto
Table type	Multi-instance table
Row name	IfScanAuto
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
AutoEnable	Whether ARP auto scanning is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
StartIP	Start IPv4 address of the scanning range	N/A	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides. StartIP and EndIP can be configured only when ARP auto scan on the interface is enabled.s
EndIP	End IPv4 address of the scanning range	N/A	String, dotted decimal notation.	You must specify the end IPv4 address if the start IPv4 address is specified.

ARP/ArpConfig

This table contains ARP configuration information.

XML structure

```
<ARP>
  <ArpConfig>
    <Config>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <ArpType></ArpType>
      <Description></Description>
    </Config>
  </ArpConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpConfig
Table type	Multi-instance table
Row name	Config
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	It must be configured together with the PortIndex column when ArpType is static. It must be specified when ArpType is multiport.
PortIndex	Port index	N/A	Unsigned integer.	It must be configured together with the VLANID column when ArpType is static. It must not be specified when ArpType is multiport.
ArpType	ARP entry type	N/A	Enumeration: • **1**—Static. • **2**—Multiport.	Required. If the multiport type is supported depends on the device model.
Description	Description of the static ARP entry	N/A	String Length:1 to 255 characters.	N/A

ARP/ArpGratuitous

This table contains gratuitous ARP packets enable information.

XML structure

```
<ARP>
  <ArpGratuitous>
    <LearnEnable></LearnEnable>
    <SendEnable></SendEnable>
  </ArpGratuitous>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitous
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LearnEnable	Whether the learning of gratuitous ARP packets function is enabled	N/A	Boolean: • **true** (default) • **false**
SendEnable	Whether the function of sending gratuitous ARP packets upon receiving ARP requests whose target IP address is on a different subnet is enabled.	N/A	Boolean: • **true** • **false** (default)

ARP/ArpLearnLimit

This table contains the information of maximum number of dynamic ARP entries that an interface can learn.

XML structure

```
<ARP>
  <ArpLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <LearnAlarmThreshold></LearnAlarmThreshold>
    </LearnLimit>
  </ArpLearnLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of dynamic ARP entries that an interface can learn	N/A	Unsigned integer. Value range: 0 to LearnMaxNumLimit.	0 means the interface is disabled from learning dynamic ARP entries. The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.
LearnAlarmThreshold	Alarm threshold in percentage	N/A	Unsigned integer. Value range: 0 to 100.	To disable the threashold alarming, set the value to 0. The default setting is 0.

ARP/ArpGratuitousInterval

This table contains the information of periodic sending of gratuitous ARP packets and set the sending interval on an interface.

XML structure

```
<ARP>
  <ArpGratuitousInterval>
    <GratuitousInterval>
      <IfIndex></IfIndex>
      <Interval></Interval>
    </GratuitousInterval>
  </ArpGratuitousInterval>
```

```
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitousInterval
Table type	Multi-instance table
Row name	GratuitousInterval
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Interval	The interval at which gratuitous ARP packets are sent	N/A	Unsigned integer. Value range: 0, 200 to 200000 ms. Default: 0.	0 means disable the interface from periodically sending gratuitous ARP packets.

ARP/ArpProxy

This table contains ARP proxy enable and local ARP proxy enable information.

XML structure

```
<ARP>
  <ArpProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
      <LocalStartIpv4Address></LocalStartIpv4Address>
      <LocalEndIpv4Address></LocalEndIpv4Address>
    </Proxy>
  </ArpProxy>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpProxy
Table type	Single-instance table
Row name	Proxy
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ProxyEnable	Whether proxy ARP is enabled on the interface	N/A	Boolean: • **true** • **false** (default)	N/A
LocalProxyEnable	Whether local proxy ARP is enabled on the interface	N/A	Boolean: • **true** • **false** (default)	N/A
LocalStartIpv4Address	Start IPv4 address of the specified address range for local proxy ARP	N/A	String, dotted decimal notation.	LocalStartIpv4Address and LocalEndIpv4Address must be configured together. LocalStartIpv4Address and LocalEndIpv4Address can be configured only when local proxy ARP on the interface is enabled.
LocalEndIpv4Address	End IPv4 address of the specified address range for local proxy ARP	N/A	String, dotted decimal notation.	N/A

ARP/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<ARP>
  <ArpAttackProtect>
    <ResolvingRouteEnable></ResolvingRouteEnable>
    <SourceSuppressionEnable></SourceSuppressionEnable>
    <SourceSuppressionLimitNum></SourceSuppressionLimitNum>
    <SourceMACDetectType></SourceMACDetectType>
    <SourceMACAgeTime></SourceMACAgeTime>
    <SourceMACThresholdValue></SourceMACThresholdValue>
    <ValidCheckEnable></ValidCheckEnable>
    <ActiveACKType></ActiveACKType>
    <DetectionValidateSrcMAC></DetectionValidateSrcMAC>
    <DetectionValidateDstMAC></DetectionValidateDstMAC>
    <DetectionValidateIP></DetectionValidateIP>
    <CheckLogEnable></CheckLogEnable>
  </ArpAttackProtect>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResolvingRouteEnable	Whether the resolving route	N/A	Boolean: • **true**	The default value of ResolvingRouteEnable

	function is enabled		• **false**	depends on the device model.
SourceSuppressionEnable	Whether the ARP suppression original address function is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
SourceSuppressionLimitNum	Set the source suppression limit number	N/A	Unsigned integer. Value range: 2 to 1024. Default: 10.	N/A
SourceMACDetectType	Set the attack detection function of fixed source MAC address and select the mode	N/A	Unsigned integer. • **0—Disabled** (default)**.** • **1—Filter.** • **2—Monitor.**	N/A
SourceMACAgeTime	Set the fixed source mac address aging time of arp attack detection entries	N/A	Unsigned integer. Value range: 60 to 6000. Default: 300.	N/A
SourceMACThresholdValue	Set the fixed source mac address threshold of ARP attack detection entries	N/A	Unsigned integer. Unsigned integer. Value range: uiSourceMinThreshold to uiSourceMaxThreshold.	The value of uiSourceMinThreshold and uiSourceMaxThreshold depend on the device model. The default value of SourceMACThresholdValue depends on the device model.
ValidCheckEnable	Whether the source mac address consistency check function is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
ActiveACKType	Enable ARP active acknowledgement	N/A	Unsigned integer. • **0—Disabled** (default)**.** • **1—Loose.**	N/A

			• **2—Strict.**	
DetectionValidateSrcMAC	Whether the effective checks on the source mac address function is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
DetectionValidateDstMAC	Whether the effective checks on the destination mac address function is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
DetectionValidateIP	Whether the effective checks on the IP address is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
CheckLogEnable	Whether ARP logging is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

ARP/ArpRateLimit

This table contains ARP rate limit information.

XML structure

```
<ARP>
  <ArpRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
    </RateLimit>
  </ArpRateLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
RateLimitEnable	Whether the rate limit function is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends

				on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

ARP/ArpRateLimitLog

This table contains ARP rate limit log information.

XML structure

```
<ARP>
  <ArpRateLimitLog>
    <LogEnable></LogEnable>
    <LogInterval></LogInterval>
  </ArpRateLimitLog>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
LogInterval	Set the interval of sending report or	N/A	Unsigned integer.	N/A

	log		Value range: 1 to 86400. Default: 60.	

ARP/ArpSourceMACExclude

This table contains protective source mac address information.

XML structure

```
<ARP>
  <ArpSourceMACExclude>
    <SourceMACExclude>
      <MacAddress></MacAddress>
    </SourceMACExclude>
  </ArpSourceMACExclude>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACExclude
Table type	Multi-instance table
Row name	SourceMACExclude
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	The maximum number of protective source mac address that can be configured depends on the device model.

ARP/ArpAuthorized

This table contains the authorized ARP information.

XML structure

```
<ARP>
  <ArpAuthorized>
    <Authorized>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Authorized>
  </ArpAuthorized>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAuthorized
Table type	Single-instance table
Row name	Authorized
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface

				VLAN interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Enable	Whether authorized ARP is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

ARP/ArpDetection

This table contains configuration information about ARP attack detection.

XML structure

```
<ARP>
  <ArpDetection>
    <Detect>
      <VLANID></VLANID>
      <DetectionEnable></DetectionEnable>
      <RestrictedForwardingEnable></RestrictedForwardingEnable>
    </Detect>
  </ArpDetection>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetection
Table type	Multi-instance table
Row name	Detect
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
DetectionEnable	Whether ARP attack detection is enabled	N/A	Boolean: • **true** • **false** (default)
RestrictedForwardingEnable	Whether ARP restricted forwarding is enabled	N/A	Boolean: • **true** • **false** (default)

ARP/ArpDetectionTrust

This table contains information about ARP trusted interfaces.

XML structure

```
<ARP>
  <ArpDetectionTrust>
    <Interface>
      <IfIndex></IfIndex>
      <TrustEnable></TrustEnable>
    </Interface>
  </ArpDetectionTrust>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionTrust
Table type	Multi-instance table
Row name	Interface

Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
TrustEnable	Whether the interface is configured as an ARP trusted interface	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpFilterSource

This table contains information about ARP gateway protection and the protected gateway IP address.

XML structure

```
<ARP>
  <ArpFilterSource>
    <FilterSource>
```

```
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </FilterSource>
  </ArpFilterSource>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterSource
Table type	Multi-instance table
Row name	FilterSource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv4Address	The protected	Index	String, dotted decimal	N/A

	gateway IP address		notation.	

ARP/ArpFilterBinding

This table contains the information about restricting arp packet by source IP address and source mac address.

XML structure

```
<ARP>
  <ArpFilterBinding>
    <FilterBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
    </FilterBinding>
  </ArpFilterBinding>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterBinding
Table type	Multi-instance table
Row name	FilterBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet

				interface. Layer 2 aggregate interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv4Address	The permitted IP address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	You cannot specify a MAC address when you remove or delete a rule.

ARP/ArpSnooping

This table contains information about ARP snooping.

XML structure

```
<ARP>
  <ArpSnooping>
    <Snooping>
      <VLANID></VLANID>
      <SnoopingEnable></SnoopingEnable>
    </Snooping>
  </ArpSnooping>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnooping

Table type	Multi-instance table
Row name	Snooping
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
SnoopingEnable	Whether ARP snooping is enabled	N/A	Boolean: • **true** • **false** (default)

ARP/ArpInterface

This table contains ARP interface information.

XML structure

```
<ARP>
  <ArpInterface>
    <Interface>
      <IfIndex></IfIndex>
      <ModeUNI></ModeUNI>
    </Interface>
  </ArpInterface>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpInterface
Table type	Multi-instance table

Row name	Interface
Restrictions	VLAN interfaces
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only VLAN interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ModeUNI	Configure a port as a customer-side port	N/A	Boolean: • **true**—Customer-side port. • **false**—Network-side port (default).	Whether the ModeUNI is supported depends on the device model.

ARP/ArpVsiConfig

This table contains ARP VSI configuration information.

XML structure

```
<ARP>
  <ArpVsiConfig>
    <VsiConfig>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
```

```
      <VsiIfIndex></VsiIfIndex>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <Description></Description>
    </VsiConfig>
  </ArpVsiConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiConfig
Table type	Multi-instance table
Row name	VsiConfig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VsiIfIndex	VSI interface index	N/A	Unsigned integer.	The VSI interface must be bound to the VSI.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field must be configured when the port is a Layer 2 Ethernet interface. It must be deleted when the port is a Tunnel interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ARPs.
Description	Description of the static ARP entry	N/A	String Length:1 to 255 characters.	N/A

ARP/ArpRouteAdvertise

This table contains the information about ARP direct route advertisement.

XML structure

```
<ARP>
  <ArpRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <DelayTime></DelayTime>
      <Preference></Preference>
      <Tag></Tag>
    </RouteAdvertise>
  </ArpRouteAdvertise>
</ARP>
```

Table description

Item	Description
Feature name	ARP

Table name	ArpRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VE-L3VPN interface VSI interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	VE-L3VPN interface VSI interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
Enable	Whether ARP direct route advertisement is enabled	N/A	Boolean: • **true** • **false (default)**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DelayTime	Delay for ARP direct route advertisement	N/A	Unsigned integer. Value range: 0 to 3600, in seconds. Default: 0.	N/A
Preference	Preference of the direct routes	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	Preference and Tag can be configured only when ARP direct route advertisement on the interface is enabled.
Tag	Route tag for the direct routes	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	Preference and Tag can be configured only when ARP direct route advertisement on the interface is enabled.

ARP/ArpVsiFeature

This table contains ARP configuration information for VSIs.

XML structure

```
<ARP>
  <ArpVsiFeature>
    <VsiFeature>
      <VsiName></VsiName>
      <SnoopingEnable></SnoopingEnable>
      <DetectionEnable></DetectionEnable>
      <SuppressionEnable></SuppressionEnable>
      <SuppressionMode></SuppressionMode>
      <SuppressionMismatchDiscard></SuppressionMismatchDiscard>
      <NoBroadCast></NoBroadCast>
    </VsiFeature>
  </ArpVsiFeature>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiFeature
Table type	Multi-instance table
Row name	VsiFeature
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
SnoopingEnable	Whether ARP snooping is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DetectionEnable	Whether ARP attack detection is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled. **(default)**	N/A
SuppressionEnable	Whether ARP suppression is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
SuppressionMode	ARP suppression mode	N/A	Enumeration: • **1**—**`proxy-reply`** (default). • **2**—**`unicast-forward`**.	N/A
SuppressionMismatchDiscar	ARP suppression mismatch discard	N/A	Boolean: • **true**—Enabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
d	mode		• **false**—Disabled (default).	
NoBroadCast	Whether ARP stateless broadcast is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

ARP/ArpVsiDetectionTrust

This table contains ARP trusted AC configuration information for Ethernet service instances.

XML structure

```
<ARP>
  <ArpVsiDetectionTrust>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <TrustEnable></TrustEnable>
    </SRV>
  </ArpVsiDetectionTrust>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiDetectionTrust
Table type	Multi-instance table
Row name	SRV
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Ethernet service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
TrustEnable	Whether the Ethernet service instance is configured as an ARP trusted AC	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

ARP/ArpForwardConverseLearn

This table contains configuration information about ARP conversational learning for remote ARP entries.

XML structure

```
<ARP>
  <ArpForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </ArpForwardConverseLearn>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether ARP conversational learning is enabled for remote ARP entries	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AgingTime	Aging time for remote ARP entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes. Default: 60.	N/A

ARP/ArpDetectionInterface

This table contains ARP detection settings on interfaces.

XML structure

```
<ARP>
  <ArpDetectionInterface>
    <Detection>
      <IfIndex></IfIndex>
      <DetectionEnable></DetectionEnable>
    </Detection>
  </ArpDetectionInterface>
```

```
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionInterface
Table type	Multi-instance table
Row name	Detection
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
DetectionEnable	Whether ARP detection is enabled on the interface	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpAgingIfConfig

This table contains information about the ARP aging configuration on interfaces.

XML structure

```
<ARP>
  <ArpAgingIfConfig>
    <AgingIfConfig>
      <IfName></IfName>
      <AgingSecond></AgingSecond>
      <AgingMinute></AgingMinute>
      <AgingProbeCount></AgingProbeCount>
      <AgingProbeInterval></AgingProbeInterval>
    </AgingIfConfig>
  </ArpAgingIfConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAgingIfConfig
Table type	Multi-instance table
Row name	AgingIfConfig
Restrictions	This table supports the following interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VSI interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	index	String, case sensitive. Length: 1 to 48 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingSecond	Aging seconds for ARP entries	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	It must be configured without the AgingMinute column. By default, the aging time set in system view is used.
AgingMinute	Aging minutes for ARP entries	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	It must be configured without the AgingSecond column. By default, the aging time set in system view is used.
AgingProbeCount	Maximum number of aging probe counts for ARP entries	N/A	Unsigned integer. Value range: 0 to 10.	By default, the maximum number set in system view is used.
AgingProbeInterval	Aging probe intervals for ARP entries	N/A	Unsigned integer. Value range: 1 to 60, in seconds.	By default, the probe interval set in system view is used.

ARP/ArpIfScanAutoWithMultiIP

This table contains interface-specific information about ARP auto scanning in an adress range.

XML structure

```
<ARP>
  <ArpIfScanAutoWithMultiIP>
    <IfScanAutoWithMultiIP>
      <IfName></IfName>
      <StartIP></StartIP>
      <EndIP></EndIP>
      <SourceIP></SourceIP>
    </IfScanAutoWithMultiIP>
  </ArpIfScanAutoWithMultiIP>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpIfScanAutoWithMultiIP
Table type	Multi-instance table
Row name	IfScanAutoWithMultiIP
Restrictions	This table supports the following interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VSI interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	index	String, case sensitive. Length: 1 to 48 characters.	N/A
StartIP	Start IPv4 address of the scanning range	index	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides. StartIP and EndIP can be configured only when ARP auto scan on the interface is enabled.
EndIP	End IPv4 address of the scanning range	index	String, dotted decimal notation.	You must specify the end IPv4 address if the start IPv4 address is specified.
SourceIP	Source IPv4	N/A	String, dotted decimal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of ARP requests		notation.	

ARP/ArpScanKeepalive

This table contains interface-specific information about ARP scan keepalive

XML structure

```
<ARP>
  <ArpScanKeepalive>
    <IfScanKeepalive>
      <IfIndex></IfIndex>
      <ScanEnable></ScanEnable>
      <AgingTime></AgingTime>
    </IfScanKeepalive>
  </ArpScanKeepalive>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScanKeepalive
Table type	Multi-instance table
Row name	IfScanKeepalive
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface
Support for row creation and deletion	No

ARP/ArpVsrpPort

This table contains ARP VSRP port information

XML structure

```
<ARP>
  <ArpVsrpPort>
    <PortNum></PortNum>
  </ArpVsrpPort>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsrpPort
Table type	Single-instance table
Row name	VsrpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNum	Port number of ARP VSRP instance	N/A	Unsigned integer. Value range: 1 to 65535.	60043 means not configured.

ARP/ArpConsistencyTable

This table contains the information about ARP consistency check.

XML structure

```
<ARP>
  <ArpConsistencyTable>
```

```
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </ArpConsistencyTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether ARP consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

Contents

ARP 1

ARP/ArpScanAutoRate 1
XML structure 1
Table description 1
Columns 1
ARP/ArpIfScanAuto 2
XML structure 2
Table description 2
Columns 3
ARP/ArpTable 3
XML structure 3
Table description 4
Columns 4
ARP/ArpConfig 5
XML structure 5
Table description 5
Columns 5
ARP/ArpGratuitous 6
XML structure 6
Table description 6
Columns 7
ARP/ArpLearnLimit 7
XML structure 7
Table description 8
Columns 8
ARP/ArpGratuitousInterval 8
XML structure 9
Table description 9
Columns 9
ARP/ArpProxy 9
XML structure 10
Table description 10
Columns 10
ARP/ArpAttackProtect 11
XML structure 11
Table description 12
Columns 12
ARP/ArpRateLimit 13
XML structure 14
Table description 14
Columns 14
ARP/ArpRateLimitLog 15
XML structure 15
Table description 15
Columns 15
ARP/ArpSourceMACExclude 15
XML structure 16
Table description 16
Columns 16
ARP/ArpSourceMACAttackEntry 16
XML structure 16
Table description 17
Columns 17
ARP/ArpSourceMACAttackEntryBasedOnIf 18
XML structure 18
Table description 18
Columns 19

ARP/ArpAuthorized ····· 19
XML structure ····· 19
Table description ····· 20
Columns ····· 20
ARP/ArpDetection ····· 20
XML structure ····· 21
Table description ····· 21
Columns ····· 21
ARP/ArpDetectionTrust ····· 21
XML structure ····· 22
Table description ····· 22
Columns ····· 22
ARP/ArpFilterSource ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
ARP/ArpFilterBinding ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24
ARP/ArpSpecification ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
ARP/ ArpSnoopingEntry ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
ARP/ArpSnooping ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
ARP/ArpInterface ····· 29
XML structure ····· 30
Table description ····· 30
Columns ····· 30
ARP/ArpVsiConfig ····· 30
XML structure ····· 31
Table description ····· 31
Columns ····· 31
ARP/ArpRouteAdvertise ····· 32
XML structure ····· 32
Table description ····· 33
Columns ····· 33
ARP/ArpVsiFeature ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 34
ARP/ArpVsiDetectionTrust ····· 35
XML structure ····· 35
Table description ····· 36
Columns ····· 36
ARP/ArpForwardConverseLearn ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 37
ARP/ArpDetectionInterface ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
ARP/ArpAgingIfConfig ····· 39
XML structure ····· 39

Table description ····· 39
Columns ····· 40
ARP/ArpIfScanAutoWithMultiIP ····· 40
XML structure ····· 40
Table description ····· 41
Columns ····· 41
ARP/ArpScanKeepalive ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 43
ARP/ArpVsrpPort ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 44
ARP/ArpConsistencyTable ····· 44
XML structure ····· 44
Table description ····· 44
Columns ····· 45

ARP

ARP/ArpScanAutoRate

This table contains the information about ARP auto scanning.

XML structure

```
<ARP>
  <ArpScanAutoRate>
    <SendRatePPM></SendRatePPM>
    <SendRatePPS></SendRatePPS>
  </ArpScanAutoRate>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScanAutoRate
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SendRatePPM	Number of ARP request packets to be sent per minute.	N/A	Unsigned integer. Value range: 10 to 600.	This value must be a multiple of 10.
SendRatePPS	**N**umber of ARP request packets to be sent per second.	N/A	Unsigned integer. Value range: 10 to 1000.	This value must be a multiple of 10.

ARP/ArpIfScanAuto

This table contains interface-specific information about ARP auto scanning.

XML structure

```
<ARP>
  <ArpIfScanAuto>
    <IfScanAuto>
      <IfIndex></IfIndex>
      <AutoEnable></AutoEnable>
      <StartIP></StartIP>
      <EndIP></EndIP>
    </IfScanAuto>
  </ArpIfScanAuto>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpIfScanAuto
Table type	Multi-instance table
Row name	IfScanAuto
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
AutoEnable	Whether ARP auto scanning is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StartIP	Start IPv4 address of the scanning range	N/A	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides.
EndIP	End IPv4 address of the scanning range	N/A	String, dotted decimal notation.	You must specify the end IPv4 address if the start IPv4 address is specified.

ARP/ArpTable

This table contains ARP table information.

XML structure

```
<ARP>
  <ArpTable>
    <ArpEntry>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
```

```
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
      <ArpType></ArpType>
    </ArpEntry>
  </ArpTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpTable
Table type	Multi-instance table
Row name	ArpEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.
PortIndex	Port index	N/A	Unsigned integer.
VrfIndex	Index of the VRF	N/A	Unsigned integer.
ArpType	ARP entry type	N/A	Enumeration: • **0**—Dynamic. • **1**—Static. • **2**—Multiport. • **3**—Rule.

Column name	Column description	Column type	Data type and restrictions
			• **4**—Openflow. • **5**—VSI Static.

ARP/ArpConfig

This table contains ARP configuration information.

XML structure

```
<ARP>
  <ArpConfig>
    <Config>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <ArpType></ArpType>
      <Description></Description>
    </Config>
  </ArpConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpConfig
Table type	Multi-instance table
Row name	Config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VrfIndex	Index of the VRF	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.
PortIndex	Port index	N/A	Unsigned integer.
ArpType	ARP entry type	N/A	Enumeration: • **1**—Static. • **2**—Multiport.
Description	Description of the static ARP entry	String Length:1 to 255 characters.	N/A

ARP/ArpGratuitous

This table contains gratuitous ARP packets enable information.

XML structure

```
<ARP>
  <ArpGratuitous>
    <LearnEnable></LearnEnable>
    <SendEnable></SendEnable>
  </ArpGratuitous>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitous
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LearnEnable	Whether the learning of gratuitous ARP packets function is enable.	N/A	Boolean: • **true** • **false**
SendEnable	Whether the function of sending gratuitous ARP packets upon receiving ARP requests whose target IP address is on a different subnet is enable.	N/A	Boolean: • **true** • **false**

ARP/ArpLearnLimit

This table contains the information of maximum number of dynamic ARP entries that an interface can learn.

XML structure

```
<ARP>
  <ArpLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <LearnAlarmThreshold></LearnAlarmThreshold>
    </LearnLimit>
  </ArpLearnLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of dynamic ARP entries that an interface can learn	N/A	Unsigned integer. Value range: 0 to LearnMaxNumLimit.	0 means the interface is disabled from learning dynamic ARP entries. The value of LearnMaxNumLimit depends on the device model.
LearnAlarmThreshold	Alarm threshold in percentage	N/A	Unsigned integer. Value range: 0 to 100.	To disable the threashold alarming, set the value to 0.

ARP/ArpGratuitousInterval

This table contains the information of periodic sending of gratuitous ARP packets and set the sending interval on an interface.

XML structure

```
<ARP>
  <ArpGratuitousInterval>
    <GratuitousInterval>
      <IfIndex></IfIndex>
      <Interval></Interval>
    </GratuitousInterval>
  </ArpGratuitousInterval>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitousInterval
Table type	Multi-instance table
Row name	GratuitousInterval
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
Interval	The interval at which gratuitous ARP packets are sent	N/A	Unsigned integer. Value range: 0, 200 to 200000ms.	0 means disable the interface from periodically sending gratuitous ARP packets.

ARP/ArpProxy

This table contains ARP proxy enable and local ARP proxy enable information.

XML structure

```
<ARP>
  <ArpProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
      <LocalStartIpv4Address></LocalStartIpv4Address>
      <LocalEndIpv4Address></LocalEndIpv4Address>
    </Proxy>
  </ArpProxy>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpProxy
Table type	Single-instance table
Row name	Proxy
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
ProxyEnable	Whether proxy ARP is enabled on the interface	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalProxyEnable	Whether local proxy ARP is enabled on the interface	N/A	Boolean: • **true** • **false**	N/A
LocalStartIpv4Address	Start IPv4 address of the specified address range for local proxy ARP	N/A	String, dotted decimal notation.	N/A
LocalEndIpv4Address	End IPv4 address of the specified address range for local proxy ARP	N/A	String, dotted decimal notation.	N/A

ARP/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<ARP>
  <ArpAttackProtect>
    <ResolvingRouteEnable></ResolvingRouteEnable>
    <SourceSuppressionEnable></SourceSuppressionEnable>
    <SourceSuppressionLimitNum></SourceSuppressionLimitNum>
    <SourceMACDetectType></SourceMACDetectType>
    <SourceMACAgeTime></SourceMACAgeTime>
    <SourceMACThresholdValue></SourceMACThresholdValue>
    <ValidCheckEnable></ValidCheckEnable>
    <ActiveACKType></ActiveACKType>
    <DetectionValidateSrcMAC></DetectionValidateSrcMAC>
    <DetectionValidateDstMAC></DetectionValidateDstMAC>
    <DetectionValidateIP></DetectionValidateIP>
    <CheckLogEnable></CheckLogEnable>
  </ArpAttackProtect>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResolvingRouteEnable	Whether the resolving route function is enabled	N/A	Boolean: • **true** • **false**	N/A
SourceSuppressionEnable	Whether the ARP suppression original address function is enabled	N/A	Boolean: • **true** • **false**	N/A
SourceSuppressionLimitNum	Set the source suppression limit number	N/A	Unsigned integer. Value range: 2 to 1024.	N/A
SourceMACDetectType	Set the attack detection function of fixed source mac address and select the mode	N/A	Unsigned integer. • **0—Disabled**. • **1—Filter.** • **2—Monitor.**	N/A
SourceMACAgeTime	Set the fixed source mac address aging time of ARP attack detection entries	N/A	Unsigned integer. Value range: 60 to 6000.	N/A
SourceMAC	Set the fixed	N/A	Unsigned integer.	N/A

ThresholdValue	source mac address threshold of ARP attack detection entries			
ValidCheckEnable	Whether the source mac address consistency check function is enabled	N/A	Boolean: • **true** • **false**	N/A
ActiveACKType	Enable ARP active acknowledgement	N/A	Unsigned integer. • **0—Disabled.** • **1—Loose.** • **2—Strict.**	N/A
DetectionValidateSrcMAC	Whether the effective checks on the source mac address function is enabled	N/A	Boolean: • **true** • **false**	N/A
DetectionValidateDstMAC	Whether the effective checks on the destination mac address function is enabled	N/A	Boolean: • **true** • **false**	N/A
DetectionValidateIP	Whether the effective checks on the IP address function is enabled	N/A	Boolean: • **true** • **false**	N/A
CheckLogEnable	Whether ARP logging is enabled	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpRateLimit

This table contains ARP rate limit information.

XML structure

```
<ARP>
  <ArpRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
    </RateLimit>
  </ArpRateLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
RateLimitEnable	Whether the rate limit function is enabled	N/A	Boolean: • **true** • **false**	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model.

ARP/ArpRateLimitLog

This table contains ARP rate limit log information.

XML structure

```
<ARP>
  <ArpRateLimitLog>
    <LogEnable></LogEnable>
    <LogInterval></LogInterval>
  </ArpRateLimitLog>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enabled	N/A	Boolean: • **true** • **false**	N/A
LogInterval	Set the interval of sending report or log	N/A	Unsigned integer. Value range: 1 to 86400.	N/A

ARP/ArpSourceMACExclude

This table contains protective source mac address information.

XML structure

```
<ARP>
  <ArpSourceMACExclude>
    <SourceMACExclude>
      <MacAddress></MacAddress>
    </SourceMACExclude>
  </ArpSourceMACExclude>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACExclude
Table type	Multi-instance table
Row name	SourceMACExclude
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	The MAX number of protective source mac address that can be configured depends on the device model.

ARP/ArpSourceMACAttackEntry

This table contains the information about the ARP attack detection entries of fixed source MAC address in slot-based attack detection mode.

XML structure

```
<ARP>
```

```
  <ArpSourceMACAttackEntry>
    <Entry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <IfIndex></IfIndex>
      <AgeTime></AgeTime>
    </Entry>
  </ArpSourceMACAttackEntry>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACAttackEntry
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094,65535.	65535 means the interface is layer 3 Ethernet interface
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	N/A
AgeTime	The remaining aging time of ARP attack defense policy entry	N/A	AgeTime	N/A

ARP/ArpSourceMACAttackEntryBasedOnIf

This table contains the information about the ARP attack detection entries of fixed source MAC address in interface-based attack detection mode.

XML structure

```
<ARP>
  <ArpSourceMACAttackEntryBasedOnIf>
    <Entry>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <IfName></IfName>
      <AgeTime></AgeTime>
    </Entry>
  </ArpSourceMACAttackEntryBasedOnIf>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACAttackEntryBasedOnIf
Table type	Multi-instance table

Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094,65535.	65535 means the interface is layer 3 Ethernet interface
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
AgeTime	The remaining aging time of ARP attack defense policy entry	N/A	AgeTime	N/A

ARP/ArpAuthorized

This table contains the authorized ARP information.

XML structure

```
<ARP>
  <ArpAuthorized>
    <Authorized>
```

```
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Authorized>
  </ArpAuthorized>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAuthorized
Table type	Single-instance table
Row name	Authorized
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Enable	Whether authorized ARP is enabled	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpDetection

This table contains information about ARP attack detection.

XML structure

```
<ARP>
  <ArpDetection>
    <Detect>
      <VLANID></VLANID>
      <DetectionEnable></DetectionEnable>
      <RestrictedForwardingEnable></RestrictedForwardingEnable>
    </Detect>
  </ArpDetection>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetection
Table type	Multi-instance table
Row name	Detect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
DetectionEnable	Whether ARP attack detection is enabled	N/A	Boolean: • **true** • **false**
RestrictedForwardingEnable	Whether ARP restricted forwarding is enabled	N/A	Boolean: • **true** • **false**

ARP/ArpDetectionTrust

This table contains information about ARP trusted interfaces.

XML structure

```
<ARP>
  <ArpDetectionTrust>
    <Interface>
      <IfIndex></IfIndex>
      <TrustEnable></TrustEnable>
    </Interface>
  </ArpDetectionTrust>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionTrust
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface
TrustEnable	Whether the interface is configured as an ARP trusted interface	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpFilterSource

This table contains information about ARP gateway protection and the protected gateway IP address.

XML structure

```
<ARP>
  <ArpFilterSource>
    <FilterSource>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </FilterSource>
  </ArpFilterSource>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterSource
Table type	Multi-instance table
Row name	FilterSource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface. Layer 2 aggregate interface.
Ipv4Address	The protected gateway IP	Index	String, dotted decimal notation.	N/A

	address			

ARP/ArpFilterBinding

This table contains the information about restricting ARP packet by source IP address and source MAC address.

XML structure

```
<ARP>
  <ArpFilterBinding>
    <FilterBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
    </FilterBinding>
  </ArpFilterBinding>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterBinding
Table type	Multi-instance table
Row name	FilterBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
Ipv4Address	The permitted IP address	Index	String, dotted decimal notation.

MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.

ARP/ArpSpecification

This table contains ARP specification information.

XML structure

```
<ARP>
  <ArpSpecification>
    <SupportMultiport></SupportMultiport>
    <RateLimitDefault></RateLimitDefault>
    <RateLimitLowerLimit></RateLimitLowerLimit>
    <RateLimitUpperLimit></RateLimitUpperLimit>
    <SMACDefaultThreshold></SMACDefaultThreshold>
    <SMACMinThreshold></SMACMinThreshold>
    <SMACMaxThreshold></SMACMaxThreshold>
    <SupportDetection></SupportDetection>
    <SupportFilter></SupportFilter>
    <SupportSnooping></SupportSnooping>
    <IntervalDefault></IntervalDefault>
    <LearnMaxNumLimit></LearnMaxNumLimit>
    <LearnMaxNumDefault></LearnMaxNumDefault>
    <SupportModeUNI></SupportModeUNI>
  </ArpSpecification>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportMultiport	Whether the multiport ARP entry is supported	N/A	Boolean: • **true** • false	N/A
RateLimitDefault	The default limit of rate	N/A	Unsigned integer.	N/A
RateLimitLowerLimit	The lower limit of rate	N/A	Unsigned integer.	0 means that ARP rate limit isn't supported.
RateLimitUpperLimit	The upper limit of rate	N/A	Unsigned integer.	0 means that ARP rate limit isn't supported.
SMACDefaultThreshold	The default of threshold	N/A	Unsigned integer.	N/A
SMACMinThreshold	The minimum of threshold.	N/A	Unsigned integer.	N/A
SMACMaxThreshold	The maximum of threshold	N/A	Unsigned integer.	N/A
SupportDetection	Whether ARP detection is supported	N/A	Boolean: • **true** • false	N/A
SupportFilter	Whether ARP filter is supported	N/A	Boolean: • **true** • false	N/A
SupportSnooping	Whether ARP snooping is supported	N/A	Boolean: • **true** • **false**	N/A
IntervalDefault	The default of interval	N/A	Unsigned integer. Value range: 0 to 200000.	N/A
LearnMaxNumLimit	The limit of max learn number	N/A	Unsigned integer.	N/A

LearnMaxNumDefault	The default of max learn number	N/A	Unsigned integer.	N/A
SupportModeUNI	Whether the ARP customer-side port feature is supported	N/A	Boolean: • true • false	N/A

ARP/ ArpSnoopingEntry

This table contains information about ARP snooping entries.

XML structure

```
<ARP>
  <ArpSnoopingEntry>
    <SnoopingEntry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <AgeTime></AgeTime>
    </SnoopingEntry>
  </ArpSnoopingEntry>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingEntry
Table type	Multi-instance table
Row name	SnoopingEntry

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Status	State of an entry	N/A	Enumeration: • **0**—Valid. • **1**—Invalid. • **2**—Collision.	N/A
AgeTime	The remaining aging time of ARP attack defense policy entry	N/A	AgeTime	N/A

ARP/ArpSnooping

This table contains information about ARP snooping.

XML structure

```
<ARP>
  <ArpSnooping>
    <Snooping>
      <VLANID></VLANID>
      <SnoopingEnable></SnoopingEnable>
    </Snooping>
  </ArpSnooping>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnooping
Table type	Multi-instance table
Row name	Snooping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
SnoopingEnable	Whether ARP snooping is enabled	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpInterface

This table contains ARP interface information.

XML structure

```
<ARP>
  <ArpInterface>
    <Interface>
      <IfIndex></IfIndex>
      <ModeUNI></ModeUNI>
    </Interface>
  </ArpInterface>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	VLAN interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only VLAN interfaces are supported.
ModeUNI	Configure a port as a customer-side port	N/A	Boolean: • **true**—Customer-side port. • **false**—Network-side port.	N/A

ARP/ArpVsiConfig

This table contains ARP VSI configuration information.

XML structure

```
<ARP>
  <ArpVsiConfig>
    <VsiConfig>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VsiIfIndex></VsiIfIndex>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <Description></Description>
    </VsiConfig>
  </ArpVsiConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiConfig
Table type	Multi-instance table
Row name	VsiConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits,	N/A

			hyphen-separated.	
VsiIfIndex	VSI interface index	N/A	Unsigned integer.	N/A
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field cannot be displayed when the port is a Tunnel interface. It is displayed when the port is a Layer 2 Ethernet interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A
Description	Description of the static ARP entry	N/A	String Length:1 to 255 characters.	N/A

ARP/ArpRouteAdvertise

This table contains the information about ARP direct route advertisement.

XML structure

```
<ARP>
  <ArpRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <DelayTime></DelayTime>
      <Preference></Preference>
      <Tag></Tag>
    </RouteAdvertise>
  </ArpRouteAdvertise>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VE-L3VPN interface VSI interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	VE-L3VPN interface VSI interface
Enable	Whether ARP direct route advertisement is enabled	N/A	Boolean: • **true** • **false(defult)**	N/A
DelayTime	Delay for ARP direct route advertisement	N/A	Unsigned integer. Value range: 0 to 3600, in seconds. Default: 0.	N/A
Preference	Preference of the direct routes	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Tag	Route tag for the direct routes	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ARP/ArpVsiFeature

This table contains ARP configuration information for VSIs.

XML structure

```
<ARP>
  <ArpVsiFeature>
    <VsiFeature>
      <VsiName></VsiName>
      <SnoopingEnable></SnoopingEnable>
      <DetectionEnable></DetectionEnable>
      <SuppressionMode></SuppressionMode>
      <SuppressionMismatchDiscard></SuppressionMismatchDiscard>
      <NoBroadCast></NoBroadCast>
    </VsiFeature>
  </ArpVsiFeature>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiFeature
Table type	Multi-instance table
Row name	VsiFeature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
SnoopingEnable	Whether ARP snooping is enabled for the	N/A	Boolean: • **true**—Enabled.	N/A

	VSI		• **false**—Disabled (default).	
DetectionEnable	Whether ARP attack detection is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
SuppressionEnable	Whether ARP suppression is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
SuppressionMode	ARP suppression mode	N/A	Enumeration: • **`1`**—**`proxy-reply`** (default). • **`2`**—**`unicast-forward`**.	N/A
SuppressionMismatchDiscard	ARP suppression mismatch discard mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
NoBroadCast	Whether ARP stateless broadcast is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

ARP/ArpVsiDetectionTrust

This table contains ARP trusted AC configuration information for Ethernet service instances.

XML structure

```
<ARP>
  <ArpVsiDetectionTrust>
    <SRV>
      <IfIndex></IfIndex>
```

```
      <SrvID></SrvID>
      <TrustEnable></TrustEnable>
    </SRV>
  </ArpVsiDetectionTrust>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiDetectionTrust
Table type	Multi-instance table
Row name	SRV
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Ethernet service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
TrustEnable	Whether the Ethernet service instance is configured as an ARP trusted AC	N/A	Boolean: • **true**—Yes. • **false**—No (Default).	N/A

ARP/ArpForwardConverseLearn

This table contains configuration information about ARP conversational learning for remote ARP entries.

XML structure

```
<ARP>
  <ArpForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </ArpForwardConverseLearn>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether ARP conversational learning is enabled for remote ARP entries	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
AgingTime	Aging time for remote ARP entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes.	N/A

ARP/ArpDetectionInterface

This table contains ARP detection settings on interfaces.

XML structure

```
<ARP>
  <ArpDetectionInterface>
    <Detection>
      <IfIndex></IfIndex>
      <DetectionEnable></DetectionEnable>
    </Detection>
  </ArpDetectionInterface>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML

				API Configuration Reference.
DetectionEnable	Whether ARP detection is enabled on the interface	N/A	Boolean: • **true** • **false**	N/A

ARP/ArpAgingIfConfig

This table contains information about the ARP aging configuration on interfaces.

XML structure

```
<ARP>
  <ArpAgingIfConfig>
    <AgingIfConfig>
      <IfName></IfName>
      <AgingSecond></AgingSecond>
      <AgingMinute></AgingMinute>
      <AgingProbeCount></AgingProbeCount>
      <AgingProbeInterval></AgingProbeInterval>
    </AgingIfConfig>
  </ArpAgingIfConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAgingIfConfig
Table type	Multi-instance table
Row name	AgingIfConfig
Restrictions	This table supports the following interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VSI interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	index	String, case sensitive. Length: 1 to 48 characters.	N/A
AgingSecond	Aging seconds for ARP entriesarp	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	N/A
AgingMinute	Aging minutes for ARP entries	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AgingProbeCount	Maximum number of aging probes for ARP entries	N/A	Unsigned integer. Value range: 0 to 10.	N/A
AgingProbeInterval	Aging probe interval for ARP entries	N/A	Unsigned integer. Value range: 1 to 60, in seconds.	N/A

ARP/ArpIfScanAutoWithMultiIP

This table contains interface-specific information about ARP auto scanning in an address range.

XML structure

```
<ARP>
  <ArpIfScanAutoWithMultiIP>
    <IfScanAutoWithMultiIP>
      <IfName></IfName>
      <StartIP></StartIP>
      <EndIP></EndIP>
      <SourceIP></SourceIP>
    </IfScanAutoWithMultiIP>
  </ArpIfScanAutoWithMultiIP>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpIfScanAutoWithMultiIP
Table type	Multi-instance table
Row name	IfScanAutoWithMultiIP
Restrictions	This table supports the following interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface VSI interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	index	String, case sensitive. Length: 1 to 48 characters.	N/A
StartIP	Start IPv4 address of the scanning range	index	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides. StartIP and EndIP can be configured only when ARP auto scan on the interface is enabled.
EndIP	End IPv4 address of the scanning range	index	String, dotted decimal notation.	You must specify the end IPv4 address if the start IPv4 address is specified.
SourceIP	Source IPv4 address of the	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ARP requests			

ARP/ArpScanKeepalive

This table contains interface-specific information about ARP scan keepalive

XML structure

```
<ARP>
  <ArpScanKeepalive>
    <IfScanKeepalive>
      <IfIndex></IfIndex>
      <ScanEnable></ScanEnable>
      <AgingTime></AgingTime>
    </IfScanKeepalive>
  </ArpScanKeepalive>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScanKeepalive
Table type	Multi-instance table
Row name	IfScanKeepalive
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
ScanEnable	Whether ARP keepalive scanning is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AgingTime	Aging time of ARP keepalive entries	N/A	Unsigned integer. Value range: 0 to 1440.	0 means not configured.

ARP/ArpVsrpPort

This table contains ARP VSRP port information

XML structure

```
<ARP>
  <ArpVsrpPort>
    <PortNum></PortNum>
  </ArpVsrpPort>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsrpPort

Table type	Single-instance table
Row name	VsrpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNum	Port number of ARP VSRP instance	N/A	Unsigned integer. Value range: 1 to 65535.	60043 means not configured.

ARP/ArpConsistencyTable

This table contains the information about ARP consistency check.

XML structure

```
<ARP>
  <ArpConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </ArpConsistencyTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether ARP consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

ARP 1
ARP/ArpTable 1
ARP/ArpConfig 1
ARP/ArpLearnLimit 2
ARP/ArpGratuitousInterval 2
ARP/ArpProxy 3
ARP/ArpAttackProtect 3
ARP/ArpRateLimit 3
ARP/ArpSourceMACExclude 4
ARP/ArpDetection 4
ARP/ArpFilterSource 4
ARP/ArpFilterBinding 4
ARP/ArpSnooping 5
ARP/ArpVsiConfig 5
ARP/ArpScan 6
ARP/ArpIfScanAuto 6
ARP/ArpFixup 7
ARP/ArpClearTable 7
ARP/ArpForwardConverseLearn 7
ARP/ArpIfScanAutoWithMultiIP 8

ARP

ARP/ArpTable

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid IP address configuration 无效的 IP 地址配置

ARP/ArpConfig

Message	Explanation
VPN-Instance does not exist. 该VPN不存在。	The VPN-Instance does not exist when set the configuration. 配置时对应 VPN 不存在
Invalid MAC address. 非法的MAC地址。	Invalid MAC address configuration. 非法的 MAC 地址配置。
The VLAN doesn't exist. 该VLAN不存在。	The VLAN does not exist when set the configuration. 配置时 VLAN 不存在
Please create the VLAN interface first. 请先创建相应的VLAN接口。	The VLAN interface does not exist when set the configuration. 配置时 VLAN 接口不存在
Invalid IP address. 非法的IP地址。	Invalid IP address configuration 无效的 IP 地址配置
Can't set S-channel subinterface as the output interface. 不支持S通道子接口。	Do not support set S-channel subinterface as the output interface. 不支持 S 通道子接口。
The port doesn't belong to the VLAN, or the VLAN is not permitted on the port. 端口不属于指定VLAN或Trunk类型的端口不允许指定VLAN内的报文通过。	The port doesn't belong to the VLAN, or the VLAN is not permitted on the port. 端口不属于指定 VLAN 或 Trunk 类型的端口不允许指定 VLAN 内的报文通过。
The VPN instance of the configured entry is different from that of the interface. 配置表项的VRF与接口的VRF不相同。	The VPN instance of the configured entry is different from that of the interface. 配置表项的 VRF 与接口的 VRF 不相同。

The multiport ARP entry contains invalid parameters. 多端口参数非法。	The ARP entry does not have vlans or have port interfaces. 没有配置 VLAN 或者接口
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Maximum number of ARP entries already reached. 已到达ARP表项的上限。	Maximum number of ARP entries already reached,p Please check configuration or specifications 已到达 ARP 表项的上限,请检查配置或者设备规格
The Ethernet service instance doesn't exist. 以太网服务实例不存在。	The Ethernet service instance doesn't exist,when set the configuration. 以太网服务实例不存在。
The Ethernet interface and Ethernet service instance are not mapped to the VSI. 以太接口和以太网服务实例与VSI未关联。	The Ethernet interface and Ethernet service instance are not mapped to the VSI,please check configuration. 以太接口和以太网服务实例与VSI未关联,请检查配置
Failed to configure the static ARP entry because it has the same IP address and output interface as an existing remote static ARP entry. 不能配置该静态ARP，因为它与远端已存在的静态ARP表项有相同IP地址和出接口。	Failed to configure the static ARP entry because it has the same IP address and output interface as an existing remote static ARP entry. 不能配置该静态ARP，因为它与远端已存在的静态ARP表项有相同IP地址和出接口。

ARP/ArpLearnLimit

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改

ARP/ArpGratuitousInterval

Message	Explanation
Maximum number of interfaces enabled with the feature already reached. 可用接口个数超过上限。	Maximum number of interfaces enabled with the feature already reached, please modify configuration under guidance. 可用接口个数超过上限,请按照配置说明修改

ARP/ArpProxy

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid start IPv4 address. 非法的IPv4开始地址。	Invalid start IPv4 address. 非法的IPv4开始地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	Invalid end IPv4 address. 非法的IPv4结束地址。
Start IPv4 address must be lower than or equal to end IPv4 address. IPv4开始地址必须低于或者等于IPv4结束地址。	Start IPv4 address must be lower than or equal to end IPv4 address, please modify configuration under guidance. IPv4开始地址必须低于或者等于IPv4结束地址。，请按照配置说明修改

ARP/ArpAttackProtect

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改

ARP/ArpRateLimit

Message	Explanation
Failed to set the maximum number of dynamic ARP entries. 指定ARP最大动态表项数失败。	The device returned failed when set the maximun number of dynamic ARP entries. 指定 ARP 最大动态表项数失败。
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
The value is out of range. 参数值超出范围。	Invalid configuration, please modify configuration under guidance.

	无效配置，请按照配置说明修改

ARP/ArpSourceMACExclude

Message	Explanation
Maximum number of protected MAC addresses already reached. 受保护的MAC的个数达到上限。	Maximum number of protected MAC addresses already reached,please check configuration or specifications 受保护的MAC的个数达到上限,请检查配置或者设备规格

ARP/ArpDetection

Message	Explanation
The VLAN doesn't exist. 该VLAN不存在。	The VLAN does not exist when set the configuration. 配置时 VLAN 不存在

ARP/ArpFilterSource

Message	Explanation
Maximum number of protected gateway IP addresses already reached. 可配置的被保护网关IP地址超过上限。	Maximum number of protected gateway IP addresses already reached, Please check configuration or specifications 可配置的被保护网关IP地址超过上限,请检查配置或者设备规格
Configuration failed. Please disable ARP filtering first. 配置ARP网关保护功能失败。需要先关闭ARP过滤保护功能。	Please disable ARP filtering first. 配置ARP网关保护功能需要先关闭ARP过滤保护功能。

ARP/ArpFilterBinding

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Maximum number of permitted IP-to-MAC	Maximum number of permitted IP-to-MAC bindings already reached, please modify configuration under

bindings already reached. 可配置的IP地址和MAC地址超过上限。	guidance. 可配置的IP地址和MAC地址超过上限,请按照配置说明修改
Configuration failed. Please disable ARP gateway protection first. 配置ARP过滤保护功能失败。需要先关闭ARP网关保护功能。	Please disable ARP gateway protection first, please modify configuration under guidance. 配置ARP过滤保护需要先关闭ARP网关保护功能,请按照配置说明修改

ARP/ArpSnooping

Message	Explanation
The VLAN doesn't exist. 该VLAN不存在。	The VLAN does not exist when set the configuration. 配置时 VLAN 不存在

ARP/ArpVsiConfig

Message	Explanation
VPN-Instance does not exist. 该VRF不存在。	The VPN-Instance does not exist when set the configuration. 配置时对应 VPN 不存在
Invalid MAC address. 非法的MAC地址。	Invalid MAC address configuration. 非法的 MAC 地址配置。
Invalid IP address. 非法的IP地址。	Invalid IP address configuration 无效的 IP 地址配置
The VPN instance of the configured entry is different from that of the interface. 配置表项的VRF与接口的VRF不相同。	The VPN instance of the configured entry is different from that of the interface., please modify configuration under guidance. 配置表项的VRF与接口的VRF不相同。请按照配置说明修改
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Maximum number of ARP entries already reached. 已到达ARP表项的上限。	Maximum number of ARP entries already reached,please check configuration or specifications. 已到达 ARP 表项的上限,请检查配置或者设备规格
The VSI doesn't exist. 指定的VSI不存在。	The VSI does not exist when set the configuration. 配置时VSI不存在

The VSI interface is not associated with the VSI. 指定的VSI虚接口与VSI未绑定。	The VSI interface is not associated with the VSI, please check configuration . 指定的VSI虚接口与VSI未绑定。请检查配置。
The Ethernet service instance doesn't exist. 以太网服务实例不存在。	The Ethernet service instance doesn't exist, please check configuration. 以太网服务实例不存在,请检查配置
The Ethernet interface and Ethernet service instance are not mapped to the VSI. 以太接口和以太网服务实例与VSI未关联。	The Ethernet interface and Ethernet service instance are not mapped to the VSI, please check configuration. 以太接口和以太网服务实例与VSI未关联，请检查配置

ARP/ArpScan

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid IP address configuration. 非法的 IP 地址配置。
Start IP address must be lower than or equal to end IP address. 起始IP地址必须低于或者等于终止IP地址。	Start IP address must be lower than or equal to end IP address, please modify configuration under guidance. 起始IP地址必须低于或者等于终止IP地址,请按照配置说明修改
The interface is down or has no IP address configured. 扫描接口处于关闭状态或者未配置IP地址。	The interface is down or has no IP address configured, please modify configuration under guidance. 扫描接口处于关闭状态或者未配置 IP 地址，请按照配置说明修改
The start and end IP addresses must be on the same subnet as the interface IP address. 起始IP地址和终止IP地址必须与扫描接口IP地址在相同的网段。	The start and end IP addresses must be on the same subnet as the interface IP address, please modify configuration under guidance. 起始 IP 地址和终止 IP 地址必须与扫描接口 IP 地址在相同的网段,请按照配置说明修改
ARP scanning is interrupted. 扫描表项过程中断。	ARP scanning is interrupted,please try again. 扫描表项过程中断,请再试一次

ARP/ArpIfScanAuto

Message	Explanation
Invalid start IPv4 address.	The start IP address must be a valid IP address. <StartIP>列必须是合法的 IP 地址。

非法的IPv4开始地址。	
Invalid end IPv4 address. 非法的IPv4结束地址。	The end IP address must be a valid IP address. <EndIP>列必须是合法的 IP 地址。
Start IP address must be lower than or equal to end IP address. 起始IP地址必须低于或者等于终止IP地址。	The start IP address must be lower than or equal to the end IP address. 起始IP地址必须低于或者等于终止IP地址,请按照配置说明修改
Total number of IP addresses in this range exceeds 65535. 该IP范围内IP地址个数已达上限。	The total number of IP addresses in this range exceeds 65535. 该IP范围内IP地址个数已达上限。

ARP/ArpFixup

Message	Explanation
Maximum number of ARP entries already reached. 已到达ARP表项的上限。	Maximum number of ARP entries already reached，please modify configuration under guidance. 已到达 ARP 表项的上限，请检查配置或者设备规格

ARP/ArpClearTable

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid IP address configuration 无效的 IP 地址配置

ARP/ArpForwardConverseLearn

Message	Explanation
When ARP conversational learning for remote ARP entries is disabled, the aging time of entries must be the default value. 报文转发时下发远端ARP表项功能处于关闭状态，表项的老化时间必须是默认值。	When ARP conversational learning for remote ARP entries is disabled, the aging time of entries must be the default value. 报文转发时下发远端 ARP 表项功能处于关闭状态，表项的老化时间必须是默认值。

ARP/ArpIfScanAutoWithMultiIP

Message	Explanation
Invalid start IPv4 address. 非法的IPv4开始地址。	The start IP address must be a valid IP address. <StartIP>列必须是合法的 IP 地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	The end IP address must be a valid IP address. <EndIP>列必须是合法的 IP 地址。
Start IP address must be lower than or equal to end IP address. 起始IP地址必须低于或者等于终止IP地址。	The start IP address must be lower than or equal to the end IP address. 起始IP地址必须低于或者等于终止IP地址,请按照配置说明修改
Total number of IP addresses in this range exceeds 65535. 该IP范围内IP地址个数已达上限。	The total number of IP addresses in this range exceeds 65535. 该IP范围内IP地址个数已达上限。
The number of IP address ranges on the interface reached the maximum of 16. 该接口下配置的扫描网段范围个数达到最大值。	Configuration failed. The number of scanning ranges configured on the interface has reached the maximum. 该接口下配置的IP网段范围个数已达上限。
Please check the existing scanning ranges on the interface. 请检查当前接口下已存在的扫描网段范围。	配置的网段范围与当前已配置的网段范围有交集，请检查当前接口下已存在的扫描网段范围。 The scanning range overlaps with an existing scanning range. Please check the existing scanning ranges on the interface.

Contents

arp_event event stream 1

ArpTable event 1
XML structure for event subscription 1
XML structure for event report 1
ARP detection event 3
XML structure for event subscription 3
XML structure for event report 3
ARP conflict event 4
XML structure for event subscription 4
XML structure for event report 5
PingArpIp event 6
XML structure for event subscription 6
XML structure for event report 7
PingArpMac event 8
XML structure for event subscription 8
XML structure for event report 10

arp_event event stream

This event stream is used to report ARP event information.

ArpTable event

This event is used to report ARP change information.

XML structure for event subscription

```
<ArpTableEvent>
</ArpTableEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>arp_event</stream>
    <filter type="subtree">
      <ArpTableEvent xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
      </ArpTableEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	arp_event
Event name	ArpTableEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/arp_event:1.0
Support for extended query	No

XML structure for event report

```
<ArpTableEvent>
  <ArpTable>
    <EventType></EventType>
    <IfIndex></IfIndex>
    <Ipv4Address></Ipv4Address>
    <MacAddress></MacAddress>
    <VLANID></VLANID>
    <VXLANID></VXLANID>
    <PortIndex></PortIndex>
    <VrfIndex></VrfIndex>
    <ArpType></ArpType>
    <Sequence></Sequence>
```

```
  </ArpTable>
</ArpTableEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <ArpTableEvent xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
    <ArpTable>
      <EventType>1</EventType>
      <IfIndex>100</IfIndex>
      <Ipv4Address>10.1.1.1</Ipv4Address>
      <MacAddress>1234-1234-1234</MacAddress>
      <VLANID>1</VLANID>
      <VXLANID>100</VXLANID>
      <PortIndex>1</PortIndex>
      <VrfIndex>0</VrfIndex>
      <ArpType>0</ArpType>
      <Sequence>1</Sequence>
    </ArpTable>
  </ArpTableEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration: • **1**—Add. • **2**—Delete. • **3**—Update. • **4**—Batch start. • **5**—Batch. • **6**—Batch end.	The event type specifies an operation that ARP performs.
IfIndex	Interface index	Unsigned integer.	N/A
Ipv4Address	IPv4 address	String, dotted decimal notation.	N/A
MacAddress	MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VLANID	VLAN ID	Unsigned integer. Value range: 1 to 4094.	N/A
VXLANID	VXLAN ID	Unsigned integer.	-1 indicates the invalid value
PortIndex	Port index	Unsigned integer.	N/A
VrfIndex	VRF index	Unsigned integer.	0 indicates the public network.
ArpType	ARP entry type	Enumeration: • **0**—Dynamic. • **1**—Static. • **2**—Multiport. • **3**—Rule. • **4**—OpenFlow.	N/A

Column name	Column description	Data type and restrictions	Remarks
Sequence	Sequence	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

ARP detection event

This event is used to report ARP detection information

XML structure for event subscription

```
<ArpAttackEventInfo>
  <ArpAttackInfo>
  </ArpAttackInfo>
</ArpAttackEventInfo>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ARP</stream>
    <filter type="subtree">
      <ArpAttackEventInfo xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
      </ArpAttackEventInfo>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event name	ArpAttackEventInfo
Event namespace	http://www.h3c.com/netconf/event:1.0/arp_event:1.0
Support for extended query	No

XML structure for event report

```
<ArpAttackEventInfo>
  <ArpAttackInfo>
    <IfName></IfName>
    <Ipv4Address></Ipv4Address>
    <MAC></MAC>
    <VLANID></VLANID>
  </ArpAttackInfo>
</ArpAttackEventInfo>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ArpAttackEventInfo> xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
    <ArpAttackInfo>
      <IfName>GigabitEthernet2/0/1</IfName>
      <Ipv4Address>1.1.1.1</Ipv4Address>
      <MAC>00:00:00:00:00:AA</MAC>
      <VLANID>1</VLANID>
    </ArpAttackInfo>
  </ArpAttackEventInfo>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Length: 1 to 47 characters.	No
Ipv4Address	IPv4 address	String, dotted decimal notation.	No
MAC	MAC address	String. Six groups of two hexadecimal digits, hyphen-separated	No
VLANID	VLAN ID	Unsigned integer. Value range: 1 to 4094	No

ARP conflict event

This event is used to report ARP ip address conflict information

XML structure for event subscription

```
<ArpConflictEventInfo>
  <ArpConflictInfo>
    <Name></Name>
  </ArpConflictInfo>
</ArpConflictEventInfo>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>arp_event</stream>
    <filter type="subtree">
      < ArpConflictEventInfo xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
```

```
      </ArpConflictEventInfo>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event name	ArpConflictEventInfo
Event namespace	http://www.h3c.com/netconf/event:1.0/arp_event:1.0
Support for extended query	No

XML structure for event report

```
<ArpConflictEventInfo>
  <ArpConflictInfo>
    <IfName></IfName>
    <Ipv4Address></Ipv4Address>
    <MAC></MAC>
    <ConflictInfo></ConflictInfo>
  </ArpConflictInfo >
</ArpConflictEventInfo>
```

Example1:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ArpConflictEventInfo xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
    <ArpConflictInfo>
      <IfName>GigabitEthernet2/0/1</IfName>
      <Ipv4Address>1.1.1.1</Ipv4Address>
      <MAC>00:00:00:00:00:AA</MAC>
      <ConflictInfo>conflicted with TRILL VR virtual IP address</ConflictInfo>
    </ArpConflictInfo>
  </ArpConflictEventInfo>
</notification>
```

Example2:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ArpConflictEventInfo xmlns="http://www.h3c.com/netconf/event:1.0/arp_event:1.0">
    <ArpConflictInfo>
      <Ipv4Address>1.1.1.2</Ipv4Address>
      <MAC>00:00:00:00:00:AA</MAC>
      <ConflictInfo>conflicted with global or imported IP address</ConflictInfo>
    </ArpConflictInfo>
  </ArpConflictEventInfo>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Length: 1 to 47 characters.	No
Ipv4Address	IPv4 address	String, dotted decimal notation.	No
MAC	MAC address	String. Six groups of two hexadecimal digits, hyphen-separated	No
ConflictInfo	IP conflict info	String. Length:1 to 64 characters	No

PingArpIp event

This table is used to report information about an ping ARP IP operation.

XML structure for event subscription

```
<PingArpIpEvent>
  <PingArpIpInfo>
    <Sequence></Sequence>
    <Host></Host>
    <OutputInterface></OutputInterface>
    <OutputVlan></OutputVlan>
    <ReplyTimeOut></ReplyTimeOut>
    <ReplyCount></ReplyCount>
  </PingArpIpInfo>
</PingArpIpEvent>
```

Example:

```
<rpc message-id="110" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ARP</stream>
    <filter type="subtree">
      <PingArpIpEvent xmlns="http://www.h3c.com/netconf/event:1.0/ARP:1.0">
        <PingArpIpInfo>
          <Sequence>1</Sequence>
          <Host>192.168.56.101</Host>
          <OutputInterface>MGE0/0/0</OutputInterface>
          <OutputVlan></OutputVlan>
          <ReplyTimeOut>5</ReplyTimeOut>
```

```
        <ReplyCount>5</ReplyCount>
      </PingArpIpInfo>
    </PingArpIpEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ARP
Event name	PingArpIpEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ARP:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address or host name of a remote system	String. Length: 1 to 253 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
OutputVlan	ID of the outgoing VLAN	Unsigned integer. Value range: 1 to 4094	No
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 1 to 10 seconds. Default: 3	No
ReplyCount	Number of detections	Unsigned integer. Default: 5	No

XML structure for event report

```
<PingArpIpEvent>
  <PingArpIpInfo>
    <Sequence></Sequence>
    <Host></Host>
    <Macaddress></Macaddress>
    <ErrorInfo></ErrorInfo>
  </PingArpIpInfo>
</PingArpIpEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-07-21T09:10:51</eventTime>
  <PingArpIpEvent xmlns="http://www.h3c.com/netconf/event:1.0/ARP:1.0">
    <PingArpIpInfo>
      <Sequence>1</Sequence>
      <Host>192.168.56.101</Host>
      <Macaddress>00-03-00-03-00-04</Macaddress>
      <ErrorInfo></ErrorInfo>
    </PingArpIpInfo>
  </PingArpIpEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address of the remote system	String. Length: 1 to 253 characters.	No
Macaddress	MAC address of the remote system	Six groups of two hexadecimal digits, hyphen-separated.	No
ErrorInfo	Related result information of the request operation	String. Length: 0 to 255 characters.	No

PingArpMac event

This table is used to report information about an ping ARP MAC operation.

XML structure for event subscription

```
<PingArpMacEvent>
  <PingArpMacInfo>
    <Sequence></Sequence>
    <Macaddress></Macaddress>
    <Ipaddress></Ipaddress>
    <Vpninstance></Vpninstance>
    <OutputInterface></OutputInterface>
    <ReplyTimeOut></ReplyTimeOut>
    <ReplyCount></ReplyCount>
  </PingArpMacInfo>
</PingArpMacEvent>
```

Example:

```
<rpc message-id="110" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ARP</stream>
    <filter type="subtree">
      <PingArpMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/ARP:1.0">
        <PingArpMacInfo>
          <Sequence>1</Sequence>
          <Macaddress>00-03—00-03-00-03</Macaddress>
          <Ipaddress>1.1.1.0</Ipaddress>
          <Vpninstance>1</Vpninstance>
          <OutputInterface></OutputInterface>
          <ReplyTimeOut>5</ReplyTimeOut>
          <ReplyCount>10</ReplyCount>
        </PingArpMacInfo>
      </PingArpMacEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ARP
Event name	PingArpMacEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ARP:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Macaddress	MAC address to be tested	Six groups of two hexadecimal digits, hyphen-separated.	No
Ipaddress	Destination IPv4 address of echo requests	IPv4: String, dotted decimal notation.	No
Vpninstance	Name of a VPN instance	String. Length: 1 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 1 to 10 seconds. Default: 3	No
ReplyCount	Number of detections	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		Default: 5	

XML structure for event report

```
<PingArpMacEvent>
  <PingArpMacInfo>
    <Sequence></Sequence>
    <Macaddress></Macaddress>
    <RemoteIpaddress></RemoteIpaddress>
    <ErrorInfo></ErrorInfo>
  </PingArpMacInfo>
</PingArpMacEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-07-21T09:10:51</eventTime>
  <PingArpMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/ARP:1.0">
     <PingArpMacInfo>
      <Sequence>1</Sequence>
      <Macaddress>00-03-00-03-00-03</Macaddress>
      <RemoteIpaddress>192.168.56.150</RemoteIpaddress>
      <ErrorInfo></ErrorInfo>
     </PingArpMacInfo>
  </PingArpMacEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Macaddress	MAC address to be tested	Six groups of two hexadecimal digits, hyphen-separated.	No
RemoteIpaddress	IPv4 address of the remote system	IPv4: String, dotted decimal notation.	No
ErrorInfo	Related result information of the request operation	String. Length: 0 to 255 characters.	No

Contents

ARPSYNC 1
ARPSYNC/ARPTable 1
XML structure 1
Table description 1
Columns 1

ARPSYNC

ARPSYNC/ARPTable

This table is used to clear all ARP table synchronization informations.

XML structure

```
<ARPSYNC>
  <ClearARPTable>
    <Clear></Clear>
  </ClearARPTable>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ClearARPTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears all ARP table synchronization informations	N/A	This column must be empty.	N/A

Contents

ARPSYNC 1
ARPSYNC/ARPConfig 1
XML structure 1
Table description 1
Columns 1
ARPSYNC/ServerList 2
XML structure 2
Table description 2
Columns 3

ARPSYNC

ARPSYNC/ARPConfig

This table contains ARP table synchronization information.

XML structure

```
<ARPSYNC>
  <ARPConfig>
    <ARPEnable>
      <Enable></Enable>
      <Interval></Interval>
      <Timeout></Timeout>
    </ARPEnable>
  </ARPConfig>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ARPEnable	ARP table synchronization information.	Data structure	Members include: • Enable • Interval • Timeout	N/A
Enable	Whether to enable the rule.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Interval	ARP table synchronization request interval.	N/A	Unassigned integer. Value range: 5 to 30 seconds.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Request timeout.	N/A	Unassigned integer. Value range: 1 to 5 seconds.	N/A.

ARPSYNC/ServerList

This table contains SNMP server information.

XML structure

```
<ARPSYNC>
  <ServerList>
    <ServerConfigInfo>
      <Index></Index>
      <SNMPVersion></SNMPVersion>
      <IPAddress></IPAddress>
      <CommunityName></CommunityName>
      <UserName></UserName>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
    </ServerConfigInfo>
  </ServerList>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ServerList
Table type	Multi-instance table
Row name	ServerConfigInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 64.	To create an SNMP server, set this column to 64.
SNMPVersion	SNMP version.	N/A	Enumeration: • 2—v2c. • 3—v3.	N/A
IPAddress	IP address of the SNMP server.	N/A	IPv4: String, dotted decimal notation.	IPv4 address example: 1.1.1.1.
CommunityName	SNMP v2c community name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when ‘SNMP version’ is ‘v2c’.
UserName	SNMP v3 user name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when ‘SNMP version’ is ‘v3’.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol • AuthKey • PrivProtocol • PrivKey	Applicable only when ‘SNMP version’ is ‘v3’. ‘PrivProtocol’ and ‘PrivKey’ must be specified with ‘AuthProtocol’ and ‘AuthKey’ together.
AuthProtocol	Authentication algorithm	N/A	Enumeration: • 0—NoAuth. • 1—SHA. • 2—MD5.	N/A
AuthKey	Authentication key	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with AuthProtocol.
PrivProtocol	Encryption algorithm for privacy	N/A	Enumeration: • 0—NoPriv. • 1—AES128. • 2—DES56.	N/A
PrivKey	Privacy key	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with PrivProtocol.

Contents

ARPSYNC 1
ARPSYNC/ARPConfig 1
XML structure 1
Table description 1
Columns 1
ARPSYNC/ServerList 2
XML structure 2
Table description 2
Columns 2
ARPSYNC/ARPTable 3
XML structure 3
Table description 4
Columns 4

ARPSYNC

ARPSYNC/ARPConfig

This table contains ARP table synchronization information.

XML structure

```
<ARPSYNC>
  <ARPConfig>
    <ARPEnable>
      <Enable></Enable>
      <Interval></Interval>
      <Timeout></Timeout>
    </ARPEnable>
  </ARPConfig>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ARPEnable	ARP table synchronization information.	Data structure	Members include: • Enable • Interval • Timeout	N/A
Enable	Whether to enable the rule.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Interval	ARP table synchronization request interval.	N/A	Unassigned integer. Value range: 5 to 30 seconds.	N/A
Timeout	Request timeout.	N/A	Unassigned integer.	N/A

			Value range: 1 to 5 seconds.	

ARPSYNC/ServerList

This table contains SNMP server information.

XML structure

```
<ARPSYNC>
  <ServerList>
    <ServerConfigInfo>
      <Index></Index>
      <SNMPVersion></SNMPVersion>
      <IPAddress></IPAddress>
      <CommunityName></CommunityName>
      <UserName></UserName>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
    </ServerConfigInfo>
  </ServerList>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ServerList
Table type	Multi-instance table
Row name	ServerConfigInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 64.	To create an SNMP server, set this column to 64.
SNMPVersion	SNMP version.	N/A	Enumeration: • 2—v2c.	N/A

			• 3—v3.	
IPAddress	IP address of the SNMP server.	N/A	IPv4: String, dotted decimal notation	IPv4 address example: 1.1.1.1.
CommunityName	SNMP v2c community name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when ‘SNMP version’ is ‘v2c’.
UserName	SNMP v3 user name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when ‘SNMP version’ is ‘v3’.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol. • AuthKey. • PrivProtocol. • PrivKey.	Applicable only when ‘SNMP version’ is ‘v3’. ‘PrivProtocol’ and ‘PrivKey’ must be specified with ‘AuthProtocol’ and ‘AuthKey’ together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: • 0—NoAuth. • 1—SHA. • 2—MD5.	N/A
AuthKey	Authentication key.	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with ‘AuthProtocol’.
PrivProtocol	Encryption algorithm for privacy.	N/A	Enumeration: • 0—NoPriv. • 1—AES128. • 2—DES56.	N/A
PrivKey	Privacy key.	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with ‘PrivProtocol.

ARPSYNC/ARPTable

This table contains ARP table synchronization information.

XML structure

```
<ARPSYNC>
  <ARPTable>
    <ARPTableInfo>
      <Index></Index>
      <IPAddr></IPAddr>
      <MACAddr></MACAddr>
      <Aging></Aging>
      <Count></Count>
    </ARPTableInfo>
  </ARPTable>
```

```
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPTable
Table type	Multi-instance table
Row name	ARPTableInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 65534.	N/A
IPAddr	IP address	N/A	IPv4: String, dotted decimal notation.	N/A
MACAddr	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Aging	Aging time	N/A	Unassigned integer. Value range: 1 to 20 minutes.	N/A
Count	Total number of ARP entries	N/A	Unassigned integer.	N/A

Contents

ASPF 1
ASPF/Policies 1
XML structure 1
Table description 1
Columns 1
ASPF/DetectL4Protocols 2
XML structure 2
Table description 2
Columns 2
ASPF/DetectAppProtocols 3
XML structure 3
Table description 3
Columns 3
ASPF/AspfOnInterfaces 4
XML structure 4
Table description 5
Columns 5
ASPF/AspfOnInterZones 6
XML structure 6
Table description 6
Columns 6

ASPF

ASPF/Policies

This table contains ASPF policy configurations.

XML structure

```
<ASPF>
  <Policies>
    <Policy>
      <PolicyNumber></PolicyNumber>
      <ICMPErrDrop></ICMPErrDrop>
      <TCPSynCheck></TCPSynCheck>
    </Policy>
  </Policies>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ICMPErrDrop	Whether enable ICMP error message check and drop faked messages.	N/A	Boolean: • **true**—YES. • **false—**NO(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPSynCheck	Whether enable TCP SYN check.	N/A	Boolean: • **true**—YES • **false—**NO(default).	TCP SYN check checks the first packet to establish a TCP connection whether it is a SYN packet. If the first packet is not a SYN packet, ASPF drops the packet.

ASPF/DetectL4Protocols

This table contains the transport layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectL4Protocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <EnableDetect></EnableDetect>
    </Protocol>
  </DetectL4Protocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectL4Protocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ProtocolID	The detected transport layer protocol ID.	Index	Unsigned integer. Value range: 1 to 8.	• **1**—TCP. • **2—**UDP.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• **3**—UDP-Lite. • **4**—ICMP. • **5**—ICMPv6. • **6**—SCTP. • **7**—DCCP. • **8**—RAWIP.
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A

ASPF/DetectAppProtocols

This table contains the application layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectAppProtocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <EnableDetect></EnableDetect>
      <IllegalPacketAction></IllegalPacketAction>
    </Protocol>
  </DetectAppProtocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectAppProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number.		Value range: 1 to 256.	
ProtocolID	The detected application layer protocol ID.	Index	Unsigned integer. Value range: 1 to 17.	• **1—**FTP. • **2—**GTP. • **3—**H323. • **4—**RTSP. • **5—**SIP**.** • **6—**TFTP. • **7—**ILS. • **8—**MGCP. • **9—**NBT. • **10—**PPTP. • **11—**RSH. • **12—**SCCP. • **13—**SQLNET. • **14—**XDMCP. • **15—**HTTP. • **16—**SMTP. • **17—**DNS. Support for HTTP，SMTP and DNS depends on the device model.
EnableDetect	Whether enable detection.	N/A	Boolean: • **true**—YES • **false—**NO(default).	N/A
IllegalPacket Action	Action for illegal packets.	N/A	Enumeration: • **0—**None**.** • **1—**Drop illegal packets. • **2—**Log illegal packets. • **3—**Drop and log illegal packets.	Only the following application support the configuration: • **1—**FTP. • **3—**H323. • **5—**SIP**.** • **12—**SCCP. • **15—**HTTP. • **16—**SMTP. • **17—**DNS. Support for this column depends on the device model.

ASPF/AspfOnInterfaces

This table contains ASPF policies applied to the interfaces.

XML structure

```
<ASPF>
  <AspfOnInterfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <InPolicyNumber></InPolicyNumber>
      <OutPolicyNumber></OutPolicyNumber>
    </Interface>
  </AspfOnInterfaces>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	**Interface index**	Index	**Unsigned integer.**	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface. To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface. Make sure a connection initiation packet and the response packet pass through the same interface, because an ASPF stores and maintains the application layer protocol status based on interfaces.
InPolicyNumber	ASPF policy applied to the inbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the inbound direction of an interface.
OutPolicyNumber	ASPF policy applied to the outbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the outbound direction of an interface.

ASPF/AspfOnInterZones

This table contains ASPF policies applied to the inter-Zones.

XML structure

```
<ASPF>
  <AspfOnInterZones>
    <InterZone>
      <ZonePair>
        <SourceZone></SourceZone>
        <DestinationZone></DestinationZone>
      </ZonePair>
      <PolicyNumber></PolicyNumber>
    </InterZone>
  </AspfOnInterZones>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZonePair	**Inter-Zone information.**	Data structure.	Members include: • SourceZone. • DestinationZone.	**N/A**
SourceZone	Source zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
PolicyNumber	ASPF policy number.	N/A	Unsigned integer. Value range: 1 to 256.	N/A

Contents

ASPF 1
ASPF/Policies 1
XML structure 1
Table description 1
Columns 1
ASPF/DetectL4Protocols 2
XML structure 2
Table description 2
Columns 2
ASPF/DetectAppProtocols 3
XML structure 3
Table description 3
Columns 4
ASPF/AspfOnInterfaces 4
XML structure 5
Table description 5
Columns 5
ASPF/AspfOnInterZones 6
XML structure 6
Table description 6
Columns 6
ASPF/Specification 7
XML structure 7
Table description 7
Columns 8

ASPF

ASPF/Policies

This table contains ASPF policy configurations.

XML structure

```
<ASPF>
  <Policies>
    <Policy>
      <PolicyNumber></PolicyNumber>
      <ICMPErrDrop></ICMPErrDrop>
      <TCPSynCheck></TCPSynCheck>
    </Policy>
  </Policies>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ICMPErrDrop	Whether enable ICMP error message check and drop faked messages.	N/A	Boolean: • **true**—YES. • **false—**NO(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPSynCheck	Whether enable TCP SYN check.	N/A	Boolean: • **true**—YES • **false—**NO(default).	TCP SYN check checks the first packet to establish a TCP connection whether it is a SYN packet. If the first packet is not a SYN packet, ASPF drops the packet.

ASPF/DetectL4Protocols

This table contains the transport layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectL4Protocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableDetect></EnableDetect>
    </Protocol>
  </DetectL4Protocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectL4Protocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ProtocolID	The detected transport layer protocol ID.	Index	Unsigned integer. Value range: 1 to 8.	• **1**—TCP. • **2—**UDP. • **3—**UDP-Lite.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• **4**—ICMP. • **5**—ICMPv6. • **6**—SCTP. • **7**—DCCP. • **8**—RAWIP.
ProtocolName	The detected transport layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A

ASPF/DetectAppProtocols

This table contains the application layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectAppProtocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableDetect></EnableDetect>
      <IllegalPacketAction></IllegalPacketAction>
    </Protocol>
  </DetectAppProtocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectAppProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ProtocolID	The detected application layer protocol ID.	Index	Unsigned integer. Value range: 1 to 17.	• **1**—FTP. • **2**—GTP. • **3**—H323. • **4**—RTSP. • **5**—SIP**.** • **6**—TFTP. • **7**—ILS. • **8**—MGCP. • **9**—NBT. • **10**—PPTP. • **11**—RSH. • **12**—SCCP. • **13**—SQLNET. • **14**—XDMCP. • 15—HTTP. • **16**—SMTP. • **17**—DNS. Support for HTTP，SMTP and DNS depends on the device model.
ProtocolName	The detected application layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableDetect	Whether enable detection.	N/A	Boolean: • **true**—YES • **false—**NO(default).	N/A
IllegalPacketAction	Action for illegal packets.	N/A	Enumeration: • **0—**None. • **1—**Drop illegal packets. • **2—**Log illegal packets. • **3—**Drop and log illegal packets.	Only the following application support the configuration: • **1—**FTP. • **3—**H323. • **5—**SIP**.** • **12—**SCCP. • 15—HTTP. • **16—**SMTP. • **17—**DNS. Support for this column depends on the device model.

ASPF/AspfOnInterfaces

This table contains ASPF policies applied to the interfaces.

XML structure

```
<ASPF>
  <AspfOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InPolicyNumber></InPolicyNumber>
      <OutPolicyNumber></OutPolicyNumber>
    </Interface>
  </AspfOnInterfaces>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	**Interface index**	Index	**Unsigned integer.**	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface. To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface. Make sure a connection initiation packet and the response packet pass through the same interface, because an ASPF stores and maintains the application layer protocol status based on interfaces.
InPolicyNumber	ASPF policy applied to the inbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the inbound direction of an interface.
OutPolicyNumber	ASPF policy applied to the outbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the outbound direction of an interface.

ASPF/AspfOnInterZones

This table contains ASPF policies applied to the inter-Zones.

XML structure

```
<ASPF>
  <AspfOnInterZones>
    <InterZone>
      <ZonePair>
        <SourceZone></SourceZone>
        <DestinationZone></DestinationZone>
      </ZonePair>
      <PolicyNumber></PolicyNumber>
    </InterZone>
  </AspfOnInterZones>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZonePair	**Inter-Zone information.**	Data structure.	Members include: • SourceZone. • DestinationZone.	**N/A**
SourceZone	Source zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
PolicyNumber	ASPF policy number.	N/A	Unsigned integer. Value range: 1 to 256.	N/A

ASPF/Specification

This table contains specification information of the current device.

XML structure

```
<ASPF>
  <Specification>
    <InterfaceApply></InterfaceApply>
    <ZonePairApply></ZonePairApply>
    <DetectAppAction></DetectAppAction>
    <DetectDCCP></DetectDCCP>
    <DetectDNS></DetectDNS>
    <DetectFTP></DetectFTP>
    <DetectGTP></DetectGTP>
    <DetectH323></DetectH323>
    <DetectHTTP></DetectHTTP>
    <DetectICMP></DetectICMP>
    <DetectICMPv6></DetectICMPv6>
    <DetectILS></DetectILS>
    <DetectMGCP></DetectMGCP>
    <DetectNBT></DetectNBT>
    <DetectPPTP></DetectPPTP>
    <DetectRAWIP></DetectRAWIP>
    <DetectRSH></DetectRSH>
    <DetectRTSP></DetectRTSP>
    <DetectSCCP></DetectSCCP>
    <DetectSCTP></DetectSCTP>
    <DetectSIP></DetectSIP>
    <DetectSMTP></DetectSMTP>
    <DetectSQLNET></DetectSQLNET>
    <DetectTCP></DetectTCP>
    <DetectTFTP></DetectTFTP>
    <DetectUDP></DetectUDP>
    <DetectUDPLite></DetectUDPLite>
    <DetectXDMCP></DetectXDMCP>
  </Specification>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Specification
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceApply	Support apply an ASPF policy to interfaces.	N/A	Boolean: • **true** • false	N/A
ZonePairApply	Support apply an ASPF policy to security zone pairs.	N/A	Boolean: • **true** • false	N/A
DetectAppAction	Whether support set illegal packet's action of application layer protocol.	N/A	Boolean: • **true** • **false**	N/A
DetectDCCP	**Whether support DCCP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectDNS	**Whether support DNS application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectFTP	**Whether support FTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectGTP	**Whether support GTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectH323	**Whether support H323 application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectHTTP	**Whether support HTTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectICMP	**Whether support ICMP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectICMPv6	**Whether support ICMPv6 transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectILS	**Whether support ILS application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectMGCP	**Whether support MGCP application layer protocol**	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	detection.		• **false**	
DetectNBT	**Whether support NBT application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectPPTP	**Whether support PPTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectRAWIP	**Whether support RAWIP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectRSH	**Whether support RSH application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectRTSP	**Whether support RTSP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectSCCP	**Whether support SCCP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectSCTP	**Whether support SCTP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectSIP	**Whether support SIP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectSMTP	**Whether support SMTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectSQLNET	**Whether support SQLNET application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectTCP	**Whether support TCP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectTFTP	**Whether support TFTP application layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectUDP	**Whether support UDP transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectUDP-Lite	**Whether support UDP-Lite transport layer protocol detection.**	N/A	Boolean: • **true** • **false**	N/A
DetectXDMCP	**Whether support XDMCP**	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	application layer protocol detection.		• **true** • **false**	

Contents

ATK 1

ATK/ClearInterfaceAttackStatistics 1
XML structure 1
Table description 1
Columns 1
ATK/ClearLocalAttackStatistics 1
XML structure 1
Table description 2
Columns 2
ATK/ClearZoneAttackStatistics 2
XML structure 2
Table description 2
Columns 3
ATK/Blacklist/IPv4Blacklists 3
XML structure 3
Table description 3
Columns 3
ATK/Blacklist/IPv6Blacklists 4
XML structure 4
Table description 4
Columns 5
ATK/Blacklist/ClearItems 5
XML structure 5
Table description 5
Columns 6
ATK/Blacklist/IPv4DstBlacklists 6
XML structure 6
Table description 6
Columns 6
ATK/Blacklist/IPv6DstBlacklists 7
XML structure 7
Table description 7
Columns 7
ATK/Blacklist/ClearDstItems 8
XML structure 8
Table description 8
Columns 8
ATK/Blacklist/ClearStatistics 9
XML structure 9
Table description 9
Columns 9
ATK/ClientVerify/ClearProtectHostStatistics 9
XML structure 9
Table description 10
Columns 10
ATK/ClientVerify/ClearTrustClients 10
XML structure 10
Table description 11
Columns 11
ATK/Blacklist/ClearObjItemsStat 11
XML structure 11
Table description 12
Columns 12
ATK/Whitelist/ClearObjItemsStat 12
XML structure 12
Table description 12
Columns 13

ATK/ImportBlacklists ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 13
ATK/ExportBlacklistsTemplate ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14

ATK

ATK/ClearInterfaceAttackStatistics

This table is used to clear interface ATK statistics.

XML structure

```
<ATK>
  <ClearInterfaceAttackStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Statistics>
  </ClearInterfaceAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearInterfaceAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Clear	Clear interface statistics	N/A	This column must be empty.

ATK/ClearLocalAttackStatistics

This table is used to clear local ATK statistics.

XML structure

```
<ATK>
  <ClearLocalAttackStatistics>
```

```
    <Clear></Clear>
  </ClearLocalAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearLocalAttackStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear local statistics	N/A	This column must be empty.

ATK/ClearZoneAttackStatistics

This table is used to clear ATK statistics for a security zone.

XML structure

```
<ATK>
  <ClearZoneAttackStatistics >
    <Statistics>
      <ZoneID></ZoneID>
      <Clear></Clear>
    </Statistics>
  </ClearZoneAttackStatistics >
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearZoneAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Clear	Clear ATK statistics	N/A	This column must be empty.

ATK/Blacklist/IPv4Blacklists

This table is used to clear ipv4blacklist.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <Clear></Clear>
      </Item>
    </IPv4Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your

Column name	Column description	Column type	Data type and restrictions	Remarks
				product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	Ip address	Index	Ipv4 address.	N/A
DSLitePeer	Ip address	Index	Ipv6 address	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other circumstances.
Clear	Clear local statistics	N/A	This column must be empty.	N/A

ATK/Blacklist/IPv6Blacklists

This table is used to clear ipv6blacklist.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <Clear></Clear>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	Ip address	Index	Ipv6 address.	N/A
Clear	Clear local statistics	N/A	This column must be empty.	N/A

ATK/Blacklist/ClearItems

This table is used to clear blacklist items.

XML structure

```
<ATK>
  <Blacklist>
    <ClearItems>
      <Item>
        <AddrFamily></AddrFamily>
        <Clear></Clear>
      </Item>
    </ClearItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearItems
Table type	Multi-instance table
Row name	item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AddrFamily	Address familly	Index	Enumeration: • **2**—IPv4. • **10**—IPv6.
Clear	Clear blacklist items	N/A	This column must be empty.

ATK/Blacklist/IPv4DstBlacklists

This table is used to clear IPv4 destination blacklist.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4DstBlacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <Clear></Clear>
      </Item>
    </IPv4DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information

Column name	Column description	Column type	Data type and restrictions	Remarks
				about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	Ip address	Index	IPv4 address.	N/A
Clear	Clear local statistics	N/A	This column must be empty.	N/A

ATK/Blacklist/IPv6DstBlacklists

This table is used to clear IPv6 destination blacklist.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6DstBlacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <Clear></Clear>
      </Item>
    </IPv6DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information

Column name	Column description	Column type	Data type and restrictions	Remarks
				about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	Ip address	Index	IPv6 address.	N/A
Clear	Clear local statistics	N/A	This column must be empty.	N/A

ATK/Blacklist/ClearDstItems

This table is used to clear destination blacklist items.

XML structure

```
<ATK>
  <Blacklist>
    <ClearDstItems>
      <Item>
        <AddrFamily></AddrFamily>
        <Clear></Clear>
      </Item>
    </ClearDstItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearDstItems
Table type	Multi-instance table
Row name	item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AddrFamily	Address familly	Index	Enumeration: • **2**—IPv4. • 10—IPv6.
Clear	Clear blacklist items	N/A	This column must be empty.

ATK/Blacklist/ClearStatistics

This table is used to clear blacklist statistics.

XML structure

```
<ATK>
  <Blacklist>
    <ClearStatistics>
      <Clear></Clear>
    </ClearStatistics>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear blacklist statistics	N/A	This column must be empty.

ATK/ClientVerify/ClearProtectHostStatistics

This table is used to clear client verification protected hosts' statistics.

XML structure

```
<ATK>
  <ClientVerify>
    <ClearProtectHostStatistics>
      <Statistics>
        <VerifyType></VerifyType>
        <AddrFamily></AddrFamily>
        <Clear></Clear>
      </Statistics>
```

```
    </ClearProtectHostStatistics>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearProtectHostStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
VerifyType	Verification type	Index	Enumeration: • **0**—TCP proxy • **1**—DNS client verification. • **2**—HTTP client verification. • **3**—DNS reply verification. • **4**—SIP client verification. • **5**—HTTPS client verification.
AddrFamily	Address familly	Index	Enumeration: • **2**—IPv4. • **10**—IPv6.
Clear	Clear protected hosts' statistics	N/A	This column must be empty.

ATK/ClientVerify/ClearTrustClients

This table is used to clear client verification authenticated clients.

XML structure

```
<ATK>
  <ClientVerify>
    <ClearTrustClients>
      <Client>
        <VerifyType></VerifyType>
        <AddrFamily></AddrFamily>
        <Clear></Clear>
      </Client>
```

```
    </ClearTrustClients>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearTrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
VerifyType	Verification type	Index	Enumeration: • **0**—TCP proxy • **1**—DNS client verification. • **2**—HTTP client verification. • **3**—DNS reply verification. • **4**—SIP client verification. • **5**—HTTPS client verification.
AddrFamily	Address familly	Index	Enumeration: • **2**—IPv4. • **10**—IPv6.
Clear	Clear trust clients	N/A	This column must be empty.

ATK/Blacklist/ClearObjItemsStat

This table is used to clear IP object-group blacklist statistics.

XML structure

```
<ATK>
  <Blacklist>
    <ClearObjItemsStat>
        <Clear></Clear>
    </ClearObjItemsStat>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearObjItemsStat
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear IP object-group blacklist statistics	N/A	This column must be empty.

ATK/Whitelist/ClearObjItemsStat

This table is used to clear IP object-group whitelist statistics.

XML structure

```
<ATK>
  <Whitelist>
    <ClearObjItemsStat>
        <Clear></Clear>
    </ClearObjItemsStat>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearObjItemsStat
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear IP object-group whitelist statistics	N/A	This column must be empty.

ATK/ImportBlacklists

This table contains information about importing IP blacklist entryies.

XML structure

```
<ATK>
  <ImportBlacklists>
    <FileName></FileName>
    <VrfIndex></VrfIndex>
    <BlacklistType></BlacklistType>
  </ImportBlacklists>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ImportBlacklists
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the to be uploaded	N/A	String: Length: 1 to 255 characters.	N/A
VrfIndex	VRF index	N/A	Unsigned integer.	Some versions support VRF name. For more information, see the XSD document of your product. For information about VrfIndex, see the appendix in *L3VPN NETCONF XML API Data Reference*.

BlacklistType	Type of the blacklist	N/A	Enumeration: • Source. • Destination.	N/A

ATK/ExportBlacklistsTemplate

This table contains information about exporting the blacklist template.

XML structure

```
<ATK>
  <ExportBlacklistsTemplate>
    <FileName></FileName>
  </ExportBlacklistsTemplate>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ExportBlacklistsTemplate
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the export file	N/A	String Length: 1 to 255 characters.	N/A

Contents

ATK 1

ATK/Policies 1
XML structure 1
Table description 1
Columns 1
ATK/PolicyInterfaces 1
XML structure 1
Table description 2
Columns 2
ATK/PolicyZones 2
XML structure 2
Table description 2
Columns 3
ATK/PolicyLocal 3
XML structure 3
Table description 3
Columns 4
ATK/IPv4Exempts 4
XML structure 4
Table description 4
Columns 4
ATK/IPv6Exempts 5
XML structure 5
Table description 5
Columns 5
ATK/Scan/Policies 6
XML structure 6
Table description 7
Columns 7
ATK/Flood/DefaultConfigs 8
XML structure 8
Table description 9
Columns 9
ATK/Flood/IPv4ProtectHosts 11
XML structure 11
Table description 11
Columns 11
ATK/Flood/IPv6ProtectHosts 13
XML structure 13
Table description 13
Columns 13
ATK/Flood/LearnItems 15
XML structure 15
Table description 15
Columns 15
ATK/Signature/Detects 16
XML structure 16
Table description 17
Columns 17
ATK/Signature/LargeICMPLength 20
XML structure 20
Table description 20
Columns 20
ATK/Signature/LevelActions 20
XML structure 21
Table description 21
Columns 21

ATK/Signature/LogAggregate ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
ATK/Blacklist/IPv4Blacklists ····· 22
XML structure ····· 23
Table description ····· 23
Columns ····· 23
ATK/Blacklist/IPv6Blacklists ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24
ATK/Blacklist/IPv4DstBlacklists ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 25
ATK/Blacklist/IPv6DstBlacklists ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 27
ATK/Blacklist/InterfaceSwitches ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
ATK/Blacklist/ZoneSwitches ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
ATK/Blacklist/GlobalConfigs ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
ATK/Whitelist/IPv4ObjItems ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
ATK/Whitelist/IPv6ObjItems ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
ATK/Whitelist/InterfaceSwitches ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
ATK/Whitelist/ZoneSwitches ····· 32
XML structure ····· 32
Table description ····· 33
Columns ····· 33
ATK/Whitelist/GlobalSwitches ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 34
ATK/ClientVerify/Switches ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 35
ATK/ClientVerify/ZoneSwitches ····· 35
XML structure ····· 35
Table description ····· 36
Columns ····· 36
ATK/ClientVerify/IPv4ProtectHosts ····· 37
XML structure ····· 37

Table description ····· 37
Columns ····· 38
ATK/ClientVerify/IPv6ProtectHosts ····· 38
XML structure ····· 38
Table description ····· 39
Columns ····· 39
ATK/TopStatisticsSwitch ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
ATK/HttpSlowAttackCheck/DefaultConfigs ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 42
ATK/HttpSlowAttackCheck/IPv4ProtectHosts ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 44
ATK/HttpSlowAttackCheck/IPv6ProtectHosts ····· 44
XML structure ····· 44
Table description ····· 45
Columns ····· 45
ATK/Blacklist/IPv4ObjItems ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
ATK/Blacklist/IPv6ObjItems ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 48

ATK

ATK/Policies

This table is used to operate ATK policies.

XML structure

```
<ATK>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyInterfaces

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyInterfaces>
    <Apply>
```

```
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyInterfaces>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyZones

This table is used to apply an attack defense policy to a security zone.

XML structure

```
<ATK>
  <PolicyZones>
    <Apply>
      <ZoneID></ZoneID>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyZones>
</ATK>
```

Table description

Item	Description
Feature name	ATK

Item	Description
Table name	PolicyZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
PolicyName	Attack defense policy name	N/A	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).

ATK/PolicyLocal

This table is used to operate local ATK policy appliance.

XML structure

```
<ATK>
  <PolicyLocal>
    <PolicyName></PolicyName>
  </PolicyLocal>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyLocal
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/IPv4Exempts

This table contains IPv4 exemption information

XML structure

```
<ATK>
  <IPv4Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AclNum></AclNum>
      <AclName></AclName>
    </Exempt>
  </IPv4Exempts>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AclNum	Acl number	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum and AclName are mutual exclusive and only one of them can be set

Column name	Column description	Column type	Data type and restrictions	Remarks
				in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/IPv6Exempts

This table contains IPv6 exemption information

XML structure

```
<ATK>
  <IPv6Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AclNum></AclNum>
      <AclName></AclName>
    </Exempt>
  </IPv6Exempts>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AclNum	Acl number	N/A	Unsigned integer.	AclNum and

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 2000 to 3999	AclName are mutual exclusive and only one of them can be set in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/Scan/Policies

This table contains scan policy information.

XML structure

```
<ATK>
  <Scan>
    <Policies>
      <Policy>
        <PolicyName></PolicyName>
        <Level></Level>
        <UserDefinedCfg>
          <PortScanEnable></PortScanEnable>
          <PortScanThreshold></PortScanThreshold>
          <IPSweepEnable></IPSweepEnable>
          <IPSweepThreshold></IPSweepThreshold>
          <Period></Period>
        </UserDefinedCfg>
        <Log></Log>
        <Drop></Drop>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
      </Policy>
    </Policies>
  </Scan>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String,case-insensitive. Length: 1 to 31 characters.	N/A
Level	Scan detect level	N/A	Enumeration: • **0**—Don't detect. • **1**—Low sensibility. • **2**—Middle sensibility. • **3**—High sensibility. • **4**—User defined sensibility.	UserDefinedCfg and its members are available only in scan detect level 4.
UserDefinedCfg	Custom scan detection configuration.	Data struct	Members include: • PortScanEnable • PortScanThreshold • IPSweepEnable • IPSweepThreshold • Period	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: • true. • false.	Default is false.
PortScanThreshold	Port scan detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if PortScanEnable is true.
IPSweepEnable	IP sweep detection switch.	N/A	Boolean: • true. • false.	Default is false.
IPSweepThreshold	IP sweep detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if IPSweepEnable is true.
Period	Detection cycle.	N/A	Signed integer. Value range: 1 to 1000000000 seconds.	Default detection cycle is 10 seconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
Log	Log switch	N/A	Boolean: • true • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • true • false	Default is false. Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
BlockSource	Block source configs	Data struct	Members include: • Enable • BlockTime	Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
Enable	Block source switch.	N/A	Boolean: • true • false	Default is false.
BlockTime	Source block duration.	N/A	Unsigned integer, value range 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.

ATK/Flood/DefaultConfigs

This table contains flood default configurations.

XML structure

```
<ATK>
  <Flood>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <Threshold></Threshold>
        <SourceThreshold></SourceThreshold>
        <MonitorPort></MonitorPort>
        <NonSpecificSwitch></NonSpecificSwitch>
      </Config>
```

```
    </DefaultConfigs>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • **0**—Transport layer flood. • **1**—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • **0**—SYN flood. • **1**—ACK flood. • **2**—SYN-ACK flood. • **3**—RESET flood. • **4**—FIN flood. • **5**—UDP flood. • **6**—ICMP flood. • **7**—ICMPv6 flood. For application layer flood: • **0**—DNS flood. • **1**—HTTP flood. • **2**—DNS reply flood. • **3**—SIP flood. • **4**—HTTPS flood.	N/A
Log	Log switch	N/A	Boolean:	Default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true • false	
Drop	Drop packet switch	N/A	Boolean: • true • false	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	Default is false.
Threshold	Flood threshold based on destination IP	N/A	Signed integer, value range: 0 to 1000000 pps.	For ACK flood, default value is 40000. For other flood, default value is 10000.
Source Threshold	Flood threshold b ased on source IP	N/A	Signed integer, value range: 0 to 1000000 pps.	N/A
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. For http flood, default monitored port is 80. For DNS flood, default monitored port is 53. For DNS reply flood, default monitored port is 53. For SIP flood, default monitored port is 5060. For HTTPS flood, default monitored port is 443. For example, "80,8000-8080" can be set as default monitored ports for http flood detecting. At most specify a maximum of 32 port items.
NonSpecificSwitch	Non specific protect hosts detect switch	N/A	Boolean: • true • false	Default value is false which means only detect protect hosts.

ATK/Flood/IPv4ProtectHosts

This table contains IPv4 flood protect hosts information.

XML structure

```
<ATK>
  <Flood>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv4Address></Ipv4Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv4ProtectHosts>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • **0**—Transport layer flood. • **1**—Application layer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			flood.	
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • **0**—SYN flood. • **1**—ACK flood. • **2**—SYN-ACK flood. • **3**—RESET flood. • **4**—FIN flood. • **5**—UDP flood. • **6**—ICMP flood. • **7**—ICMPv6 flood. For application layer flood: • **0**—DNS flood. • **1**—HTTP flood. • **2**—DNS reply flood. • **3**—SIP flood. • **4**—HTTPS flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv4Address	IPv4 protected host address	Index	IPv4 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/IPv6ProtectHosts

This table contains IPv6 flood protect hosts information.

XML structure

```
<ATK>
  <Flood>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv6Address></Ipv6Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv6ProtectHosts>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • 0—Transport layer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			flood. • 1—Application layer flood.	
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTPS flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv6Address	IPv6 protected host address	Index	IPv6 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a

Column name	Column description	Column type	Data type and restrictions	Remarks
				maximum of 24 port items.

ATK/Flood/LearnItems

This table contains flow threshold learning information.

XML structure

```
<ATK>
  <Flood>
    <LearnItems>
      <Item>
        <PolicyName></PolicyName>
        <Status></Status>
        <TimeValue></TimeValue>
        <Mode></Mode>
        <IntervalValue></IntervalValue>
        <AutoApply></AutoApply>
        <Scope></Scope>
      </Item>
    </LearnItems>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LearnItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Learning switch	N/A	Boolean: • true • false	Default is false.
TimeValue	Time value	N/A	Unsigned integer. Value range: 1 to 1200000 minutes.	Default is 1440 minutes.
Mode	Learning mode	N/A	Enumeration: • 0—Single. • 1—Cycle.	N/A
IntervalValue	Interval value for cycle mode	N/A	Unsigned integer, value range: 1 to 1200000 minutes.	When and only when mode is cycle, this column is useful. Default is 1440 minutes.
AutoApply	Auto application switch	N/A	Boolean: • true • false	Default is false.
Scope	Deviation of study result	N/A	Unsigned integer. Value range: 0 to 4000.	Only when AutoApply is true, this column is useful. Default is 50.

ATK/Signature/Detects

This table contains signature detects' information.

XML structure

```
<ATK>
  <Signature>
    <Detects>
      <Detect>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
      </Detect>
    </Detects>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Detects
Table type	Multi-instance table
Row name	Detect
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main signature type	Index	Enumeration: • 0—Named single packet attack. • 1—IP option single packet attack. • 2—ICMP single packet attack. • 3—ICMPv6 single packet attack. • 4—IPv6 extend header attack. • 5—IPv6 extend header abnormal attack. • 6—IPv6 extend header exceed attack.	N/A
SubType	Sub signature type	Index	Enumeration, value range varies according to MainType. For named single packet attack: • **0**—IP fragment. • 1—IP impossible. • 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. • 7—Record route option. • 68—Timestamp option. • 130—Security option. • 131—Loose source routing option. • 136—Stream identifier option. • 137—Strict source route option. • 148—Route alert option. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. • 8—ICMP echo request. • 0—ICMP echo reply. • 4—ICMP source quench. • 3—ICMP destination unreachable. • 5—ICMP redirect. • 11—ICMP time exceeded. • 12—ICMP parameter problem. • 13—ICMP timestamp request. • 14—ICMP timestamp reply. • 15—ICMP information request. • 16—ICMP information reply.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 17—ICMP address mask request. • 18—ICMP address mask reply. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. • 128—ICMPv6 echo request. • 129—ICMPv6 echo reply. • 130—ICMPv6 group query. • 131—ICMPv6 group report. • 132—ICMPv6 group reduction. • 1—ICMPv6 destination unreachable. • 3—ICMPv6 time exceeded. • 4—ICMPv6 parameter problem. • 2—ICMPv6 packet too big. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255. For IPv6 extend header abnormal attack, SubType is not needed. For IPv6 extend header exceed attack, SubType is the maximum number of extension headers. Value range: 0 to 7.	
Log	Log switch	N/A	Boolean: • **true** • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • **true** • false	Default is false.

ATK/Signature/LargeICMPLength

This table contains large ICMP and ICMPv6 signature information.

XML structure

```
<ATK>
  <Signature>
    <LargeICMPLength>
      <Policy>
        <PolicyName></PolicyName>
        <IPv4Threshold></IPv4Threshold>
        <IPv6Threshold></IPv6Threshold>
      </Policy>
    </LargeICMPLength>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LargeICMPLength
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IPv4Threshold	ICMP packet length threshold	N/A	Unsigned integer, value range: 28 to 65534 bytes.	Default is 4000 bytes.
IPv6Threshold	ICMPv6 packet length threshold	N/A	Unsigned integer, value range: 48 to 65534 bytes.	Default is 4000 bytes.

ATK/Signature/LevelActions

This table contains signature level action information.

XML structure

```
<ATK>
  <Signature>
    <LevelActions>
      <LevelAction>
        <PolicyName></PolicyName>
        <Level></Level>
        <Log></Log>
        <Drop></Drop>
      </LevelAction>
    </LevelActions>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LevelActions
Table type	Multi-instance table
Row name	LevelAction
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Level	Severity level	Index	Enumeration: • 0—Information. • 1—Low. • 2—Medium. • 3—High.	N/A
Log	Log switch	N/A	Boolean: • **true** • false	Default value is true
Drop	Drop packet switch	N/A	Boolean: • **true** • false	The default value varies by severity level. For information level or low level, default value is false. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				medium level or high level default value is true.

ATK/Signature/LogAggregate

This table contains signature log aggregation information.

XML structure

```
<ATK>
  <Signature>
    <LogAggregate>
      <Enable></Enable>
    </LogAggregate>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LogAggregate
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Log aggregate switch.	N/A	Boolean: • **true** • false	Default is true.

ATK/Blacklist/IPv4Blacklists

This table contains IPv4 blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <TTL></TTL>
      </Item>
    </IPv4Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other circumstances.
TTL	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 604800	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			second.	

ATK/Blacklist/IPv6Blacklists

This table contains IPv6 blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <TTL></TTL>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.	N/A
TTL	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 604800 second.	N/A

ATK/Blacklist/IPv4DstBlacklists

This table contains IPv4 destination blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4DstBlacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <AgingTime></AgingTime>
      </Item>
    </IPv4DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
AgingTime	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 604800 second.	N/A

ATK/Blacklist/IPv6DstBlacklists

This table contains IPv6 destination blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6DstBlacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <AgingTime></AgingTime>
      </Item>
    </IPv6DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.	N/A
AgingTime	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 604800 second.	N/A

ATK/Blacklist/InterfaceSwitches

This table contains blacklist interface switch information.

XML structure

```
<ATK>
  <Blacklist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Enable	Blacklist switch.	N/A	Boolean: • **true** • false	Default is false.

ATK/Blacklist/ZoneSwitches

This table is used to configure the blacklist for a security zone.

XML structure

```
<ATK>
  <Blacklist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable the blacklist	N/A	Boolean: • **true**—Enables the blacklist. • false—Disables the blacklist (default).

ATK/Blacklist/GlobalConfigs

This table contains blacklist global configuration information.

XML structure

```
<ATK>
  <Blacklist>
    <GlobalConfigs>
      <Enable></Enable>
      <Log></Log>
    </GlobalConfigs>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalConfigs
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Global switch.	N/A	Boolean: • **true** • false	Default is false.
Log	Log switch	N/A	Boolean: • **true** • false	Default is false.

ATK/Whitelist/IPv4ObjItems

This table contains IPv4 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IP Name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/IPv6ObjItems

This table contains IPv6 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv6ObjItems>
      <Item>
```

```
      <ObjGrpName></ObjGrpName>
    </Item>
  </IPv6ObjItems>
</Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IPv6 Name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/InterfaceSwitches

This table is used to configure the whitelist for an interface.

XML structure

```
<ATK>
  <Whitelist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable the whitelist function	N/A	Boolean: • true • false	Default is false.

ATK/Whitelist/ZoneSwitches

This table is used to configure the whitelist for a security zone.

XML structure

```
<ATK>
  <Whitelist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
```

```
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Enable	Enable or disable the whitelist	N/A	Boolean: • true • false	Default is false.

ATK/Whitelist/GlobalSwitches

This table contains whitelist global switch information.

XML structure

```
<ATK>
  <Whitelist>
    <GlobalSwitches>
      <Enable></Enable>
    </GlobalSwitches>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalSwitches
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the global configuration.	N/A	Boolean: • true • false	Default is false.

ATK/ClientVerify/Switches

This table contains client verification switch information.

XML structure

```
<ATK>
  <ClientVerify>
    <Switches>
      <Switch>
        <IfIndex></IfIndex>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </Switches>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Switches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.
VerifyMode	Verification mode	N/A	Enumeration, value range varies according to MainType. For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncate. For HTTP client verification: • 0—Shutdown. • 1—Redirection. For DNS reply verification: • 0—DNS request. For SIP client verification: • 0—Shutdown. • 1—Redirection. For HTTPS client verification: • 0—Shutdown. • 1—Verification.

ATK/ClientVerify/ZoneSwitches

This table is used to configure client verification for a security zone.

XML structure

```
<ATK>
  <ClientVerify>
```

```
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </ZoneSwitches>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy. • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncation. For HTTP client verification: • 0—Shutdown. • 1—Redirection. For DNS reply verification: • 0—DNS request.

Column name	Column description	Column type	Data type and restrictions
			For SIP client verification: • 0—Shutdown. • 1—Redirection. For HTTPS client verification: • 0—Shutdown. • 1—Verification.

ATK/ClientVerify/IPv4ProtectHosts

This table contains IPv4 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4ProtectHosts>
      <Host>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <PortNumber></PortNumber>
      </Host>
    </IPv4ProtectHosts>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	Host address	Index	IPv4 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by verification type. For TCP proxy: 0-65535 For DNS, HTTP, DNS reply, SIP, and HTTPS client verification: 1-65535	For TCP proxy, port number 0 is available which means that any hosts connected to any service port will be monitored. For DNS, HTTP, DNS reply, SIP, and HTTPS client verification, port number 0 is unavailable.

ATK/ClientVerify/IPv6ProtectHosts

This table contains IPv6 client verification protect hosts information.

XML structure

```
<ATK>
```

```
  <ClientVerify>
    <IPv6ProtectHosts>
      <Host>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
      </Host>
    </IPv6ProtectHosts>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn*

Column name	Column description	Column type	Data type and restrictions	Remarks
				NETCONF XML API Data Reference.
Ipv6Address	Host address	Index	IPv6 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by verification type. For TCP proxy: 0-65535 For DNS, HTTP, DNS reply, SIP, and HTTPS client verification: 1-65535	Zero can be set only when TCP proxy is specified, which means detect all service ports.

ATK/TopStatisticsSwitch

This table contains ATK top statistics switch configuration.

XML structure

```
<ATK>
  <TopStatisticsSwitch>
    <Enable></Enable>
  </TopStatisticsSwitch>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	TopStatisticsSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable ATK top statistics function	N/A	Boolean: • true—YES • false—NO	N/A

ATK/HttpSlowAttackCheck/DefaultConfigs

This table contains HTTP slow attack check default configuration.

XML structure

```
<ATK>
  <HttpSlowAttackCheck>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <AlertSessionNum></AlertSessionNum>
        <ContentLength></ContentLength>
        <PayloadLength></PayloadLength>
        <PacketNumber></PacketNumber>
        <Period></Period>
        <Log></Log>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
        <MonitorPort></MonitorPort>
        <NonSpecificSwitch></NonSpecificSwitch>
      </Config>
    </DefaultConfigs>
  </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None
Support for row creation and deletion	No

Columns

	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.
Period	Check cycle	N/A	Unsigned integer. Value range: 1 to 1200 second.	default is 60 second.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source IP configuration	Data structure	Members include: • Enable • BlockTime	BlockSource are exclusive.
Enable	Blocking source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking source duration	N/A	Unsigned integer. Value range: 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support only application layer. For http slow attack flood, default monitored port is 80.
NonSpecificSwitch	Non-specific protected host detection switch	N/A	Boolean: • true • false	Default value is false which means only detect protect hosts.

ATK/HttpSlowAttackCheck/IPv4ProtectHosts

This table contains HTTP slow attack configurations for IPv4 protected hosts.

XML structure

```
<ATK>
  <HttpSlowAttackCheck>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <VrfName></VrfName>
        <Address></Address>
        <AlertSessionNum></AlertSessionNum>
        <ContentLength></ContentLength>
        <PayloadLength></PayloadLength>
        <PacketNumber></PacketNumber>
        <Period><Period>
        <Log></Log>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv4ProtectHosts>
  </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
VrfName	VRF name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public VRF.
Address	Protected host address	Index	Ipv4 address.	N/A
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.
Period	Check cycle	N/A	Unsigned integer. Value range: 1 to 1200 second.	default is 60 second.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source ip configration	Data structure	Members include: • Enable • BlockTime	BlockSource are exclusive.
Enable	Blocking source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking source duration	N/A	Unsigned integer, Value range: 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support Application layer only for now.

ATK/HttpSlowAttackCheck/IPv6ProtectHosts

This table contains HTTP slow attack configurations for IPv6 protected hosts.

XML structure

```
<ATK>
```

```
  <HttpSlowAttackCheck>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <VrfName></VrfName>
        <Address></Address>
        <AlertSessionNum></AlertSessionNum>
        <ContentLength></ContentLength>
        <PayloadLength></PayloadLength>
        <PacketNumber></PacketNumber>
        <Period><Period>
        <Log></Log>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv6ProtectHosts>
  </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
VrfName	VRF name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public VRF.
Address	Protected host address	Index	Ipv6 address.	N/A
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.

Column name	Column description	Column type	Data type and restrictions	Remarks
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.
Period	Check cycle	N/A	Unsigned integer. Value range: 1 to 1200 second.	default is 60 second.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source ip configration	Data structure	Members include: • Enable • BlockTime	BlockSource are exclusive.
Enable	Block source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking Source duration.	N/A	Unsigned integer, Value range: 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support Application layer only for now.

ATK/Blacklist/IPv4ObjItems

This table contains IPv4 blacklist object-group information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	IP object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

ATK/Blacklist/IPv6ObjItems

This table contains IPv6 blacklist object-group information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv6ObjItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	IPv6 object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

Contents

ATK 1

ATK/Policies 1
XML structure 1
Table description 1
Columns 1
ATK/PolicyInterfaces 1
XML structure 1
Table description 2
Columns 2
ATK/PolicyZoneApplies 2
XML structure 2
Table description 2
Columns 3
ATK/PolicyZones 3
XML structure 3
Table description 3
Columns 4
ATK/PolicyApplies 4
XML structure 4
Table description 4
Columns 4
ATK/PolicyLocal 5
XML structure 5
Table description 5
Columns 5
ATK/IPv4Exempts 5
XML structure 5
Table description 6
Columns 6
ATK/IPv6Exempts 6
XML structure 6
Table description 7
Columns 7
ATK/InterfaceAttackStatistics 7
XML structure 7
Table description 8
Columns 8
ATK/ZoneAttackStatistics 10
XML structure 10
Table description 11
Columns 11
ATK/LocalAttackStatistics 13
XML structure 13
Table description 13
Columns 13
ATK/Scan/Policies 16
XML structure 16
Table description 16
Columns 16
ATK/Flood/DefaultConfigs 18
XML structure 18
Table description 18
Columns 19
ATK/Flood/IPv4ProtectHosts 20
XML structure 20
Table description 21
Columns 21

ATK/Flood/IPv6ProtectHosts ····· 22
XML structure ····· 22
Table description ····· 23
Columns ····· 23
ATK/Flood/LearnItems ····· 24
XML structure ····· 24
Table description ····· 25
Columns ····· 25
ATK/Flood/FlowResults ····· 25
XML structure ····· 26
Table description ····· 26
Columns ····· 26
ATK/Signature/Detects ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
ATK/Signature/LargeICMPLength ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
ATK/Signature/LevelActions ····· 32
XML structure ····· 32
Table description ····· 33
Columns ····· 33
ATK/Signature/LogAggregate ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
ATK/Blacklist/IPv4Blacklists ····· 34
XML structure ····· 34
Table description ····· 35
Columns ····· 35
ATK/Blacklist/IPv6Blacklists ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
ATK/Blacklist/IPv4DstBlacklists ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38
ATK/Blacklist/IPv6DstBlacklists ····· 38
XML structure ····· 38
Table description ····· 39
Columns ····· 39
ATK/Blacklist/InterfaceSwitches ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
ATK/Blacklist/ZoneSwitches ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41
ATK/Blacklist/GlobalConfigs ····· 41
XML structure ····· 41
Table description ····· 42
Columns ····· 42
ATK/Whitelist/IPv4ObjItems ····· 42
XML structure ····· 42
Table description ····· 43
Columns ····· 43
ATK/Whitelist/IPv6ObjItems ····· 43
XML structure ····· 43

Table description 43
Columns 44
ATK/Whitelist/InterfaceSwitches 44
XML structure 44
Table description 44
Columns 44
ATK/Whitelist/ZoneSwitches 45
XML structure 45
Table description 45
Columns 46
ATK/Whitelist/GlobalSwitches 46
XML structure 46
Table description 46
Columns 46
ATK/ClientVerify/Switches 47
XML structure 47
Table description 47
Columns 47
ATK/ClientVerify/ZoneSwitches 48
XML structure 48
Table description 48
Columns 49
ATK/ClientVerify/IPv4ProtectHosts 49
XML structure 50
Table description 50
Columns 50
ATK/ClientVerify/IPv6ProtectHosts 51
XML structure 52
Table description 52
Columns 52
ATK/ClientVerify/IPv4TrustClients 53
XML structure 54
Table description 54
Columns 54
ATK/ClientVerify/IPv6TrustClients 55
XML structure 55
Table description 55
Columns 56
ATK/Specification 56
XML structure 56
Table description 56
Columns 57
ATK/TopStatisticsSwitch 57
XML structure 57
Table description 57
Columns 57
ATK/TopStatisticsSampleTime 58
XML structure 58
Table description 58
Columns 58
ATK/TopAttackStatisticsByIP 59
XML structure 59
Table description 59
Columns 59
ATK/TopAttackStatisticsByType 60
XML structure 60
Table description 61
Columns 61
ATK/HttpSlowAttackCheck/DefaultConfigs 62
XML structure 62
Table description 62
Columns 63

ATK/HttpSlowAttackCheck/IPv4ProtectHosts 63
XML structure 64
Table description 64
Columns 64
ATK/HttpSlowAttackCheck/IPv6ProtectHosts 65
XML structure 65
Table description 66
Columns 66
ATK/ScanAttackTypes 67
XML structure 67
Table description 67
Columns 68
ATK/FloodAttackTypes 68
XML structure 68
Table description 68
Columns 68
ATK/SignatureAttackTypes 69
XML structure 69
Table description 69
Columns 69
ATK/BlacklistTypes 69
XML structure 69
Table description 70
Columns 70
ATK/Blacklist/IPv4ObjItems 70
XML structure 70
Table description 70
Columns 71
ATK/Blacklist/IPv6ObjItems 71
XML structure 71
Table description 71
Columns 72
ATK/Blacklist/ObjItemsStat 72
XML structure 72
Table description 72
Columns 72
ATK/Whitelist/ObjItemsStat 73
XML structure 73
Table description 73
Columns 74
ATK/ImportBlacklistsStatus 74
XML structure 74
Table description 74
Columns 75
ATK/Blacklist/GetBlacklists 75
XML structure 75
Table description 75
Columns 76

ATK

ATK/Policies

This table is used to operate ATK policies.

XML structure

```
<ATK>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyInterfaces

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyInterfaces>
    <Apply>
```

```
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyInterfaces>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyZoneApplies

This table contains information about the application of an attack defense policy to security zones.

XML structure

```
<ATK>
  <PolicyZoneApplies>
    <Apply>
      <PolicyName></PolicyName>
      <ZoneID></ZoneID>
    </Apply>
  </PolicyZoneApplies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyZoneApplies

Item	Description
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Attack defense policy name	Index	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).
ZoneID	Security zone ID	Index	Unsigned integer.	N/A

ATK/PolicyZones

This table contains information about the attack defense policy applied to a security zone.

XML structure

```
<ATK>
  <PolicyZones>
    <Apply>
      <ZoneID></ZoneID>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyZones>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
PolicyName	Attack defense policy name	N/A	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).

ATK/PolicyApplies

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyApplies>
    <Entity>
      <PolicyName></PolicyName>
      <IfIndex></IfIndex>
    </Entity>
  </PolicyApplies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyApplies
Table type	Multi-instance table
Row name	Entity
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IfIndex	Interface index	Index	Unsigned integer.	N/A

ATK/PolicyLocal

This table is used to operate local ATK policy appliance.

XML structure

```
<ATK>
  <PolicyLocal>
    <PolicyName></PolicyName>
  </PolicyLocal>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyLocal
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/IPv4Exempts

This table contains IPv4 exemption information

XML structure

```
<ATK>
  <IPv4Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AclNum></AclNum>
      <AclName></AclName>
```

```
    </Exempt>
  </IPv4Exempts>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AclNum	Acl number	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/IPv6Exempts

This table contains IPv6 exemption information

XML structure

```
<ATK>
  <IPv6Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AclNum></AclNum>
      <AclName></AclName>
```

```
    </Exempt>
  </IPv6Exempts>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AclNum	Acl number	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/InterfaceAttackStatistics

This table contains interface attack statistics.

XML structure

```
<ATK>
  <InterfaceAttackStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <Chassis></Chassis>
      <Slot></Slot>
```

```
      <CPUID></CPUID>
      <MainType></MainType>
      <SubType></SubType>
      <AtkTimes></AtkTimes>
      <DropCnt></DropCnt>
    </Statistics>
  </InterfaceAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • **0**—Scan. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single packet attack. • 4—IP option single packet attack. • 5—ICMP single packet attack. • 6—ICMPv6 single packet attack. • 7—IPv6 extend header attack. • 8—HTTP slow attack. • 9—IPv6 extend header abnormal attack.

Column name	Column description	Column type	Data type and restrictions
			• 10—IPv6 extend header exceed attack.
SubType	Sub attack type	Index	Enumeration, value range varies according to MainType. For scan: • **0**—Port scan. • 1—IP sweep. • 2—Distributed IP sweep. For transport layer flood: • **0**—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • **0**—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTPS flood. For named single packet attack: • **0**—IP fragment. • 1—IP impossible. • 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle

Column name	Column description	Column type	Data type and restrictions
			For IP option single packet attack, SubType is the IP option value, range: 0 to 255. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255. For HTTP slow attack, the SubType value is 0. For IPv6 extend header abnormal attack, SubType is not needed. For IPv6 extend header exceed attack, SubType is the maximum number of extension headers. Value range: 0 to 7.
AtkTimes	Attack times	N/A	Unsigned integer.
DropCnt	Dropped packet count	N/A	Unsigned integer.

ATK/ZoneAttackStatistics

This table contains attack statistics for a security zone.

XML structure

```
<ATK>
  <ZoneAttackStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MainType></MainType>
      <SubType></SubType>
      <AtkTimes></AtkTimes>
      <DropCnt></DropCnt>
    </Statistics>
```

```
  </ZoneAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • 0—Scan attack. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single-packet attack. • 4—IP option single-packet attack. • 5—ICMP single-packet attack. • 6—ICMPv6 single-packet attack. • 7—IPv6 extension header single-packet attack. • 8—HTTP slow attack. • 9—IPv6 extend header abnormal attack. • 10—IPv6 extend header exceed attack.

SubType	Attack subtype	Index	Enumeration:
			• For scan attacks:
			  ○ 0—Port scan.
			  ○ 1—IP sweep.
			  ○ 2—Distributed IP sweep.
			• For transport layer floods:
			  ○ 0—SYN flood.
			  ○ 1—ACK flood.
			  ○ 2—SYN-ACK flood.
			  ○ 3—RST flood.

Column name	Column description	Column type	Data type and restrictions
			○ 4—FIN flood. ○ 5—UDP flood. ○ 6—ICMP flood. ○ 7—ICMPv6 flood. • For application layer floods: ○ 0—DNS flood. ○ 1—HTTP flood. ○ 2—DNS reply flood. ○ 3—SIP flood. ○ 4—HTTPS flood. • For named single-packet attacks: ○ 0—IP fragment attack. ○ 1—IP impossible attack. ○ 2—Teardrop attack. ○ 3—Tiny fragment attack. ○ 4—IP-option-abnormal attack. ○ 5—Smurf attack. ○ 6—Traceroute attack. ○ 7—Ping-of-death attack. ○ 8—Large ICMP attack. ○ 9—Large ICMPv6 attack. ○ 10—TCP-invalid-flags attack. ○ 11—TCP-null-flag attack. ○ 12—TCP-all-flags attack. ○ 13—TCP-SYN-FIN attack. ○ 14—TCP-FIN-only attack. ○ 15—Land attack. ○ 16—WinNuke attack. ○ 17—UDP bomb attack. ○ 18—Snork attack. ○ 19—Fraggle attack. • For IP option single-packet attacks, a subtype is an IP option value in the range of 0 to 255. • For ICMP single-packet attacks, a subtype is an ICMP type value in the range of 0 to 255. • For ICMPv6 single-packet attacks, a subtype is an ICMPv6 type value in the range of 0 to 255. • For HTTP slow attack, the SubType value is 0. • For IPv6 extension header single-packet attacks, a subtype is an IPv6 extension header type value in the range of 0 to 255. • For IPv6 extend header abnormal attack, SubType is not needed. • For IPv6 extend header exceed attack, SubType is the maximum number of extension headers. Value range: 0 to 7.
AtkTimes	Number of times that the attack occurred	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
DropCnt	Number of dropped packets	N/A	Unsigned integer.

ATK/LocalAttackStatistics

This table contains local attack statistics.

XML structure

```
<ATK>
  <LocalAttackStatistics>
    <Statistics>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MainType></MainType>
      <SubType></SubType>
      <AtkTimes></AtkTimes>
      <DropCnt></DropCnt>
    </Statistics>
  </LocalAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LocalAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • 0—Scan. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single packet attack. • 4—IP option single packet attack. • 5—ICMP single packet attack. • 6—ICMPv6 single packet attack. • 7—IPv6 extend header attack. • 8—HTTP slow attack. • 9—IPv6 extend header abnormal attack. • 10—IPv6 extend header exceed attack.
SubType	Sub attack type	Index	Enumeration, value range varies according to MainType. For scan: • 0—Port scan. • 1—IP sweep. • 2—Distributed IP sweep. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTP flood. For named single packet attack: • 0—IP fragment. • 1—IP impossible.

Column name	Column description	Column type	Data type and restrictions
			• 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255. For HTTP slow attack, the SubType value is 0. For IPv6 extend header abnormal attack, SubType is not needed. For IPv6 extend header exceed attack, SubType is the maximum number of extension headers. Value range: 0 to 7.
AtkTimes	Attack times	N/A	Unsigned integer.
DropCnt	Dropped packet count	N/A	Unsigned integer.

ATK/Scan/Policies

This table contains scan policy information.

XML structure

```
<ATK>
  <Scan>
    <Policies>
      <Policy>
        <PolicyName></PolicyName>
        <Level></Level>
        <UserDefinedCfg>
          <PortScanEnable></PortScanEnable>
          <PortScanThreshold></PortScanThreshold>
          <IPSweepEnable></IPSweepEnable>
          <IPSweepThreshold></IPSweepThreshold>
          <Period></Period>
        </UserDefinedCfg>
        <Log></Log>
        <Drop></Drop>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
      </Policy>
    </Policies>
  </Scan>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String,case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Level	Scan detect level	N/A	Enumeration: • **0**—Don't detect. • 1—Low sensibility. • 2—Middle sensibility. • 3—High sensibility. • 4—User defined sensibility.	UserDefinedCfg and its members are available only in scan detect level 4.
UserDefinedCfg	Custom scan detection configuration.	Data struct	Members include: • PortScanEnable • PortScanThreshold • IPSweepEnable • IPSweepThreshold • Period	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: • true. • false.	N/A
PortScanThreshold	Port scan detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if PortScanEnable is true.
IPSweepEnable	IP sweep detection switch.	N/A	Boolean: • true. • false.	N/A
IPSweepThreshold	IP sweep detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if IPSweepEnable is true.
Period	Detection cycle	N/A	Signed integer. Value range: 1 to 1000000000 seconds.	N/A
Log	Log switch	N/A	Boolean: • **true** • false	N/A
Drop	Drop packet switch	N/A	Boolean: • **true** • false	Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
BlockSource	Block source configs	Data struct	Members include: • **Enable** • BlockTime	Drop and BlockSource are mutually exclusive and only one of them

Column name	Column description	Column type	Data type and restrictions	Remarks
				can be set in a single message.
Enable	Block source switch.	N/A	Boolean: • **true** • false	N/A
BlockTime	Source block duration.	N/A	Unsigned integer, value range 1 to 1000 minutes.	When and only when Enable is true, this column is useful.

ATK/Flood/DefaultConfigs

This table contains flood default configurations.

XML structure

```
<ATK>
  <Flood>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <Threshold></Threshold>
        <SourceThreshold></SourceThreshold>
        <MonitorPort></MonitorPort>
        <NonSpecificSwitch></NonSpecificSwitch>
      </Config>
    </DefaultConfigs>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • 0—Transport layer flood. • 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTPS flood.	N/A
Log	Log switch	N/A	Boolean: • true • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • true • false	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	Default is false.
Threshold	Flood threshold based on destination IP	N/A	Signed integer, value range: 0 to 1000000 pps.	N/A
Source Threshold	Flood threshold b ased on source IP	N/A	Signed integer, value range: 0 to 1000000 pps.	N/A
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. For http flood,

Column name	Column description	Column type	Data type and restrictions	Remarks
				default monitored port is 80. For DNS flood, default monitored port is 53. For DNS reply flood, default monitored port is 53. For SIP flood, default monitored port is 5060. For HTTPS flood, default monitored port is 443. At most specify a maximum of 32 port items.
NonSpecificSwitch	Non specific protect hosts detect switch	N/A	Boolean: • true • false	Default value is false which means only detect protect hosts.

ATK/Flood/IPv4ProtectHosts

This table contains IPv4 flood protect hosts information.

XML structure

```
<ATK>
  <Flood>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv4Address></Ipv4Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv4ProtectHosts>
  </Flood>
```

```
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • 0—Transport layer flood. • 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTPS flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv4Address	IPv4 protected host address	Index	IPv4 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/IPv6ProtectHosts

This table contains IPv6 flood protect hosts information.

XML structure

```
<ATK>
  <Flood>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv6Address></Ipv6Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv6ProtectHosts>
```

```
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: • 0—Transport layer flood. • 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. • 4—HTTPS flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv6Address	IPv6 protected	Index	IPv6 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	host address			
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/LearnItems

This table contains flow threshold learning information.

XML structure

```
<ATK>
  <Flood>
    <LearnItems>
      <Item>
        <PolicyName></PolicyName>
        <Status></Status>
        <TimeValue></TimeValue>
        <Mode></Mode>
        <IntervalValue></IntervalValue>
        <AutoApply></AutoApply>
        <Scope></Scope>
      </Item>
    </LearnItems>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LearnItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Learning switch	N/A	Boolean: • true • false	Default is false.
TimeValue	Time value	N/A	Unsigned integer, value range: 1 to 1200000 minutes.	Default is 1440 minutes.
Mode	Learning mode	N/A	Enumeration: • 0—Single. • 1—Cycle.	N/A
IntervalValue	Interval value for cycle mode	N/A	Unsigned integer. Value range: 1 to 1200000 minutes.	Only when the mode is cycle, this column is useful. Default is 1440 minutes.
AutoApply	Auto application switch	N/A	Boolean: • true • false	Default is false.
Scope	Deviation of study result	N/A	Unsigned integer. Value range: 0 to 4000.	Only when AutoApply is true, this column is useful. Default is 50.

ATK/Flood/FlowResults

This table contains flow threshold learning result information.

XML structure

```
<ATK>
  <Flood>
    <FlowResults>
      <Result>
        <PolicyName></PolicyName>
        <Style></Style>
        <Status></Status>
        <LastResultInterval></LastResultInterval>
        <SYN></SYN>
        <ACK></ACK>
        <SYNACK></SYNACK>
        <RST></RST>
        <FIN></FIN>
        <UDP></UDP>
        <ICMP></ICMP>
        <ICMPv6></ICMPv6>
        <DNS></DNS>
        <HTTP></HTTP>
        <DNSReply></DNSReply>
        <SIP></SIP>
        <HTTPS></HTTPS>
      </Result>
    </FlowResults>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	FlowResults
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Style	Learning style	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Destination address. • 1—Source address.	
Status	Learning status	N/A	Enumeration: • 0—Initialize. • 1—Stop. • 2—learning.	N/A
LastResultInterval	Time elapsed since last result	N/A	Unsigned integer. Value range: 0 to 4294967295 second.	N/A
SYN	Learning result of SYN packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ACK	Learning result of ACK packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
SYNACK	Learning result of SYNACK packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
RST	Learning result of RST packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
FIN	Learning result of FIN packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
UDP	Learning result of UDP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ICMP	Learning result of ICMP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ICMPv6	Learning result of ICMPv6 packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
DNS	Learning result of DNS packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
HTTP	Learning result of HTTP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
DNSReply	Learning result of DNS reply packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
SIP	Learning result of SIP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTPS	Learning result of HTTPS packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A

ATK/Signature/Detects

This table contains signature detects' information.

XML structure

```
<ATK>
  <Signature>
    <Detects>
      <Detect>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
        <level></level>
      </Detect>
    </Detects>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Detects
Table type	Multi-instance table
Row name	Detect
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main signature	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	type		• 0—Named single packet attack. • 1—IP option single packet attack. • 2—ICMP single packet attack. • 3—ICMPv6 single packet attack. • 4—IPv6 extend header attack. • 5—IPv6 extend header abnormal attack. • 6—IPv6 extend header exceed attack.	
SubType	Sub signature type	Index	Enumeration, value range varies according to MainType. For named single packet attack: • **0**—IP fragment. • 1—IP impossible. • 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. • 7—Record route option. • 68—Timestamp option. • 130—Security option.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 131—Loose source routing option. • 136—Stream identifier option. • 137—Strict source route option. • 148—Route alert option. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. • 8—ICMP echo request. • 0—ICMP echo reply. • 4—ICMP source quench. • 3—ICMP destination unreachable. • 5—ICMP redirect. • 11—ICMP time exceeded. • 12—ICMP parameter problem. • 13—ICMP timestamp request. • 14—ICMP timestamp reply. • 15—ICMP information request. • 16—ICMP information reply. • 17—ICMP address mask request. • 18—ICMP address mask reply. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. • 128—ICMPv6 echo request. • 129—ICMPv6 echo reply. • 130—ICMPv6 group query. • 131—ICMPv6 group report. • 132—ICMPv6 group reduction. • 1—ICMPv6 destination unreachable.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—ICMPv6 time exceeded. • 4—ICMPv6 parameter problem. • 2—ICMPv6 packet too big. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255. For IPv6 extend header abnormal attack, SubType is not needed. For IPv6 extend header exceed attack, SubType is the maximum number of extension headers. Value range: 0 to 7.	
Log	Log switch	N/A	Boolean: • **true** • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • **true** • false	Default is false.
Level	Severity level	N/A	Enumeration: • 0—Information. • 1—Low. • 2—Medium. • 3—High.	N/A

ATK/Signature/LargeICMPLength

This table contains large ICMP and ICMPv6 signature information.

XML structure

```
<ATK>
  <Signature>
    <LargeICMPLength>
      <Policy>
        <PolicyName></PolicyName>
        <IPv4Threshold></IPv4Threshold>
        <IPv6Threshold></IPv6Threshold>
      </Policy>
```

```
    </LargeICMPLength>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LargeICMPLength
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IPv4Threshold	ICMP packet length threshold	N/A	Unsigned integer, value range: 28 to 65534 bytes.	N/A
IPv6Threshold	ICMPv6 packet length threshold	N/A	Unsigned integer, value range: 48 to 65534 bytes.	N/A

ATK/Signature/LevelActions

This table contains signature level action information.

XML structure

```
<ATK>
  <Signature>
    <LevelActions>
      <LevelAction>
        <PolicyName></PolicyName>
        <Level></Level>
        <Log></Log>
        <Drop></Drop>
      </LevelAction>
    </LevelActions>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LevelActions
Table type	Multi-instance table
Row name	LevelAction
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Level	Severity level	Index	Enumeration: • 0—Information. • 1—Low. • 2—Medium. • 3—High.	N/A
Log	Log switch	N/A	Boolean: • **true** • false	Default value is true
Drop	Drop packet switch	N/A	Boolean: • **true** • false	The default value varies by severity level. For information level or low level, default value is false. For medium level or high level default value is true.

ATK/Signature/LogAggregate

This table contains signature log aggregation information.

XML structure

```
<ATK>
  <Signature>
    <LogAggregate>
      <Enable></Enable>
    </LogAggregate>
```

```
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LogAggregate
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Log aggregate switch.	N/A	Boolean: • **true** • false	Default is true.

ATK/Blacklist/IPv4Blacklists

This table contains IPv4 blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4Blacklists>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <AddType></AddType>
        <TTL></TTL>
        <DropCnt></DropCnt>
      </Item>
    </IPv4Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other circumstances.
AddType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.	N/A
TTL	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Blacklist/IPv6Blacklists

This table contains IPv6 blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <AddType></AddType>
        <TTL></TTL>
        <DropCnt></DropCnt>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
			represents public vrf.	VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.	N/A
AddType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.	N/A
TTL	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Blacklist/IPv4DstBlacklists

This table contains IPv4 destination blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4DstBlacklists>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <ItemType></ItemType>
        <AgingTime></AgingTime>
        <DropCnt></DropCnt>
      </Item>
    </IPv4DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK

Item	Description
Table name	IPv4DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
ItemType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.	N/A
AgingTime	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Blacklist/IPv6DstBlacklists

This table contains IPv6 destination blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6DstBlacklists>
```

```
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <ItemType></ItemType>
        <AgingTime></AgingTime>
        <DropCnt></DropCnt>
      </Item>
    </IPv6DstBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6DstBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.	N/A
ItemType	Add type	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Manual add. • 1—Automatic add.	
AgingTime	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Blacklist/InterfaceSwitches

This table contains blacklist interface switch information.

XML structure

```
<ATK>
  <Blacklist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Enable	Blacklist switch.	N/A	Boolean: • **true** • false	Default is false.

ATK/Blacklist/ZoneSwitches

This table contains the blacklist configuration for a security zone.

XML structure

```
<ATK>
  <Blacklist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Enable	Whether the blacklist is enabled or not	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).

ATK/Blacklist/GlobalConfigs

This table contains blacklist global configuration information.

XML structure

```
<ATK>
  <Blacklist>
```

```
    <GlobalConfigs>
      <Enable></Enable>
      <Log></Log>
    </GlobalConfigs>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalConfigs
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Global switch.	N/A	Boolean: • **true** • false	Default is false.
Log	Log switch	N/A	Boolean: • **true** • false	Default is false.

ATK/Whitelist/IPv4ObjItems

This table contains IPv4 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IP name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/IPv6ObjItems

This table contains IPv6 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv6ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv6ObjItems>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IPv6 name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/InterfaceSwitches

This table is used to configure the whitelist for an interface.

XML structure

```
<ATK>
  <Whitelist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD

Column name	Column description	Column type	Data type and restrictions	Remarks
				document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enabling status of the whitelist function	N/A	Boolean: • true • false	N/A

ATK/Whitelist/ZoneSwitches

This table is used to configure the whitelist for a security zone.

XML structure

```
<ATK>
  <Whitelist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Enable	Enabling status of the whitelist	N/A	Boolean: • true • false	N/A

ATK/Whitelist/GlobalSwitches

This table contains whitelist global enabling status information.

XML structure

```
<ATK>
  <Whitelist>
    <GlobalSwitches>
      <Enable></Enable>
    </GlobalSwitches>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalSwitches
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the global configuration.	N/A	Boolean: • true • false	N/A

ATK/ClientVerify/Switches

This table contains client verification switch information.

XML structure

```
<ATK>
  <ClientVerify>
    <Switches>
      <Switch>
        <IfIndex></IfIndex>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </Switches>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Switches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.
VerifyMode	Verification mode	N/A	Enumeration, value range varies according to MainType. For TCP proxy: • 0—Shutdown. • 1—SYN cookie.

Column name	Column description	Column type	Data type and restrictions
			• 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncate. For HTTP client verification: • 0—Shutdown. • 1—Redirection. For DNS reply verification: • 0—DNS request. For SIP client verification: • 0—Shutdown. • 1—Option. For HTTPS client verification: • 0—Shutdown. • 1—Verification.

ATK/ClientVerify/ZoneSwitches

This table contains the client verification configuration for a security zone.

XML structure

```
<ATK>
  <ClientVerify>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </ZoneSwitches>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table

Item	Description
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy. • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncation. For HTTP client verification: • 0—Shutdown. • 1—Redirection. For DNS reply verification: • 0—DNS request. For SIP client verification: • 0—Shutdown. • 1—Option. For HTTPS client verification: • 0—Shutdown. • 1—Verification.

ATK/ClientVerify/IPv4ProtectHosts

This table contains IPv4 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4ProtectHosts>
      <Host>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <PortNumber></PortNumber>
        <AddType></AddType>
        <ReqCnt></ReqCnt>
        <AuthCnt></AuthCnt>
      </Host>
    </IPv4ProtectHosts>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the host resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the host	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.	
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv4Address	Host address	Index	IPv4 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by the verification type. For TCP proxy: 0-65535 For DNS, DNS reply, SIP, HTTP, and HTTPS client verification: 1-65535	For TCP proxy, port number 0 is available which means that any hosts connected to any service port will be monitored. For DNS, DNS reply, SIP, HTTP, and HTTPS client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.	N/A
ReqCnt	Request count	N/A	Unsigned integer.	N/A
AuthCnt	Authenticated request count	N/A	Unsigned integer.	N/A

ATK/ClientVerify/IPv6ProtectHosts

This table contains IPv6 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv6ProtectHosts>
      <Host>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <AddType></AddType>
        <ReqCnt></ReqCnt>
        <AuthCnt></AuthCnt>
      </Host>
    </IPv6ProtectHosts>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the host resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the host	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.	
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
Ipv6Address	Host address	Index	IPv6 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by the verification type. For TCP proxy: 0-65535 For DNS, DNS reply, SIP, HTTP, and HTTPS client verification: 1-65535	For TCP proxy, port number 0 is available which means that any hosts connected to any service port will be monitored. For DNS, DNS reply, SIP, HTTP, and HTTPS client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.	N/A
ReqCnt	Request count	N/A	Unsigned integer.	N/A
AuthCnt	Authenticated request count	N/A	Unsigned integer.	N/A

ATK/ClientVerify/IPv4TrustClients

This table contains information of trust IPv4 clients verified by ClientVerify module.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4TrustClients>
      <Client>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <TTL></TTL>
      </Client>
    </IPv4TrustClients>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4TrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the client resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the client	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification.

Column name	Column description	Column type	Data type and restrictions
			• 5—HTTPS client verification.
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv4Address	Client address	Index	IPv4 address.
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.
TTL	Time to live	N/A	Unsigned integer, unit second.

ATK/ClientVerify/IPv6TrustClients

This table contains information of trust IPv6 clients verified by ClientVerify module.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv6TrustClients>
      <Client>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <TTL></TTL>
      </Client>
    </IPv6TrustClients>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6TrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the client resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the client	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification. • 5—HTTPS client verification.
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv6Address	Client address	Index	IPv6 address.
TTL	Time to live	N/A	Unsigned integer, unit second.

ATK/Specification

This table contains specification information of the current device.

XML structure

```
<ATK>
  <Specification>
    <InterfaceApply></InterfaceApply>
    <LocalApply></LocalApply>
    <ClientVerify></ClientVerify>
  </Specification>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Specification
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
InterfaceApply	Support apply a attack-defense policy to interfaces	N/A	Boolean: • True • false
LocalApply	Support apply a attack-defense policy to local host	N/A	Boolean: • True • false
ClientVerify	Support client-verify feature.	N/A	Boolean: • True • false

ATK/TopStatisticsSwitch

This table contains ATK top statistics switch configuration.

XML structure

```
<ATK>
  <TopStatisticsSwitch>
    <Enable></Enable>
  </TopStatisticsSwitch>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	TopStatisticsSwitch
Table type	Single-instance table
Row name	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ATK top statistics function		• true • false	

ATK/TopStatisticsSampleTime

This table contains sample time for the top statistics in a period.

XML structure

```
<ATK>
  <TopStatisticsSampleTime>
    <Item>
      <Type></Type>
      <Period></Period>
      <SampleTime></SampleTime>
    </Item>
  </TopStatisticsSampleTime>
</ATK>
```

Table description

Item	Description
Feature name	Session
Table name	TopStatisticsSampleTime
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Type	Type of top statistics	Index	Enumeration: • **0**—Top statistics by source address. • **1**—Top statistics by destination address.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. • **0**—1 hour. • **1**—1 day. • **2**—30 days.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SampleTime	Sample time in a period	N/A	String. Length: 1 to 32 characters.	Example: 2000-04-25 21:23:23.

ATK/TopAttackStatisticsByIP

This table contains top statistics for attack.

XML structure

```
<ATK>
  <TopAttackStatisticsByIP>
    <Statistics>
      <Type></Type>
      <Period></Period>
      <Sequence></Sequence>
      <Address>
        <IPv4Addr></IPv4Addr>
        <IPv6Addr></IPv6Addr>
      </Address>
      <VRF></VRF>
      <AttackType></AttackType>
      <AttackTimes></AttackTimes>
      <SampleCount></SampleCount>
    </Statistics>
  </TopAttackStatisticsByIP>
</ATK>
```

Table description

Item	Description
Feature name	Session
Table name	TopAttackStatisticsByIP
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	statistics		• 0—Top statistics by source address. • 1—Top statistics by destination address.	
Period	Period of history attack statistics	Index	Enumeration: • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
Sequence	Sequence number of top statistics	Index	Unsigned integer. Value range: 1 to 10.	N/A
Address	Source or destination network layer address	Data structure	Members include: • IPv4Addr. • IPv6Addr.	N/A
IPv4Addr	IPv4 address	N/A	IPv4 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
IPv6Addr	IPv6 address	N/A	IPv6 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
VRF	Name of the VRF instance associated with the SSL VPN gateway	N/A	String. Length: 0 to 31 characters.	If the gateway is on the public network, the length of characters is 0.
AttackType	AttackType	N/A	Unsigned integer. Value range: 0 to 2^{32} – 1.	N/A
AttackTimes	Attack times	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
SampleCount	SampleCount	N/A	Unsigned integer. Value range: 0 to 2^{32}– 1.	N/A

ATK/TopAttackStatisticsByType

This table contains top statistics for attack.

XML structure

```
<ATK>
  <TopAttackStatisticsByType>
    <Statistics>
      <Period></Period>
      <AttackType></AttackType>
      <AttackTimes></AttackTimes>
    </Statistics>
  </TopAttackStatisticsByType>
```

```
</ATK>
```

Table description

Item	Description
Feature name	Session
Table name	TopAttackStatisticsByType
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period of history attack statistics	Index	Enumeration: • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
AttackType	Attack type.	Index	Enumeration: • 0 ATK_TOPHIS_FLOOD_SYN • 1 ATK_TOPHIS_FLOOD_ACK • 2 ATK_TOPHIS_FLOOD_SYNACK • 3 ATK_TOPHIS_FLOOD_RST • 4 ATK_TOPHIS_FLOOD_FIN • 5 ATK_TOPHIS_FLOOD_UDP • 6 ATK_TOPHIS_FLOOD_ICMP • 7 ATK_TOPHIS_FLOOD_ICMPV6 • 8 ATK_TOPHIS_FLOOD_DNS • 9 ATK_TOPHIS_FLOOD_HTTP • 10 ATK_TOPHIS_SCAN_PORT • 11 ATK_TOPHIS_SCAN_IP_SWEEP • 12 ATK_TOPHIS_SCAN_DIST • 13ATK_TOPHIS_TCP_FRAGMENT • 14 ATK_TOPHIS_CLIENTVERIFY • 15ATK_TOPHIS_BLACKLIST • 16ATK_TOPHIS_BLACKLIST_USER • 17 ATK_TOPHIS_SIGL3 • 18ATK_TOPHIS_SIGL4 • 19 AT • K_TOPHIS_SMURF • 20 ATK_TOPHIS_URPF • 21 ATK_TOPHIS_FLOOD_DNS_REPLY • 22 ATK_TOPHIS_FLOOD_SIP • 23 ATK_TOPHIS_FLOOD_HTTPS	N/A
AttackTimes	Attack times	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2^{64} – 1.	

ATK/HttpSlowAttackCheck/DefaultConfigs

This table contains HTTP slow attack check default configurations.

XML structure

```
<ATK>
  <HttpSlowAttackCheck>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <AlertSessionNum></AlertSessionNum>
        <ContentLength></ContentLength>
        <PayloadLength></PayloadLength>
        <PacketNumber></PacketNumber>
        <Period></Period>
        <Log></Log>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
        <MonitorPort></MonitorPort>
        <NonSpecificSwitch></NonSpecificSwitch>
      </Config>
    </DefaultConfigs>
  </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.
Period	Check cycle	N/A	Unsigned integer. Value range: 1 to 1200 seconds.	Default is 60 seconds.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source IP configuration	Data structure	Members include: • Enable. • BlockTime.	BlockSource are exclusive.
Enable	Blocking source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking source duration	N/A	Unsigned integer. Value range: 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support Application layer only for now. For http slow attack flood, default monitored port is 80.
NonSpecificSwitch	Non-specific protected host detection switch	N/A	Boolean: • true • false	Default value is false which means only detect protect hosts.

ATK/HttpSlowAttackCheck/IPv4ProtectHosts

This table contains HTTP slow attack configurations for IPv4 protected hosts.

XML structure

```
<ATK>
  <HttpSlowAttackCheck>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <VrfName></VrfName>
        <Address></Address>
        <AlertSessionNum></AlertSessionNum>
        <ContentLength></ContentLength>
        <PayloadLength></PayloadLength>
        <PacketNumber></PacketNumber>
        <Period><Period>
        <Log></Log>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
        <MonitorPort></MonitorPort>
      </Host>
    </IPv4ProtectHosts>
  </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
VrfName	VRF name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public VRF.
Address	Protected host address	Index	Ipv4 address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.
Period	Check cycle	N/A	Unsigned integer. Value range: 1 to 1200 second.	Default is 60 second.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source ip configration	Data structure	Members include: • Enable • BlockTime	BlockSource are exclusive.
Enable	Blocking source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking Source duration.	N/A	Unsigned integer. Value range 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support Application layer only for now.

ATK/HttpSlowAttackCheck/IPv6ProtectHosts

This table contains HTTP slow attack configurations for IPv6 protected hosts.

XML structure

```
<ATK>
  <HttpSlowAttackCheck>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <VrfName></VrfName>
        <Address></Address>
        <AlertSessionNum></AlertSessionNum>
```

```
      <ContentLength></ContentLength>
      <PayloadLength></PayloadLength>
      <PacketNumber></PacketNumber>
      <Period><Period>
      <Log></Log>
      <BlockSource>
        <Enable></Enable>
        <BlockTime></BlockTime>
      </BlockSource>
      <MonitorPort></MonitorPort>
    </Host>
  </IPv6ProtectHosts>
 </HttpSlowAttackCheck>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of attack defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive.
VrfName	VRF name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public VRF.
Address	Protected host address	Index	Ipv6 address	N/A
AlertSessionNum	HTTP connection alert session number	N/A	Unsigned integer. Value range: 1 to 1200000.	Default value is 5000.
ContentLength	Value of Content-Length	N/A	Unsigned integer. Value range: 100 to 100000000.	Default value is 10000.
PayloadLength	HTTP body length	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 50.
PacketNumber	Abnormity packet number	N/A	Unsigned integer. Value range: 1 to 1000.	Default value is 10.

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Check cycle	N/A	Unsigned integer. Value range 1 to 1200 second.	default is 60 second.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
BlockSource	Blocking source ip configration	Data structure	Members include: • Enable. • BlockTime.	BlockSource are exclusive.
Enable	Blocking source switch	N/A	Boolean: • true • false	Default is false.
BlockTime	Blocking source duration.	N/A	Unsigned integer. Value range 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.
MonitorPort	Monitor service port range	N/A	Port range string. Port value range: 1 to 65535.	Support Application layer only for now.

ATK/ScanAttackTypes

This table contains scan attack types information of the current device.

XML structure

```
<ATK>
  <ScanAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </ScanAttackTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ScanAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/FloodAttackTypes

This table contains flood attack types information of the current device.

XML structure

```
<ATK>
  <FloodAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </FloodAttackTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	FloodAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/SignatureAttackTypes

This table contains signature attack types information of the current device.

XML structure

```
<ATK>
  <SignatureAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </SignatureAttackTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	SignatureAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/BlacklistTypes

This table contains blacklist types information of the current device.

XML structure

```
<ATK>
  <BlacklistTypes>
    <Type>
      <Digest></Digest>
```

```
      <TypeName></TypeName>
    </Type>
  </BlacklistTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	BlacklistTypes
Table type	Multi-instance table
Row name	Type
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
TypeName	Name of type	N/A	String. Length: 1 to 32 characters.

ATK/Blacklist/IPv4ObjItems

This table contains IPv4 blacklist object-group information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Blacklist>
</ATK>
```

Table description

Item	**Description**
Feature name	ATK

Item	Description
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	IP object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

ATK/Blacklist/IPv6ObjItems

This table contains IPv6 blacklist object-group information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv6ObjItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	IPv6 object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

ATK/Blacklist/ObjItemsStat

This table contains IP object-group blacklist statistics information.

XML structure

```
<ATK>
  <Blacklist>
    <ObjItemsStat>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ObjType></ObjType>
        <ObjGrpName></ObjGrpName>
        <Drops></Drops>
      </Item>
    </ObjItemsStat>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ObjItemsStat
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the blacklist resides			
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
ObjType	IP object group type	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
ObjGrpName	IP object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Drops	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Whitelist/ObjItemsStat

This table contains IP object-group whitelist statistics information.

XML structure

```
<ATK>
  <Whitelist>
    <ObjItemsStat>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ObjType></ObjType>
        <ObjGrpName></ObjGrpName>
        <MatchingPackets></MatchingPackets>
      </Item>
    </ObjItemsStat>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ObjItemsStat
Table type	Multi-instance table
Row name	Item

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the whitelist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the whitelist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
ObjType	IP object group type	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
ObjGrpName	IP object group name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
MatchingPackets	Matching packet count	N/A	Unsigned integer.	N/A

ATK/ImportBlacklistsStatus

This table is used to get blacklist import status.

XML structure

```
<ATK>
  <ImportBlacklistsStatus>
    <Percent></Percent>
  </ImportBlacklistsStatus>
</ATK>
```

Table description

Item	**Description**
Feature name	ATK
Table name	ImportBlacklistsStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percent	Import progress	N/A	Unsigned integer. Value range: 0 to 100.	N/A

ATK/Blacklist/GetBlacklists

This table contains IP blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <GetBlacklists>
      <Item>
        <IPType></IPType>
        <ObjectType></ObjectType>
        <IPDirection></IPDirection>
        <VrfIndex></VrfIndex>
        <IpAddress></IpAddress>
        <DSLitePeer></DSLitePeer>
        <TTL></TTL>
        <DropCnt></DropCnt>
        <AllBlacklistsCount></AllBlacklistsCount>
        <AddType></AddType>
      </Item>
    </GetBlacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GetBlacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	Type of IP address	Index	Enumeration: • IPv4. • IPv6.	This table can be used to add or filter blacklist entryies. The meaning of each parameter is as follows: 1) Location is used to specify where to get or query data. 2) SimpleQuery is used to search general match. 3) AdvanceQuery is used to search information by using more information. 4) IPType is the type of IP address. 5) IPDirection means the direction of IP address to be controlled. 6) IpAddress means blacklisted IP address. 7) DSLitePeer is used to set dslite tunnel peer address. For example: 1) Location 1 SimpleQuery String ***; 2) Location 1 AdvanceQuery IPType IPv4 IPDirection Source vrf 2 IpAddress 1.1.1.1 DSLitePeer 1::1
ObjectType	Type of the object	Index	Enumeration: • Host. • Subnet. • Range.	N/A
IPDirection	Direction of IP address	Index	Enumeration: • Source. • Destination.	N/A
VrfIndex	VRF index	Index	Unsigned integer 0 represents public VRF.	Some versions support VRF name. For more information, see the XSD document of your product. For information about VrfIndex, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				appendix in *L3VPN NETCONF XML API Data Reference*.
IpAddress	IPv4 or IPv6 address	Index	String. Length: 1 to 39 characters.	N/A
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.	In a DS-Lite network, this parameter refers to a B4 addresses. Leave it empty in other circumstances.
TTL	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
AllBlacklistsCount	Number of IP address blacklist entries	N/A	Unsigned integer.	N/A
AddType	Add type	N/A	Enumeration: • Manual. • Automatic.	N/A

Contents

ATK 2
ATK/IPv4Exempts 2
ATK/IPv6Exempts 2
ATK/Scan/Policies 2
ATK/Flood/DefaultConfigs 3
ATK/Flood/IPv4ProtectHosts 4
ATK/Flood/IPv6ProtectHosts 4
ATK/Signature/Detects 5
ATK/Blacklist/ZoneSwitches 5
ATK/Blacklist/IPv4Blacklists 6
ATK/Blacklist/IPv6Blacklists 6
ATK/Whitelist/ZoneSwitches 6
ATK/Whitelist/IPv4ObjItems 6
ATK/Whitelist/IPv6ObjItems 6
ATK/ClientVerify/IPv4ProtectHosts 7
ATK/ClientVerify/IPv6ProtectHosts 7
ATK/ClientVerify/Switches 7
ATK/ClientVerify/ZoneSwitches 8
ATK/TopStatisticsSwitch 8
ATK/Blacklist/IPv4ObjItems 8
ATK/Blacklist/IPv6ObjItems 8
ATK/ImportBlacklists 9

ATK

ATK/IPv4Exempts

Message	Explanation
Please specify an ACL by either its number or its name. 不能同时设置ACL组名与ACL组号。	During executing create, merge or replace operation, ACL number and ACL name are mutual exclusive and only one of them can be set in a single message. 当执行create、merge、release操作时，ACL 组号和ACL组名同一时刻只能设置其一。

ATK/IPv6Exempts

Message	Explanation
Please specify an ACL by either its number or its name. 不能同时设置ACL组名与ACL组号。	During executing create, merge or replace operation, ACL number and ACL name are mutual exclusive and only one of them can be set in a single message. 当执行create、merge和release操作时，ACL 组号和ACL组名同一时刻只能设置其一。

ATK/Scan/Policies

Message	Explanation
Please specify the detection sensitivity before specifying defense actions. 未开启指定敏感度的扫描攻击防范时，不能设置行攻击防范处理行为。	During executing configuration operation (create, merge, replace, delete or remove), please specify the detection sensitivity before specifying defense actions. 当执行配置操作（包括create、merge、release、delete和remove）时，未开启指定敏感度的扫描攻击防范时，不能设置行攻击防范处理行为。
Please specify at least one defense action. 请至少设置一个攻击防范处理行为。	During executing configuration operation (create, merge, replace, delete or remove), please specify at least one defense action. 当执行配置操作（包括create、merge、release、delete和remove）时，请至少设置一个攻击防范处理行为。
The drop and block-source actions cannot be both specified. 扫描攻击防范的执行动作不能同时设置为丢弃报文与阻塞攻击源地址。	During executing configuration operation (create, merge, replace, delete or remove), drop and BlockSource are mutual exclusive and only one of them can be set in a single message. 当执行配置操作（包括create、merge、release、delete和remove）时，扫描攻击防范的执行动作丢弃报文与阻塞攻击源地址同一时刻只能设置其一。
The blacklist aging time can only be set for the block-source action. 仅在扫描攻击防范的执行动作为阻塞源地址时才能设置黑名单的老化时间。	During executing configuration operation (create, merge, replace, delete or remove), the blacklist aging time can only be set for the block-source action. 当执行配置操作（包括create、merge、release、delete和remove）时，仅在扫描攻击防范的执行动作为阻塞源地址时才能设置黑名单的老化时间。

At least one of scan attack detect ways should be specified. 设置自定义级别扫描攻击防范时至少应指定端口检测和IP检测中的一种方式。	During executing configuration operation (create, merge, replace, delete or remove), at least one of scan attack detect ways should be specified. 当执行配置操作（包括create、merge、release、delete和remove）时，设置自定义级别扫描攻击防范时至少应指定端口检测和IP检测中的一种方式。
The port scan attack detect switch and the port scan attack detect threshold should all be set or neither be set. 设置自定义级别扫描攻击防范时端口扫描检测开关和端口扫描检测阈值应该同时设置或不设置。	During executing configuration operation (create, merge, replace, delete or remove), the port scan attack detect switch and the port scan attack detect threshold should all be set or neither be set. 当执行配置操作（包括create、merge、release、delete和remove）时，设置自定义级别扫描攻击防范时端口扫描检测开关和端口扫描检测阈值应该同时设置或不设置。
The IP scan attack detect switch and the IP attack detect threshold should all be set or neither be set. 设置自定义级别扫描攻击防范时IP扫描检测开关和IP扫描检测阈值应该同时设置或不设置。	During executing configuration operation (create, merge, replace, delete or remove), the IP scan attack detect switch and the IP attack detect threshold should all be set or neither be set. 当执行配置操作（包括create、merge、release、delete和remove）时，设置自定义级别扫描攻击防范时IP扫描检测开关和IP扫描检测阈值应该同时设置或不设置。
Ipsweep switch and portscan switch cannot be open when the detect level is UNDO. 级别为UNDO时，地址检测或端口检测开关不能为打开状态。	During executing configuration operation (create, merge, replace, delete or remove), IP sweep switch and port scan switch cannot be open when the detect level is UNDO. 当执行配置操作（包括create、merge、release、delete和remove）时，级别为UNDO时，地址检测或端口检测开关不能为打开状态。

ATK/Flood/DefaultConfigs

Message	Explanation
The operation is not supported on the device. 设备不支持此操作。	During executing create, merge or replace operation, the client verification operation must be supported on the device. 当执行create、merge和release操作时，请确保设备支持客户端验证功能。
The flood attack type doesn't exist. 该泛洪攻击防范类型不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the flood attack type must exist. 当执行配置操作（包括create、merge、release、delete和remove）时，请确保相应的泛洪攻击防范类型必须存在。
Client verification is not an available defense action for this flood attack. 该类型的泛洪攻击防范的处理行为不能设置为客户端验证。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, client verification is not an available defense action for this flood attack. 当执行配置操作（包括create、merge、release、delete和remove）时，该类型的泛洪攻击防范的处理行为不能设置为客户端验证。
Only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 当执行配置操作（包括create、merge、release、delete和remove）时，仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。
The number of detection ports exceeds the upper	During executing configuration operation (create, merge, replace,

limit. 检测端口数量超过上限。	delete or remove) or get operation, the number of detection ports must not exceeds the upper limit. 当执行配置操作（包括create、merge、release、delete和remove）时，请确保检测端口数量不能超过上限。

ATK/Flood/IPv4ProtectHosts

Message	Explanation
The operation is not supported on the device. 设备不支持此操作。	During executing create, merge or replace operation, the client verification operation must be supported on the device. 当执行create、merge和release操作时，请确保设备支持客户端验证功能。
The flood attack type doesn't exist. 该泛洪攻击防范类型不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the flood attack type must exist. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，请确保相应的泛洪攻击防范类型必须存在。
Client verification is not an available defense action for this flood attack. 该类型的泛洪攻击防范的处理行为不能设置为客户端验证。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, client verification is not an available defense action for this flood attack. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，该类型的泛洪攻击防范的处理行为不能设置为客户端验证。
Only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。
The number of detection ports exceeds the upper limit. 检测端口数量超过上限。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the number of detection ports must not exceeds the upper limit. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，请确保检测端口数量不能超过上限。
Invalid IP address. 指定的地址不合法。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the IP address must be valid. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的地址必须合法。

ATK/Flood/IPv6ProtectHosts

Message	Explanation
The operation is not supported on the device. 设备不支持此操作。	During executing create, merge or replace operation, the client verification operation must be supported on the device. 当执行create、merge和release操作时，请确保设备支持客户端验证功能。

The flood attack type doesn't exist. 该泛洪攻击防范类型不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the flood attack type must exist. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，请确保相应的泛洪攻击防范类型必须存在。
Client verification is not an available defense action for this flood attack. 该类型的泛洪攻击防范的处理行为不能设置为客户端验证。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, client verification is not an available defense action for this flood attack. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，该类型的泛洪攻击防范的处理行为不能设置为客户端验证。
Only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, only HTTP HTTPS DNS DNS-REPLY and SIP flood attack defense supports port configuration. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，仅HTTP泛洪攻击防范、HTTPS泛洪攻击防范、DNS泛洪攻击防范、DNS-REPLY泛洪攻击防范和SIP范洪攻击防范支持设置检测端口。
The number of detection ports exceeds the upper limit. 检测端口数量超过上限。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the number of detection ports must not exceeds the upper limit. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，请确保检测端口数量不能超过上限。
Invalid IP address. 指定的地址不合法。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the IP address must be valid. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的地址必须合法。

ATK/Signature/Detects

Message	Explanation
The single-packet attack type doesn't exist. 该单包攻击防范类型不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the single-packet attack type must exist. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，单包攻击防范类型必须存在。

ATK/Blacklist/ZoneSwitches

Message	Explanation
The operation is not supported on Local zone. Local域上不支持该操作。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, The operation is not supported on Local zone. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，Local域上不支持该操作。

ATK/Blacklist/IPv4Blacklists

Message	Explanation
The VRF instance does not exist. 指定的VRF不存在。	During executing create, merge or replace operation, the specified VPN instance must exist. 当执行create、merge和release操作时，指定的VRF必须存在。

ATK/Blacklist/IPv6Blacklists

Message	Explanation
The VRF instance does not exist. 指定的VRF不存在。	During executing create, merge or replace operation, the specified VPN instance must exist. 当执行create、merge和release操作时，指定的VRF必须存在。

ATK/Whitelist/ZoneSwitches

Message	Explanation
The operation is not supported on Local zone. Local域上不支持该操作。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, The operation is not supported on Local zone. 当执行create、merge和release操作时，指定的VRF必须存在。

ATK/Whitelist/IPv4ObjItems

Message	Explanation
The IP address object group doesn't exist. 该地址对象组不存在。	During executing configuration operation (create, merge, replace, delete or remove), the IP address object group must exist. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的地址对象组必须存在。
The object group is not an IP address object group. 该对象组不是地址对象组。	During executing configuration operation (create, merge, replace, delete or remove), the object group must be an IP address object group. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的对象组必须是地址对象组。

ATK/Whitelist/IPv6ObjItems

Message	Explanation
The IP address object group doesn't exist. 该地址对象组不存在。	During executing configuration operation (create, merge, replace, delete or remove), the IP address object group must exist. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的地址对象组必须存在。

The object group is not an IP address object group. 该对象组不是地址对象组。	During executing configuration operation (create, merge, replace, delete or remove), the object group must be an IP address object group. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的对象组必须是地址对象组。

ATK/ClientVerify/IPv4ProtectHosts

Message	Explanation
The VRF instance does not exist. 指定的VRF不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the specified VPN instance must exist. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的VRF必须存在。
Invalid IP address. 指定的地址不合法。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the IP address must be valid. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的地址必须合法。

ATK/ClientVerify/IPv6ProtectHosts

Message	Explanation
The VRF instance does not exist. 指定的VRF不存在。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the specified VPN instance must exist. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的VRF必须存在。
Invalid IP address. 指定的地址不合法。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the IP address must be valid. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，指定的地址必须合法。

ATK/ClientVerify/Switches

Message	Explanation
The verification mode is not supported. 该类型客户端验证不支持指定的工作模式。	During executing create, merge or replace operation, the verification mode must be supported. 当执行create、merge和release操作时，客户端验证需要支持指定的工作模式。

ATK/ClientVerify/ZoneSwitches

Message	Explanation
The verification mode is not supported. 该类型客户端验证不支持指定的工作模式。	During executing create, merge, or replace operation, the verification mode must be supported. 当执行create、merge和release操作时，客户端验证需要支持指定的工作模式。
The operation is not supported on Local zone. Local域上不支持该操作。	During executing configuration operation (create, merge, replace, delete or remove) or get operation, the operation is not supported on Local zone. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，Local域上不支持该操作。

ATK/TopStatisticsSwitch

Message	Explanation
The stop process is running. Please try it later. 关闭操作尚未执行完毕，请稍后重试。	During executing create, merge, replace, or action operation, The close operation must be completed. 当执行create、merge、release及action操作时，需要等到关闭操作执行完毕。

ATK/Blacklist/IPv4ObjItems

Message	Explanation
The IP address object group doesn't exist. 该地址对象组不存在。	During executing configuration operation (create, merge, replace, delete, or remove), the IP address object group must exist. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的地址对象组必须存在。
The object group is not an IP address object group. 该对象组不是地址对象组。	During executing configuration operation (create, merge, replace, delete, or remove), the object group must be an IP address object group. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的对象组必须是地址对象组。

ATK/Blacklist/IPv6ObjItems

Message	Explanation
The IP address object group doesn't exist. 该地址对象组不存在。	During executing configuration operation (create, merge, replace, delete, or remove), the IP address object group must exist. 当执行配置操作（包括create、merge、release、delete和remove）时，指定的地址对象组必须存在。
The object group is not an IP address object group. 该对象组不是地址对象组。	During executing configuration operation (create, merge, replace, delete or remove), the object group must be an IP address object group.

	当执行配置操作（包括create、merge、release、delete和remove）时，指定的对象组必须是地址对象组。

ATK/ImportBlacklists

Message	Explanation
The VRF instance does not exist. 指定的VRF不存在。	During executing action operation, the specified VPN instance must exist. 当执行action操作时，指定的VRF必须存在。
The import file format is not as required. 导入文件的格式不符合要求。	During import file operation, the file must meet the requirements. 当执行导入文件操作时，文件必须符合要求。
The size of the file to be imported exceeds the upper limit. 黑名单文件大小超过上限。	The size of blacklist file cannot exceed the upper limit for action operation. 当执行action操作时，导入的文件的大小不能超过上限。
Invalid format of *ip-address*. *ip-addresses*格式错误。	The IP blacklist address is wrong format for action operation. 当执行action操作时，IP黑名单地址格式错误。
Another import task is in progress. Please try again later. 存在其他导入任务正在执行，请稍后执行此任务。	When an import task is being executed, you cannot start another import task. 当有导入任务正在执行时，不允许再新增导入任务。
The number of blacklisted addresses has reached the limit. 黑名单数量超过规格上限。	When you perform a file import task, the number of blacklisted addresses cannot exceed the upper limit. 当执行导入文件操作时，添加黑名单时不能超过黑名单规格上限数量。

Contents

AUDIT 1

AUDIT/SignatureManualUpgrade 1
- XML structure 1
- Table description 1
- Columns 1

AUDIT/SignatureAutoUpgradeNow 1
- XML structure 2
- Table description 2
- Columns 2

AUDIT/SignatureRollback 2
- XML structure 2
- Table description 2
- Columns 3

AUDIT/PolicyMove 3
- XML structure 3
- Table description 3
- Columns 3

AUDIT

AUDIT/SignatureManualUpgrade

This table contains the information of AUDIT signatures manual upgrading.

XML structure

```
<AUDIT>
  <SignatureManualUpgrade>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrade>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureManualUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the impored rule file	N/A	String: case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 characters.	N/A
Location	The Location of the file	N/A	Enumeration: • 0—local. • 1—remote.	N/A

AUDIT/SignatureAutoUpgradeNow

This table contains the information of AUDIT signatures auto upgrading at once.

XML structure

```
<AUDIT>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade Now	Auto upgrade at once	N/A	This column must be empty.	N/A

AUDIT/SignatureRollback

This table contains the information of AUDIT signatures rollback.

XML structure

```
<AUDIT>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureRollback
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	rollback	N/A	Boolean: • true: rollback last version. • false: rollback original version.	N/A

AUDIT/PolicyMove

This table contains information about the AUDIT's policy move.

XML structure

```
<AUDIT>
  <PolicyMove>
    <Move>
      <SrcPolicyName></SrcPolicyName>
      <DesPolicyName></DesPolicyName>
      <MoveType></MoveType>
    </Move>
  </PolicyMove>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyMove
Table type	Multi-instance table
Row name	Move
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPolicyName	Source Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
DesPolicyNa	Destination	Index	String: case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
me	Policy Name		Length: 1 to 63 characters.	
MoveType	Moving type for the policy	N/A	Enumeration: • 0—Move after a policy. • 1—Move before a policy.	N/A

Contents

AUDIT 1
AUDIT/Policies 1
XML structure 1
Table description 1
Columns 1
AUDIT/PolicyOptions 2
XML structure 2
Table description 2
Columns 2
AUDIT/DefaultPolicyAction 3
XML structure 3
Table description 3
Columns 4
AUDIT/ AppPolicyKeywordGroups 4
XML structure 4
Table description 4
Columns 4
AUDIT/Keywords 5
XML structure 5
Table description 5
Columns 5
AUDIT/PolicyRules 6
XML structure 6
Table description 6
Columns 6
AUDIT/SignatureAutoUpgrading 7
XML structure 7
Table description 8
Columns 8

AUDIT

AUDIT/Policies

This table contains information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Disable></Disable>
      <TimeRangeName></TimeRangeName>
      <DefaultRuleAction></DefaultRuleAction>
      <PolicyType></PolicyType>
      <RuleMatchType></RuleMatchType>
    </Policy>
  </Policies>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Disable	Set this value to true to disable the policy	N/A	Boolean: • true. • false.	N/A
TimeRangeName	Time Range Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyType	Policy Type	N/A	Enumeration: • 0—NoAudit. • 1—Audit. • 2—Deny.	The policy type must be set when policy is created.
DefaultRuleAction	Default Rule Action	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
RuleMatchType	Rule Matching Type	N/A	Enumeration: • 0—Order. • 1—Full.	N/A

AUDIT/PolicyOptions

This table contains some multiple option information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionType></OptionType>
      <OptionValue></OptionValue>
    </Option>
  </PolicyOptions>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	Name can not be same with its siblings. It is Mandatory.
OptionType	Type of the option in the policy	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceIPv4AddressSets. • 4—SourceIPv6AddressSets. • 5—DestIPv4AddressSets • 6—DestIPv6AddressSets • 7—Users. • 8—User Groups. • 9—Applications. • 10—AppGroups. • 11—Service.	N/A
OptionValue	Value of the special option type in the policy	Index	String: case-insensitive. Length: 1 to 63 characters (for OptionTypes 9 and 10). Length: 1 to 31 characters (for OptionTypes 1 through 6, and OptionType 11). Length: 1 to 480 characters (for OptionTypes 7 and 8).	Values of OptionTypes 7 and 8 are in Json format.

AUDIT/DefaultPolicyAction

This table contains information about the AUDIT's default policy action.

XML structure

```
<AUDIT>
  <DefaultPolicyAction>
    <DefaultAction>
      <Action></Action>
    </DefaultAction>
  </DefaultPolicyAction>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	DefaultPolicyAction
Table type	Multi-instance table

Row name	DefaultAction
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Packet Action which not match any Audit's policy	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A

AUDIT/ AppPolicyKeywordGroups

This table contains information about the AUDIT's keywordgroup.

XML structure

```
<AUDIT>
  <AppPolicyKeywordGroups>
    <KeywordGroup>
      <KeywordGroupName></KeywordGroupName>
      <Description></Description>
      <RefCnt></RefCnt>
    </KeywordGroup>
  </AppPolicyKeywordGroups>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	AppPolicyKeywordGroups
Table type	Multi-instance table
Row name	KeywordGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupName	Keyword Group	Index	String: case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Name		Length: 1 to 63 characters.	
Description	Description about keyword group	N/A	String: case-insensitive Length: 1 to 256 characters.	N/A
RefCnt	Refer count about keyword group	N/A	Unsigned integer: Value range: 0 to 2^{16} – 1.	N/A

AUDIT/Keywords

This table contains information about the keywords of keywordgroup.

XML structure

```
<AUDIT>
  <Keywords>
    <Keyword>
      <KeywordGroupName></KeywordGroupName>
      <Keyword></Keyword>
    </Keyword>
  </Keywords>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	Keywords
Table type	Multi-instance table
Row name	Keyword
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Keyword	Keyword of matching the application behavior content	Index	String: case-sensitive. Length: 1 to 63 characters.	N/A

AUDIT/PolicyRules

This table contains the information of a Audit Rule in specify policy.

XML structure

```
<AUDIT>
  <PolicyRules>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
      <MatchType></MatchType>
      <KeywordGroupName></KeywordGroupName>
      <Number></Number>
      <PktAction></PktAction>
      <AuditLogging></AuditLogging>
    </Rule>
  </PolicyRules>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	PolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A
AppCategoryI	App Category	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
D	ID		Value range: 0 to 2^{32} - 1.	
AppID	Application layer protocol ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BehaviorID	Application Behavior ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BhContentID	Application behavior content ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: • 0—Keyword Filter. • 1—Number Filter.	N/A
KeywordGroupName	Keyword Group Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	Contain the keyword for mathing application behavior content.
Number	Number	N/A	Unsigned integer: Value range: 0 to 2^{32} – 1.	Number for matching the application behavior content.
MatchType	Match Type	N/A	Enumeration: • 0—Equal. • 1—Greater. • 2—Less. • 3—Include. • 4—Greater or Equal. • 5—Less or Equal. • 6—Unequal. • 7—Exclude.	N/A
PktAction	Packet Action	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
AuditLogging	Whether or not send the Audit Logging	N/A	Enumeration: • 0—Don’t Send Audit log. • 1—Send Audit log.	N/A

AUDIT/SignatureAutoUpgrading

This table contains the information of AUDIT signatures auto upgrading.

XML structure

```
<AUDIT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
```

```
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true. • false.	N/A
StartTime	The time that the system auto upgrading	N/A	Date Time. Format: HH:MM:SS	N/A
Type	Type of the system auto upgrading	N/A	Enumeration: • 0—Week. • 1—periodic.	N/A
Day	Days	N/A	Unsigned integer: Value range: 0-6.	When Type is 0, the value range is 0 to 6. Otherwise, the value is invalid.

Contents

AUDIT 1

AUDIT/ Policies 1
XML structure 1
Table description 1
Columns 1
AUDIT/PolicyOptions 2
XML structure 2
Table description 2
Columns 2
AUDIT/DefaultPolicyAction 3
XML structure 3
Table description 3
Columns 4
AUDIT/AppPolicyKeywordGroups 4
XML structure 4
Table description 4
Columns 4
AUDIT/Keywords 5
XML structure 5
Table description 5
Columns 5
AUDIT/PolicyRules 5
XML structure 6
Table description 6
Columns 6
AUDIT/AppBehaviors 7
XML structure 7
Table description 8
Columns 8
AUDIT/AppBehaviorContents 8
XML structure 8
Table description 9
Columns 9
AUDIT/AppBhContentsFilterType 9
XML structure 9
Table description 10
Columns 10
AUDIT/AppCategories 10
XML structure 10
Table description 11
Columns 11
AUDIT/AppCategoryMembers 11
XML structure 11
Table description 11
Columns 12
AUDIT/Behaviors 12
XML structure 12
Table description 12
Columns 12
AUDIT/BehaviorContents 13
XML structure 13
Table description 13
Columns 13
AUDIT/SignatureAutoUpgrading 13
XML structure 14
Table description 14
Columns 14

AUDIT/SignatureFileInfos 14
XML structure 15
Table description 15
Columns 15
AUDIT/UpdatePercentage 15
XML structure 16
Table description 16
Columns 16
AUDIT/KeywordGroupReferences 16
XML structure 16
Table description 17
Columns 17
AUDIT/AUDITSpecification 17
XML structure 17
Table description 17
Columns 18

AUDIT

AUDIT/ Policies

This table contains information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Disable></Disable>
      <TimeRangeName></TimeRangeName>
      <DefaultRuleAction></DefaultRuleAction>
      <PolicyType></PolicyType>
      <RuleMatchType></RuleMatchType>
    </Policy>
  </Policies>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Disable	Set this value to true to disable the policy	N/A	Boolean: • true. • false.	N/A
TimeRangeName	Time Range Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A
PolicyType	Policy Type	N/A	Enumeration: • 0—NoAudit.	The policy type must be set when policy is

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Audit. • 2—Deny.	created.
DefaultRuleAction	Default Rule Action	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
RuleMatchType	Rule Matching Type	N/A	Enumeration: • 0—Order. • 1—Full.	N/A

AUDIT/PolicyOptions

This table contains some multiple information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionType></OptionType>
      <OptionValue></OptionValue>
    </Option>
  </PolicyOptions>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	Name can not be same with its siblings. It is Mandatory

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionType	Type of the option in the policy	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceIPv4AddressSets. • 4—SourceIPv6AddressSets. • 5—DestIPv4AddressSets • 6—DestIPv6AddressSets • 7—Users. • 8—User Groups. • 9—Applications. • 10—AppGroups. • 11—Service.	N/A
OptionValue	Value of the special option type in the policy	Index	String: case-insensitive. Length: 1 to 63 characters (for OptionTypes 9 and 10). Length: 1 to 31 characters (for OptionTypes1 through 6, and OptionType11). Length: 1 to 480 characters (for OptionTypes 7 and 8).	Values of OptionTypes 7 and 8 are in Json format.

AUDIT/DefaultPolicyAction

This table contains information about the AUDIT's default policy action.

XML structure

```
<AUDIT>
  <DefaultPolicyAction>
    <DefaultAction>
      <Action></Action>
    </DefaultAction>
  </DefaultPolicyAction>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	DefaultPolicyAction
Table type	Multi-instance table
Row name	DefaultAction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Packet Action which not match any Audit's policy	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A

AUDIT/AppPolicyKeywordGroups

This table contains information about the AUDIT's keywordgroup.

XML structure

```
<AUDIT>
  <AppPolicyKeywordGroups>
    <KeywordGroup>
      <KeywordGroupName></KeywordGroupName>
      <Description></Description>
      <RefCnt></RefCnt>
    </KeywordGroup>
  </AppPolicyKeywordGroups>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	AppPolicyKeywordGroups
Table type	Multi-instance table
Row name	KeywordGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description about keyword group	N/A	String: case-insensitive. Length: 1 to 256 characters.	N/A
RefCnt	Refer count about keyword	N/A	Unsigned integer: Value range: 0 to 2^{16} – 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group			

AUDIT/Keywords

This table contains information about the keywords of keywordgroup.

XML structure

```
<AUDIT>
  <Keywords>
    <Keyword>
      <KeywordGroupName></KeywordGroupName>
      <Keyword></Keyword>
    </Keyword>
  </Keywords>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	Keywords
Table type	Multi-instance table
Row name	Keyword
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Keyword	Keyword of matching the application behavior content	Index	String: case-sensitive. Length: 1 to 63 characters.	N/A

AUDIT/PolicyRules

This table contains the information of a Audit Rule in specify policy.

XML structure

```
<AUDIT>
  <PolicyRules>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
      <MatchType></MatchType>
      <KeywordGroupName></KeywordGroupName>
      <Number></Number>
      <PktAction></PktAction>
      <AuditLogging></AuditLogging>
    </Rule>
  </PolicyRules>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	PolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A
AppCategoryID	App Category ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppID	Application layer protocol ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BehaviorID	Application Behavior ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BhContentID	Application behavior content ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: • 0—Keyword Filter. • 1—Number Filter.	N/A
KeywordGroupName	Keyword Group Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	Contain the keyword for mathing application behavior content.
Number	Number	N/A	Unsigned integer: Value range: 0 to 2^{32} – 1.	Number for matching the application behavior content.
MatchType	Match Type	N/A	Enumeration: • 0—Equal. • 1—Greater. • 2—Less. • 3—Include. • 4—Greater or Equal. • 5—Less or Equal. • 6—Unequal. • 7—Exclude.	N/A
PktAction	Packet Action	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
AuditLogging	Whether or not send the Audit Logging	N/A	Enumeration: • 0—Don’t Send Audit log. • 1—Send Audit log.	N/A

AUDIT/AppBehaviors

This table contains the behavior of the application or application category.

XML structure

```
<AUDIT>
  <AppBehaviors>
    <AppBehavior>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorIDs>
        <BehaviorID></BehaviorID>
      </BehaviorIDs>
    </AppBehavior>
  </AppBehaviors>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppBehaviors
Table type	Multi-instance table
Row name	AppBehavior
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BehaviorIDs	Behavior ID list	Data structure	Members include: • BehaviorID.	N/A
BehaviorID	Behavior ID	N/A	Unsigned integer: Value range: 0 to 2^{32} - 1.	Contains Multiple BehaviorID in the application or application category.

AUDIT/AppBehaviorContents

This table contains the behavior Content of the application or application category.

XML structure

```
<AUDIT>
  <AppBehaviorContents>
    <BhContent>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentIDs>
        <BhContentID></BhContentID>
      </BhContentIDs>
    </BhContent>
  </AppBehaviorContents>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppBehaviorContents
Table type	Multi-instance table
Row name	BhContent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BehaviorID	Behavior ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BhContentIDs	Behavior content ID list	Data structure	Members include: • BhContentID.	N/A
BhContentID	Behavior content ID	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Contains Multiple BhContentID in the application or application category.

AUDIT/AppBhContentsFilterType

This table contains the behavior content filter type of the application or application category.

XML structure

```
<AUDIT>
  <AppBhContentFilterType>
    <BhContentFilterType>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
    </BhContentFilterType>
  </AppBhContentFilterType>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppBhContentFilterType
Table type	Multi-instance table
Row name	BhContentFilterType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BehaviorID	Behavior ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BhContentID	Behavior content ID	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: • 0—Keyword Filter. • 1—Number Filter.	N/A

AUDIT/AppCategories

This table contains informations about the Audit's application categories.

XML structure

```
<AUDIT>
  <AppCategories>
    <AppCategory>
      <AppCategoryID></AppCategoryID>
      <AppCategoryName></AppCategoryName>
    </AppCategory>
  </AppCategories>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppCategories
Table type	Multi-instance table
Row name	AppCategory
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppCategory Name	App Category Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/AppCategoryMembers

This table contains the Audit's application protocols included in an application category.

XML structure

```
<AUDIT>
  <AppCategoryMembers>
    <AppCategoryMember>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <AppName></AppName>
    </AppCategoryMember>
  </AppCategoryMembers>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppCategoryMembers
Table type	Multi-instance table
Row name	AppCategoryMember

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
AppName	Application layer protocol name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/Behaviors

This table contains informations about the Audit's application behaviors

XML structure

```
<AUDIT>
  <Behaviors>
    <Behavior>
      <BehaviorID></BehaviorID>
      <BehaviorName></BehaviorName>
    </Behavior>
  </Behaviors>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	Behaviors
Table type	Multi-instance table
Row name	Behavior
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorID	App Behavior ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	App Behavior Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/BehaviorContents

This table contains informations about the Audit's application behavior contents.

XML structure

```
<AUDIT>
  <BehaviorContents>
    <BehaviorContent>
      <BhContentID></BhContentID>
      <BhContentName></BhContentName>
    </BehaviorContnet>
  </BehaviorContents>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	BehaviorContents
Table type	Multi-instance table
Row name	BehaviorContent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BhContentID	App Behavior Content ID	Index	Unsigned integer: Value range: 0 to 2^{32} - 1.	N/A
BhContentName	App Behavior Content Name	N/A	String, case-insensitive: Length: 1 to 63 characters.	N/A

AUDIT/SignatureAutoUpgrading

This table contains the information of AUDIT signatures auto upgrading.

XML structure

```
<AUDIT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true. • false.	N/A
StartTime	The time that the system auto upgrading	N/A	Date Time. Format: HH:MM:SS.	N/A
Type	Type of the system auto upgrading	N/A	Enumeration: • 0—Week. • 1—periodic.	N/A
Day	Days	N/A	Unsigned integer: Value range: 0-6.	When Type is 0, the value range is 0 to 6. Otherwise, the value is invalid.

AUDIT/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<AUDIT>
  <SignatureFileInfos>
    <FileInfo>
      <FileStatus></FileStatus>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Description></Description>
    </FileInfo>
  </SignatureFileInfos>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	SignatureFileInfos
Table type	MultiSingle-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileStatus	signature file Status	Index	Enumeration: • 1—current. • 2—last. • 3—factory.	N/A
Version	Version of the signature file	N/A	String: case-insensitive. Length: 1 to 31 characters.	v.v(2.1)
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	Consider time-zone.
Description	DescriptionInformation	N/A	String: case-insensitive Length: 1 to 255 characters.	N/A

AUDIT/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<AUDIT>
  <UpdatePercentage>
    <Percentage></Percentage>
  </UpdatePercentage>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	UpdatePercentage
Table Type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	the percentage of update.	N/A	Unsigned integer:	When the value range is 0 to 100,it means in upgrading, Otherwise, means error.

AUDIT/KeywordGroupReferences

This table contains the information about the relationship between AUDIT's policys and keywordgroups.

XML structure

```
<AUDIT>
  <KeywordGroupReferences>
    <KeywordGroupReference>
      <KeywordGroupName></KeywordGroupName>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
    </KeywordGroupReference>
  </KeywordGroupReferences>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	KeywordGroupReferences
Table type	Multi-instance table
Row name	KeywordGroupReference
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A

AUDIT/AUDITSpecification

This table contains the AUDIT specification information.

XML structure

```
<AUDIT>
  <AUDITSpecification>
    <SupportDomain></SupportDomain>
  </AUDITSpecification>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	AUDITSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDomain	Whether the function of AUDIT domain is supported.	N/A	Boolean: • true. • false.	N/A

Contents

AUDIT 2
AUDIT/Policies 2
AUDIT/AppPolicyKeywordGroups 2
AUDIT/Keywords 2

AUDIT

AUDIT/Policies

Message	Explanation
Maximum number of policy already reached. 策略数量达到上限。	The maximum number of polices cannot be exceeded. 当配置策略时，策略数量不能超过上限。

AUDIT/AppPolicyKeywordGroups

Message	Explanation
The keyword group name cannot be a, an, or any. 关键字组名称不能是a，an，any。	The name of a keyword group cannot be a, an, or any. 当配置关键字组时，关键字组名不能是 a，an，any。
The keyword group is being used by a rule and cannot be deleted. 关键字组正在被某个规则引用，不能被删除。	A keyword group cannot be deleted when it is being used by a rule. 当删除关键字组时，这个关键字组正在被某个规则引用，不能被删除。
Maximum number of keyword groups already reached. 关键字组数量达到上限。	The maximum number of keyword groups cannot be exceeded. 当配置关键字组时，关键字组数量不能超过上限。
The keyword group already exists. 关键字组已经存在。	The keyword group already exists. 当配置关键字时，关键字组不能相同。

AUDIT/Keywords

Message	Explanation
Maximum number of keywords already reached. 关键字数量达到上限。	The maximum number of keywords cannot be exceeded. 当配置关键字时，关键字数量不能超过上限。

Contents

AUTONET 1
AUTONET/CloudBinding 1
XML structure 1
Table description 1
Columns 1
AUTONET/ActionToTC 1
XML structure 1
Table description 2
Columns 2
AUTONET/DeviceUpdate 2
XML structure 2
Table description 2
Columns 3

AUTONET

AUTONET/CloudBinding

This table contains information of binding all device to the oasis server.

XML structure

```
<AUTONET>
  <CloudBinding>
    <AutoBinding></AutoBinding>
  </CloudBinding>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	CloudBinding
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoBinding	Bind device to the oasis server.	N/A	This column must be empty.	

AUTONET/ActionToTC

This table contains information of actioning the device.

XML structure

```
<AUTONET>
  <ActionToTC>
    <RecordHistory></RecordHistory>
    <RecordRRMHistory></RecordRRMHistory>
    <SmoothBegin></SmoothBegin>
    <SmoothEnd></SmoothEnd>
  </ActionToTC>
```

```
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	ActionToTC
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecordHistory	Record history.	N/A	This column must be empty.	
RecordRRMHistory	Record RRM history.	N/A	This column must be empty.	
SmoothBegin	Smooth begin.	N/A	This column must be empty.	
SmoothEnd	Smooth end.	N/A	This column must be empty.	

AUTONET/DeviceUpdate

This table contains information of updating device.

XML structure

```
<AUTONET>
  <DeviceUpdate>
    <Update>
      <Id></Id>
      <NewestVersion></NewestVersion>
    </Update>
  </DeviceUpdate>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	DeviceUpdate
Table type	Multi-instance table

Row name	Update
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Member device ID	Index	Unsigned integer Value range: 0 to 255	
NewestVersion	Newest version	N/A	Boolean: • true. • false	

Contents

AUTONET 1
AUTONET/GlobalServiceTemplates 1
XML structure 1
Table description 1
Columns 1
AUTONET/GlobalVlan 2
XML structure 2
Table description 2
Columns 2
AUTONET/GlobalCfg 3
XML structure 3
Table description 3
Columns 3
AUTONET/SaveCfg 4
XML structure 4
Table description 4
Columns 4
AUTONET/InterconnectionCfg 4
XML structure 4
Table description 5
Columns 5
AUTONET/GlobalGateway 5
XML structure 5
Table description 6
Columns 6

AUTONET

AUTONET/GlobalServiceTemplates

This table contains global service template information.

XML structure

```
<AUTONET>
  <GlobalServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <Enable></Enable>
      <PskPassPhraseKey></PskPassPhraseKey>
    </Template>
  </GlobalServiceTemplates>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalServiceTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name	Index	String, letter, number or '-', '[',']','/','-'. The length is 1 to 63.
SSID	Identifier of service set.	N/A	String, the length is 1 to 32.
DefaultVlan	DefaultVlan.	N/A	Unsinged integer. Value range: 1 to 4094. The default value is 1.
HideSsid	Hiding status of SSID	N/A	Boolean: • true—enabled.

Column name	Column description	Column type	Data type and restrictions
			• false—disabled, default value.
Enable	Status of service template.	N/A	Boolean: true or 1 : enabled. false or 0 : disabled. The default value is false.
PskPassPhrase Key	Pre-shared key.	N/A	String.

AUTONET/GlobalVlan

This table contains global vlan information.

XML structure

```
<AUTONET>
  <GlobalVlan>
    <Vlan>
      <ID></ID>
      <Description></Description>
   </Vlan>
  </GlobalVlan>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalVlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	VLAN description	N/A	String. Length: 1 to 255 characters.	Example: VLAN 0001.

AUTONET/GlobalCfg

This table contains global configuration.

XML structure

```
<AUTONET>
  <GlobalCfg>
    <Cfg>
      <IgnoreUpgradeNotes></IgnoreUpgradeNotes>
      <GatewaySerialID></GatewaySerialID>
      <IntelligentOptimization></IntelligentOptimization>
      <RegionCode></RegionCode>
   </Cfg>
  </GlobalCfg>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalCfg
Table type	Single-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreUpgrade Notes	Ignore version upgrade notes	N/A	Boolean: • **true** • **false**	N/A
GatewaySerialI D	Gateway serial ID.	N/A	String, uppercase. Length: 1 to 63 characters.	N/A
IntelligentOptimi zation	Intelligent optimization	N/A	Boolean: • **true** • **false**	N/A
RegionCode	Region code	N/A	Unsigned short.	Conform to ISO 3166 standard.

AUTONET/SaveCfg

This table contains information of save configration.

XML structure

```
<AUTONET>
  <SaveCfg>
    <Cfg>
      <Save></Save>
    <Cfg>
  </SaveCfg>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	SaveCfg
Table type	Single-instance table
Row name	Cfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Save	Save configuration	N/A	Boolean: • **True**	N/A

AUTONET/InterconnectionCfg

This table contains interconnection configuration.

XML structure

```
<AUTONET>
  <InterconnectionCfg>
    <Cfg>
      <IfName></IfName>
   </Cfg>
  </InterconnectionCfg>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	InterconnectionCfg
Table type	Single-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

AUTONET/GlobalGateway

This table contains global gateway information.

XML structure

```
<AUTONET>
  <GlobalGateway>
    <Cfg>
      <VlanID></VlanID>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4Mask></Ipv4Mask>
      </Ipv4>
      <IpPool>
        <NetworkIpv4Address></NetworkIpv4Address>
        <NetworkIpv4Mask></NetworkIpv4Mask>
        <GatewayIpv4Address></GatewayIpv4Address>
        <DNSIpv4Address></DNSIpv4Address>
        <LeaseDay></LeaseDay>
        <LeaseHour></LeaseHour>
        <LeaseMinute></LeaseMinute>
        <LeaseSecond></LeaseSecond>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
```

```
      </IpPool>
    </Cfg>
  </GlobalGateway>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalGateway
Table type	Multi-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Ipv4	IPv4 address of the VLAN interface	Data structure	Members include: • Ipv4Address. • Ipv4Mask.	You must configure both the IP address and mask if the operation is **merge**, **create**, or **replace**. You can configure only the IP address if the operation is **delete** or **remove**.
Ipv4Address	IPv4 address of the VLAN interface	N/A	String, dotted decimal notation.	Example: 1.1.1.1. When you perform the **merge**, **create**, or **replace** operation, the system creates the VLAN interface automatically if the VLAN interface has not been created.
Ipv4Mask	IPv4 address mask	N/A	String, dotted decimal notation.	Example: 255.255.255.0.
IpPool	DHCP server IP pool	Data structure	Members include: • NetworkIpv4Address • NetworkIpv4Mask • GatewayIpv4Address • DNSIpv4Address • StartIpv4Address • EndIpv4Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• LeaseDay • LeaseHour • LeaseMinute • LeaseSecond	
NetworkIpv4Address	Primary subnet for dynamic allocation	N/A	String, dotted decimal notation.	Modifying or removing the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
GatewayIpv4Address	Gateway address	N/A	String, dotted decimal notation.	Example: 1.1.1.1
DNSIpv4Address	DNS server address	N/A	String, dotted decimal notation	Example: 1.1.1.1.
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	The address range specified must be within the subnet. The addresses out of the address range cannot be assigned. It must be configured together with the EndIpv4Address column.
EndIpv4Address	End IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	It must be configured together with the StartIpv4Address column.
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365. Default: 1.	LeaseDay, LeaseHour, LeaseMinute, LeaseSecond must be configured together. Cannot be configured together with LeaseUnlimit.
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23. Default: 0.	N/A
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A

fContents

AUTONET 1

AUTONET/GlobalServiceTemplates 1
XML structure 1
Table description 1
Columns 1
AUTONET/GlobalVlan 2
XML structure 2
Table description 2
Columns 2
AUTONET/GlobalCfg 3
XML structure 3
Table description 3
Columns 3
AUTONET/NetworkConnectionStatus 4
XML structure 4
Table description 4
Columns 4
AUTONET/CloudConnectionStatus 4
XML structure 4
Table description 5
Columns 5
AUTONET/PanelInformation 5
XML structure 5
Table description 5
Columns 6
AUTONET/AllStations 6
XML structure 6
Table description 6
Columns 7
AUTONET/OnlineStations 7
XML structure 8
Table description 8
Columns 8
AUTONET/OnlineHistory 9
XML structure 9
Table description 10
Columns 10
AUTONET/OnlineHistoryByAP 10
XML structure 10
Table description 10
Columns 11
AUTONET/InterruptionHistory 11
XML structure 11
Table description 11
Columns 12
AUTONET/InterruptionHistoryByAP 12
XML structure 12
Table description 12
Columns 13
AUTONET/InterconnectionCfg 13
XML structure 13
Table description 14
Columns 14
AUTONET/DeviceUpdateInfomation 14
XML structure 14
Table description 14
Columns 15

AUTONET/DeviceUpdateHistory ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 16
AUTONET/GlobalGateway ····· 16
XML structure ····· 16
Table description ····· 17
Columns ····· 17

`

AUTONET

AUTONET/GlobalServiceTemplates

This table contains global service template information.

XML structure

```
<AUTONET>
  <GlobalServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <Enable></Enable>
      <PskSelected></PskSelected>
    </Template>
  </GlobalServiceTemplates>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalServiceTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.	
SSID	Identifier of service set.	N/A	String, the length is 1 to 32.	
DefaultVlan	DefaultVlan.	N/A	Unsinged integer. Value range: 1 to 4094. The default value is 1.	

Column name	Column description	Column type	Data type and restrictions	Remarks
HideSsid	Hiding status of SSID	N/A	Boolean: • true—enabled. • false—disabled, default value.	
Enable	Status of service template.	N/A	Boolean: true or 1 : enabled. false or 0 : disabled. The default value is false.	
PskSelected	Whether the psk is selected	N/A	Boolean: • true. • false, default value.	

AUTONET/GlobalVlan

This table contains global vlan information.

XML structure

```
<AUTONET>
  <GlobalVlan>
    <Vlan>
      <ID></ID>
      <Description></Description>
   </Vlan>
  </GlobalVlan>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalVlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	VLAN description	N/A	String. Length: 1 to 255 characters.	Example: VLAN 0001.

AUTONET/GlobalCfg

This table contains global configuration.

XML structure

```
<AUTONET>
  <GlobalCfg>
    <Cfg>
      <IgnoreUpgradeNotes></IgnoreUpgradeNotes>
      <GatewaySerialID></GatewaySerialID>
      <IntelligentOptimization></IntelligentOptimization>
      <RegionCode></RegionCode>
   </Cfg>
  </GlobalCfg>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalCfg
Table type	Single-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreUpgrade Notes	Ignore version upgrade notes	N/A	Boolean: • **true** • **false**	N/A
GatewaySerialI D	Gateway serial ID.	N/A	String, uppercase. Length: 1 to 63 characters.	N/A
IntelligentOptimi	Intelligent	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
zation	optimization		• **true** • **false**	
RegionCode	Region code	N/A	Unsigned short.	Conform to ISO 3166 standard.

AUTONET/NetworkConnectionStatus

This table contains device connect network status information.

XML structure

```
<AUTONET>
  <NetworkConnectionStatus>
    <Status></Status>
  </NetworkConnectionStatus>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	NetworkConnectionStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	whether the device connected to the network	N/A	Boolean: • **true** • **false**	N/A

AUTONET/CloudConnectionStatus

This table contains device connect cloud status information.

XML structure

```
<AUTONET>
  <CloudConnectionStatus>
```

```
    <Status></Status>
  </CloudConnectionStatus>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	CloudConnectionStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	whether the device connected to the cloud	N/A	Boolean: • **true** • **false**	N/A

AUTONET/PanelInformation

This table contains panel information.

XML structure

```
<AUTONET>
  <PanelInformation>
    <Panel>
      <Information></Information>
   </Panel>
  </PanelInformation>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	PanelInformation
Table type	Single-instance table
Row name	Panel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Information	Board information	N/A	String.	Document content

AUTONET/AllStations

This table contains all station information.

XML structure

```
<AUTONET>
  <AllStations>
    <Station>
      <MacAddress></MacAddress>
      <Status></Status>
      <Ipv4Address></Ipv4Address>
      <OnlineMoment></OnlineMoment>
      <OfflineMoment></OfflineMoment>
      <ApName></ApName>
      <TCID></TCID>
      <SSID></SSID>
      <ClassifyDeviceType></ClassifyDeviceType>
      <WirelessMode></WirelessMode>
      <TotalOnlineCnt></TotalOnlineCnt>
      <TotalOnlineTime></TotalOnlineTime>
    </Station>
  </AllStations>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	AllStations
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	
Status	Station status	N/A	Enumeration: 0: Online. 1: Offline.	
Ipv4Address	IPv4 address	N/A	Ipv4Address	
OnlineMoment	The time of the station online in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2022-05-07T09:35:07
OfflineMoment	The time of the station offline in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2022-05-08T09:35:07
ApName	AP name.	N/A	String, case-sensitive. Length: 1 to 64 characters.	
TCID	Member device ID	N/A	Unsigned integer Value range: 0 to 255	
SSID	Identifier of service set.	N/A	String, the length is 1 to 32.	
ClassifyDeviceType	Classify device type		String, the length is 1 to 16.	
WirelessMode	Wireless mode	N/A	Enumeration. 1 : 802.11b 2 : 802.11a 4 : 802.11g 8 : 802.11gn 16 : 802.11an 32 : 802.11gac 64 : 802.11ac 128：802.11gax 256：802.11ax	• 802.11a(5GHz) • 802.11an(5GHz) • 802.11ac(5GHz) • 802.11ax(5GHz) • 其他为2.4GHz
TotalOnlineCnt	The station total online count	N/A	Unsigned integer	
TotalOnlineTime	The station total online duration.	N/A	Unsigned integer	

AUTONET/OnlineStations

This table contains online station information.

XML structure

```
<AUTONET>
  <OnlineStations>
    <Station>
      <MacAddress></MacAddress>
      <SSID></SSID>
      <Ipv4Address></Ipv4Address>
      <ApName></ApName>
      <TCID></TCID>
      <WirelessMode></WirelessMode>
      <ClassifyDeviceType></ClassifyDeviceType>
      <OnlineMoment></OnlineMoment>
      <OnlineTime></OnlineTime>
      <TotalOnlineCnt></TotalOnlineCnt>
      <TotalOnlineTime></TotalOnlineTime>
    </Station>
  </OnlineStations>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	OnlineStations
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	
SSID	Identifier of service set.	N/A	String, the length is 1 to 32.	
Ipv4Address	IPv4 address	N/A	Ipv4Address	
ApName	AP name.	N/A	String, case-sensitive. Length: 1 to 64 characters.	
TCID	Member device ID	N/A	Unsigned integer Value range: 0 to 255	

Column name	Column description	Column type	Data type and restrictions	Remarks
WirelessMode	Wireless mode	N/A	Enumeration. 1 : 802.11b 2 : 802.11a 4 : 802.11g 8 : 802.11gn 16 : 802.11an 32 : 802.11gac 64 : 802.11ac 128：802.11gax 256：802.11ax	• 802.11a(5GHz) • 802.11an(5GHz) • 802.11ac(5GHz) • 802.11ax(5GHz) • 其他为2.4GHz
ClassifyDeviceType	Classify device type		String, the length is 1 to 16.	
OnlineMoment	The time of the station online in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2022-05-09T09:35:07
OnlineTime	The station online duration last time.	N/A	Unsigned integer	
TotalOnlineCnt	The station total online count	N/A	Unsigned integer	
TotalOnlineTime	The station total online duration.	N/A	Unsigned integer	

AUTONET/OnlineHistory

This table contains online AP or station history information.

XML structure

```
<AUTONET>
  <OnlineHistory>
    <History>
      <Time></Time>
      <APCount></APCount>
      <StationCount></StationCount>
    </History>
  </OnlineHistory>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	OnlineHistory
Table type	Multi-instance table
Row name	History
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	History time	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2022-05-07T10:05:00 record every 5 minutes
APCount	AP count	N/A	Unsigned integer	
StationCount	Station count	N/A	Unsigned integer	

AUTONET/OnlineHistoryByAP

This table contains online station history information by AP.

XML structure

```
<AUTONET>
  <OnlineHistoryByAP>
    <History>
      <Time></Time>
      <StationCount></StationCount>
    </History>
  </OnlineHistoryByAP>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	OnlineHistoryByAP
Table type	Multi-instance table

Row name	History
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	History time	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T10:05:00 record every 5 minutes
StationCount	Station count	N/A	Unsigned integer	

AUTONET/InterruptionHistory

This table contains interruption radio count or interruption bss count history information.

XML structure

```
<AUTONET>
  <InterruptionHistory>
    <History>
      <Time></Time>
      <InterfRadioCnt></InterfRadioCnt>
      <AdjChlInterfRadioCnt></AdjChlInterfRadioCnt>
      <OtherInterfBssCnt></OtherInterfBssCnt>
      <OtherAdjChlInterfBssCnt></OtherAdjChlInterfBssCnt>
    </History>
  </InterruptionHistory>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	InterruptionHistory
Table type	Multi-instance table
Row name	History
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	History time	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T10:05:00 record every 30 minutes
InterfRadioCnt	Interruption radio count with same channel in the intranet.	N/A	Unsigned short	N/A
AdjChlInterfRadioCnt	Interruption radio count with adjacent channel in the intranet.	N/A	Unsigned short	N/A
OtherInterfBssCnt	Interruption BSS count with same channel out of the intranet.	N/A	Unsigned short	N/A
OtherAdjChlInterfBssCnt	Interruption BSS count with adjacent channel out of the intranet.	N/A	Unsigned short	N/A

AUTONET/InterruptionHistoryByAP

This table contains interruption radio count or interruption bss count history information by AP.

XML structure

```
<AUTONET>
  <InterruptionHistoryByAP>
    <History>
      <Time></Time>
      <RadioID></RadioID>
      <InterfRadioCnt></InterfRadioCnt>
      <AdjChlInterfRadioCnt></AdjChlInterfRadioCnt>
      <OtherInterfBssCnt></OtherInterfBssCnt>
      <OtherAdjChlInterfBssCnt></OtherAdjChlInterfBssCnt>
    </History>
  </InterruptionHistoryByAP>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	InterruptionHistoryByAP

Table type	Multi-instance table
Row name	History
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	History time	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T10:05:00 record every 30 minutes
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
InterfRadioCnt	Interruption radio count with same channel in the intranet.	N/A	Unsigned short	N/A
AdjChlInterfRadioCnt	Interruption radio count with adjacent channel in the intranet.	N/A	Unsigned short	N/A
OtherInterfBssCnt	Interruption BSS count with same channel out of the intranet.	N/A	Unsigned short	N/A
OtherAdjChlInterfBssCnt	Interruption BSS count with adjacent channel out of the intranet.	N/A	Unsigned short	N/A

AUTONET/InterconnectionCfg

This table contains interconnection configuration.

XML structure

```
<AUTONET>
  <InterconnectionCfg>
    <Cfg>
      <IfName></IfName>
   </Cfg>
  </InterconnectionCfg>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	InterconnectionCfg
Table type	Single-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

AUTONET/DeviceUpdateInfomation

This table contains information of device update infomation.

XML structure

```
<AUTONET>
  <DeviceUpdateInfomation>
    <Update>
      <Id></Id>
      <Status></Status>
      <ResultType></ResultType>
      <FailedReason></FailedReason>
    </Update>
  </DeviceUpdateInfomation>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	DeviceUpdateInfomation
Table type	Multi-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Member device ID	Index	Unsigned integer Value range: 0 to 255	
Status	Device update status.	N/A	Enumeration: 1: Downloading. 2: Bootloading 3: Rebooting 4: Updated.	N/A
ResultType	Device update result.	N/A	Enumeration: 1: Successful. 2: Failed.	N/A
FailedReason	Device update failed reason.	N/A	String, the length is 1 to 32.	N/A

AUTONET/DeviceUpdateHistory

This table contains information of device update history.

XML structure

```
<AUTONET>
  <DeviceUpdateHistory>
    <Update>
      <Id></Id>
      <Time></Time>
      <ResultType></ResultType>
      <FailedReason></FailedReason>
    </Update>
  </DeviceUpdateHistory>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	DeviceUpdateInfomation
Table type	Multi-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Member device ID	Index	Unsigned integer Value range: 0 to 255	
Time	Device update timer.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2022-05-09T09:35:07
ResultType	Device update result.	N/A	Enumeration: 1: Successful. 2: Failed.	N/A
FailedReason	Device update failed reason.	N/A	String, the length is 1 to 32.	N/A

AUTONET/GlobalGateway

This table contains global gateway information.

XML structure

```
<AUTONET>
  <GlobalGateway>
    <Cfg>
      <VlanID></VlanID>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4Mask></Ipv4Mask>
      </Ipv4>
      <IpPool>
        <NetworkIpv4Address></NetworkIpv4Address>
        <NetworkIpv4Mask></NetworkIpv4Mask>
        <GatewayIpv4Address></GatewayIpv4Address>
        <DNSIpv4Address></DNSIpv4Address>
        <LeaseDay></LeaseDay>
        <LeaseHour></LeaseHour>
        <LeaseMinute></LeaseMinute>
        <LeaseSecond></LeaseSecond>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </IpPool>
    </Cfg>
  </GlobalGateway>
</AUTONET>
```

Table description

Item	Description
Feature name	AUTONET
Table name	GlobalGateway
Table type	Multi-instance table
Row name	Cfg
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Ipv4	IPv4 address of the VLAN interface	Data structure	Members include: • Ipv4Address. • Ipv4Mask.	You must configure both the IP address and mask if the operation is **merge**, **create**, or **replace**. You can configure only the IP address if the operation is **delete** or **remove**.
Ipv4Address	IPv4 address of the VLAN interface	N/A	String, dotted decimal notation.	Example: 1.1.1.1. When you perform the **merge**, **create**, or **replace** operation, the system creates the VLAN interface automatically if the VLAN interface has not been created.
Ipv4Mask	IPv4 address mask	N/A	String, dotted decimal notation.	Example: 255.255.255.0.
IpPool	DHCP server IP pool	Data structure	Members include: • NetworkIpv4Address • NetworkIpv4Mask • GatewayIpv4Address • DNSIpv4Address • StartIpv4Address • EndIpv4Address • LeaseDay • LeaseHour • LeaseMinute • LeaseSecond	N/A
NetworkIpv4Ad	Primary	N/A	String, dotted decimal	Modifying or removing

Column name	Column description	Column type	Data type and restrictions	Remarks
dress	subnet for dynamic allocation		notation.	the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
GatewayIpv4Address	Gateway address	N/A	String, dotted decimal notation.	Example: 1.1.1.1
DNSIpv4Address	DNS server address	N/A	String, dotted decimal notation	Example: 1.1.1.1.
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	The address range specified must be within the subnet. The addresses out of the address range cannot be assigned. It must be configured together with the EndIpv4Address column.
EndIpv4Address	End IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	It must be configured together with the StartIpv4Address column.
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365. Default: 1.	LeaseDay, LeaseHour, LeaseMinute, LeaseSecond must be configured together. Cannot be configured together with LeaseUnlimit.
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23. Default: 0.	N/A
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A

Contents

AVC 1
AVC/MoveTrafficPolicyRule 1
XML structure 1
Table description 1
Columns 1
AVC/BTResetLearn 1
XML structure 1
Table description 2
Columns 2
AVC/CommitAccelerate 3
XML structure 3
Table description 3
Columns 3

AVC

AVC/MoveTrafficPolicyRule

This table contains information about the AVC's rule number information.

XML structure

```
<AVC>
  <MoveTrafficPolicyRule>
    <Move>
      <RuleNumber></RuleNumber>
      <NextRuleNumber></NextRuleNumber>
    </Move>
  </MoveTrafficPolicyRule>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	MoveTrafficPolicyRule
Table type	Multi-instance table
Row name	Move
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
NextRuleNumber	Next rule's rule number	N/A	Unsigned integer: 0 to 4294967295	Single value

AVC/BTResetLearn

This table contains information about the AVC traffic policy's Control profile and IP address.

XML structure

```
<AVC>
  <BTResetLearn>
```

```
    <ResetLearn>
      <Chassis></Chassis>
      <Slot></Slot>
      <CpuID></CpuID>
      <IpAddr></IpAddr>
      <RuleName></RuleName>
      <ProName></ProName>
      <IpType></IpType>
    </ResetLearn>
  </BTResetLearn>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	BTResetLearn
Table type	Multi-instance table
Row name	ResetLearn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer: Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer: Value range: 0 to 65535.	N/A
CpuID	Cpu ID	Index	Unsigned integer: Value range: 0 to 7.	N/A
IpAddr	IPv4 or IPv6 address	index	String, case-insensitive. Length: 1 to 45 characters.	N/A
RuleName	Rule Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProName	Profile Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpType	IP type	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	N/A

AVC/CommitAccelerate

This table contains information about manually activating rule matching acceleration.

XML structure

```
<AVC>
   <CommitAccelerate>
     <Commit>
     </Commit>
   </CommitAccelerate>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	CommitAccelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Commit	Manually activates rule matching acceleration.	N/A	This column must be empty.	Required.

Contents

AVC 1
AVC/TrafficPolicyRules 1
XML structure 1
Table description 1
Columns 2
AVC/RuleOptions 2
XML structure 2
Table description 3
Columns 3
AVC/TrafficPolicyProfiles 3
XML structure 3
Table description 4
Columns 5
AVC/ RuleJsonOptions 7
XML structure 7
Table description 7
Columns 8
AVC/FullFlowMonitorSwitch 8
XML structure 8
Table description 8
Columns 9
AVC/MatchPublicIpSwitch 9
XML structure 9
Table description 9
Columns 10

AVC

AVC/TrafficPolicyRules

This table contains information about the AVC's rule information.

XML structure

```
<AVC>
  <TrafficPolicyRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <VRF></VRF>
      <Action>
        <RuleAction></RuleAction>
        <ProfileName></ProfileName>
      </Action>
      <ModelId></ModelId>
    </Rule>
  </TrafficPolicyRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule number is the match order.
ParentRuleNumber	Parent Rule‘s rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	Optional
RuleName	name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name cannot be same with its siblings. Mandatory
Enable	Set this value to true to disable the rule	N/A	Boolean: • true. • false.	Optional
TimeRange	Time Range Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional, Single value
Ipv6FlowLabelValue	IPv6 header’s flow label value	N/A	Unsigned integer: Value range: 0 to 2.	Optional
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 0 to 63.	Optional
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.
ProfileName	TrafficPolify profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional
ModelId	Model rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	Optional
RuleAction	Rule action	N/A	Unsigned integer: Value range: 1 to 3.	Optional

AVC/RuleOptions

This table contains some multiple information about the AVC’s rule option.

XML structure

```
<AVC>
  <RuleOptions>
    <Option>
      <RuleNumber></RuleNumber>
      <OptionType></OptionType>
      <OptionVal></OptionVal>
    </Option>
  </RuleOptions>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	RuleOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSets. • 4—DestAddressSets. • 5—Users. • 6—UserGroups. • 7—Applications. • 8—AppGroups. • 9—Services. • 10—Dscp.	N/A
OptionVal	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63characters (for OptionTypes 7 and 8). Length: 1 to 31 characters (for OptionTypes 1 through 4, and OptionType 9). Length: 1 to 100 characters (for OptionType 10). Length: 1 to 480 characters (for OptionTypess 5 and 6).	Values of OptionTypes 5 and 6 are in Json format.

AVC/TrafficPolicyProfiles

This table contains information about the AVC traffic policy's Control profiles.

XML structure

```
<AVC>
  <TrafficPolicyProfiles>
```

```
    <Profile>
      <ProfileNumber></ProfileNumber>
      <ProfileName></ProfileName>
      <ReferenceMode></ReferenceMode>
      <IpAverageEnable></IpAverageEnable>
      <TotalMaxKbps></TotalMaxKbps>
      <TotalGuaranteedKbps></TotalGuaranteedKbps>
      <TotalGuaranteedKbpsPerIP></TotalGuaranteedKbpsPerIP>
      <TotalGuaranteedKbpsPerUser></TotalGuaranteedKbpsPerUser>
      <TotalMaxKbpsPerIP></TotalMaxKbpsPerIP>
      <TotalMaxKbpsPerUser></TotalMaxKbpsPerUser>
      <DnGuaranteedKbpsPerIP></DnGuaranteedKbpsPerIP>
      <UpGuaranteedKbpsPerIP></UpGuaranteedKbpsPerIP>
      <DnGuaranteedKbpsPerUser></DnGuaranteedKbpsPerUser>
      <UpGuaranteedKbpsPerUser></UpGuaranteedKbpsPerUser>
      <DnMaxKbps></DnMaxKbps>
      <UpMaxKbps></UpMaxKbps>
      <DnGuaranteedKbps></DnGuaranteedKbps>
      <UpGuaranteedKbps></UpGuaranteedKbps>
      <DnMaxKbpsPerIP></DnMaxKbpsPerIP>
      <UpMaxKbpsPerIP></UpMaxKbpsPerIP>
      <DnMaxKbpsPerUser></DnMaxKbpsPerUser>
      <UpMaxKbpsPerUser></UpMaxKbpsPerUser>
      <Priority></Priority>
      <BandwidthThresholdEnable></BandwidthThresholdEnable>
      <BandwidthThresholdMinValue></BandwidthThresholdMinValue>
      <BandwidthThresholdMaxValue></BandwidthThresholdMaxValue>
      <BTLearningEnable></BTLearningEnable>
      <BTLearningTime></BTLearningTime>
      <BTLearningtoleranceLowValue></BTLearningtoleranceLowValue>
      <BTLearningtoleranceUpValue></BTLearningtoleranceUpValue>
      <RemarkDSCP></RemarkDSCP>
      <MaxConnNum></MaxConnNum>
      <MaxConnNumPerIP></MaxConnNumPerIP>
      <MaxConnNumPerUser></MaxConnNumPerUser>
      <MaxConnRate></MaxConnRate>
      <MaxConnRatePerIP></MaxConnRatePerIP>
      <MaxConnRatePerUser></MaxConnRatePerUser>
      <TCPMSS></TCPMSS>
      <MonthLimitValue></MonthLimitValue>
    </Profile>
  </TrafficPolicyProfiles>
</AVC>
```

Table description

Item	Description
Feature name	AVC

Table name	TrafficPolicyProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileNumber	Profile number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule option is the match order.
ProfileName	Profile Name, cannot be same with other profiles	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReferenceMode	Rule shared mode	N/A	Unsigned integer: • 0—per-rule. • 1—rule-shared.	N/A
IpAverageEnable	Ip average enable	N/A	Boolean: • true. • false.	N/A
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpGuaranteedKbpsPerUse	Up guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
r				
DnGuaranteedKbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
UpGuaranteedKbps	Upstream guaranteed Kbps	N/A	Unsigned integer: Value range:8 to 1,000,000,000.	Optional
DnMaxKbps	Downstream Max Kbps	N/A	Unsigned integer: Value range:8 to 1,000,000,000.	Optional
UpMaxKbps	Upstream Max Kbps	N/A	Unsigned integer: Value range:8 to 1,000,000,000.	Optional
DnMaxKbpsPerIP	Downstream Max Kbps per iP	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
UpMaxKbpsPerIP	Upstream Max Kbps Per IP	N/A	Unsigned integer: Value range:8 to 1,000,000,000.	Optional. Per-IP and Per-User are exclusive.
DnMaxKbpsPerUser	Downstream Max Kbps per User	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
UpMaxKbpsPerUser	Upstream Max Kbps PerUser	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
Priority	Stream Priority leve	N/A	Unsigned integer: Value range: 1 to 7.	When the outbound bandwidth is limited, the priority of the stream is higher, the stream is prior to pass the interface.
BandwidthThresholdEnable	Per-ip bandwidth threshold detect function switch	N/A	Boolean: • true. • false.	Default is false.
BandwidthThresholdMinValue	Downstream Max Kbps threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
BandwidthThresholdMaxValue	Upstream Max Kbps threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
BTLearningEnable	Learn funtion switch	N/A	Boolean: • true. • false.	Default is false.
BTLearningTime	Learn time minutes	N/A	Unsigned integer: Value range: 1 to 10080.	Default is 1440.
BTLearningtoleranceLowValue	Downstream Max learn tolerance	N/A	Unsigned integer: Value range: 0 to 4,000.	Optional
BTLearningtoleranceUpValue	Upstream Max learn tolerance	N/A	Unsigned integer: Value range: 0 to 4,000.	Optional
RemarkDSC	Dscp value	N/A	Unsigned integer:	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
P			Value range: 0 to 63.	
MaxConnNum	Max up connections	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional Per-IP and Per-User are exclusive.
MaxConnNumPerUser	Max up connections per User	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional
MaxConnRate	Max up connections rate	N/A	Unsigned integer: Value range: 1 to 12,000,000 times per second.	Optional
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: Value range: 1 to 12,000,000 times per second.	Optional Per-IP and Per-User are exclusive.
MaxConnRatePerUser	Max up connections rate per user	N/A	Unsigned integer: Value range: 1 to 12,000,000 times per second.	Optional
TCPMSS	TCP MSS value	N/A	Unsigned integer: Value range: 128 to 9158.	Optional
MonthLimitValue	Per-IP monthly rate limit value	N/A	Unsigned integer: Value range: 1 to 1000000000	Optional

AVC/ RuleJsonOptions

This table contains information about the AVC's rule options information.

XML structure

```
<AVC>
  <RuleJsonOptions>
    </OptionJson>
      <RuleJsonNumber></RuleJsonNumber>
      <OptionJsonType></OptionJsonType>
      <OptionJsonVal></OptionJsonVal>
    </OptionJson>
  </RuleJsonOptions>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	RuleJsonOptions

Table type	Multi-instance table
Row name	OptionJson
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleJsonNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule number is the match order.
OptionJsonType	Type of the configuration	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSets. • 4—DestAddressSets. • 5—Users. • 6—UserGroups. • 7—Applications. • 8—AppGroups. • 9—Services. • 10—Dscp. • 14—Terminal. • 15—TerminalGroups.	N/A
OptionJsonVal	Json values of the special type configurations	Index	String, case-insensitive. Length: 1 to 65535 characters.	N/A

AVC/FullFlowMonitorSwitch

This table contains information about full flow monitoring.

XML structure

```
<AVC>
  <FullFlowMonitorSwitch>
    <MonitorSwitch>
      <Switch></Switch>
    </MonitorSwitch>
  </FullFlowMonitorSwitch>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	FullFlowMonitorSwitch
Table type	Multi-instance table
Row name	MonitorSwitch
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switch	Control flow monitoring	N/A	Enumeration: • 0—Monitors only TCP, UDP, and ICMP packets. • 1—Monitors all packets.	N/A.

AVC/MatchPublicIpSwitch

This table contains information about enabling NAT-translated source IP address matching.

XML structure

```
<AVC>
  <MatchPublicIpSwitch>
    <SourceIpSwitch></SourceIpSwitch>
    <DestinationIpSwitch></DestinationIpSwitch>
  </MatchPublicIpSwitch>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	MatchPublicIpSwitch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIpSwitch	Match the NAT-translated source IP address.	N/A	Boolean: • true—Yes • false—No	N/A.
DestinationIpSwitch	Match the NAT-translated destination IP address.	N/A	Boolean: • true—Yes • false—No	N/A.

Contents

AVC 1

AVC/TrafficParentRules 1
XML structure 1
Table description 1
Columns 1
AVC/TrafficPolicyChildRules 2
XML structure 3
Table description 3
Columns 3
AVC/AvcRuleOptions 4
XML structure 4
Table description 5
Columns 5
AVC/TrafficPolicyQuery 5
XML structure 5
Table description 6
Columns 7
AVC/TrafficQueParentRule 9
XML structure 9
Table description 9
Columns 9
AVC/TrafficPolicyRules 10
XML structure 10
Table description 11
Columns 11
AVC/RuleOptions 12
XML structure 12
Table description 12
Columns 12
AVC/TrafficPolicyProfiles 13
XML structure 13
Table description 14
Columns 14
AVC/AVCSpecification 17
XML structure 17
Table description 17
Columns 17
AVC/FullFlowMonitorSwitch 17
XML structure 17
Table description 18
Columns 18
AVC/TrafficPolicyMonthlmt 18
XML structure 18
Table description 19
Columns 19
AVC/TrafficPolicyMonthlmtDataNumber 19
XML structure 19
Table description 20
Columns 20
AVC/BTLearnInfoPerIP 20
XML structure 20
Table description 21
Columns 21
AVC/MatchPublicIpSwitch 23
XML structure 23
Table description 23
Columns 23

AVC

AVC/TrafficParentRules

This table contains information about parent traffic rules.

XML structure

```
<AVC>
  <TrafficParentRules>
    <Rule>
      <Position></Position>
      <RuleNumber></RuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <TotalCount></TotalCount>
      <FirstSonRuleNum></FirstSonRuleNum>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <ProfileName></ProfileName>
      <RuleAction></RuleAction>
      <VRF></VRF>
    </Rule>
  </TrafficParentRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficParentRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Position	Record the Number	Index	Unsigned integer: Value range: 0 to 200.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to65535 characters. Content: JSON array.	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.
TotalCount	Total number of rules	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
FirstSonRuleNum	Return the number of the first child rule	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: • true. • false.	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Ipv6FlowLabelValue	IPv6 header's flow label value	N/A	Unsigned integer: Value range: 0 to 2.	N/A
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 0 to 63.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleAction	Rule action	N/A	Unsigned integer: Value range: 0 to 3.	N/A
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

AVC/TrafficPolicyChildRules

This table contains information about child traffic rules.

XML structure

```
<AVC>
  <TrafficPolicyChildRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <FirstSonRuleNum></FirstSonRuleNum>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <VRF></VRF>
      <RuleAction></RuleAction>
      <ProfileName></ProfileName>
      <OptionContent></OptionContent>
    </Rule>
  </TrafficPolicyChildRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyChildRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
ParentRuleNumber	Number of the parent rule	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FirstSonRuleNum	Return the number of the first child rule	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to	N/A	Boolean: • true.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enable the rule		• false.	
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Ipv6FlowLabelValue	IPv6 header's flow label value	N/A	Unsigned integer: Value range: 0 to 2.	N/A
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 0 to 63.	N/A
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
RuleAction	Rule action	N/A	Unsigned integer: Value range: 0 to 3.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 10240. Content: JSON array.	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.

AVC/AvcRuleOptions

This table contains match criterion types.

XML structure

```
<AVC>
  <AvcRuleOptions>
    <AvcOption>
      <AvcRuleNumber></AvcRuleNumber>
      <AvcSeqNum></AvcSeqNum>
      <AvcOptionType></AvcOptionType>
      <AvcOptionVal></AvcOptionVal>
    </AvcOption>
  </AvcRuleOptions>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	AvcRuleOptions
Table type	Multi-instance table
Row name	AvcOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AvcRuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
AvcSeqNum	Sequence numbers for values of a match criterion	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
AvcOptionType	Match criterion type	N/A	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSets. • 4—DestAddressSets. • 5—Users. • 6—UserGroups. • 7—Applications. • 8—AppGroups. • 9—Services. • 10—Dscp. • 14—Terminal. • 15—TerminalGroups.	N/A
AvcOptionVal	Match criterion value	N/A	String, case-insensitive. Length: 1 to65535 characters . Content: JSON array. Such as: [Optionval1,optionval2,…].	A JSON array contains strings of 1 to 64 characters.

AVC/TrafficPolicyQuery

This table contains information about each match criterion type.

XML structure

```
<AVC>
  <TrafficPolicyQuery>
```

```
    <RuleQuery>
      <UserID></UserID>
      <Position></Position>
      <RuleNameFilter></RuleNameFilter>
      <EnableFilter></EnableFilter>
      <ProfileNameFilter></ProfileNameFilter>
      <TimeRangeFilter></TimeRangeFilter>
      <SrcZoneFilter></SrcZoneFilter>
      <DestZoneFilter></DestZoneFilter>
      <SrcAddrSetFilter></SrcAddrSetFilter>
      <DestAddrSetFilter></DestAddrSetFilter>
      <UserFilter></UserFilter>
      <UserGroupFilter></UserGroupFilter>
      <ApplicationFilter></ApplicationFilter>
      <AppGroupFilter></AppGroupFilter>
      <ServiceFilter></ServiceFilter>
      <DscpFilter></DscpFilter>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleNumber></RuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <TotalCount></TotalCount>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
      <VRF><VRF>
      <IsExistSonFlag></IsExistSonFlag>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <Ipv6ExtensionHeaderFilter></Ipv6ExtensionHeaderFilter>
      <DomainFilter></DomainFilter>
      <TerminalFilter></TerminalFilter>
      <TerminalGroupFilter></TerminalGroupFilter>
      <RuleAction></RuleAction>
    </RuleQuery>
  </TrafficPolicyQuery>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyQuery
Table type	Multi-instance table
Row name	RuleQuery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	Record the user ID	Index	Unsigned integer: Value range: 1 to 65535.	N/A
Position	Record the last query position	Index	Unsigned integer: Value range: 0 to 200.	N/A
RuleNameFilter	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableFilter	Set this value to true to enable the rule	N/A	Unsigned integer: • 0—Invalid. • 1—disbale. • 2—enable.	N/A
TimeRangeFilter	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileNameFilter	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcZoneFilter	Source zone name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestZoneFilter	Destination zone name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SrcAddrSetFilter	Source address object name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestAddrSetFilter	Destination address object name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
UserFilter	Username	N/A	String, case-insensitive. Length: 1 to 55 characters.	N/A
UserGroupFilter	User group name	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
ApplicationFilter	Application name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AppGroupFilter	Application group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceFilter	Service name	N/A	String, case-insensitive. Length: 1 to 3 characters.	N/A
DscpFilter	DSCP value	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ParentRuleNumber	Parent rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
RuleNumber	Child rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to65535. Content: JSON array.	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.
TotalCount	Total number of rules	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: • true. • false.	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
IsExistSonFlag	Set this value to son traffic id to sign if this traffic has sons	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Ipv6FlowLabelValue	IPv6 header's flow label value	N/A	Unsigned integer: Value range: 0 to 2.	N/A
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Ipv6ExtensionHeaderFilter	IPv6 extension header filter	N/A	Unsigned integer: Value range: 0 to 63.	N/A
DomainFilter	Domain value	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
TerminalFilter	Terminal name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TerminalGroupFilter	Terminal group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleAction	Rule action	N/A	Unsigned integer: Value range: 0 to 3.	N/A

AVC/TrafficQueParentRule

This table contains information about the parent rule for a child rule.

XML structure

```
<AVC>
  <TrafficQueParentRule>
    <QueRule>
      <RuleNumber></RuleNumber>
      <PRuleNumber></PRuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <VRF></VRF>
      <RuleAction></RuleAction>
    </QueRule>
  </TrafficQueParentRule>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficQueParentRule
Table type	Multi-instance table
Row name	QueRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Child rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
PRuleNumber	Parent rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion	N/A	String, case-insensitive.	This column stores all match criteria of a

Column name	Column description	Column type	Data type and restrictions	Remarks
	content		Length: 1 to 10240. Content: JSON array.	parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.
Enable	Set this value to true to enable the rule	N/A	Boolean: • true. • false.	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6FlowLabelValue	IPv6 flow label value	N/A	Unsigned integer: Value range: 0 to 2.	N/A
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
RuleAction	The action of the rule	N/A	Unsigned integer: Value range: 0 to 3.	N/A

AVC/TrafficPolicyRules

This table contains information about the AVC's rule information.

XML structure

```
<AVC>
  <TrafficPolicyRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Ipv6FlowLabelValue></Ipv6FlowLabelValue>
      <Ipv6ExtensionHeader></Ipv6ExtensionHeader>
      <VRF></VRF>
```

```
      <Action>
        <RuleAction></RuleAction>
        <ProfileName></ProfileName>
      </Action>
      <ModelId></ModelId>
    </Rule>
  </TrafficPolicyRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule number is the match order.
ParentRuleNumber	Parent Rule‘s rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
RuleName	name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name cannot be same with its siblings. Mandatory
Enable	Set this value to true to disable the rule	N/A	Boolean: • true. • false.	N/A
TimeRange	Time Range Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6FlowLabelValue	IPv6 header’s flow label value	N/A	Unsigned integer: Value range: 0 to 2.	N/A
Ipv6ExtensionHeader	IPv6 extension headers	N/A	Unsigned integer: Value range: 0 to 63.	N/A
VRF	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
RuleAction	Rule action	N/A	Unsigned integer: Value range: 1 to 3.	N/A
ProfileName	TrafficPolify profile name	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
ModelId	Model rule number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A

AVC/RuleOptions

This table contains some multiple information about the AVC's rule option.

XML structure

```
<AVC>
  <RuleOptions>
    <Option>
      <RuleNumber></RuleNumber>
      <OptionType></OptionType>
      <OptionVal></OptionVal>
    </Option>
  </RuleOptions>
</AVC>
<AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	RuleOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSets. • 4—DestAddressSets. • 5—Users. • 6—UserGroups.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 7—Applications. • 8—AppGroups. • 9—Services. • 10—Dscp.	
OptionVal	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63 characters (for OptionTypes 7 and 8). Length: 1 to 31 characters (for OptionTypes 1 through 4, and OptionType 9). Length: 1 to 100 characters (for OptionType 10). Length: 1 to 480 characters (for OptionTypess 5 and 6).	Values of OptionTypes 5 and 6 are in Json format.

AVC/TrafficPolicyProfiles

This table contains information about the AVC traffic policy's Control profiles.

XML structure

```
<AVC>
  <TrafficPolicyProfiles>
    <Profile>
      <ProfileNumber></ProfileNumber>
      <ProfileName></ProfileName>
      <ReferenceMode></ReferenceMode>
      <IpAverageEnable></IpAverageEnable>
      <TotalMaxKbps></TotalMaxKbps>
      <TotalGuaranteedKbps></TotalGuaranteedKbps>
      <TotalGuaranteedKbpsPerIP></TotalGuaranteedKbpsPerIP>
      <TotalGuaranteedKbpsPerUser></TotalGuaranteedKbpsPerUser>
      <TotalMaxKbpsPerIP></TotalMaxKbpsPerIP>
      <TotalMaxKbpsPerUser></TotalMaxKbpsPerUser>
      <DnGuaranteedKbpsPerIP></DnGuaranteedKbpsPerIP>
      <UpGuaranteedKbpsPerIP></UpGuaranteedKbpsPerIP>
      <DnGuaranteedKbpsPerUser></DnGuaranteedKbpsPerUser>
      <UpGuaranteedKbpsPerUser></UpGuaranteedKbpsPerUser>
      <DnMaxKbps></DnMaxKbps>
      <UpMaxKbps></UpMaxKbps>
      <DnGuaranteedKbps></DnGuaranteedKbps>
      <UpGuaranteedKbps></UpGuaranteedKbps>
      <DnMaxKbpsPerIP></DnMaxKbpsPerIP>
      <UpMaxKbpsPerIP></UpMaxKbpsPerIP>
      <DnMaxKbpsPerUser></DnMaxKbpsPerUser>
      <UpMaxKbpsPerUser></UpMaxKbpsPerUser>
```

```
      <Priority></Priority>
      <BandwidthThresholdEnable></BandwidthThresholdEnable>
      <BandwidthThresholdMinValue></BandwidthThresholdMinValue>
      <BandwidthThresholdMaxValue></BandwidthThresholdMaxValue>
      <BTLearningEnable></BTLearningEnable>
      <BTLearningTime></BTLearningTime>
      <BTLearningtoleranceLowValue></BTLearningtoleranceLowValue>
      <BTLearningtoleranceUpValue></BTLearningtoleranceUpValue>
      <RemarkDSCP></RemarkDSCP>
      <MaxConnNum></MaxConnNum>
      <MaxConnNumPerIP></MaxConnNumPerIP>
      <MaxConnNumPerUser></MaxConnNumPerUser>
      <MaxConnRate></MaxConnRate>
      <MaxConnRatePerIP></MaxConnRatePerIP>
      <MaxConnRatePerUser></MaxConnRatePerUser>
      <TCPMSS></TCPMSS>
      <MonthLimitValue></MonthLimitValue>
    </Profile>
  </TrafficPolicyProfiles>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileNumber	Profile number	Index	Unsigned integer: Value range: 1 to 4294967295.	Rule option is the match order.
ProfileName	Profile Name, cannot be same with other profiles	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReferenceMode	Rule shared mode	N/A	Unsigned integer: • 0—per-rule. • 1—rule-shared.	N/A
IpAverageEnable	Ip average enable	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpGuaranteedKbpsPerUser	Up guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnGuaranteedkbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpGuaranteedKbps	Upstream guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnMaxKbps	Downstream Max kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpMaxkbps	Upstream Max kbps	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
DnMaxKbpsPerIP	Downstream Max kbps per iP	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpMaxKbpsPerIP	Upstream Max kbps Per IP	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Per-IP and Per-User are exclusive.
DnMaxKbpsPerUser	Downstream Max kbps per User	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
UpMaxKbpsPerUser	Upstream Max kbps PerUser	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
Priority	Stream Priority leve	N/A	Unsigned integer: Value range: 1 to 7.	When the outbound bandwidth is limited,

Column name	Column description	Column type	Data type and restrictions	Remarks
				the priority of the stream is higher, the stream is prior to pass the interface.
BandwidthThresholdEnable	Per-ip bandwidth threshold detect function switch	N/A	Boolean: • true. • false.	Default is false.
BandwidthThresholdMinValue	Downstream Max Kbps threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
BandwidthThresholdMaxValue	Upstream Max Kbps threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	Optional
BTLearningEnable	Learn funtion switch	N/A	Boolean: • true. • false.	Default is false.
BTLearningTime	Learn time minutes	N/A	Unsigned integer: Value range: 1 to 10080.	Default is 1440.
BTLearningtoleranceLowValue	Downstream Max learn tolerance	N/A	Unsigned integer: Value range: 1 to 4,000.	Optional
BTLearningtoleranceUpValue	Upstream Max learn tolerance	N/A	Unsigned integer: Value range: 1 to 4,000.	Optional
RemarkDSCP	Dscp value	N/A	Unsigned integer: Value range: 0 to 63.	N/A
MaxConnNum	Max up connections	N/A	Unsigned integer: Value range: 1 to 12,000,000.	N/A
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Per-IP and Per-User are exclusive
MaxConnNumPerUser	Max up connections per User	N/A	Unsigned integer: Value range: 1 to 12,000,000.	N/A
MaxConnRate	Max up connections rate	N/A	Unsigned integer: Value range:1 to 12,000,000 times per second.	N/A
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: Value range:1 to 12,000,000 times per second.	Per-IP and Per-User are exclusive
MaxConnRatePerUser	Max up connections rate per user	N/A	Unsigned integer: Value range:1 to 12,000,000 times per second.	N/A
TCPMSS	TCP MSS value	N/A	Unsigned integer: Value range: 128 to 9158.	N/A
MonthLimitValue	Per-IP monthly rate limit value	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 100,000,0000.	

AVC/AVCSpecification

This table contains the AVC specification information.

XML structure

```
<AVC>
  <AVCSpecification>
    <SupportDomain></SupportDomain>
  </AVCSpecification>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	AVCSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDomain	Whether the function of AVC domain is supported.	N/A	Boolean: • true. • false.	N/A

AVC/FullFlowMonitorSwitch

This table contains information about full flow monitoring.

XML structure

```
<AVC>
  <FullFlowMonitorSwitch>
    <MonitorSwitch>
```

```
      <Switch></Switch>
    </MonitorSwitch>
  </FullFlowMonitorSwitch>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	FullFlowMonitorSwitch
Table type	Single-instance table
Row name	MonitorSwitch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switch	Control flow monitoring.	N/A	Enumeration: • 0—Monitors only TCP, UDP, and ICMP packets. • 1—Monitors all packets.	N/A

AVC/TrafficPolicyMonthlmt

This table contains the per-IP monthly traffic information.

XML structure

```
<AVC>
  <TrafficPolicyMonthlmt>
    <MonthlmtSituation>
      <Chassis></Chassis>
      <Slot></Slot>
      <CpuID></CpuID>
      <IPv4Address></IPv4Address>
      <ProfileName></ProfileName>
      <MonthlmtValue></MonthlmtValue>
      <Ipv4FlowValue></Ipv4FlowValue>
      <NetworkStatus></NetworkStatus>
    </MonthlmtSituation>
  </TrafficPolicyMonthlmt>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyMonthlmt
Table type	Single-instance table
Row name	MonthlmtSituation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
CpuID	Cpu ID	N/A	Unsigned integer: Value range: 0 to 7.	N/A
IPv4Address	IPv4 address	Index	Unsigned integer: Value range: 0 to 4294967295	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MonthlmtValue	Per-IP monthly rate limit	N/A	Unsigned integer: Value range: 1 to 1000000000	N/A
Ipv4FlowValue	Actual traffic amount	N/A	Unsigned integer: Value range: 1 to 1000000000	N/A
NetworkStatus	This filed value is true to indicate that the user can access the Internet	N/A	Boolean: • true. • false.	N/A

AVC/TrafficPolicyMonthlmtDataNumber

This table contains the per-IP monthly total data number.

XML structure

```
<AVC>
  <TrafficPolicyMonthlmtDataNumber>
    <Chassis></Chassis>
```

```
    <Slot></Slot>
    <CpuID></CpuID>
    <Number></Number>
    <Filter></Filter>
  </TrafficPolicyMonthlmtDataNumber>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyMonthlmtDataNumber
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
CpuID	Cpu ID	N/A	Unsigned integer: Value range: 0 to 7.	N/A
Number	Data number	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Filter	Data filter	N/A	String: Length:1 to 2048	N/A

AVC/BTLearnInfoPerIP

This table contains information about the learning of bandwidth threshold.

XML structure

```
<AVC>
  <BTLearnInfoPerIP>
    <LearnInfo>
      <Chassis></Chassis>
      <Slot></Slot>
```

```
      <CpuID></CpuID>
      <Position></Position>
      <IpAddrFilter></IpAddrFilter>
      <ProNameFilter></ProNameFilter>
      <IpTypeFilter></IpTypeFilter>
      <DeviceInfoFilter></DeviceInfoFilter>
      <LearnStateFilter></LearnStateFilter>
      <PageNo></PageNo>
      <CntPerPage></CntPerPage>
      <TotalCnts></TotalCnts>
      <LearnInfoList>
        <IpAddr></IpAddr>
        <IpType></IpType>
        <RuleName></RuleName>
        <ProName></ProName>
        <DeviceInfo></DeviceInfo>
        <LearnState></LearnState>
        <LearnTime></LearnTime>
        <LearnLowValue></LearnLowValue>
        <LearnUpValue></LearnUpValue>
        <CurrentRate></CurrentRate>
        <AbnormalDuration></AbnormalDuration>
      </LearnInfoList>
    </LearnInfo>
  </BTLearnInfoPerIP>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	BTLearnInfoPerIP
Table type	Multi-instance table
Row name	LearnInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer: Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer: Value range: 0 to 65535.	N/A
CpuID	Cpu ID	Index	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 7.	
Position	Position	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
IpAddrFilter	IP address query	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
ProNameFilter	Profile name query	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpTypeFilter	IP type query	N/A	Enumeration: • 0—Invalid. • 1—IPv4. • 2—IPv6.	N/A
DeviceInfoFilter	Device information query	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
LearnStateFilter	Learn state query	N/A	Enumeration: • 0—Invalid. • 1—Notlearn. • 2—Learning. • 3—Finish.	N/A
PageNo	Page number to display	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
CntPerPage	Number of devices per page	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
TotalCnts	Devices total counts	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
IpAddr	IPv4 or IPv6 address	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
IpType	IP type	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
RuleName	Rule Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProName	Profile Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DeviceInfo	Device information	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
LearnState	Learning state	N/A	Enumeration: • 1—Notlearn. • 2—Learning. • 3—Finish.	N/A
LearnTime	Learn time	N/A	Unsigned integer: Value range: 1 to 10080.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LearnLowValue	Downstream learning threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
LearnUpValue	Upstream learning threshold	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
CurrentRate	Current banwidth rate	N/A	Unsigned integer: Value range: 8 to 1,000,000,000.	N/A
AbnormalDuration	Abnormal duration minutes	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A

AVC/MatchPublicIpSwitch

This table contains information about enabling NAT-translated source IP address matching.

XML structure

```
<AVC>
  <MatchPublicIpSwitch>
    <SourceIpSwitch></SourceIpSwitch>
    <DestinationIpSwitch></DestinationIpSwitch>
  </MatchPublicIpSwitch>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	MatchPublicIpSwitch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIpSwitch	Match the NAT-translated source IP	N/A	Boolean: • true—Yes	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.		• false—No	
DestinationIpSwitch	Match the NAT-translated destination IP address.	N/A	Boolean: • true—Yes • false—No	N/A.

Contents

AVC 2
AVC/TrafficPolicyRules 2
AVC/TrafficPolicyProfiles 3

AVC

AVC/TrafficPolicyRules

Message	Explanation
Operation failed. The parent rule and the child rule cannot use the same traffic profile. 操作失败：父策略与子策略不能引用同一个带宽通道。	The parent rule and the child rule cannot use the same traffic profile. 配置父子策略时，父子策略不能引用同一个带宽通道。
Operation failed. The parent rule's guaranteed bandwidth must be greater than or equal to the child rule's guaranteed bandwidth. 操作失败：父策略的保证带宽要大于等于子策略的保证带宽。	The parent rule's guaranteed bandwidth must be greater than or equal to the child rule's guaranteed bandwidth. 配置父子策略时，父策略的保证带宽要大于等于子策略的保证带宽。
Operation failed. The maximum bandwidth of a child rule cannot be greater than that of the parent rule. 操作失败：子策略的最大带宽不能大于父策略的最大带宽。	The maximum bandwidth of a child rule cannot be greater than that of the parent rule. 配置父子策略时，子策略的最大带宽不能大于父策略的最大带宽。
Operation failed. The child rule's guaranteed bandwidth cannot be greater than parent rule's maximum bandwidth. 操作失败：子策略的保证带宽不能大于父策略的最大限制带宽。	The child rule's guaranteed bandwidth cannot be greater than parent rule's maximum bandwidth. 配置父子策略时，子策略的保证带宽不能大于父策略的最大限制带宽。
The rule name already exists. 策略名称已存在。	The rule name already exists. 配置带宽策略时，策略名称不能相同。
A level-4 rule cannot act as a parent rule. 该父策略是一个四级策略。	A level-4 rule cannot act as a parent rule. 配置子带宽策略时，不能指定一个四级策略作为父策略。
The traffic profile reference mode for the parent and child traffic rules must be the same. 父子策略引用的带宽通道的限流方式必须一致。	The traffic profile reference mode for the parent and child traffic rules must be the same. 配置子带宽策略时，父子策略引用的带宽通道的限流方式必须一致。
The guaranteed bandwidth for the parent traffic rule must be greater than or equal to the guaranteed bandwidth for its child traffic rule. 父策略引用带宽通道的的保证带宽不能小于子策略引用带宽通道的保证带宽。	The guaranteed bandwidth for the parent traffic rule must be greater than or equal to the guaranteed bandwidth for its child traffic rule. 配置子带宽策略时，父策略引用带宽通道的的保证带宽不能小于子策略引用带宽通道的保证带宽。
The maximum bandwidth for the parent traffic rule must be greater than or equal to the maximum bandwidth for its child traffic rule. 父策略引用带宽通道的的最大带宽不能小于子策略引用带宽通道的最大带宽。	When configuring the child rule, the maximum bandwidth for the parent traffic rule must be greater than or equal to the maximum bandwidth for its child traffic rule. 配置子带宽策略时，父策略引用带宽通道的的最大带宽不能小于子策略引用带宽通道的最大带宽。
The maximum bandwidth for the parent traffic rule must be greater than or equal to the guaranteed bandwidth for its child traffic rule. 父策略引用带宽通道的的最大带宽不能小于子策略引用带宽通道的保证带宽。	When configuring the child rule, the maximum bandwidth for the parent traffic rule must be greater than or equal to the guaranteed bandwidth for its child traffic rule. 配置子带宽策略时，父策略引用带宽通道的的最大带宽不能小于子

	策略引用带宽通道的保证带宽。
The guaranteed bandwidth for a child traffic rule must be smaller than the guaranteed bandwidth for its parent traffic rule. 子策略引用带宽通道的的保证带宽不能大于父策略引用带宽通道的保证带宽。	When configuring the child rule, the guaranteed bandwidth for a child traffic rule must be smaller than the guaranteed bandwidth for its parent traffic rule. 配置子带宽策略时，子策略引用带宽通道的的保证带宽不能大于父策略引用带宽通道的保证带宽。
The guaranteed bandwidth for its child traffic rule must be smaller than the maximum bandwidth for its parent traffic rule. 子策略引用带宽通道的的保证带宽不能大于父策略引用带宽通道的最大带宽。	When configuring the child rule, the guaranteed bandwidth for its child traffic rule must be smaller than the maximum bandwidth for its parent traffic rule. 配置子带宽策略时，子策略引用带宽通道的的保证带宽不能大于父策略引用带宽通道的最大带宽。
The maximum bandwidth for its child traffic rule must be smaller than the maximum bandwidth for its parent traffic rule. 子策略引用带宽通道的的最大带宽不能大于父策略引用带宽通道的最大带宽。	When configuring the child rule, the maximum bandwidth for its child traffic rule must be smaller than the maximum bandwidth for its parent traffic rule. 配置子带宽策略时，子策略引用带宽通道的的最大带宽不能大于父策略引用带宽通道的最大带宽。

AVC/TrafficPolicyProfiles

Message	Explanation
Operation failed. The profile has been used by a rule. 操作失败：无法删除已经被引用的带宽通道。	Can't delete a profile that has been used by a rule. 删除带宽通道时，无法删除已经被策略引用的带宽通道。
The profile name already exists. 带宽通道名称已存在。	The profile name already exists. 新建带宽通道时，通道名称不能相同。
The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the per-IP/per-user maximum bandwidth. 每IP或每用户的保证带宽不能大于每IP或每用户的最大带宽。	The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the per-IP/per-user maximum bandwidth. 配置带宽通道时，每IP或每用户的保证带宽要小于等于最大带宽。
The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the total guaranteed bandwidth. 每IP或每用户的保证带宽不能大于整体的保证带宽。	The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the total guaranteed bandwidth. 配置带宽通道时，每IP或每用户的保证带宽不能大于整体的保证带宽。
The total guaranteed bandwidth must be smaller than or equal to the total maximum bandwidth. 整体保证带宽不能大于整体最大带宽。	The total guaranteed bandwidth must be smaller than or equal to the total maximum bandwidth. 配置带宽通道时，整体保证带宽不能大于整体最大带宽。
The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the total maximum bandwidth. 每IP或每用户的保证带宽不能大于整体最大带宽。	The per-IP/per-user guaranteed bandwidth must be smaller than or equal to the total maximum bandwidth. 配置带宽通道时，每IP或每用户的保证带宽不能大于整体最大带宽。

Contents

Bct 1
Bct/ControllerTeams 1
XML structure 1
Table description 1
Columns 1
Bct / Controllers 1
XML structure 2
Table description 2
Columns 2

Bct

Bct/ControllerTeams

This table is used to configure Bct for a device and show Bct's state.

XML structure

```
<Bct>
  <ControllerTeams>
    <Team>
      <TeamID></TeamID>
      <Name></Name>
    </Team>
  </ControllerTeams>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	ControllerTeams
Table type	Multi-instance table
Row name	Team
Restrictions	Device support blade controller team
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TeamID	ControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
Name	ControllerTeam name	Index	String. Length: 1 to 31 characters.	N/A

Bct / Controllers

This table contains controller infomation.

XML structure

```
<Bct>
  <Controllers>
    <Controller>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <TeamID></TeamID>
    </Controller>
  </Controllers>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	Location node to blade controller team
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Information of device node	Data structure	N/A	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
TeamID	Blade controller team ID	N/A	Unsigned integer. Value range: 2 to 256.	N/A

Contents

Bct 1
Bct/ControllerTeams 1
XML structure 1
Table description 1
Columns 1
Bct/Controllers 1
XML structure 2
Table description 2
Columns 2

Bct

Bct/ControllerTeams

This table is used to configure Bct for a device and show Bct's state.

XML structure

```
<Bct>
  <ControllerTeams>
    <Team>
      <TeamID></TeamID>
      <Name></Name>
    </Team>
  </ControllerTeams>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	ControllerTeams
Table type	Multi-instance table
Row name	Team
Restrictions	All ControllerTeams' information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TeamID	ControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
Name	ControllerTeam name	Index	String. Length: 1 to 31 characters.	N/A

Bct/Controllers

This table contains controller infomation.

XML structure

```
<Bct>
  <Controllers>
    <Controller>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <BelongID></BelongID>
      <NodeType></NodeType>
    </Controller>
  </Controllers>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	Controllers' information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Information of device node	Data structure	N/A	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
BelongID	Owning blade controller team ID	N/A	Unsigned integer. Value range: 1 to 256.	N/A
NodeType	Node type	N/A	Enumeration. 1：Master 2：Standby 3：Absent.	N/A

Contents

BFD 1

BFD/Base 1
XML structure 1
Table description 1
Columns 2
BFD/Interfaces 3
XML structure 3
Table description 4
Columns 4
BFD/SBFD/ReflectorNumbers 6
XML structure 6
Table description 7
Columns 7
BFD/SBFD/ReflectorIpv4Addrs 7
XML structure 7
Table description 7
Columns 8
BFD/SBFD/DestAddrRemoteDiscrs 8
XML structure 8
Table description 8
Columns 9
BFD/Templates 9
XML structure 9
Table description 10
Columns 10
BFD/StaticSessions 11
XML structure 11
Table description 12
Columns 12
BFD/ForwardingMatchRDs 15
XML structure 15
Table description 16
Columns 16
BFD/MadDetects 16
XML structure 16
Table description 17
Columns 17
BFD/MadDetects/MadDetect/MadIpv4Addresses 17
XML structure 17
Table description 18
Columns 18
BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address 18
XML structure 18
Table description 18
Columns 19

BFD

BFD/Base

This table contains global BFD information.

XML structure

```
<BFD>
  <Base>
    <MultihopMinTransmitInterval></MultihopMinTransmitInterval>
    <MultihopMinReceiveInterval></MultihopMinReceiveInterval>
    <MultihopDetectMultiplier></MultihopDetectMultiplier>
    <EchoSourceIp></EchoSourceIp>
    <EchoSourceIpv6></EchoSourceIpv6>
    <MultihopAuthentication>
      <AuthType></AuthType>
      <KeyID></KeyID>
      <KeyType></KeyType>
      <Key></Key>
    </MultihopAuthentication>
    <IpRouterAlert></IpRouterAlert>
    <InitMode></InitMode>
    <MultihopMinControlInterval></MultihopMinControlInterval>
    <MultihopMinEchoReceiveInterval></MultihopMinEchoReceiveInterval>
    <SbfdSourceIpv6></SbfdSourceIpv6>
    <SbfdInitAcceptDown></SbfdInitAcceptDown>
  </Base>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MultihopMinTransmitInterval	Minimum interval for transmitting multihop BFD control packet.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopMinReceiveInterval	Minimum interval for receiving multihop BFD control packet.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopDetectMultiplier	Multihop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
EchoSourceIp	Specify source IP address for BFD echo packet.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
EchoSourceIpv6	Specify source IPv6 address for BFD echo packet.	N/A	Hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
MultihopAuthentication	Multihop Authentication.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key Type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key.	N/A	String, case-sensitive.	If KeyType is cipher,the length are 33 to 53

Column name	Column description	Column type	Data type and restrictions	Remarks
				characters. If KeyType is plain,the length are 1 to 16 characters.
IpRouterAlert	Set the Router Alert option in BFD control packets for MPLS.	N/A	Boolean: • **true.** • **false.**	When set the ip router alert option，set the value to **true**. Otherwise, set the value to **false**.
InitMode	Specify mode before creating BFD session.	N/A	Enumeration: • 0—Active. • 1—Passive.	N/A
MultihopMinControlInterval	Minimum interval for transmitting and receiving multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model. It can be used on some special devices, and cannot be used with MinTransmitInterval or MinReceiveInterval at the same time on these special devices.
MultihopMinEchoReceiveInterval	Minimum interval for receiving multihop BFD echo packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
SbfdSourceIpv6	Specify source IPv6 address for SBFD packet.	N/A	Hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
SbfdInitAcceptDown	Enable the sbfd initiator to accept down packet.	N/A	Boolean: • **true.** • **false**	N/A

BFD/Interfaces

This table contains BFD interface information.

XML structure

```
<BFD>
  <Interfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
        </Authentication>
      <Demand></Demand>
      <Echo></Echo>
      <MinControlInterval></MinControlInterval>
    </Interface>
  </Interfaces>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API* Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTransmitInterval	Minimum interval for transmitting single-hop BFD control.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving single-hop BFD control.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Single-hop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
Authentication	Authentication.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key Type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key.	N/A	String, case-sensitive.	If Key Type is cipher,the length are 33 to 53 characters. If Key Type is plain,the length are 1 to 16 characters.

Column name	Column description	Column type	Data type and restrictions	Remarks
Demand	Specify BFD session mode.	N/A	Boolean: • **true.** • **false.**	When set the BFD Demand mode，set the value to **true**. Otherwise, set the value to **false**.
Echo	BFD echo function.	N/A	Enumeration: • 0—Not enable echo function. • 1—enable echo receive function. • 2—enable echo send function. • 3—enable echo receive and send function.	N/A
MinControlInterval	Minimum interval for transmitting and receiving single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model. It can be used on some special devices, and cannot be used with MinTransmitInterval or MinReceiveInterval at the same time on these special devices.

BFD/SBFD/ReflectorNumbers

This table contains the integer used as the SBFD reflector local discriminator.

XML structure

```
<BFD>
  <SBFD>
    <ReflectorNumbers>
       <ReflectorNumber>
        <LocalDiscrNumber></LocalDiscrNumber>
       </ReflectorNumber>
    </ReflectorNumbers>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	ReflectorNumber
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalDiscrNumber	Local discriminator number for the SBFD session.	Index	Unsigned integer.	The parameter has no default value.

BFD/SBFD/ReflectorIpv4Addrs

This table contains the IPv4 address used as the SBFD reflector local discriminator.

XML structure

```
<BFD>
  <SBFD>
    <ReflectorIpv4Addrs>
      <ReflectorIpv4Address>
        <LocalDiscrIpv4Address></LocalDiscrIpv4Address>
      </ReflectorIpv4Address>
    </ReflectorIpv4Addrs>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	ReflectorIpv4Address
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalDiscrIpv4 Address	Local discriminator IPv4 address for the SBFD session.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. The parameter has no default value.

BFD/SBFD/DestAddrRemoteDiscrs

This table contains destination address and remote discriminator information.

XML structure

```
<BFD>
  <SBFD>
    <DestAddrRemoteDiscrs>
      <DestAddrRemoteDiscr>
        <AddrType></AddrType>
        <DestinationAddress></DestinationAddress>
        <RemoteDiscriminator></RemoteDiscriminator>
        <RemoteDiscrIpv4Addr></RemoteDiscrIpv4Addr>
      </DestAddrRemoteDiscr>
    </DestAddrRemoteDiscrs>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	DestAddrRemoteDiscr
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrType	The type of address	Index	Enumeration: • IPV4 • IPV6	Required when create a new row, can not be modified.
DestinationAddress	The address of the route to the destination	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value. Can not be modified.
RemoteDiscriminator	Remote discriminator number for the SBFD session.	N/A	Unsigned integer.	The parameter has no default value.
RemoteDiscrIpv4Addr	Remote discriminator IPv4 address for the SBFD session.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. The parameter has no default value.

BFD/Templates

This table contains BFD template information.

XML structure

```
<BFD>
  <Templates>
    <Template>
      <TemplateName></TemplateName>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
      </Authentication>
    </Template>
  </Templates>
```

```
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	Template name	Index	String. Length: 1 to 63 characters.	N/A
MinTransmitInterval	Minimum interval for transmitting BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo packets	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
Authentication	Authentication information.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key value.	N/A	String, case-sensitive.	If KeyType is cipher, the key length is 33 to 53 characters. If KeyType is plain, the key length is 1 to 16 characters.

BFD/StaticSessions

This table contains static BFD information.

XML structure

```
<BFD>
  <StaticSessions>
    <StaticSession>
      <SessionName></SessionName>
      <AddrType></AddrType>
      <IfName></IfName>
      <VrfName></VrfName>
      <SrcAddr></SrcAddr>
      <PeerAddr></PeerAddr>
      <DestAddr></DestAddr>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Auto></Auto>
      <OneArmEcho></OneArmEcho>
      <EchoSrcAddr></EchoSrcAddr>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
```

```
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
      </Authentication>
      <PrimaryChassis></PrimaryChassis>
      <PrimarySlot></PrimarySlot>
      <PrimaryCPUID></PrimaryCPUID>
      <SecondaryChassis></SecondaryChassis>
      <SecondarySlot></SecondarySlot>
      <SecondaryCPUID></SecondaryCPUID>
      <TrackInterface></TrackInterface>
    </StaticSession>
   </StaticSessions>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	CfgSessions
Table type	Multi-instance table
Row name	Cfgsession
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SessionName	Name of a BFD session	Index	String. Length: 1 to 64 characters.	Required when creating a new row, and cannot be modified.
AddrType	The type of address	N/A	Enumeration: • IPV4 • IPV6	Required when create a new row, can not be modified.
IfName	Name of the outbound interface of a BFD session.	N/A	String. Length: 2 to 47 characters.	Can not be modified.
VrfName	Name of the VPN to which a BFD session belongs	N/A	String. Length: 0 to 31 characters.	If the BFD session belongs to the public network, the length of characters is 0. Can not be modified.

SrcAddr	Source IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Can not be modified.
PeerAddr	PeerAddr IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. String: default-ip.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Value **default-ip** represents IP address 224.0.0.184. Can not be modified.
DestAddr	The address of the route to the destination	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value. Can not be modified.
LocalDiscriminator	Local discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 32768.	Can not be modified.
RemoteDiscriminator	Remote discriminator of a BFD session	N/A	Unsigned integer. • Value range: 1 to 4294967295.	Can not be modified.
Auto	Obtain BFD session discriminators through autonegotiation	N/A	Boolean: • True • false	Can not be modified.
OneArmEcho	Echo session in one-arm-echo mode, which must be configured for echo session type.	N/A	Boolean: • true • false	Can not be modified.
EchoSrcAddr	Specify source IP address for BFD echo packets.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value. Can not be modified.
MinTransmitInterval	Minimum interval for sending	N/A	Unsigned integer.	The value is expressed in milliseconds. The

	packets			value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving packets	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model.
DetectMultiplier	Number of times that a BFD session continuously detects that packets are sent but no response is returned, based on which the system considers the BFD session Down.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving one-arm echo session packets.	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model. This parameter is available only when the mode of the BFD is one-arm-echo.
Authentication	Authentication.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

KeyType	Key type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key.	N/A	String, case-sensitive.	If Key Type is cipher, the key is a string of 33 to 53 characters. If Key Type is plain, the key is a string of 1 to 16 characters.
PrimaryChassis	Chassis ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
PrimarySlot	Slot ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
PrimaryCPUID	CPU ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondaryChassis	Chassis ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondarySlot	Slot ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondaryCPUID	CPU ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
TrackInterface	Interface monitored by the static BFD session.	N/A	String. Length: 2 to 47 characters.	This value can be set only in creating a new row. This value cannot be modified or deleted.

BFD/ForwardingMatchRDs

This table contains information about remote discriminators used to forward matching BFD echo packets.

XML structure

```
<BFD>
  <ForwardingMatchRDs>
    <ForwardingMatchRD></ForwardingMatchRD>
  </ForwardingMatchRDs>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	ForwardingMatchRDs
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardingMatchRD	Remote discriminators used to forward matching BFD echo packets.	N/A	String, case-sensitive. Length: 1 to 14 characters.	Specify up to 100 items of remote discriminators or discriminator ranges, for example, 1 or 3 to 5.

BFD/MadDetects

This table contains BFD MAD information.

XML structure

```
<BFD>
  <MadDetects>
    <MadDetect>
      <IfName></IfName>
      <MadBfdEnable></MadBfdEnable>
      <MadIpv4Addresses>
        <MadIpv4Address>
          <MadIpv4Address></MadIpv4Address>
          <MadIpv4Mask></MadIpv4Mask>
          <MemberID></MemberID>
        </MadIpv4Address>
      </MadIpv4Addresses>
    <MadDetect>
  </MadDetects>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	MadDetects
Table type	Multi-instance table
Row name	None
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name.	Index	String Value range: 2 to 47.	Only VLAN interfaces except VLAN-interface 1, Layer 3 aggregate interfaces, and Management Ethernet interfaces are supported.
MadBfdEnable	BFD MAD function.	N/A	Enumeration. • disable—Disable MAD BFD detect. • enable—Enable MAD BFD detect.	N/A
MadIpv4Addresses	MAD IPv4 addresses information	Subtable	N/A	For more information, see the BFD/MadDetects/MadDetect/MadIpv4Addresses table.

BFD/MadDetects/MadDetect/MadIpv4Addresses

This table contains MAD IPv4 addresses information.

XML structure

Please refer to the XML structure of BFD/MadDetects.

Table description

Item	Description
Feature name	BFD
Table name	MadIpv4Addresses
Table type	Multi-instance table
Row name	None
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MadIpv4Address	MAD IPv4 address information	Sublist	N/A	For more information, see the BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address table.

BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address

This table contains MAD IPv4 address information.

XML structure

Please refer to the XML structure of BFD/MadDetects.

Table description

Item	Description
Feature name	BFD
Table name	MadIpv4Address
Table type	Multi-instance table
Row name	MadIpv4Address
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MadIpv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
MadIpv4Mask	IPv4 address mask.	Index	String, dotted decimal notation.	N/A
MemberID	Specifies the ID of an IRF member.	Index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. **Stand-alone mode: 0.**	The current member ID of the device. The maximum member ID is variant between products.

Contents

BFD 1

BFD/Base 1

XML structure 1

Table description 1

Columns 2

BFD/Interfaces 4

XML structure 4

Table description 4

Columns 5

BFD/Sessions 7

XML structure 7

Table description 8

Columns 8

BFD/SBFD/ReflectorNumbers 11

XML structure 11

Table description 12

Columns 12

BFD/SBFD/ReflectorIpv4Addrs 12

XML structure 12

Table description 13

Columns 13

BFD/SBFD/DestAddrRemoteDiscrs 13

XML structure 13

Table description 13

Columns 14

BFD/Templates 14

XML structure 14

Table description 15

Columns 15

BFD/StaticSessions 16

XML structure 16

Table description 17

Columns 17

BFD/ForwardingMatchRDs 21

XML structure 21

Table description 21

Columns 21

BFD/MadDetects 21

XML structure 21

Table description 22

Columns 22

BFD/MadDetects/MadDetect/MadIpv4Addresses 23

XML structure 23

Table description 23

Columns 23

BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address 24

XML structure 24
Table description 24
Columns 24

BFD

BFD/Base

This table contains global BFD information.

XML structure

```
<BFD>
  <Base>
    <MultihopMinTransmitInterval></MultihopMinTransmitInterval>
    <MultihopMinReceiveInterval></MultihopMinReceiveInterval>
    <MultihopDetectMultiplier></MultihopDetectMultiplier>
    <EchoSourceIp></EchoSourceIp>
    <EchoSourceIpv6></EchoSourceIpv6>
    <MultihopAuthentication>
      <AuthType></AuthType>
      <KeyID></KeyID>
      <KeyType></KeyType>
      <Key></Key>
    </MultihopAuthentication>
    <IpRouterAlert></IpRouterAlert>
    <InitMode></InitMode>
    <MultihopMinControlInterval></MultihopMinControlInterval>
    <SbfdSourceIpv6></SbfdSourceIpv6>
    <SbfdInitAcceptDown ></SbfdInitAcceptDown>
    <MultihopMinEchoReceiveInterval></MultihopMinEchoReceiveInterval>
  </Base>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MultihopMinTransmitInterval	Minimum interval for transmitting multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopMinReceiveInterval	Minimum interval for receiving multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopDetectMultiplier	Multihop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
EchoSourceIp	Specify source IP address for BFD echo packet.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
EchoSourceIpv6	Specify source IPv6 address for BFD echo packet.	N/A	Hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
MultihopAuthentication	Multihop Authentication.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key Type.	N/A	Enumeration: • 1—cipher.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—plain.	
Key	Key.	N/A	String, case-sensitive.	If Key Type is cipher,the length are 33 to 53 characters. If Key Type is plain,the length are 1 to 16 characters.
IpRouterAlert	Set the Router Alert option in BFD control packets for MPLS.	N/A	Boolean: • true. • false.	When set the ip router alert option，set the value to **true**. Otherwise, set the value to **false**.
InitMode	Specify mode before creating BFD session.	N/A	Enumeration: • 0—Active. • 1—Passive.	N/A
MultihopMinControlInterval	Minimum interval for transmitting and receiving multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model. It can be used on some special devices, and cannot be used with MinTransmitInterval or MinReceiveInterval at the same time on these special devices.
MultihopMinEchoReceiveInterval	Minimum interval for receiving multihop BFD echo packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
SbfdSourceIpv6	Specify source IPv6 address for SBFD packet.	N/A	Hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
SbfdInitAcceptDown	Enable the sbfd initiator to accept down packet.	N/A	Boolean: • **true.** • **false**	N/A

BFD/Interfaces

This table contains BFD interface information.

XML structure

```
<BFD>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
        </Authentication>
      <Demand></Demand>
      <Echo></Echo>
      <MinControlInterval></MinControlInterval>
      <IfName></IfName>
    </Interface>
  </Interfaces>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API* Configuration Reference.
MinTransmitInterval	Minimum interval for transmitting single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Single-hop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo packets	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
Authentication	Authentication.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key Type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key.	N/A	String, case-sensitive.	If Key Type is cipher,the length are 33 to 53 characters. If Key Type is plain,the length are 1 to 16 characters.
Demand	Specify BFD session mode.	N/A	Boolean: • true. • false.	When set the BFD Demand mode，set the value to **true**. Otherwise, set the value to **false**.
Echo	BFD echo function.	N/A	Enumeration: • 0—Not enable echo function. • 1—enable echo receive function. • 2—enable echo send function. • 3—enable echo receive and send function.	N/A
MinControlInterval	Minimum interval for transmitting and receiving single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model. It can be used on some special devices, and cannot be used with MinTransmitInterval or MinReceiveInterval at the same time

Column name	Column description	Column type	Data type and restrictions	Remarks
				on these special devices.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

BFD/Sessions

This table contains BFD session information.

XML structure

```
<BFD>
  <Sessions>
    <Session>
      <LocalDiscr></LocalDiscr>
      <RemoteDiscr></RemoteDiscr>
      <SourceAddr></SourceAddr>
      <DestAddr></DestAddr>
      <DestinationPort></DestinationPort>
      <SessionState></SessionState>
      <Interface></Interface>
      <ProtocolType></ProtocolType>
      <SessionType></SessionType>
      <DetectMult></DetectMult>
      <DesiredMinTxInterval></DesiredMinTxInterval>
      <RequiredMinRxInterval></RequiredMinRxInterval>
      <RemoteMinTxInterval></RemoteMinTxInterval>
      <RemoteMinRxInterval></RemoteMinRxInterval>
      <NegotiatedTxInterval></NegotiatedTxInterval>
      <NegotiatedRxInterval></NegotiatedRxInterval>
      <DetectionTime></DetectionTime>
      <RxCount></RxCount>
      <TxCount></TxCount>
      <MinEchoRxInterval></MinEchoRxInterval>
      <EchoDetectionTime></EchoDetectionTime>
      <ActEchoRxInterval></ActEchoRxInterval>
      <EchoRxCount></EchoRxCount>
      <EchoTxCount></EchoTxCount>
      <ConnectionType></ConnectionType>
      <UpDuration></UpDuration>
      <HoldTime></HoldTime>
      <AuthMode></AuthMode>
      <DetectionMode></DetectionMode>
      <Version></Version>
      <DiagInfo></DiagInfo>
```

```
      <DemandMode></DemandMode>
      <RemoteDemandMode></RemoteDemandMode>
    </Session>
  </Sessions>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalDiscr	The local discriminator for this BFD session.	Index	Unsigned integer.	N/A
RemoteDiscr	The discriminator received from the corresponding remote system.	N/A	Unsigned integer.	N/A
SourceAddr	Source IP address of the session.	N/A	String.	An IPv4 or IPv6 address.
DestAddr	Destination IP address of the session.	N/A	String.	An IPv4 or IPv6 address.
DestinationPort	Destination UDP port.	N/A	Unsigned short.	N/A
SessionState	Session state.	N/A	Enumeration: • 0—admindown. • 1—down. • 2—init. • 3—up.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Name of the interface of the session.	N/A	String.	The value is N/A for multihop session.
ProtocolType	Name of the protocol.	N/A	String.	N/A
SessionType	Session Type: Control or Echo.	N/A	String.	N/A
DetectMult	Detection time multiplier.	N/A	Unsigned integer.	N/A
DesiredMinTxInterval	The minimum interval that the local system uses when transmitting BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.
RequiredMinRxInterval	The minimum interval between received BFD control packets that this system is capable of supporting.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.
RemoteMinTxInterval	The minimum interval that the remote system uses when transmitting BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.
RemoteMinRxInterval	The minimum interval between received BFD control packets that the remote system is capable of supporting.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.
NegotiatedTxInterval	Negotiated transmit interval.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.

Column name	Column description	Column type	Data type and restrictions	Remarks
NegotiatedRxInterval	Negotiated receive interval.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Control.
DetectionTime	Detection time.	N/A	Unsigned integer Units: microseconds.	Display when session type is Control.
RxCount	Count of received packets in this session.	N/A	Unsigned integer.	Display when session type is Control.
TxCount	Count of sent packets in this session.	N/A	Unsigned integer.	Display when session type is Control.
MinEchoRxInterval	The minimum interval between received BFD Echo packets that this system is capable of supporting.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Echo.
EchoDetectionTime	Echo Detection time.	N/A	Unsigned integer. Units: microseconds.	Display when session type is Echo.
ActEchoRxInterval	Actual Echo receive interval.	N/A	Unsigned integer. Unit: millisecond.	Display when session type is Echo.
EchoRxCount	Count of received Echo packets in this session.	N/A	Unsigned integer.	Display when session type is Echo.
EchoTxCount	Count of sent Echo packets in this session.	N/A	Unsigned integer.	Display when session type is Echo.
ConnectionType	Connection type of the interface.	N/A	Boolean: • 0—direct. • 1—indirect.	N/A
UpDuration	Time period for which the session has been up.	N/A	Unsigned integer. Unit: second.	N/A
HoldTime	Length of time before session detection timer expires.	N/A	Unsigned integer. Unit: millisecond.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMode	Session authentication mode.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
DetectionMode	Detection mode.	N/A	Enumeration: • 1—Async with echo. • 2—Async without echo. • 3—Demand with echo. • 4—Demand without echo.	N/A
Version	The version of BFD protocol.	N/A	Enumeration: • 0—version 0. • 1—version 1.	N/A
DiagInfo	Diagnostic information about the session.	N/A	Enumeration: Value range: 1 to 31.	N/A
DemandMode	Whether demand mode is enabled for this system.	N/A	Boolean: • **true.** • **false.**	N/A
RemoteDemand Mode	Whether demand mode is enabled for remote system.	N/A	Boolean: • **true.** • **false.**	N/A

BFD/SBFD/ReflectorNumbers

This table contains BFD SBFD ReflectorNumber information.

XML structure

```
<BFD>
  <SBFD>
    <ReflectorNumbers>
      <ReflectorNumber>
```

```
        <LocalDiscrNumber></LocalDiscrNumber>
      </ReflectorNumber>
    </ReflectorNumbers>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	ReflectorNumber
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalDiscrNumber	Local discriminator number for the SBFD session.	Index	Unsigned integer.	N/A

BFD/SBFD/ReflectorIpv4Addrs

This table contains the IPv4 address used as the SBFD reflector local discriminator.

XML structure

```
<BFD>
  <SBFD>
    <ReflectorIpv4Addrs>
      <ReflectorIpv4Address>
        <LocalDiscrIpv4Address></LocalDiscrIpv4Address>
      </ReflectorIpv4Address>
    </ReflectorIpv4Addrs>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	ReflectorIpv4Address
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalDiscrIpv4 Address	Local discriminator IPv4 address for the SBFD session.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.

BFD/SBFD/DestAddrRemoteDiscrs

This table contains destination address and remote discriminator information.

XML structure

```
<BFD>
  <SBFD>
    <DestAddrRemoteDiscrs>
      <DestAddrRemoteDiscr>
        <AddrType></AddrType>
        <DestinationAddress></DestinationAddress>
        <RemoteDiscriminator></RemoteDiscriminator>
        <RemoteDiscrIpv4Addr></RemoteDiscrIpv4Addr>
      </DestAddrRemoteDiscr>
    </DestAddrRemoteDiscrs>
  </SBFD>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	SBFD
Table type	Multi-instance table
Row name	DestAddrRemoteDiscr

Item	Description
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrType	The type of address	Index	Enumeration: • IPV4 • IPV6	Required when create a new row, can not be modified.
DestinationAddress	The address of the route to the destination	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value. Can not be modified.
RemoteDiscriminator	Remote discriminator number for the SBFD session.	N/A	Unsigned integer.	The parameter has no default value.
RemoteDiscrIpv4Addr	Remote discriminator IPv4 address for the SBFD session.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. The parameter has no default value.

BFD/Templates

This table contains BFD template information.

XML structure

```
<BFD>
  <Templates>
    <Template>
      <TemplateName></TemplateName>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
```

```
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
        </Authentication>
    </Template>
  </Templates>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	Template name	Index	String. Length: 1 to 63 characters.	N/A
MinTransmitInterval	Minimum interval for transmitting BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo packets	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
Authentication	Authentication information.	Data structure	Members include: • AuthenticationType. • KeyID. • KeyType. • Key.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthType	Authentication type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key value.	N/A	String, case-sensitive.	If KeyType is cipher, the key length is 33 to 53 characters. If KeyType is plain, the key length is 1 to 16 characters.

BFD/StaticSessions

This table contains static BFD information.

XML structure

```
<BFD>
  <StaticSessions>
    <StaticSession>
      <SessionName></SessionName>
      <AddrType></AddrType>
      <IfName></IfName>
      <VrfName></VrfName>
      <SrcAddr></SrcAddr>
      <PeerAddr></PeerAddr>
      <DestAddr></DestAddr>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Auto></Auto>
      <OneArmEcho></OneArmEcho>
      <EchoSrcAddr></EchoSrcAddr>
```

```
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
      <Authentication>
        <AuthType></AuthType>
        <KeyID></KeyID>
        <KeyType></KeyType>
        <Key></Key>
      </Authentication>
      <PrimaryChassis></PrimaryChassis>
      <PrimarySlot></PrimarySlot>
      <PrimaryCPUID></PrimaryCPUID>
      <SecondaryChassis></SecondaryChassis>
      <SecondarySlot></SecondarySlot>
      <SecondaryCPUID></SecondaryCPUID>
      <TrackInterface></TrackInterface>
    </StaticSession>
   </StaticSessions>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	CfgSessions
Table type	Multi-instance table
Row name	Cfgsession
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SessionName	Name of a BFD session	Index	String. Length: 1 to 64 characters.	Required when creating a new row, and cannot be modified.
AddrType	The type of address	N/A	Enumeration: • IPV4 • IPV6	Required when create a new row, can not be modified.
IfName	Name of the outbound interface of a BFD session.	N/A	String. Length: 2 to 47 characters.	Can not be modified.

VrfName	Name of the VPN to which a BFD session belongs	N/A	String. Length: 0 to 31 characters.	If the BFD session belongs to the public network, the length of characters is 0. Can not be modified.
SrcAddr	Source IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Can not be modified.
PeerAddr	PeerAddr IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. String: default-ip.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Value **default-ip** represents IP address 224.0.0.184. Can not be modified.
DestAddr	The address of the route to the destination	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an nvalid value. Can not be modified.
LocalDiscriminator	Local discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 32768.	Can not be modified.
RemoteDiscriminator	Remote discriminator of a BFD session	N/A	Unsigned integer. • Value range: 1 to 4294967295.	Can not be modified.
Auto	Obtain BFD session discriminators through autonegotiation	N/A	Boolean: • True • false	Can not be modified.
OneArmEcho	Echo session in one-arm-echo mode, which must be configured for echo session type.	N/A	Boolean: • true • false	Can not be modified.

EchoSrcAddr	Specify source IP address for BFD echo packets.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value. Can not be modified.
MinTransmitInterval	Minimum interval for sending packets	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving packets	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model.
DetectMultiplier	Number of times that a BFD session continuously detects that packets are sent but no response is returned, based on which the system considers the BFD session Down.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving one-arm echo session packets.	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model. This parameter is available only when the mode of the BFD is one-arm-echo.
Authentication	Authentication.	Data structure	Members include: • AuthenticationType. • KeyID.	N/A

			• KeyType. • Key.	
AuthType	Authentication Type.	N/A	Enumeration: • 1—simple. • 2—md5. • 3—m-md5. • 4—sha1. • 5—m-sha1. • 6—hmac-md5. • 7—hmac-m-md5. • 8—hmac-sha1. • 9—hmac-m-sha1.	N/A
KeyID	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
KeyType	Key type.	N/A	Enumeration: • 1—cipher. • 2—plain.	N/A
Key	Key.	N/A	String, case-sensitive.	If Key Type is cipher, the key is a string of 33 to 53 characters. If Key Type is plain, the key is a string of 1 to 16 characters.
PrimaryChassis	Chassis ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
PrimarySlot	Slot ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
PrimaryCPUID	CPU ID of the primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondaryChassis	Chassis ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondarySlot	Slot ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
SecondaryCPUID	CPU ID of the secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	This value cannot be modified.
TrackInterface	Interface monitored by the static BFD session.	N/A	String. Length: 2 to 47 characters.	This value can be set only in creating a new row. This value cannot be modified or deleted.

BFD/ForwardingMatchRDs

This table contains information about remote discriminators used to forward matching BFD echo packets.

XML structure

```
<BFD>
  <ForwardingMatchRDs>
    <ForwardingMatchRD></ForwardingMatchRD>
  </ForwardingMatchRDs>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	ForwardingMatchRDs
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardingMatchRD	Remote discriminators used to forward matching BFD echo packets.	N/A	String, case-sensitive. Length: 1 to 14 characters.	Specify up to 100 items of remote discriminators or discriminator ranges, for example, 1 or 3 to 5.

BFD/MadDetects

This table contains BFD MAD information.

XML structure

```
<BFD>
  <MadDetects>
    <MadDetect>
```

```
      <IfName></IfName>
      <MadBfdEnable></MadBfdEnable>
      <MadIpv4Addresses>
        <MadIpv4Address>
          <MadIpv4Address></MadIpv4Address>
          <MadIpv4Mask></MadIpv4Mask>
          <MemberID></MemberID>
        </MadIpv4Address>
      </MadIpv4Addresses>
    <MadDetect>
  </MadDetects>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	MadDetect
Table type	Multi-instance table
Row name	None
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name.	Index	String Value range: 2 to 47.	Only VLAN interfaces except VLAN-interface 1, Layer 3 aggregate interfaces, and Management Ethernet interfaces are supported.
MadBfdEnable	BFD MAD function.	N/A	Enumeration. • disable—Disable MAD BFD detect. • enable—Enable MAD BFD detect.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MadIpv4Addresses	MAD IPv4 addresses information	Subtable	N/A	For more information, see the BFD/MadDetects/MadDetect/MadIpv4Addresses table.

BFD/MadDetects/MadDetect/MadIpv4Addresses

This table contains MAD IPv4 addresses information.

XML structure

Please refer to the XML structure of BFD/MadDetects.

Table description

Item	Description
Feature name	BFD
Table name	MadIpv4Addresses
Table type	Multi-instance table
Row name	None
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MadIpv4Address	MAD IPv4 address information	Sublist	N/A	For more information, see the BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address table.

BFD/MadDetects/MadDetect/MadIpv4Addresses/MadIpv4Address

This table contains MAD IPv4 address information.

XML structure

Please refer to the XML structure of BFD/MadDetects.

Table description

Item	Description
Feature name	BFD
Table name	MadIpv4Address
Table type	Multi-instance table
Row name	MadIpv4Address
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MadIpv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
MadIpv4Mask	IPv4 address mask.	Index	String, dotted decimal notation.	N/A
MemberID	Specifies the ID of an IRF member.	Index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. **Stand-alone mode: 0.**	The current member ID of the device. The maximum member ID is variant between products.

Contents

BFD 2
BFD/Base 2
BFD/Interfaces 2
BFD/SBFD/DestAddrRemoteDiscrs 3
BFD/Templates 3
BFD/StaticSessions 4
BFD/ForwardingMatchRDs 6
BFD/MadDetects 6
BFD/MadDetects/MadDetect/MadIpv4Addresses 6

BFD

BFD/Base

Message	Explanation
The specified configuration doesn't exist. 指定的配置不存在。	The specified configuration doesn't exist, when getting or deleting it.
Configuration already exists. 配置已经存在。	Configuration already exists, when set new configuration.
Failed to allocate memory. 分配内存失败。	No enough resource, please check your device.
Not support this value, maybe the device has no OAM CPU. 参数不支持, 当前设备可能没有OAM CPU。	The device cannot support these parameters, please use the bigger numbers.
BFD is not configured. BFD尚未配置。	BFD service has not been started.
Invalid value. 参数值无效。	Specified parameter value is not valid.
Min Control Interval not supported on the device. Please configure Min TX Interval and Min RX Interval. 本设备不支持配置Min Control Interval。请使用Min TX Interval和Min RX Interval。	The device does not support configuring the Min Control Interval parameter. Please configure Min TX Interval and Min RX Interval.
Min TX Interval and Min RX Interval not supported on the device. Please configure Min Control Interval. 本设备不支持配置Min TX Interval和Min RX Interval参数。请使用Min Control Interval。	The device does not support configuring the Min TX Interval and Min RX Interval parameters. Please configure Min Control Interval.

BFD/Interfaces

Message	Explanation
The specified configuration doesn't exist. 指定的配置不存在。	The specified configuration doesn't exist, when getting or deleting it.
Configuration already exists. 配置已经存在。	Configuration already exists, when set new configuration.
Failed to allocate memory. 分配内存失败。	No enough resource, please check your device.
Not support this value, maybe the device has no OAM CPU. 参数不支持, 当前设备可能没有OAM CPU。	The device cannot support these parameters, please use the bigger numbers.

BFD is not configured. BFD尚未配置。	BFD service has not been started.
Invalid value. 参数值无效。	Specified parameter value is not valid.
Min Control Interval not supported on the device. Please configure Min TX Interval and Min RX Interval. 本设备不支持配置Min Control Interval。请使用Min TX Interval和Min TX Interval。	The device does not support configuring the Min Control Interval parameter. Please configure Min TX Interval and Min RX Interval.
Min TX Interval and Min RX Interval not supported on the device. Please configure Min Control Interval. 本设备不支持配置Min TX Interval和Min TX Interval参数。请使用Min Control Interval。	The device does not support configuring the Min TX Interval and Min RX Interval parameters. Please configure Min Control Interval.

BFD/SBFD/DestAddrRemoteDiscrs

Message	Explanation
Not support configuring RemoteDiscriminator and RemoteDiscrIpv4Addr. 不支持同时配置RemoteDiscriminator和RemoteDiscrIpv4Addr。	Not support configuring RemoteDiscriminator and RemoteDiscrIpv4Addr. 不支持同时配置RemoteDiscriminator和RemoteDiscrIpv4Addr。
The specified configuration lack of RemoteDiscriminator or RemoteDiscrIpv4Addr. 配置缺少RemoteDiscriminator或RemoteDiscrIpv4Addr项。	The specified configuration lack of RemoteDiscriminator or RemoteDiscrIpv4Addr. 配置缺少RemoteDiscriminator或RemoteDiscrIpv4Addr项。

BFD/Templates

Message	Explanation
Authentication configuration lacks AuthType item. 认证配置缺少AuthType项。	Authentication configuration lacks AuthType item. 认证配置缺少AuthType项。
Authentication configuration lacks KeyID item. 认证配置缺少KeyID项。	Authentication configuration lacks KeyID item. 认证配置缺少KeyID项。
Authentication configuration lacks KeyType item. 认证配置缺少KeyType项。	Authentication configuration lacks KeyType item. 认证配置缺少KeyType项。
Authentication configuration lacks Key item. 认证配置缺少Key项。	Authentication configuration lacks Key item. 认证配置缺少Key项。

BFD/StaticSessions

Message	Explanation
Not support configure both IF and VRF interface. 不支持同时配置IF和IRF。	Not support configure both IF and VRF interface. 不支持同时配置IF和IRF。
The specified vrf name is invalid. 指定的VrfName非法。	The specified vrf name is invalid. 指定的VrfName非法。
The specified address type is invalid. 指定的AddrType非法。	The specified address type is invalid. 指定的AddrTypr非法。
The specified address is mismatch with address type. 指定的地址与地址类型不匹配。	The specified address is mismatch with address type. 指定的地址与地址类型不匹配。
Not support configure both LD and Auto. 不支持同时配置LD和Auto。	Not support configuring both LD and Auto. 不支持同时配置LD和Auto。
Echo session doesn't support configure minimum transmission interval. Echo 会话不支持配置最小发送间隔。	Echo session doesn't support configure minimum transmission interval. Echo 会话不支持配置最小发送间隔。
Echo session doesn't support configure minimum receiving interval. Echo 会话不支持配置最小接收间隔。	Echo session doesn't support configure minimum receiving interval. Echo 会话不支持配置最小接收间隔。
Control session doesn't support configure echo minimum receiving interval. Control 会话不支持配置echo最小接收间隔。	Control session doesn't support configure echo minimum receiving interval. Control 会话不支持配置echo最小接收间隔。
Authentication configuration lacks AuthType item. 认证配置缺少AuthType项。	Authentication configuration lacks AuthType item. 认证配置缺少AuthType项。
Authentication configuration lacks KeyID item. 认证配置缺少KeyID项。	Authentication configuration lacks KeyID item. 认证配置缺少KeyID项。
Authentication configuration lacks KeyType item. 认证配置缺少KeyType项。	Authentication configuration lacks KeyType item. 认证配置缺少KeyType项。
Authentication configuration lacks Key item. 认证配置缺少Key项。	Authentication configuration lacks Key item. 认证配置缺少Key项。
The specified configuration cann't be modifid. 该配置不可被修改。	The specified configuration cann't be modifid. 该配置不可被修改。
The specified configuration lacks of AddrType item. 配置缺少AddrType项。	The specified configuration lack of AddrType item. 配置缺少AddrType项。
The specified configuration lacks of PeerAddr item. 配置缺少PeerAddr项。	The specified configuration lack of PeerAddr item. 配置缺少PeerAddr项。
Control session lacks of SourceAddr or LD or RD. Control 会话缺少SourceAddr、LD或RD配置。	Control session lack of SourceAddr or LD or RD. Control 会话缺少SourceAddr、LD或RD配置。
Control session doesn't support configure DestAddr and EchoSrcAddr. Control 会话不支持配置DestAddr 、 EchoSrcAddr。	Control session doesn't support configure DestAddr and EchoSrcAddr. Control 会话不支持配置DestAddr 、 EchoSrcAddr。

Echo session lacks of LD or Auto. Echo 会话缺少LD或Auto配置项。	Echo session lack of LD or Auto. Echo 会话缺少LD或Auto配置项。
Echo session lacks of DestAddr. Echo 会话缺少DestAddr配置项。	Echo session lack of DestAddr. Echo 会话缺少DestAddr配置项。
Echo session doesn't support configure SrcAddr and RD. Echo 会话不支持配置SrcAddr 和 RD。	Echo session doesn't support configure SrcAddr and RD. Echo 会话不支持配置SrcAddr 和 RD。
Control session doesn't support configure Auto. Control 会话不支持配置Auto。	Control session doesn't support configure Auto. Control 会话不支持配置Auto。
Not support configure PeerAddr that is exist in the local device. 不支持配置与本端设备现有地址相同的PeerAddr。	Not support configure PeerAddr that is exist in the local device. 不支持配置与本端设备现有地址相同的PeerAddr。
Not support configure LD that is used by other bfd session. 不支持配置BFD 会话已经使用的LD。	Not support configure LD that is used by other bfd session. 不支持配置BFD 会话已经使用的LD。
Not support delete static bfd session that is associated with other protocols. 不支持删除还有协议关联的静态BFD 会话。	Not support delete static bfd session that is associated with other protocols. 不支持删除还有协议关联的静态BFD 会话。
Echo-mode sessions do not support configuring the PrimaryNode or SecondaryNode. Echo 会话不支持指定维护板。	Echo-mode sessions do not support configuring the PrimaryNode or SecondaryNode. Echo 会话不支持指定维护板。
Invalid LIP Addr. 无效的LIP地址。	Invalid LIP Addr. 无效的LIP地址。
You must specify the primary node first. 必须先指定BFD会话的主维护节点。	You must specify the primary node first. 必须先指定BFD会话的主维护节点。
Can not specify master or standby node. 不允许指定主用主控和备用主控板。	Can not specify master or standby node. 不允许指定主用主控和备用主控板。
You cannot configure both the outbound interface and tracked interface. 不支持同时配置出接口和监视接口。	You cannot configure both the outbound interface and tracked interface. 不支持同时配置出接口和监视接口。
The specified configuration cannot be deleted. 该配置不可被删除。	The specified configuration cannot be deleted. 该配置不可被删除。
You cannot use echo-mode BFD session to monitor interface status. 不支持使用echo报文方式的BFD会话监视接口状态。	You cannot use echo-mode BFD session to monitor interface status. 不支持使用echo报文方式的BFD会话监视接口状态。
Intf session lack of IfName. 接口BFD会话缺少IfName配置项。	Intf session lack of IfName. 接口BFD会话缺少IfName配置项。
Intf session doesn't support configuring Auto. 接口BFD会话不支持配置Auto。	Intf session doesn't support configuring Auto. 接口BFD会话不支持配置Auto。
Intf session doesn't support configuring One-Arm-Echo. 接口BFD会话不支持配置One-Arm-Echo。	Intf session doesn't support configuring One-Arm-Echo. 接口BFD会话不支持配置One-Arm-Echo。
The interface doesn't support Intf session. 本接口不支持配置检测接口状态的BFD会话。	The interface doesn't support Intf session. 本接口不支持配置检测接口状态的BFD会话。
A static BFD session associated with this interface already	A static BFD session associated with this interface already

exists. Please remove it first. 已存在一个检测该接口链路状态的静态BFD会话，请先删除此会话。	exists. Please remove it first. 已存在一个检测该接口链路状态的静态BFD会话，请先删除此会话。
A dynamic BFD session associated with this interface already exists. Please remove it first. 已存在一个检测该接口链路状态的动态BFD会话，请先删除此会话。	A dynamic BFD session associated with this interface already exists. Please remove it first. 已存在一个检测该接口链路状态的动态BFD会话，请先删除此会话。

BFD/ForwardingMatchRDs

Message	Explanation
The number of configured remote discriminators exceeds the upper limit. 配置的远端标识符数量超过上限。	The number of configured remote discriminators exceeds the upper limit. 配置的远端标识符数量超过上限。
The total number of remote discriminators and remote discriminator ranges exceeds the upper limit. 配置的远端标识符及远端标识符范围段总数超过上限。	The total number of remote discriminators and remote discriminator ranges exceeds the upper limit. 配置的远端标识符及远端标识符范围段总数超过上限。
The end remote discriminator must be greater than or equal to the start remote discriminator. 终止远端标识符必须大于或等于起始远端标识符。	The end remote discriminator must be greater than or equal to the start remote discriminator. 终止远端标识符必须大于或等于起始远端标识符。

BFD/MadDetects

Message	Explanation
MAD BFD has already enabled. MAD BFD已在其他端口使能。	MAD BFD has already enabled. MAD BFD已在其他端口使能。
The interface is not support BFD MAD function. 指定接口不支持BFD MAD 功能。	The interface is not support BFD MAD function. 指定接口不支持BFD MAD 功能。
BFD MAD function is only supported in IRF mode. BFD MAD功能只在IRF模式下支持。	BFD MAD function is only supported in IRF mode. BFD MAD功能只在IRF模式下支持。

BFD/MadDetects/MadDetect/MadIpv4Addresses

Message	Explanation
BFD MAD function is disabled on this interface, please enable BFD MAD function first 指定接口不支持BFD MAD功能，请先使能BFD MAD功能。	BFD MAD function is disabled on this interface, please enable BFD MAD function first 指定接口不支持BFD MAD功能，请先使能BFD MAD功能。
The specified IP is not in the same subnet with it's neighbor. 指定的IP与其邻居不在同一子网中。	The specified IP is not in the same subnet with it's neighbor. 指定的IP与其邻居不在同一子网中。
The IP address you entered overlaps with another interface.	The IP address you entered overlaps with another interface.

您输入的IP地址与另一个接口重复。	您输入的IP地址与另一个接口重复。
Invalid member ID. 无效的成员ID。	Invalid member ID. 无效的成员ID。

Contents

BFD event stream 1
Bfd Session State event 1
XML structure for event subscription 1
XML structure for event report 1

BFD event stream

BFD stream description.

Bfd Session State event

This event is used to report BFD session state.

XML structure for event subscription

```
<BfdSessionStateEvent>
</BfdSessionStateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BFD_STREAM</stream>
    <filter type="subtree">
      <BfdSessionStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/BFD:1.0">
      </BfdSessionStateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BFD
Event name	BfdSessionStateEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BFD:1.0
Support for extended query	No

XML structure for event report

```
<BfdSessionStateEvent>
  <ReportSessionState>
    <SessionName></SessionName>
    <LocalDiscriminator></LocalDiscriminator>
    <RemoteDiscriminator></RemoteDiscriminator>
    <CurrentState></CurrentState>
    <StateChangeReason></StateChangeReason>
    <SourceAddress></SourceAddress>
    <DestAddress></DestAddress>
    <IPv6SourceAddress></IPv6SourceAddress>
    <IPv6DestAddress></IPv6DestAddress>
    <Interface></Interface>
    <PathType></PathType>
```

```
  </ReportSessionState>
</BfdSessionStateEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-08-16T09:10:51</eventTime>
  <BfdSessionStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/BFD:1.0">
    <ReportSessionState>
      <SessionName>aaa</SessionName>
      <LocalDiscriminator>1000</LocalDiscriminator>
      <RemoteDiscriminator>2000</RemoteDiscriminator>
      <CurrentState>1</CurrentState>
      <StateChangeReason>5</StateChangeReason>
      <SourceAddress>1.1.1.1</SourceAddress>
      <DestAddress>2.2.2.2</DestAddress>
      <IPv6SourceAddress>::</IPv6SourceAddress>
      <IPv6DestAddress>::</IPv6DestAddress>
      <Interface>GigabitEthernet2/0/1</Interface>
      <PathType>0</PathType>
    </ReportSessionState>
  </BfdSessionStateEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
SessionName	Name of static BFD session	String. Length: 1 to 64 characters.	The value is NULL for dynamic BFD sessions.
LocalDiscriminator	Local discriminator	Unsigned integer.	N/A
RemoteDiscriminator	Remote discriminator	Unsigned integer.	N/A
CurrentState	Current BFD state	Enumeration: • 0—AdminDown • 1—Down • 2—Init • 3—Up	N/A
StateChangeReason	BFD state change reason	Enumeration: • 0—None • 1—Control timer expiry • 2—Echo failure • 3—Neighbor down • 4—Forwarding reset • 5—Path down • 6—Concatenated path down • 7—Admin down • 8—Reverse concatenated path down • 9—Mis-connectivity defect	Value range: 1 to 31.
SourceAddress	Local address	String.	An IPv4 address.
DestAddress	Peer address	String.	An IPv4 address.
IPv6SourceAddress	Local IPv6 address	String.	An IPv6 address.
IPv6DestAddress	Peer IPv6 address	String.	An IPv6 address.
Interface	Interface to which this BFD session belongs	String.	The value is NULL for multihop sessions.
PathType	The type of path on which BFD is running	Identity： • 0—BFD on IP single hop • 1—BFD on IP multicast hop • 2—BFD on MPLS Traffic Engineering • 3—BFD on MPLS Label Switched Path • 4—Micro-BFD on LAG member links	N/A

Contents

BGP 1
BGP/Operations 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 2
Responsed columns 2
BGP/FlushRoutes 2
XML structure 2
Responsed XML structure 2
Table description 3
Columns 3
Responsed columns 4
BGP/Resets 4
XML structure 4
Responsed XML structure 4
Table description 4
Columns 5
Responsed columns 5
BGP/Refreshs 6
XML structure 6
Responsed XML structure 6
Table description 6
Columns 7
Responsed columns 7

BGP

BGP/Operations

This table is a description of BGP protocol actions.

XML structure

```
<BGP>
  <Operations>
    <Operation>
      <OperationType></OperationType>
      <Name></Name>
    </Operation>
  </Operations>
</BGP>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	BGP
Table name	Operations
Table type	Multi-instance table
Row name	Operation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationType	Operation type	Index	Enumeration 1 – Send update message immediately 2 – Notice BGP protocol smooth start 3 –Notice BGP protocol smooth end 4 – Notice BGP protocol to execute route smoothing	The operation type specify the operation which BGP protocol should perform.
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.

Responsed columns

N/A

BGP/FlushRoutes

This table flush routes to BGP protocol.

XML structure

```
<BGP>
  <FlushRoutes>
    <FlushRoute>
      <Name></Name>
      <VRF></VRF>
      <OperationType></OperationType>
      <RouteType></RouteType>
      <RouteKey></RouteKey>
      <RouteSegment></RouteSegment>
      <RouteAttr></RouteAttr>
    </FlushRoute>
  </FlushRoutes>
</BGP>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	BGP
Table name	FlushRoutes
Table type	Multi-instance table
Row name	Operation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OperationType	Operation type	Index	Enumeration 1 – Add 2 – Delete	The operation type specify the operation that BGP should perform.
RouteType	Type of route	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—EVPN • 10—Link-State • 11—EVPN with pathid	
RouteKey	Key of route	Index	Binary. Length: 0 to 128 characters.	An empty string indicates there is no key of the route.
RouteSegment	Route information	Index	Binary. Length: 1 to 4096 characters.	
RouteAttr	Attribute of route		Binary. Length: 1 to 4096 characters.	

Responsed columns

N/A

BGP/Resets

This table resets data for the BGP protocol.

XML structure

```
<BGP>
  <Resets>
    <Reset>
      <Name></Name>
      <Type></Type>
      <Family></Family>
      <ASNumber></ASNumber>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <GroupName></GroupName>
      <VRF></VRF>
    </Reset>
  </Resets>
</BGP>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	BGP
Table name	Resets
Table type	Multi-instance table
Row name	Operation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
Type	Type	Index	Enumeration • 1 – As Number • 2 – Ipv4 Address • 3 – Ipv6 Address • 4 – all • 5 – external • 6 – Group Name • 7 – Internal	N/A
Family	Address family identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
IpAddress	Address of network		String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of network address		Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
VRF	VRF name		String. Length: 0 to 31 characters.	An empty string indicates the public network.

Responsed columns

N/A

BGP/Refreshs

This table manually resets the BGP session softly.

XML structure

```
<BGP>
  <Refreshs>
    <Refresh>
      <Name></Name>
      <Type></Type>
      <TriggerDirection></TriggerDirection>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <GroupName></GroupName>
      <VpnInstanceName></VpnInstanceName>
    </Refresh>
  </Refreshs>
</BGP>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	BGP
Table name	Refreshs
Table type	Multi-instance table
Row name	Operation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
Type	Session type	Index	Enumeration: • **1**—IPAddr • **2**—All • 3—External • 4—Group • 5—Internal	N/A
TriggerDirection	Triggering the soft reset of the direction	Index	Enumeration. • **1**—Export. • **2**—Import.	N/A
Family	Address family identifier of refresh	Index	Enumeration: • **1**—IPv4 Multicast. • **2**—IPv4 MVPN. • 3—IPv4 Rtfilter • 4—IPv4 Unicast • 5—IPv6 Multicast • 6—IPv6 Unicast. • 7—Link-State • 8—VPNv4 • 9—VPNv6 • 10—L2VPN • 11—L2VPN EVPN	N/A
IpAddress	Address of refresh		IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of refresh address		Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
VpnInstanceName	VPN instance name		String. Length: 1 to 31 characters.	An empty string indicates the public network.

Responsed columns

N/A

Contents

BGP 1

BGP/Instances 1
XML structure *1*
Table description *4*
Columns *4*
BGP/Instance/ EPEPeerSets 16
XML structure *17*
Table description *17*
Columns *17*
BGP/Instance/EPESRv6PeerSets 17
XML structure *17*
Table description *17*
Columns *18*
BGP/Instance/Interfaces 18
XML structure *18*
Table description *18*
Columns *19*
BGP/VRFs 19
XML structure *20*
Table description *20*
Columns *21*
BGP/CfgSessionGroups 25
XML structure *25*
Table description *26*
Columns *27*
BGP/CfgSessions 33
XML structure *33*
Table description *35*
Columns *36*
BGP/Familys 44
XML structure *44*
Table description *47*
Columns *48*
BGP/Familys/AdvertiseLocators 63
XML structure *63*
Table description *63*
Columns *64*
BGP/Networks 64
XML structure *64*
Table description *64*
Columns *65*
BGP/Aggregates 65
XML structure *65*
Table description *66*
Columns *67*
BGP/NeighborGroups 67
XML structure *67*
Table description *70*
Columns *71*
BGP/Neighbors 81
XML structure *81*
Table description *83*
Columns *84*
BGP/Redistributes 94
XML structure *94*
Table description *95*
Columns *96*

BGP/RedistributesAppend ····· 96
XML structure ····· *96*
Table description ····· *97*
Columns ····· *98*
BGP/BMPs ····· 98
XML structure ····· *98*
Table description ····· *99*
Columns ····· *100*
BGP/RouteModeLocRibFilters ····· 100
XML structure ····· *101*
</BGP>Table description ····· *101*
Columns ····· *102*
BGP/Rpkis ····· 102
XML structure ····· *102*
Table description ····· *103*
Columns ····· *103*
BGP/Rpkis/Rpki/Servers ····· 103
XML structure ····· *104*
Table description ····· *104*
Columns ····· *105*
BGP/FilterPolicyExports ····· 106
XML structure ····· *106*
Table description ····· *106*
Columns ····· *107*
BGP/PeerGpDefRtAdvVpnInsts ····· 108
XML structure ····· *108*
Table description ····· *108*
Columns ····· *109*
BGP/PeerGpExtDefRtAdvVpnInsts ····· 109
XML structure ····· *109*
Table description ····· *109*
Columns ····· *110*
BGP/PeerDefRtAdvVpnInsts ····· 110
XML structure ····· *110*
Table description ····· *111*
Columns ····· *111*
BGP/PeerExtDefRtAdvVpnInsts ····· 111
XML structure ····· *111*
Table description ····· *112*
Columns ····· *113*
BGP/LinklocalIfCfgSessions ····· 113
XML structure ····· *113*
Table description ····· *114*
Columns ····· *115*
BGP/LinklocalIfNeighbors ····· 116
XML structure ····· *116*
Table description ····· *117*
Columns ····· *118*
BGP/InterfaceCfgSessions ····· 120
XML structure ····· *120*
Table description ····· *121*
Columns ····· *122*
BGP/InterfaceNeighbors ····· 124
XML structure ····· *124*
Table description ····· *125*
Columns ····· *126*
BGP/RedistributesBier ····· 129
XML structure ····· *129*
Table description ····· *130*
Columns ····· *130*
BGP/ImportRibs ····· 130
XML structure ····· *130*

Table description *131*
Columns *132*

BGP

BGP/Instances

This table contains BGP instance information.

XML structure

```
<BGP>
  <Instances>
    <Instance>
      <Name></Name>
      <ASNumber></ASNumber>
      <NSR></NSR>
      <SendDelayTime></SendDelayTime>
      <SendDelayPrefix></SendDelayPrefix>
      <SendDelayIPv6Prefix></SendDelayIPv6Prefix>
      <SendLowPriorityPeerupDelayTime></SendLowPriorityPeerupDelayTime>
      <SendLowPriorityOnStartupTime></SendLowPriorityOnStartupTime>
      <SendStartupTime></SendStartupTime>
      <StartupPolicyMed></StartupPolicyMed>
      <FlushSuboptimalRoute></FlushSuboptimalRoute>
      <RouteReplicateEnable></RouteReplicateEnable>
      <DefaultRouteUpdateFirst></DefaultRouteUpdateFirst>
      <EbgpInterfaceSensitive></EbgpInterfaceSensitive>
      <GracefulRestartEnable></GracefulRestartEnable>
      <GracefulRestartTimerPurgeTime></GracefulRestartTimerPurgeTime>
      <GracefulRestartTimerRestart></GracefulRestartTimerRestart>
      <GracefulRestartTimerWaitForRib></GracefulRestartTimerWaitForRib>
      <IgnoreAllPeers>
        <IgnoreAllPeersEnable></IgnoreAllPeersEnable>
        <GracefulTime></GracefulTime>
        <CommunityNumber></CommunityNumber>
        <LocalPreference></LocalPreference>
        <Med></Med>
      </IgnoreAllPeers>
      <SRPolicySteering></SRPolicySteering>
      <IgnoreFirstAs></IgnoreFirstAs>
      <LabelAllocationMode></LabelAllocationMode>
      <LabeledRouteIgnoreNoTunnel></LabeledRouteIgnoreNoTunnel>
      <LogPeerChange></LogPeerChange>
      <PrimaryPathDetectBfdEcho></PrimaryPathDetectBfdEcho>
      <RetainLocalLabel></RetainLocalLabel>
      <RouteRateLimit></RouteRateLimit>
      <RouteUpdateIntervalWithdrawnEnable></RouteUpdateIntervalWithdrawnEnable>
      <SnmpContextName></SnmpContextName>
```

```
<VpnPopgo></VpnPopgo>
<ConfederationId></ConfederationId>
<ConfederationNonstandard></ConfederationNonstandard>
<ConfederationPeerAs></ConfederationPeerAs>
<GracefulRestartPeerReset></GracefulRestartPeerReset>
<IgnoreReflectDifferentVrf></IgnoreReflectDifferentVrf>
<AsPathLimit></AsPathLimit>
<BestRouteAsPathNeglectAllInstance></BestRouteAsPathNeglectAllInstance>
<BestRouteCompareMEDAllInstance></BestRouteCompareMEDAllInstance>
<BestRouteConfederationMEDAllInstance></BestRouteConfederationMEDAllInstance>
<BestRouteIgpMetricIgnoreAllInstance></BestRouteIgpMetricIgnoreAllInstance>
<BestRouteRouterIdIgnoreAllInstance></BestRouteRouterIdIgnoreAllInstance>
<UpdateDelayWaitOtherProtocol></UpdateDelayWaitOtherProtocol>
<VpnRouteCrossMultipath></VpnRouteCrossMultipath>
<KeepAllRoutes></KeepAllRoutes>
<RouteUpdateDelay></RouteUpdateDelay>
<BmpPrefixListName4></BmpPrefixListName4>
<BmpRdListNum4></BmpRdListNum4>
<BmpPrefixListName6></BmpPrefixListName6>
<BmpRdListNum6></BmpRdListNum6>
<Isolate></Isolate>
<EPEPeerSets>
  <EPEPeerSet>
    <SetName></SetName>
    <SetLabel></SetLabel>
    <LinkDown></LinkDown>
  </EPEPeerSet>
</EPEPeerSets>
<EPESRv6Locator></EPESRv6Locator>
<EPESRv6AutoSidMode></EPESRv6AutoSidMode>
<EPESRv6PeerSets>
  <EPESRv6PeerSet>
     <SetName></SetName>
     <Psp></Psp>
     <NoPspUsp></NoPspUsp>
     <PspUspUsd></PspUspUsd>
     <StaticSidMode></StaticSidMode>
     <AutoSidMode></AutoSidMode>
  </EPESRv6PeerSet>
</EPESRv6PeerSets>
<UpdateIntervalIntelligent>
  <MinInterval></MinInterval>
  <MaxInterval></MaxInterval>
  <IgnoreCount></IgnoreCount>
  <IncrementalInterval></IncrementalInterval>
</UpdateIntervalIntelligent>
<PathMtuDiscovery></PathMtuDiscovery>
<Shutdown></Shutdown>
```

```
      <BestRouteSameRd></BestRouteSameRd>
      <EPEMetricDelayAdvertisement></EPEMetricDelayAdvertisement>
      <EPEMetricDelaySuppression>
        <Time></Time>
        <ThresholdPercent></ThresholdPercent>
        <ThresholdAbsolute></ThresholdAbsolute>
      </EPEMetricDelaySuppression>
      <EPEMetricBandwidthAdvertisement></EPEMetricBandwidthAdvertisement>
      <EPEMetricBandwidthSuppression>
        <Time></Time>
      </EPEMetricBandwidthSuppression>
      <Interfaces>
       <Interface>
        <IfName></IfName>
        <LinkDelay>
          <Average></Average>
          <Minimal></Minimal>
          <Maximal></Maximal>
          <Variation></Variation>
         </LinkDelay>
         <LinkLoss>
          <Loss></Loss>
         </LinkLoss>
        </Interface>
       </Interfaces>
       <PrimaryPathDetectBfdCtrl></PrimaryPathDetectBfdCtrl>
       <EPEMetricLinkLossAdvertisement></EPEMetricLinkLossAdvertisement>
       <EPEMetricLinkLossSuppression>
        <Time></Time>
        <ThresholdPercent></ThresholdPercent>
        <ThresholdAbsolute></ThresholdAbsolute>
       <EPEMetricLinkLossSuppression>
       <EvpnReOriginated></EvpnReOriginated>
       <DynamicPeerLimit></DynamicPeerLimit>
       <PeerFormatLimit></PeerFormatLimit>
       <PeerSendLimit></PeerSendLimit>
       <SendBufferSize></SendBufferSize>
       <AdvertiseRouteUpdates>
        <AdvertiseInterval></AdvertiseInterval>
        <AdvertiseCount></AdvertiseCount>
       </AdvertiseRouteUpdates>
      </Instance>
    </Instances>
  </BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates all BGP processes. When execute get bulk operation, you can only get the data of the specified BGP instance.

Column name	Column description	Column type	Data type and restrictions	Remarks
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
NSR	Nonstop Routing		Enumeration. • **0**—Disable.(default) • **1—Enable.**	N/A
SendDelayTime	Send delay time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker never send the update message. SendLowPriorityPeerupDelayTime, SendLowPriorityOnStartupTime and SendDelayTime cannot be configured at the same time.
SendDelayPrefix	Send delay using IPv4 prefix list		String. Length: 1 to 63 characters.	N/A
SendDelayIPv6Prefix	Send delay using IPv6 prefix list		String. Length: 1 to 63 characters.	N/A
SendLowPriorityPeerupDelayTime	Modify priority of routes to lowest-priority when the neighbors change from down to up		Unsigned integer. Value range: 1 to 864000	The value 0 indicates that lowest-priority routes is sent always. SendLowPriorityPeerupDelayTime, SendLowPriorityOnStartupTime and SendDelayTime cannot be configured at the same time.
SendLowPriorityOnStartupTime	Modify priority of routes to lowest-priority when the device is restarted		Unsigned integer. Value range: 1 to 3600	The value 0 indicates that lowest-priority routes is sent always; SendLowPriorityPeerupDelayTime, SendLowPriorityOnStartupTime and SendDelayTime cannot be configured at the same time. SendLowPriorityOnStartupTime and

Column name	Column description	Column type	Data type and restrictions	Remarks
				SendDelayTime cover each other.
SendStartupTime	Send startup time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker always send the update message with the startup policy.
StartupPolicyMed	Satrtup policy MED		Unsigned integer. Value range: 0 to 4294967295	N/A
FlushSuboptimalRoute	Flush suboptimal route to RIB		Enumeration. • 0—Disable. • 1—Enable.	N/A
RouteReplicateEnable	Enable mutual route replication between public and private networks		Enumeration. • 0—Disable. • 1—Enable.	N/A
DefaultRouteUpdateFirst	Enable BGP to send withdrawal messages of the default route prior to other routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
EbgpInterfaceSensitive	Immediate re-establishment of direct EBGP sessions		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulRestartEnable	Enabling graceful restart		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulRestartTimerPurgeTime	Graceful restart purge time in seconds		Unsigned integer. Value range: 1 to 6000	Graceful restart must be enabled first.
GracefulRestartTimerRestart	Graceful restart restart time in seconds		Unsigned integer. Value range: 3 to 600	Graceful restart must be enabled first.
GracefulRestartTimerWaitForRib	Graceful restart time to wait for the End-of-RIP marker in seconds		Unsigned integer. Value range: 3 to 3600	Graceful restart must be enabled first.
IgnoreAllPeers	Ignore all peers	Data Structure	Include: • IgnoreAllPeersEnable • GracefulTime • CommunityNumber	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• LocalPreference • Med	

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreAllPeersEnable	Ignore all peers enable		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulTime	Graceful time in seconds		Unsigned integer. Value range: 60 to 65535	Ignore all peers must be enabled first. Community, LocalPreference and Med should be set on at least GracefulTime.
CommunityNumber	Community number		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	Ignore all peers must be enabled first. Example: 10 or 1:65535 Repeat supported for 32 times a with CommunityAttr. Only supported for basic community list.
LocalPreference	Local preference		Unsigned integer. Value range: 0 to 4294967295	Ignore all peers must be enabled first.
Med	MED of route		Unsigned integer. Value range: 0 to 4294967295	Ignore all peers must be enabled first.
SRPolicySteering	Control SR Policy steering.		Enumeration. • 1—SRPolicySteeringColor(default) • 2—SRPolicySteeringDisable • 3—SRPolicySteeringPolicy	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable. • 1—Enable.	N/A
LabelAllocationMode	Label allocation mode		Enumeration. • 0—per-hop. • 1—per-prefix • 2- per-vrf.	N/A
LabeledRouteIgnoreNoTunnel	Ignore labeled routes with no tunnel information		Enumeration. • 0—Disable. • 1—Enable.	N/A
LogPeerChange	Log peer change		Enumeration. • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryPathDetectBfdEcho	Detect primary path using BFD echo.		Enumeration. • 0—Disable. (default) • 1—Enable.	In PrimaryPathDetectBfdEcho and PrimaryPathDetectBfdCtrl, The latest configuration takes effect.
RetainLocalLabel	Update delay for local MPLS labels in seconds		Unsigned integer. Value range: 1 to 21845	N/A
RouteRateLimit	Route rate limit		Unsigned integer. Value range:0 to 4294967295	N/A
RouteUpdateIntervalWithdrawnEnable	Apply route update interval setting to withdrawn routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
SnmpContextName	SNMP context name		String. Length: 1 to 32 characters.	N/A
VpnPopgo	VPN POPGO		Enumeration. • 0—Disable. • 1—Enable.	N/A
ConfederationId	Confederation ID		Unsigned integer. Value range: 1 to 4294967295	N/A
ConfederationNonstandard	Enable compatibility with routers not compliant with RFC 3065 in the confederation		Enumeration. • 0—Disable. • 1—Enable.	N/A
ConfederationPeerAs	Confederation peer sub-AS number.		Unsigned integer. Value range: 1 to 4294967295	N/A
GracefulRestartPeerReset	Reset peer sessions gracefully		Enumeration. • 1—no-all. • 2—all.	Graceful restart must be enabled first.
IgnoreReflectDifferentVrf	Clear CLUSTER_LIST and ORIGINATOR_ID attributes before advertising routes to other VPN instances		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
AsPathLimit	Set the AS path		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	length limit		Value range: 1 to 2000	
BestRouteAsPathNegleictAllInstance	Ignore the AS-PATH attribute during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteCompareMEDAllInstance	Consider MED value during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteConfederationMEDAllInstance	Compare the MEDs of routes from confederation peers during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteIgpMetricIgnoreAllInstance	Ignore IGP metrics during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteRouterIdIgnoreAllInstance	Ignore router ID during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpdateDelayWaitOtherProtocol	Set the time to wait for other protocols to complete GR or NSR		Unsigned integer. Value range: 60 to 1200	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VpnRouteCrossMultipath	Redistribute multiple routes with the same prefix and RD to the VPN routing table		Enumeration. • 0—Disable.(default) 1—Enable.	N/A
KeepAllRoutes	Save original routing information		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
RouteUpdateDelay	Set the delay to send updates to peers		Unsigned integer. Value range: 1 to 600	N/A
BmpPrefixListName4	Specify BGP route filtering policy based on an ipv4 prefix list		String. Length: 1 to 63 characters.	N/A
BmpRdListNum4	Specify BGP route filtering policy based on a route distinguisher list		Unsigned integer. Value range: 1 to 65535.	BmpPrefixListName4 must be configured first.
BmpPrefixListName6	Specify BGP route filtering policy based on an ipv6 prefix list		String. Length: 1 to 63 characters.	N/A
BmpRdListNum6	Specify BGP route filtering policy based on a route distinguisher list		Unsigned integer. Value range: 1 to 65535.	BmpPrefixListName6 must be configured first.
Isolate	Isolate BGP from the current network		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EPEPeerSet	Site containing the EPEPeerSet information	Subtable	N/A	For more information, see the BGP/Instance/EPEPeerSets
EPESRv6Locator	Specify an EVESRV6 locator		String. Length: 1 to 31 characters.	N/A
EPESRv6AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • 1—auto-normal(default). • 2—auto-sid-coc32. • 3—auto-sid-cocboth-coc32. • 4—auto-sid-cocboth-coc32-none.	EPESRv6Locator is configured, then EPESRv6AutoSidMode can be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—auto-disable	

Column name	Column description	Column type	Data type and restrictions	Remarks
EPESRv6PeerSets	Site containing the EPE PeerSets information	Sublist	• N/A	For more information, see the BGP/EPESRv6PeerSets
UpdateIntervalIntelligent	Calculation parameters of the suppression interval for sending the same route update to the peer or peer group	Data structure	Members include: • MinInterval • MaxInterval • IgnoreCount • IncrementalInterval.	The MaxInterval must be longer than the MinInterval
MinInterval	Minimum suppression interval		Unsigned integer. Value range: 0 to 600. • Default is 5.	N/A
MaxInterval	Maximum suppression interval		Unsigned integer. Value range: 0 to 600. • Default is 30.	N/A
IgnoreCount	Maximum number of times that BGP can send the same route update to the peer or peer group		Unsigned integer. Value range: 0 to 200. • Default is 3.	N/A
IncrementalInterval	Time of penalty increment.		Unsigned integer. Value range: 1 to 10. • Default is 1.	N/A
PathMtuDiscovery	TCP path MTU discovery configuration		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Shutdown	Administratively shutdown BGP protocol		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteSameRd	Enabling bestroute same-rd		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EPEMetricDelayAdvertisement	Advertise link delay metric information in LS-route	N/A	Boolean: • true—Enable BGP to advertise link delay metric information in LS-route. • false—Disable BGP to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			advertise link delay metric information in LS-route (default).	

Column name	Column description	Column type	Data type and restrictions	Remarks
EPEMetricDelaySuppression	enable a device to suppress advertisement of link delay information.	Data structure	Members include: • Time. • ThresholdPercent. • ThresholdAbsolute.	configure suppression timer.
Time	Specifies the link delay information timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
ThresholdPercent	Specifies the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 100. Default: 10 seconds.	N/A
ThresholdAbsolute	Specifies the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 10000. Default: 1000 seconds.	N/A
EPEMetricBandwidthAdvertiseMent	Advertise link bandwidth metric information in LS-route	N/A	Boolean: • true—Enable BGP to advertise link bandwidth metric information in LS-route. • false—Disable BGP to advertise link bandwidth metric information in LS-route (default).	N/A
EPEMetricBandwidthSuppression	enable a device to suppress link bandwidth information advertisement.	Data structure	Members include: • Time.	Configure suppression timer
Time	Specifies the suppression timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
Interfaces	Site containing the Interfaces information	Sublist	N/A	For more information, see the BGP/Instance/Interfaces
PrimaryPathDetectBfdCtrl	Detect primary path using BFD ctrl.		Enumeration. • 0—Disable.(default) • 1—Enable.	In PrimaryPathDetectBfdEcho and PrimaryPathDetectBfdCtrl, The latest configuration takes effect.
EPEMetricLinkLossAdvertisement	Advertise link loss metric information in LS routes	N/A	Enumeration. • Disable.(default) • Enable.	N/A
EPEMetricLinkLossSuppre	Suppress	Data	Members include:	Configure the advertisement

Column name	Column description	Column type	Data type and restrictions	Remarks
ssion	advertisement of link loss metric information.	structure	• Time. • ThresholdPercent. • ThresholdAbsolute.	delay timer.
Time	Specify the delay timer for link loss metric information advertisement.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
ThresholdPercent	Specify the link loss variation rate threshold	N/A	Unsigned integer. Value range: 0 to 100. Default: 10	N/A
ThresholdAbsolute	Specify the absolute link loss variation threshold	N/A	Unsigned integer. Value range: 0 to 10000. Default: 1000	N/A
EvpnReOriginated	Re-originated MAC routes		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
DynamicPeerLimit	Maximum number of dynamic peers that can be established	N/A	Unsigned integer. Value range: 1 to 16000 Default: unlimited	N/A
PeerFormatLimit	The maximum number for formating updates		Unsigned integer. Value rang e: 1 to 1000	N/A
PeerSendLimit	The maximum number for sending updates		Unsigned integer. Value range: 1 to 100	N/A
SendBufferSize	The TCP send buffer size		Unsigned integer. Value range: 2048 to 327680	N/A
AdvertiseRouteUpdates	Configure sending BGP route updates	Data Structure	Include: • AdvertiseInterval. • AdvertiseCount.	N/A
AdvertiseInterval	The interval for sending BGP route updates		Unsigned integer. Value range: 100 to 10000	The interval for sending BGP route update must be 100 integer times
AdvertiseCount	The count for sending BGP route updates		Unsigned integer. Value range: 1 to 40960	

BGP/Instance/ EPEPeerSets

This table contains BGP Instance EPE PeerSet information.

XML structure

Please refer to the XML structure of BGP/Instances.

Table description

Item	Description
Feature name	BGP
Table name	EPEPeerSets
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SetName	PeerSet name	Index	String. Length: 1 to 63 characters.	N/A
SetLabel	Routing policy used to filter specific routes to be advertised		NA	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
LinkDown	LinkDownType		Enumeration. • 0—Disable.(Default). • 1—Relate BFD state.	N/A

BGP/Instance/EPESRv6PeerSets

This table contains BGP Instances information.

XML structure

Please refer to the XML structure of BGP/Instances

Table description

Item	Description
Feature name	BGP
Table name	EPESRv6PeerSets

Table type	Multi-instance table
Row name	EPESRv6PeerSet
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SetName	Instance set name	Index	String. Length: 1 to 63 characters.	N/A
Psp	peer-set peer type static End.X SID	N/A	String, IPv6 address string.	N/A
NoPspUsp	End.X SID(-NO-FLAVOR)	N/A	String IPv6 address string.	N/A
PspUspUsd	End.X SID(PSP USP USD)	N/A	String IPv6 address string.	N/A
StaticSidMode	Static Sid Mode.	N/A	Enumeration: • **1**—normal(default). • **2**—coc32. • **3**—cocboth-coc32. • **4**—cocboth-coc-none.	StaticSidMode and AutoSidMode cannot be configured at the same time.
AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • **1**—auto-normal(default). • **2**—auto-sid-coc32. • **3**—auto-sid-cocboth-coc32. • **4**—auto-sid-cocboth-coc32-none.	StaticSidMode and AutoSidMode cannot be configured at the same time.

BGP/Instance/Interfaces

This table contains BGP Instances information.

XML structure

Please refer to the XML structure of BGP/Instances

Table description

Item	Description
Feature name	BGP

Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface Name	Index	String. Length: 1 to 47 characters.	N/A
LinkDelay	configure link delay parameters on an interface.	Data structure	Members include: • Average. • Minimal. • Maximal. • Variation.	A property column must exist.
Average	Specifie the average link	N/A	Unsigned integer. • Value range:1 to 16777215.	N/A
Minimal	Specifie the minimum link.	N/A	Unsigned integer. • Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously
Maximal	Specifie the maximum link.	N/A	Unsigned integer. • Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously.
Variation	Set the acceptable delay variation.	N/A	Unsigned integer. • Value range: 1 to 16777215.	N/A
LinkLoss	Configure the link loss value on an interface.	Data structure	Members include: Loss.	N/A
Loss	Specify the link loss value.	N/A	Unsigned integer. Value range:1 to 16777214.	N/A

BGP/VRFs

This table contains BGP VRF information.

XML structure

```
<BGP>
  <VRFs>
    <VRF>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
      <BestRouteIgpMetricIgnore></BestRouteIgpMetricIgnore>
      <BestRouteAsPathNeglect></BestRouteAsPathNeglect>
      <BestRouteCompareMED></BestRouteCompareMED>
      <BestRouteConfederationMED></BestRouteConfederationMED>
      <BestRouteRouterIdIgnore></BestRouteRouterIdIgnore>
      <CompareDifferentAsMED></CompareDifferentAsMED>
      <TimerConnectRetry></TimerConnectRetry>
      <BestRouteEncapType></BestRouteEncapType>
      <BestRouteNexthopType></BestRouteNexthopType>
      <BestRouteNexthopResolved></BestRouteNexthopResolved>
      <MedPlusIgp>
        <IgpMultiplier></IgpMultiplier>
        <MedMultiplier></MedMultiplier>
      </MedPlusIgp>
      <NexthopRecursiveRestrain>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
        <Millisecond></Millisecond>
      </NexthopRecursiveRestrain>
    </VRF>
  </VRFs>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
RouterId	BGP Router Id		IPv4 address string	N/A
Timer	Keepalive and Holdtime	Data Structure	Include: • KeepAlive • HoldTime	N/A
KeepAlive	Keepalive Interval in Seconds		Unsigned integer. Value range: 0 to 21845	N/A
HoldTime	Holdtime in Seconds		Unsigned integer. Value range: 0 to 65535	N/A
BestRouteIgpMetricIgnore	Ignore IGP metrics during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteAsPathNeglect	Ignore the AS-PATH attribute during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteCompareMED	Consider MED value during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteConfederationMED	Compare the MEDs of routes from confederation peers during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteRouterIdIgnore	Ignore router ID during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
CompareDifferentAsMED	Compare the MEDs of routes from different ASs during optimal route selection		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
TimerConnectRetry	Session retry timer in seconds		Unsigned integer. Value range: 1 to 65535	N/A
BestRouteEncapType	Specify the SRv6 (MPLS) encapsulated route as the best route.		Enumeration. • 0—Disable.(default) • 1—SRv6. • 2—MPLS. • 3—SRv6 preferred. • 4—MPLS preferred.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BestRouteNexthopType	Perform optimal route selection based on the next hop type.		Enumeration. • 0—Disable. • 1—Tunnel. • 2—IP.	N/A
BestRouteNexthopResolved	Configure next hop type-based optimal route selection.		Enumeration. • 0—Disable. • 1—Tunnel. • 2—None	N/A
MedPlusIgp	Use the sum of the calculated MED and IGP metric values to perform optimal route selection.	Data Structure	Include: • IgpMultiplier. • MedMultiplier.	N/A
IgpMultiplier	Specify an IGP metric multiplier.		Unsigned integer. Value range: 1 to 1000	N/A
MedMultiplier	Specify an MED value multiplier.		Unsigned integer. Value range: 1 to 1000	N/A
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Millisecond.	N/A
Maximum	The maximum restraint time for next hop recursive lookup in seconds.		Unsigned integer. Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for next hop recursive lookup in milliseconds.		Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup		Unsigned integer. Value range:	Incremental cannot be set at the same time as Fixed. When configuring Maximum and

Column name	Column description	Column type	Data type and restrictions	Remarks
	in milliseconds.		10 to 60000.	Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.		Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Millisecond.	N/A
Maximum	The maximum restraint time for next hop recursive lookup in seconds.		Unsigned integer. Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for next hop recursive lookup in milliseconds.		Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup in milliseconds.		Unsigned integer. Value range: 10 to 60000.	Incremental cannot be set at the same time as Fixed. When configuring Maximum and Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.		Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.

BGP/CfgSessionGroups

This table contains configure information of BGP session group.

XML structure

```
<BGP>
  <CfgSessionGroups>
    <CfgSessionGroup>
      <Name></Name>
      <VRF></VRF>
      <GroupName></GroupName>
      <Type></Type>
      <ASNumber></ASNumber>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <EbgpMaxHop></EbgpMaxHop>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
      <DualAS></DualAS>
      <PrependGlobalAS></PrependGlobalAS>
      <PrependFakeAS></PrependFakeAS>
      <Dscp></Dscp>
      <IgnoreOriginatorid></IgnoreOriginatorid>
      <LogChange></LogChange>
      <LowMemoryExempt></LowMemoryExempt>
      <Ipv4SourceAddr></Ipv4SourceAddr>
      <Ipv6SourceAddr></Ipv6SourceAddr>
      <SubstituteAs></SubstituteAs>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
      <TtlSecurity></TtlSecurity>
      <CapSupAs4></CapSupAs4>
      <CapOrfNonStandard></CapOrfNonStandard>
      <CapConventional></CapConventional>
      <CapExtendedMsg></ CapExtendedMsg>
      <IpsecProfile></IpsecProfile>
      <Keychain></Keychain>
      <GracefulRestartExtra></GracefulRestartExtra>
      <ClusterId></ClusterId>
```

```
      <MplsLocalIfnetDisable></MplsLocalIfnetDisable>
      <FlapDampen></FlapDampen>
      <SendBufferSize></SendBufferSize>
      <AdvertiseRouteUpdates>
        <AdvertiseInterval></AdvertiseInterval>
        <AdvertiseCount></AdvertiseCount>
      </AdvertiseRouteUpdates>
      <EgressEngineering></EgressEngineering>
      <EgressEngineeringType></EgressEngineeringType>
      <EgressEngineeringPolicyName></EgressEngineeringPolicyName>
      <EgressEngineeringStaicLabel></EgressEngineeringStaicLabel>
      <EgressEngineeringLinkDown></EgressEngineeringLinkDown>
      <PeerSet></PeerSet>
      <EPESRv6></EPESRv6>
      <UpdateIntervalIntelligent></UpdateIntervalIntelligent>
      <BfdParameters>
        <DetectMultiplier></DetectMultiplier>
        <MinReceiveInterval></MinReceiveInterval>
        <MinTransmitInterval></MinTransmitInterval>
      </BfdParameters>
      <TcpMss></TcpMss>
      <IgnoreEbgpNextHopCheck></IgnoreEbgpNextHopCheck>
      <IgnoreFirstAs></IgnoreFirstAs>
      <Tracking></Tracking>
      <TrackingDelayTime></TrackingDelayTime>
      <MonitorLinkGroup></MonitorLinkGroup>
      <LocalGREnable></LocalGREnable>
      <LocalGRTimerRestart></LocalGRTimerRestart>
      <LocalGRTimerWaitForRib></LocalGRTimerWaitForRib>
    </CfgSessionGroup>
  </CfgSessionGroups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`CfgSessionGroups`
Table type	Multi-instance table
Row name	`CfgSessionGroup`
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
Type	Internal or External		Enumeration. • 0—Internal.(default) • 1—External.	N/A
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	Bfd type		• Enumeration. • 0—default type • 1—single-hop • 2—multi-hop • 3—echo • 4—compatible • 5—single-hop compatible • 6—multi-hop compatible	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations. Some versions not support. For relevant information, see the XSD document of your product.
EbgpMaxHop	EBGP multihop		Unsigned integer. Value range: 1 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
DualAS	Support both real and fake AS numbers for peer group relationship establishment		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not DualAS, the value for DualAS is 0.
PrependGlobalAS	Add the real AS number to the AS_PATH attribute in sent packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependGlobalAS, the value for PrependGlobalAS is 0.
PrependFakeAS	Add the fake AS number to the AS_PATH attribute in received packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependFakeAS, the value for PrependFakeAS is 0.
Dscp	Set the DSCP priority of BGP packets		Unsigned integer. Value range: 0 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Ipv4SourceAddr	IPv4 Source Address		IPv4 address string .	Example: 1.1.1.1.
Ipv6SourceAddr	IPv6 Source Address		IPv6 address string.	Example: 1::1.
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		**Unsigned integer.** **Value range:** **0 to 21845**	N/A
HoldTime	Holdtime in seconds		**Unsigned integer.** **Value range:** **0 , 3 to 65535**	N/A
TtlSecurity	Enable BGP GTSM fuction for a peer or peer group		**Unsigned integer.** **Value range:** **1 to 254**	N/A
CapSupAs4	Enable 4-byte AS number suppression function		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapOrfNonStandard	Enable non-standard ORF capability for BGP neighbor		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	negotiation			
CapConventional	Disable the BGP route refresh,multiprotocol extension, and 4-byte AS number function of the local router and the specified peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapExtendedMsg	Enable the BGP extended message capability		Enumeration. • Disable.(default) Enable.	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.
ClusterId	Configure the cluster ID for a peer or peer group		Unsigned integer. Value range: 1 to 4294967295. IPv4 address string	N/A
MplsLocalIfnetDisable	Disable MPLS local IFNET tunnel establishment to the specified peer or peer group		Enumeration. • 0—Disable.(default) 1—Enable.	N/A
FlapDampen	Configure the peer flap dampening feature		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
SendBufferSize	Set the buffer size to send updates to peers		Unsigned integer. Value range: 2048 to 327680.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseRouteUpdates	BGP Advertise updates	Data structure	Members include: • AdvertiseInterval • AdvertiseCount	N/A
AdvertiseInterval	Set the interval to send updates to peers		Unsigned integer. Value range: 100 to 10000.	N/A
AdvertiseCount	Set the count to send updates to peers		Unsigned integer. Value range: 1 to 40960.	N/A
EgressEngineering	Configure egress peer engineering		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EgressEngineeringType	BGP peering segment type		Enumeration. • 0—Node. • 1—Adjacency. • 2—Set. • 3—Node-Adjacency.	N/A
EgressEngineeringPolicyName	Routing policy specified for the EPE peer set.		String. Length: 1 to 63 characters.	N/A
EgressEngineeringStaticLabel	SID label for the EPE peer set		N/A	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
EgressEngineeringLinkDown	Configure EPE SID label link down type		Enumeration. • 0—Disable.(default). • 1—Relate BFD state.	N/A
PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A
EPESRv6	Configure EPESRv6		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
UpdateIntervalIntelligent	Whether to control the route update interval with intelligent timer		Enumeration. • 0—Disable.(default) • 1—Enable.	If you configure this column, the UpdateInterval column will restore the default. The UpdateInterval and UpdateIntervalIntelligent can not be configured together.

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdParameters	Configure BFD parameters	Data structure	Members include: • DetectMultiplier • MinReceiveInterval. MinTransmitInterval	N/A
DetectMultiplier	Detection time multiplier		Unsigned integer. Value range: 1 to 4294967295	The value range for this argument varies by device model.
MinReceiveInterval	Minimum receiving interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
MinTransmitInterval	Minimum transmitting interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
TcpMss	Set the maximum TCP segment size		Unsigned integer. Value range: 176 to 4096.	N/A
IgnoreEbgpNextHopCheck	Ignore the next hops check of routes received from ebgp peers		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Tracking	Fast detect the unreachable destined for the peer and reset the session		Enumeration. • 0—Disable. • 1—Enable.	N/A
TrackingDelayTime	Specify the delay to reset the session, in seconds		Unsigned integer. Value range: 0 to 65535	The object does not exist if Tracking is not configured. If you configure Tracking but not TrackingDelayTime, the value for TrackingDelayTime is 0.
MonitorLinkGroup	Configure a monitor link group to monitor the state of the specified BGP peer session		Unsigned integer. Value range: 1 to 65535.	The value range for this column varies by device model.
LocalGREnable	Configure local Graceful Restart		Enumeration. • Disable.(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	(GR) capability		• Enable.	
LocalGRTimerRestart	Configure the restart timer for local GR		Unsigned integer. Value range: 3 to 86400	Default: 150
LocalGRTimerWaitForRib	Configure the wait-for-rib timer for local GR		Unsigned integer. Value range: 3 to 3000	Default: 600

BGP/CfgSessions

This table contains configure information of BGP session.

XML structure

```
<BGP>
  <CfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <EbgpMaxHop></EbgpMaxHop>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
      <DualAS></DualAS>
      <PrependGlobalAS></PrependGlobalAS>
      <PrependFakeAS></PrependFakeAS>
      <Dscp></Dscp>
      <IgnoreOriginatorid></IgnoreOriginatorid>
      <LogChange></LogChange>
      <LowMemoryExempt></LowMemoryExempt>
      <SourceAddress></SourceAddress>
      <SubstituteAs></SubstituteAs>
```

```
<Timer>
  <KeepAlive></KeepAlive>
  <HoldTime></HoldTime>
</Timer>
<TtlSecurity></TtlSecurity>
<CapSupAs4></CapSupAs4>
<CapOrfNonStandard></CapOrfNonStandard>
<CapConventional></CapConventional>
<CapExtendedMsg></ CapExtendedMsg>
<IpsecProfile></IpsecProfile>
<Keychain></Keychain>
<GracefulRestartExtra></GracefulRestartExtra>
<ClusterId></ClusterId>
<MplsLocalIfnetDisable></MplsLocalIfnetDisable>
<FlapDampen></FlapDampen>
<SendBufferSize></SendBufferSize>
<AdvertiseRouteUpdates>
  <AdvertiseInterval></AdvertiseInterval>
  <AdvertiseCount></AdvertiseCount>
</AdvertiseRouteUpdates>
<EgressEngineering></EgressEngineering>
<EgressEngineeringType></EgressEngineeringType>
<EgressEngineeringPolicyName></EgressEngineeringPolicyName>
<EgressEngineeringStaticLabel></EgressEngineeringStaticLabel>
<EgressEngineeringLinkDown></EgressEngineeringLinkDown>
<PeerSet></PeerSet>
<EPESRv6></EPESRv6>
<EPESRv6Locator></EPESRv6Locator>
<EPESRv6AutoSidMode></EPESRv6AutoSidMode>
<EPESRv6StaticSID>
  <Psp></Psp>
  <NoPspUsp></NoPspUsp>
  <PspUspUsd></PspUspUsd>
  <StaticSidMode></StaticSidMode>
</EPESRv6StaticSID>
<EPESRv6PeerSet></EPESRv6PeerSet>
<UpdateIntervalIntelligent></UpdateIntervalIntelligent>
<BfdParameters>
  <DetectMultiplier>
  </DetectMultiplier>
  <MinReceiveInterval>
  </MinReceiveInterval>
  <MinTransmitInterval>
  </MinTransmitInterval>
</BfdParameters>
<PathMtuDiscovery></PathMtuDiscovery>
<TcpMss></TcpMss>
<IgnoreEbgpNextHopCheck></IgnoreEbgpNextHopCheck>
```

```
      <IgnoreFirstAs></IgnoreFirstAs>
      <Tracking></Tracking>
      <TrackingDelayTime></TrackingDelayTime>
      <MonitorLinkGroup></MonitorLinkGroup>
      <LocalGREnable></LocalGREnable>
      <LocalGRTimerRestart></LocalGRTimerRestart>
      <LocalGRTimerWaitForRib></LocalGRTimerWaitForRib>
    </CfgSession>
  </CfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`CfgSessions`
Table type	Multi-instance table
Row name	`CfgSession`
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group Name		String. Length: 1 to 47 characters.	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		**Enumeration.** • **1—Ciphertext.** • **2—Plaintext.**	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	Bfd type		**Enumeration.** • **0**—default type • **1**—single-hop • **2**—multi-hop • **3**—echo	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—echo • 4—compatible • 5—single-hop compatible 6—multi-hop compatible	Some versions not support. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
EbgpMaxHop	EBGP multihop		**Unsigned integer.** **Value range:** **1 to 255**	N/A
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
DualAS	Support both real and fake AS numbers for peer relationship establishment		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not DualAS, the value for DualAS is 0.
PrependGlobalAS	Add the real AS number to the AS_PATH attribute in sent packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependGlobalAS, the value for PrependGlobalAS is 0.
PrependFakeAS	Add the fake AS number to the AS_PATH attribute in received packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependFakeAS, the value for PrependFakeAS is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Dscp	Set the DSCP priority of BGP packets		**Unsigned integer.** **Value range:** **0 to 63**	N/A
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
SourceAddress	Source Address		**IPv4 address string or IPv6 address string.**	Example: 1.1.1.1 or 1::1.
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		**Unsigned integer.** **Value range:** **0 to 21845**	N/A
HoldTime	Holdtime in seconds		**Unsigned integer.** **Value range:** **0 ,3 to 65535**	N/A
TtlSecurity	Enable BGP GTSM fuction for a peer or peer group		**Unsigned integer.** **Value range:** **1 to 254**	N/A
CapSupAs4	Enable 4-byte AS number suppression function		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapOrfNonStandard	Enable non-standard ORF capability		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for BGP neighbor negotiation			
CapConventional	Disable the BGP route refresh,multiprotocol extension, and 4-byte AS number function of the local router and the specified peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapExtendedMsg	Enable the BGP extended message capability		Enumeration. • Disable.(default) • Enable.	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.
ClusterId	Configure the cluster ID for a peer or peer group		Unsigned integer. Value range: 1 to 4294967295. IPv4 address string	N/A
MplsLocalIfnetDisable	Disable MPLS local IFNET tunnel establishment to the specified peer or peer group		Enumeration. • 0—Disable.(default) 1—Enable.	N/A
FlapDampen	Configure the peer flap dampening feature		Enumeration. • 0—Disable.(default) 1—Enable.	N/A
SendBufferSize	Set the buffer size to send updates to peers		Unsigned integer. Value range: 2048 to 327680.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseRouteUpdates	BGP Advertise updates	Data structure	Members include: • AdvertiseInterval • AdvertiseCount	N/A
AdvertiseInterval	Set the interval to send updates to peers		Unsigned integer. Value range: 100 to 10000.	N/A
AdvertiseCount	Set the count to send updates to peers		Unsigned integer. Value range: 1 to 40960.	N/A
EgressEngineering	Configure egress peer engineering		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EgressEngineeringType	BGP peering segment type		Enumeration. • 0—Node. • 1—Adjacency. • 2—Set. • 3—Node-Adjacency.	N/A
EgressEngineeringPolicyName	Routing policy specified for the EPE peer set.		String. Length: 1 to 63 characters.	N/A
EgressEngineeringStaticLabel	SID label for the EPE peer set		N/A	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
EgressEngineeringLinkDown	EPE SID linkdown type		Enumeration. • 0—Disable.(default). • 1—Relate BFD state.	N/A
PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A
EPESRv6	Configure EPESRv6		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EPESRv6Locator	Specify an SID locator		String. Length: 1 to 31 characters.	N/A
EPESRv6AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • **1**—auto-normal(default). • **2**—auto-sid-coc32. • **3**—auto-sid-cocboth-coc32. • **4**—auto-sid-cocboth-coc32-none.	EPESRv6Locator is configured, then EPESRv6AutoSidMode can be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
EPESRv6StaticSID	Psp and NoPspUsp	Data structure	Members include: • Psp • NoPspUsp. • PspUspUsd • StaticSidMode	N/A
Psp	End.X SID with PSP		String IPv6 address	N/A
NoPspUsp	End.X SID (-NO-FLAVOR)		String IPv6 address	N/A
PspUspUsd	End.X SID (PSP, USP,USD)		String IPv6 address	N/A
StaticSidMode	Static Sid Mode.	N/A	Enumeration: • **1**—normal(default). • **2**—coc32. • **3**—cocboth-coc32. • **4**—cocboth-coc-none.	Configured StaticSidMode, Psp or NoPspUsp must be configured
EPESRv6PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A
UpdateIntervalIntelligent	Whether to control the route update interval with intelligent timer		Enumeration. • 0—Disable.(default) • 1—Enable.	If you configure this column, the UpdateInterval column will restore the default. The UpdateInterval and UpdateIntervalIntelligent can not be configured together.
BfdParameters	Configure BFD parameters	Data structure	Members include: • DetectMultiplier • MinReceiveInterval. MinTransmitInterval	N/A
DetectMultiplier	Detection time multiplier		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum receiving interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTransmitInterval	Minimum transmitting interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
PathMtuDiscovery	TCP path MTU discovery configuration		Enumeration. • **0**—Disable(default) • 1—Enable.	N/A
TcpMss	Set the maximum TCP segment size		Unsigned integer. Value range: 176 to 4096.	N/A
IgnoreEbgpNextHopCheck	Ignore the next hops check of routes received from ebgp peers		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Tracking	Fast detect the unreachable destined for the peer and reset the session		Enumeration. • 0—Disable. • 1—Enable.	N/A
TrackingDelayTime	Specify the delay to reset the session, in seconds		Unsigned integer. Value range: 0 to 65535	The object does not exist if Tracking is not configured. If you configure Tracking but not TrackingDelayTime, the value for TrackingDelayTime is 0.
MonitorLinkGroup	Configure a monitor link group to monitor the state of the specified BGP peer session		Unsigned integer. Value range: 1 to 65535.	The value range for this column varies by device model.
LocalGREnable	Configure local Graceful Restart (GR) capability		Enumeration. • Disable.(default) • Enable.	N/A
LocalGRTimerRestart	Configure the restart timer for local GR		Unsigned integer. Value range: 3 to 86400	Default: 150
LocalGRTimerWaitForRib	Configure the wait-for-rib timer for local GR		Unsigned integer. Value range: 3 to 3000	Default: 600

BGP/Familys

This table contains address family identifier information of BGP.

XML structure

```
<BGP>
  <Familys>
    <Family>
      <Name></Name>
      <VRF></VRF>
      <Type></Type>
      <Preference>
        <Ebgp></Ebgp>
        <Ibgp></Ibgp>
        <Local></Local>
      </Preference>
      <BalanceAsPathNeglect></BalanceAsPathNeglect>
      <BalanceAsPathRelax></BalanceAsPathRelax>
      <Balance>
        <MaxBalance></MaxBalance>
        <BalanceNexthop></BalanceNexthop>
        <MaxEBGPBalance></MaxEBGPBalance>
        <EBGPBalanceNexthop></EBGPBalanceNexthop>
        <MaxIBGPBalance></MaxIBGPBalance>
        <IBGPBalanceNexthop></IBGPBalanceNexthop>
        <MaxEIBGPBalance></MaxEIBGPBalance>
        <EIBGPBalanceNexthop></EIBGPBalanceNexthop>
      </Balance>
      <PolicyVpnTarget></PolicyVpnTarget>
      <ReflectBtwClients></ReflectBtwClients>
      <ReflectorClusterID></ReflectorClusterID>
      <RrFilter></RrFilter>
      <DefaultRtImport></DefaultRtImport>
      <DomainDistinguisher></DomainDistinguisher>
      <PIC></PIC>
      <VpnCrossMultipath></VpnCrossMultipath>
      <RouteSelectDelay></RouteSelectDelay>
      <AdvertiseEvpnRoute>
        <AdvertiseEvpnEnable></AdvertiseEvpnEnable>
        <AdvertiseEvpnPolicy></AdvertiseEvpnPolicy>
        <AdvertiseEvpnReplaceRt></AdvertiseEvpnReplaceRt>
      </AdvertiseEvpnRoute>
      <AdvertiseL2vpnEvpnRoute></AdvertiseL2vpnEvpnRoute>
      <AdvertiseL3vpnRoute>
        <AdvertiseL3vpnEnable></AdvertiseL3vpnEnable>
```

```
    <AdvertiseL3vpnPolicy></AdvertiseL3vpnPolicy>
    <AdvertiseL3vpnReplaceRt></AdvertiseL3vpnReplaceRt>
  </AdvertiseL3vpnRoute>
  <ImportEvpnMacIp></ImportEvpnMacIp>
 <MappingVniRmVpnTarget></MappingVniRmVpnTarget>
  <DefaultLocalPreference></DefaultLocalPreference>
  <AddPathsSelectBestNum></AddPathsSelectBestNum>
  <DefaultMedValue></DefaultMedValue>
  <FrrRtPolicyName></FrrRtPolicyName>
  <MvpnAdvRtImport></MvpnAdvRtImport>
  <UpdateFirstRtPolicyName></UpdateFirstRtPolicyName>
  <AdvRibActive></AdvRibActive>
  <BestRtOriAsValidation></BestRtOriAsValidation>
  <BestRtAllowInvalid></BestRtAllowInvalid>
  <NestingVpn></NestingVpn>
  <SummaryAutomatic></SummaryAutomatic>
  <ImportRouteMultipath></ImportRouteMultipath>
  <ImportRouteSRPolicy></ImportRouteSRPolicy>
  <AdvEbgpEnable></AdvEbgpEnable>
  <RouterIdFilter></RouterIdFilter>
  <FilterPolicyImport>
    <AclNumImp></AclNumImp>
    <AclNameImp></AclNameImp>
    <PrefixListNameImp></PrefixListNameImp>
  </FilterPolicyImport>
  <LogRouteFlap>
    <MonitorTime></MonitorTime>
    <MonitorCount></MonitorCount>
    <LogCountLimit></LogCountLimit>
    <RtPolicyName></RtPolicyName>
  </LogRouteFlap>
  <Dampening>
    <DampeningEnable></DampeningEnable>
    <HalfLifeReach></HalfLifeReach>
    <HalfLifeUnReach></HalfLifeUnReach>
    <Reuse></Reuse>
    <Suppress></Suppress>
    <Ceiling></Ceiling>
    <DampRtPolicyName></DampRtPolicyName>
  </Dampening>
  <RedirectToTunnel></RedirectToTunnel>
  <RoutingtableBgpRibOnly>
    <RoutingtableBgpRibOnlyEnable></RoutingtableBgpRibOnlyEnable>
    <RoutingtableBgpRibOnlyPolicy></RoutingtableBgpRibOnlyPolicy>
  </RoutingtableBgpRibOnly>
  <UsermoveFastupdate></UsermoveFastupdate>
  <ForwardConverLearning>
    <ForwardConverLearningEnable></ForwardConverLearningEnable>
```

```
  <ForwardConverLearningPolicy></ForwardConverLearningPolicy>
</ForwardConverLearning>
<ApplyTunnelSelector></ApplyTunnelSelector>
<SegmentRoutingMpls></SegmentRoutingMpls>
<NexthopRecursiveLookupDelay></NexthopRecursiveLookupDelay>
<SegmentRouting>
  <Ipv6SidRouteRecursion></Ipv6SidRouteRecursion>
  <Ipv6Locator></Ipv6Locator>
  <Ipv6LocatorAnycast></Ipv6LocatorAnycast>
  <Ipv6AutoSidDisable></Ipv6AutoSidDisable>
  <Ipv6SidAllocMode></Ipv6SidAllocMode>
</SegmentRouting>
<ApplyLabelPopgo></ApplyLabelPopgo>
<SegmentRoutingEvpn>
  <Ipv6SidRouteRecursionEvpn></Ipv6SidRouteRecursionEvpn>
  <Ipv6LocatorEvpn></Ipv6LocatorEvpn>
  <Ipv6LocatorEvpnAnycast></Ipv6LocatorEvpnAnycast>
  <Ipv6AutoSidDisableEvpn></Ipv6AutoSidDisableEvpn>
 <Ipv6SidAllocModeEvpn></Ipv6SidAllocModeEvpn>
</SegmentRoutingEvpn>
<AdvRtReoriginate></AdvRtReoriginate>
<AdvRtReoriginatePolicy></AdvRtReoriginatePolicy>
<SRv6MplsInterwork></SRv6MplsInterwork>
<NexthopEvpnDrniGp></NexthopEvpnDrniGp>
<NexthopEvpnMlagGp></NexthopEvpnMlagGp>
<NexthopRecursiveLongestMatch>
  <NexthopRecursiveLongestMatchEnable></NexthopRecursiveLongestMatchEnable>
  <NexthopRecursiveLongestMatchPolicy></NexthopRecursiveLongestMatchPolicy>
</NexthopRecursiveLongestMatch>
<NexthopOnlyGlobalAddress></NexthopOnlyGlobalAddress>
<ReflectChangePathAttribute></ReflectChangePathAttribute>
<RouteMatchDestination></RouteMatchDestination>
<RouteValidationMode></RouteValidationMode>
<PeerAsCheckEnable></PeerAsCheckEnable>
<BalanceIGPMetricIgnore></BalanceIGPMetricIgnore>
<IGPMetricInherit></IGPMetricInherit>
<BierEnable></BierEnable>
<BierBfrPrefixProxy></BierBfrPrefixProxy>
<ValidationCheckEnable></ValidationCheckEnable>
<BestRouteIPv6Nexthop></BestRouteIPv6Nexthop>
<UcastRouteRecursiveTunnel>
  <RecursiveEnable></RecursiveEnable>
  <PrefixList></PrefixList>
  <TunnelPolicy></TunnelPolicy>
</UcastRouteRecursiveTunnel>
<InofRole></InofRole>
<SendLowPriorityPeerupDelayTime></SendLowPriorityPeerupDelayTime>
<SendLowPriorityOnStartupTime></SendLowPriorityOnStartupTime>
```

```
      <NexthopRecursiveDefRt>
        <Ignore></Ignore>
        <IgnoreRtPolicyName></IgnoreRtPolicyName>
      </NexthopRecursiveDefRt>
      <NexthopRecursiveTunnelBackup></NexthopRecursiveTunnelBackup>
      <NexthopRecursiveRtPolicy></NexthopRecursiveRtPolicy>
      <NexthopEvpnSDWANColor></NexthopEvpnSDWANColor>
      <AdvertiseLocators>
        <AdvertiseLocator>
          <LocatorName></LocatorName>
          <RoutePolicy></RoutePolicy>
       </AdvertiseLocator>
      </AdvertiseLocators>
      <RouteSelectSuppressOnPeerUP></RouteSelectSuppressOnPeerUP>
    </Family>
  </Familys>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`Family`
Table type	Multi-instance table
Row name	`Family`
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Type	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated • 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	N/A
Preference	Preference for BGP Routes	Data Structure	Include: • Ebgp • Ibgp • Local	N/A
Ebgp	Preference for eBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Ibgp	Preference for iBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Local	Preference for Local Routes		Unsigned integer. Value range: 1 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BalanceAsPathNeglect	Ignore the AS_PATH attribute when implementing load balancing		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
BalanceAsPathRelax	Load balancing for routes that have different AS_PATH attributes of the same length		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
Balance	number of BGP ECMP routes for load balancing	Data Structure	Include: • MaxBalance • MaxEBGPBalance • MaxIBGPBalance • MaxEIBGPBalance	N/A
MaxBalance	maximum number of BGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	N/A
BalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
MaxEBGPBalance	Maximum number of EBGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
EBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
MaxIBGPBalance	Maximum number of IBGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
IBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxEIBGPBalance	Maximum number of ECMP routes between EBGP and IBGP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
EIBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
PolicyVpnTarget	Filter VPN routes with VPN-Target attribute		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
ReflectBtwClients	Route reflection between clients		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
ReflectorClusterID	cluster ID of the route reflector		String,IPv4 address string or Unsigned integer. Value range: 1 to 4294967295	N/A
RrFilter	Number or name of the extended community list in the route filtering policy specified for the route reflector	N/A	RR-filter number: Unsigned integer. Value range: 1 to 199. RR-filter name: String. Length: 1 to 63 characters.	Only IBGP routes whose extended community attribute matches the specified extended community list are reflected.
DefaultRtImport	Import default route		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 9 to 26 characters. The format is AS<1-4294967295>:routerID <X.X.X.X>.	Example: 100:13.14.23.22
PIC	Enable Prefix Independent Convergence		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
VpnCrossMultipath	Redistribute multiple routes with the same prefix and RD to the VPN		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	routing table			
RouteSelectDelay	Optimal route calculation delay time		Unsigned integer. Value range: 0 to 600 seconds.	N/A
AdvertiseEvpnRoute	Advertise BGP EVPN routes through the current address family	Data Structure	Include: • AdvertiseEvpnEnable • AdvertiseEvpnPolicy • AdvertiseEvpnReplaceRt	N/A
AdvertiseEvpnEnable	Enable advertise BGP EVPN routes through the current address family		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
AdvertiseEvpnPolicy	Filter BGP EVPN routes by a routing policy		String. Length: 1 to 63 characters.	N/A
AdvertiseEvpnReplaceRt	Replace the route targets of BGP EVPN routes with those of VPN instances		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
AdvertiseL2vpnEvpnRoute	Advertise BGP EVPN route to the local site		**Enumeration:** • **0—Disable** • **1—Enable.** (default)	N/A
AdvertiseL3vpnRoute	Advertise BGP L3VPN routes through the BGP EVPN address family	Data Structure	Include: • AdvertiseL3vpnEnable • AdvertiseL3vpnPolicy • AdvertiseL3vpnReplaceRt	N/A
AdvertiseL3vpnEnable	Enable advertise BGP L3VPN routes through the BGP EVPN address family		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
AdvertiseL3vpnPolicy	Filter BGP L3VPN routes by a routing policy		String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseL3vpnReplaceRt	Replace the route targets of BGP L3VPN routes with those of EVPN instances		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
ImportEvpnMacIp	Redistribute MAC/IP advertisement routes		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
MappingVniRmVpnTarget	Remove route targets of VPN instances from EVPN routes when mapping VXLANs		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
DefaultLocalPreference	Configure default local preference		Unsigned integer. Value range: 0 to 4294967295	The default local preference is supported only by IPv4 unicast, IPv4 multicast, IPv4 labeled-unicast, IPv6 unicast, and IPv6 multicast routes.
AddPathsSelectBestNum	Set the maximum number of Add-Path optimal routes that can be advertised to all peers.		Unsigned integer. Value range: 1 to 64	N/A
DefaultMedValue	Configure default MED value.		Unsigned integer. Value range: 0 to 4294967295	N/A
FrrRtPolicyName	Configure the route policy name of FRR.		String. Length: 1 to 63 characters.	N/A
MvpnAdvRtImport	Enable MVPN advertisement RT import		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
UpdateFirstRtPolicyName	Routing policy used to match routes whose withdrawal messages are sent prior to other routes.		String. Length: 1 to 63 characters.	N/A
AdvRibActive	Enable to advertise the		**Enumeration:**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	best routes of IP routing table..		• **0—Disable.** (default) • **1—Enable.**	
BestRtOriAsValidation	Configure BGP RPKI authentication results to participate in route optimization.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
BestRtAllowInvalid	Allow routes with Invalid authentication results to participate in route optimization		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	BestRtAllowInvalid must be set with BestRtOriAsValidation.
NestingVpn	Enable nested VPN function		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
SummaryAutomatic	Automatic route summarization for redistributed IGP subnet routes		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
ImportRouteMultipath	Redistribute IGP multipath routes with the same prefix to the BGP routing table		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
ImportRouteSRPolicy	Import routes form SR Policy.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
AdvEbgpEnable	Advertise ebgp enable		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
RouterIdFilter	Router-id filter		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
FilterPolicyImport	Filter received BGP routes	Data Structure	Include: • AclNumImp • AclNameImp • PrefixListNameImp	N/A
AclNumImp	Filter BGP routes by an ACL number.		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families	N/A
AclNameImp	Filter BGP routes		String.	ACL name (start with[a-z,A-Z]).Can't

Column name	Column description	Column type	Data type and restrictions	Remarks
	by an ACL name.		Length: 1 to 63 characters.	use “all” as ACL name.

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListNameImp	Filter BGP routes by a prefix-list name.		String. Length: 1 to 63 characters.	N/A
LogRouteFlap	Logging for BGP route flapping	Data Structure	Include: • MonitorTime • MonitorCount • LogCountLimit • RtPolicyName	N/A
MonitorTime	Monitoring interval for route flapping		Unsigned integer. Value range: 1 to 600	Units are minutes.
MonitorCount	Number of route flaps for triggering a log		Unsigned integer. Value range: 2 to 8	N/A
LogCountLimit	Maximum number of logs allowed to be generated in a minute		Unsigned integer. Value range: 1 to 600	N/A
RtPolicyName	Filter BGP routes to monitor the route flaps.		String. Length: 1 to 63 characters.	N/A
Dampening	Configure dampening.	Data Structure	Include: • DampeningEnable • HalfLifeReach • HalfLifeUnReach • Reuse • Suppress • Ceiling • DampRtPolicyName	N/A
DampeningEnable	Enable dampening.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A.
HalfLifeReach	Specify the half-life of the reachable route that oscillates.		Unsigned integer. Value range: 1 to 45	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
HalfLifeUnReach	Specify the half-life of an unreachable route that oscillates.		Unsigned integer. Value range: 1 to 45	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
Reuse	Specify the route reuse threshold.		Unsigned integer. Value range: 1 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set

Column name	Column description	Column type	Data type and restrictions	Remarks
				none of them.

Column name	Column description	Column type	Data type and restrictions	Remarks
Suppress	Specify the route suppression threshold.		Unsigned integer. Value range: 1 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them..
Ceiling	Specify the upper limit of penalty value.		Unsigned integer. Value range: 1001 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
DampRtPolicyName	Specify the route policy name that routes are routed to be attenuated by.		String. Length: 1 to 63 characters.	N/A
RedirectToTunnel	Configure redirect IP relay tunnel capability		String. Length: 0 to 40 characters.	The default local preference is supported only by IPv4 flowspec, IPv6 flowspec.
RoutingtableBgpRibOnly	Control BGP route adding to the IP routing table.	Data Structure	Include: • RoutingtableBgpRibOnlyEnable • RoutingtableBgpRibOnlyPolicy	N/A
RoutingtableBgpRibOnlyEnable	Do not add BGP routes matching the specified routing policy to the IP routing table.		**Enumeration:** • **0—Disable.(default)** • **1—Enable.** • **2—Enable all bgp routes.**	N/A
RoutingtableBgpRibOnlyPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	N/A
UsermoveFastupdate	Enable fast route update upon user migration.		**Enumeration:** • **0—Disable.(default)** • **1—Enable.**	N/A
ForwardConverLearning	Generate FIB entries of host routes upon forwarding BGP public network routes.	Data Structure	Include: • ForwardConverLearningEnable • ForwardConverLearningPolicy	N/A
ForwardConverLearningEnable	Enable generate FIB entries of host routes upon forwarding BGP public network routes.		**Enumeration:** • **0—Disable.(default)** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverLearningPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	N/A
Aigp	Specify a tunnel selector		String. Length: 1 to 40 characters.	N/A
SegmentRoutingMpls	Enable MPLS SR		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
NexthopRecursiveLookupDelay	Set the delay time for responding to next hop recursion result changes		Unsigned integer. Value range: 1 to 240	N/A
SegmentRouting	SR configuration	Data Structure	Include: • Ipv6SidRouteRecursion Ipv6Locator	N/A
Ipv6SidRouteRecursion	Perform private network route recursion based on SIDs		Enumeration. • 0—Disable.(default) • 1—Best effort forwarding. • 2—Traffic engineering forwarding. • 3—Traffic engineering and best effort traffic. • 4—Traffic engineering and best effort backup. • 5—Traffic engineering and best effort multilevel backup • 6—Traffic engineering and best effort multilevel backup local-prefer	N/A
Ipv6Locator	Specify an SID locator		String. Length: 1 to 31 characters	N/A
Ipv6LocatorAnycast	Specify a SID locator for anycast		String. Length: 9 to 26 characters	N/A
Ipv6AutoSidDisable	Cancel SID automatic allocation ability		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Ipv6SidAllocMode	Apply a SID for all nexthop		Enumeration. • 0—per-vrf（default） • 1—per-ce	N/A
ApplyLabelPopgo	Forward labeled packets		**Enumeration:** • **0—Disable.(default)** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received from the peer through matching output interfaces in the ILM table.			
SegmentRoutingEvpn	SR EVPN configuration		Include: Ipv6SidRouteRecursionEvpn Ipv6LocatorEvpn	N/A
Ipv6SidRouteRecursionEvpn	EVPN forwarding type		• Enumeration • 0—Disable • 1 –Best effort forwarding • 2 – Traffic engineering forwarding • 3 –Traffic engineering and best effort traffic • 4—Traffic engineering and best effort backup. • 5—Traffic engineering and best effort multilevel backup • 6—Traffic engineering and best effort multilevel backup local-prefer	N/A
Ipv6LocatorEvpn	Specify an EVPN SID locator		String. • Length: 1 to 31 characters.	N/A
Ipv6LocatorEvpnAnycast	Specify an EVPN SID locator for anycast		String. Length: 1 to 31 characters.	N/A
Ipv6AutoSidDisableEvpn	Cancel SID automatic allocation ability		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Ipv6SidAllocModeEvpn	Apply a SID for all nexthop		Enumeration. • 0—per-vrf（default） • 1—per-ce	N/A
AdvRtReoriginate	Advertise the redist VRF routes to the VPNV4/VPNV6/EVPN peers.		Enumeration • 0—Disable. (default) • 1—Enable. • 2—Replace the RT.	N/A
AdvRtReoriginatePolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	AdvRtReoriginatePolicy must be set with AdvRtReoriginate.

Column name	Column description	Column type	Data type and restrictions	Remarks
SRv6MplsInterwork	Configure SRv6 and MPLS interwordking		Enumeration • 0—Disable(default). • 1 –Enable	N/A
NexthopEvpnDrniGp	Specify the virtual VTEP address of EVPN distributed relay as the next hop address.		**Enumeration:** • **0—Disable.(default)** • **1—Enable.**	N/A
NexthopEvpnMlagGp	Specify the virtual VTEP address of EVPN distributed relay as the next hop address.		**Enumeration:** • **disable.(default)** • **enable.**	N/A
NexthopRecursiveLongestMatch	Select the route with the longest matching prefix for next hop recursive lookup.	Data Structure	Include: • NexthopRecursiveLongestMatchEnable • NexthopRecursiveLongestMatchPolicy	N/A
NexthopRecursiveLongestMatchEnable	Enable selection of the route with the longest matching prefix for next hop recursive lookup.		Enumeration: • 0—Disable. (Default.) • 1—Enable.	N/A
NexthopRecursiveLongestMatchPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	This column cannot be specified when the value for the NexthopRecursiveLongestMatchEnable column is Disable.
NexthopOnlyGlobalAddress	Nexthop only global address.		Enumeration: 0—Disable. (default) 1—Enable.	N/A
ReflectChangePathAttribute	Enable the route reflector to change the path attributes of outgoing routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
RouteMatchDestination	Enable flowspec		Enumeration: • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination match route prefix policy		• 1—Enable.	
RouteValidationMode	Enable simplify flowspec destination validity check by as number		Enumeration: • 0—Check by route.(default) • 1—Check by AS_PATH	N/A
PeerAsCheckEnable	Enable checking peer of AS-number while advertising.		Enumeration: • 0—Disable. • 1—Enable.	N/A
BalanceIGPMetricIgnore	Ignore the IGP Metric of the next hop when selecting load balancing routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
IGPMetricInherit	Inherit the IGP Metric of the next hop when generate vpn routes from evpn.		Enumeration: • 0—Disable. • 1—Enable.	N/A
BierEnable	Enable BIER function for BGP		Enumeration: • 0—Disable.(default) • 1—Enable.	N/A
BierBfrPrefixProxy	Enable BIER routes proxy		Enumeration: • 0—Disable.(default) • 1—Enable.	N/A
ValidationCheckEnable	Enable Validation Check		Enumeration: • 0—Disable. • 1—Enable.	N/A
BestRouteIPv6Nexthop	Let the route with IPv6 nexthop be the best route.		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
UcastRouteRecursiveTunnel	Non-label public routing recursive lookup LSP tunnel.	Data Structure		N/A
RecursiveEnable	Allow non-label public routing recursive lookup LSP tunnel.		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
PrefixList	Specify a IP prefix list		String.	This column cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
	name.		Length: 1 to 63 characters.	specified when the value for the RecursiveEnable column is Disable.
TunnelPolicy	Specify a Tunnel policy name.		String. Length: 1 to 126 characters.	This column cannot be specified when the value for the RecursiveEnable column is Disable.
InofRole	Inof role		Enumeration. • 0—Disable.(default) • 1—Reflect-client. • 2—Reflector.	N/A
SendLowPriorityPeerupDelayTime	Modify priority of routes to lowest-priority when the neighbors change from down to up		Unsigned integer. Value range: 1 to 864000	The value 0 indicates that lowest-priority routes is sent always; SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime and cannot be configured at the same time.
SendLowPriorityOnStartupTime	Modify priority of routes to lowest-priority when the device is restarted		Unsigned integer. Value range: 1 to 3600	The value 0 indicates that lowest-priority routes is sent always; SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime cannot be configured at the same time.
NexthopRecursiveDefRt	Configure default-route lookup for next hop iteration	Data Structure	Include: • Ignore • IgnoreRtPolicyName	N/A
Ignore	Ignore the default route during next hop iteration		Enumeration: • 0—Allow next hop iteration to the default route. (default) • 1—Ignore the default route during next hop iteration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreRtPolicyName	Specify a routing policy.		String. Length: 1 to 63 characters.	This column cannot be specified when the Ignore column is the default value.
NexthopRecursiveTunnelBackup	Perform nexthop recursive lookup tunnel backup process		Enumeration. 0—Disable 1—Tunnel backup. 2—Tunnel backup EVPN. 3---Tunnel backup and tunnel backup EVPN	N/A
NexthopRecursiveRtPolicy	Specify a Route-Policy for nexthop recursion		String. Length: 1 to 63 characters.	N/A
NexthopEvpnSDWANColor	Control nexthop rely for evpn routes of sdwan packet type		Enumeration: • 0—Disable.(default) • 1—Enable	N/A
RouteSelectSuppressOnPeerUP	Delay optimal route calculation when the peer state changes from DOWN to UP		Unsigned integer. Value range: 100 to 600000 milliseconds.	N/A

BGP/Familys/AdvertiseLocators

This table contains BGP locator advertisement information.

XML structure

Please refer to the XML structure of BGP/Familys

Table description

Item	Description
Feature name	BGP
Table name	AdvertiseLocators
Table type	Multi-instance table
Row name	AdvertiseLocator
Restrictions	No

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocatorName	Name of the locator to be advertised	Index	String. Length: 1 to 31 characters.	N/A
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

BGP/Networks

This table contains BGP network information.

XML structure

```
<BGP>
  <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RoutePolicy></RoutePolicy>
    </Network>
  </Networks>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Network	Index	Enumeration: • **1**—IPv4 Unicast • **2**—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast • 23—IPv4 Labeled-unicast	N/A
IpAddress	Address of Network	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of Network address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6 this is 0 to 128.
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

BGP/Aggregates

This table contains BGP aggregate information.

XML structure

```
<BGP>
  <Aggregates>
    <Aggregate>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <DetailSuppressed></DetailSuppressed>
      <AsSet></AsSet>
      <AttributePolicy></AttributePolicy>
      <OriginPolicy></OriginPolicy>
```

```
      <SuppressPolicy></SuppressPolicy>
    </Aggregate>
  </Aggregates>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Aggregates
Table type	Multi-instance table
Row name	Aggregate
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: • **1**—IPv4 Unicast • **2**—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast	N/A
IpAddress	Address of aggregate	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of aggregate address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6 this is 0 to 128.
DetailSuppressed	Detail Suppressed		Enumeration. • **0**—Disable.(default) • **1—Enable.**	N/A
AsSet	Creating a summary route with AS set path		**Enumeration.** • **0—Disable.**(default) • **1—Enable.**	N/A
AttributePolicy	Routing policy used to set the attributes of the summary route		String. Length: 1 to 63 characters.	N/A
OriginPolicy	Routing policy used to filter original specific routes to be summarized		String. Length: 1 to 63 characters.	N/A
SuppressPolicy	Routing policy used to filter specific routes to be advertised		String. Length: 1 to 63 characters.	N/A

BGP/NeighborGroups

This table contains BGP neighbor group information.

XML structure

```
<BGP>
```

```
<NeighborGroups>
  <NeighborGroup>
    <Name></Name>
    <VRF></VRF>
    <Family></Family>
    <GroupName></GroupName>
    <RtPolicyImport></RtPolicyImport>
    <RtPolicyExport></RtPolicyExport>
    <AllowAsLoop></AllowAsLoop>
    <ReflectClient></ReflectClient>
    <NexthopInvariable></NexthopInvariable>
    <NexthopLocal></NexthopLocal>
    <RouterMacLocal></RouterMacLocal>
    <AdvertiseCommunity></AdvertiseCommunity>
    <AdvertiseExtCommunity></AdvertiseExtCommunity>
    <ReOriginated></ReOriginated>
    <ReOriginatedMac></ReOriginatedMac>
    <ReOriginatedMacOnly></ReOriginatedMacOnly>
    <ReOriginatedImet></ReOriginatedImet>
    <ReOriginatedSmet></ReOriginatedSmet>
    <ReOriginatedSpmsi></ReOriginatedSpmsi>
    <AdvOriginalRoute></AdvOriginalRoute>
    <SuppressReOrigPrefix></SuppressReOrigPrefix>
    <SuppressReOrigMac></SuppressReOrigMac>
    <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
    <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
    <SuppressReOrigImet></SuppressReOrigImet>
    <SuppressOriginalAD></SuppressOriginalAD>
    <SuppressOriginalImet></SuppressOriginalImet>
    <SuppressOriginalEs></SuppressOriginalEs>
    <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
    <RouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
    <NexthopVpn></NexthopVpn>
    <AdditionalPathsRcv></AdditionalPathsRcv>
    <AdditionalPathsSend></AdditionalPathsSend>
    <AdvAddPathsBest></AdvAddPathsBest>
    <RouteAdv>
      <DefRouteAdv></DefRouteAdv>
      <RoutePlcy></RoutePlcy>
      <ConditionalPolicy></ConditionalPolicy>
    </RouteAdv>
```

```
<KeepAllRoutes></KeepAllRoutes>
<LblRouteCapability></LblRouteCapability>
<PrefixListExp></PrefixListExp>
<PrefixListImp></PrefixListImp>
<PublicAsOnly></PublicAsOnly>
<SooSiteOfOrigin></SooSiteOfOrigin>
<FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
<FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
<AdvOrigAsVld></AdvOrigAsVld>
<CapOrf></CapOrf>
<Signaling>
  <SigEnable></SigEnable>
  <SigNonStd></SigNonStd>
</Signaling>
<UpeEnable></UpeEnable>
<UpeRoutePlcy></UpeRoutePlcy>
<AutoDisc>
  <DiscEnable></DiscEnable>
  <DiscNonStd></DiscNonStd>
</AutoDisc>
<ValidationDisable></ValidationDisable>
<ValidationRedirectDisable></ValidationRedirectDisable>
<ASPathAclImport></ASPathAclImport>
<ASPathAclExport></ASPathAclExport>
<Aigp></Aigp>
<AigpSendMed></AigpSendMed>
<Bandwidth></Bandwidth>
<BandwidthValue></BandwidthValue>
<AdvertiseEbgpBandwidth></AdvertiseEbgpBandwidth
<BandwidthTransitive></BandwidthTransitive>
<AdvertiseEncapTypeMpls></AdvertiseEncapTypeMpls>
<ReflectNearbyGroup></ReflectNearbyGroup>
<NonExistAdvertisePolicy>
  <Policy></Policy>
  <NonExistPolicy></NonExistPolicy>
</NonExistAdvertisePolicy>
<ExistAdvertisePolicy>
  <Policy></Policy>
  <ExistPolicy></ExistPolicy>
</ExistAdvertisePolicy>
<PrefixSid></PrefixSid>
<SRv6Compatible></SRv6Compatible>
<SupReoriginate></SupReoriginate>
<ReOriginatedVpn></ReOriginatedVpn>
<AdvVpnReorigIbgp></AdvVpnReorigIbgp>
<RedirectNexthop></RedirectNexthop>
<RoutePriorityTrack></RoutePriorityTrack>
<RouteServerClient></RouteServerClient>
```

```
      <PeerBier></PeerBier>
      <MacIpRouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </MacIpRouteLimit>
      <EvpnIpv6PrefixListExp></EvpnIpv6PrefixListExp>
      <EvpnIpv6PrefixListImp></EvpnIpv6PrefixListImp>
      <HighPriority></HighPriority>
    </NeighborGroup>
  </NeighborGroups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	NeighborGroups
Table type	Multi-instance table
Row name	NeighborGroup
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated • 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Import Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a		**Enumeration.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	route reflector and specify a peer or peer group as a client		• 0—Disable. • 1—Enable.	
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable.
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable. • 2—DCI Enable.	Next-hop-local conflict with next-hop-invariable
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
ReOriginated	Re-originate EVPN IP prefix advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable. • 2--- Replace the RT. • 3—Stitch to L3vpn.	To re-originate EVPN IP prefix routes to VPNv4/VPNv6 routes without modifying the RT and RD, set the value to 3.
ReOriginatedMac	Re-originate EVPN MAC/IP advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable(default). • 1—Enable. • 2—Replace the RT.	N/A
ReOriginatedMacOnly	Re-originate EVPN MAC routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable(default). • 1—Enable. • 2—Replace the RT.	N/A
ReOriginatedImet	Re-originate EVPN inclusive multicast		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Ethernet tag routes received from the peers by modifying the L3 VXLAN ID and RD		• 1—Enable. • 2—Replace the RT.	
ReOriginated Smet	Re-originate EVPN SMET advertisement routes received from the peers by modifying the RT and RD		Enumeration. • 0-Disable(default). • 1-Enable. • 2-Replace the RT.	N/A
ReOriginated Spmsi	Re-originate EVPN S-PMSI advertisement Routes received From the peers By modifying the L3 VXLAN ID and RD		Enumeration. • 0-Disable(default). • 1-Enable. • 2-Replace the RT.	N/A
AdvOriginalRoute	Advertise original EVPN routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
SuppressReOrigPrefix	Suppress advertisement of re-originated EVPN IP prefix advertisement routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
SuppressReOrigMac	Suppress advertisement of re-originated EVPN MAC/IP advertisement routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
SuppressReOrigImet	Suppress advertisement of re-originated EVPN inclusive multicast Ethernet tag routes to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvEvpnRouteSuppressPr	Advertise EVPN routes to the peer excluding IP		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
efix	prefix advertisement routes		• **1—Enable.**	
SuppressOriginalAD	Suppress advertisement of original EVPN ethernet auto-discovery routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalImet	Suppress advertisement of original EVPN inclusive multicast ethernet tag routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalEs	Suppress advertisement of original EVPN ethernet segment routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	in seconds		Value range: 1 to 65535	
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 or VPNv6 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsRcv	Specify additional path receiving ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsSend	Specify additional path sending ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvAddPathsBest	Specify the maximum number of Add-Path optimal routes that can be advertised to a peer or peer group		Unsigned integer. Value range: 2 to 64. Default is 1	N/A
RouteAdv	Set default route info to peer or peer group	Data Structure	Include: • DefRouteAdv • RoutePlcy • ConditionalPolicy	N/A
DefRouteAdv	Specify default route advertisement info to peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
RoutePlcy	Specify a route policy		String. Length: 1 to 63 characters.	N/A
ConditionalPolicy	Specify a routing policy to control the default route advertisement.		String. Length: 1 to 63 characters.	N/A
KeepAllRoutes	Save original route update info from all peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
LblRouteCapability	Specify labeled route exchange ability for peer or peer groups		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListExp	Specify a prefix list to filter routes advertised to a peer or peer group		String. Length: 1 to 63 characters.	N/A
PrefixListImp	Specify a prefix list to filter routes received from a peer or peer group		String. Length: 1 to 63 characters.	N/A
PublicAsOnly	Remove private AS numbers in BGP updates sent to an EBGP peer or peer group		Enumeration. • 0—Disable.(default) • 1—Normal. • 2—Force. • 3—ForceReplace. • 4—ForceIncludePeerAs. • 5—ForceReplaceIncludePeerAs. • 6—Limited. • 7—LimitedReplace. • 8—LimitedIncludePeerAs. • 9—LimitedReplaceIncludePeerAs. • 10—NormalKeepLocalAs. • 11—ForceKeepLocalAs. • 12—ForceIncludePeerAsKeepLocalAs.	N/A
SooSiteOfOrigin	Configure SoO info for peer or peer groups		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 65535:1..
FlPlcyAclNoOrNameExp	Specify an ACL to filter routes advertised to peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
FlPlcyAclNoOrNameImp	Specify an ACL to filter routes received from peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families	

Column name	Column description	Column type	Data type and restrictions	Remarks
			String. Length: 1 to 63 characters.	
AdvOrigAsVld	Send BGP RPKI validation results to peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
CapOrf	Specify BGP neighbor ORF capabilities negotiation		Enumeration: • 0—Disable.(default) • 1—Receive. • 2—Send. • 3—Both	N/A
Signaling	Set MPLS L2VPN tag block info exchange ability between local route and specified peer or peer groups	Data Structure	Include: • SigEnable • SigNonStd	N/A
SigEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
SigNonStd	Specify non-stand format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeEnable	Set UPE as HoVPN for routes received from peers or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
UpeRoutePlcy	Configure specified UPE route info filtered by route policy		String. Length: 1 to 63 characters.	N/A
AutoDisc	Set VPLS PE tag block info exchange ability between local route and specified peer or peers groups	Data Structure	Include: • DiscEnable • DiscNonStd	N/A
DiscEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
DiscNonStd	Specify non-standard format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
ValidationDisable	Disable validation for BGP flowspec		**Enumeration.** • **0—Disable.** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	routes		• **1—Enable.**	
ValidationRedirectDisable	Disable validation for BGP flowspec redirect nexthop		**Enumeration.** • **0—Disable.** (default) • **1—Enable.**	Only EBGP neighbors support.
ASPathAclImport	AS path list used for filtering incoming routes.		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
ASPathAclExport	AS path list used for filtering outgoing routes.		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
Aigp	Enable sending and receiving of the accumulated interior gateway protocol metric attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
AigpSendMed	Replace the MED value with AIGP value in routes advertised to the peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Bandwidth	Specify the link bandwidth extended community attribute for the		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BandwidthValue	Link bandwidth attribute value		Unsigned integer. Value range: • 1 to 4294967295	N/A
AdvertiseEbgpBandwidth	Advertise the link bandwidth extended community attribute to EBGP peers		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
BandwidthTransitive	Convert the type of the link bandwidth attribute carried in BGP routes from optional		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	non-transitive to optional transitive			
Policy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
NonExistPolicy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy • ExistPolicy	N/A
Policy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistPolicy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
PrefixSid	Exchange prefix segment IDs with specified peers		Enumeration. • 0—Disable.(default) • 1—Enable • 2—AnycastEnable.	N/A
SRv6Compatible	Configuring VPN routing with SID attribute compatibility		Enumeration. • 0—Disable.(default) • 1—Enable. • 2--Transposition Scheme	N/A
SupReoriginate	Suppress advertisement of re-originated VPNV4 or VPNv6 advertisement routes to the peers		• **Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
ReOriginatedVpn	Re-originate VPNV4 or VPNV6 advertisement routes received from the peers by modifying the RT and RD		**Enumeration.** • **0—Disable.** • **1—Enable.** • **2—Replace the RT.** • 3—Stitch to EVPN.	To re-originate VPNv4/VPNv6 routes to EVPN IP prefix routes without modifying the RT and RD, set the value to 3.
AdvVpnReorigIbgp	Advertise Vpn Reoriginate EVPN routes to IBGP peer..		Enumeration. • 0—Disable.(default) • 1—Enable	N/A
RedirectNex	Enable peer		Enumeration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
thop	redirected to nexthop capability		• 0—Disable. • 1—Enable(default)	
RoutePriorityTrack	Track entry ID.		Unsigned integer. Value range: 1 to 1024.	N/A
RouteServerClient	Configure the device as a route server and specify a peer or peer group as a client		Enumeration. • 0—Disable.(default) • 1—Enable • 2—External.	N/A
PeerBier	Enable peer to send and receive BIER attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
MacIpRouteLimit	Configure the maximum number of MAC/IP advertisement routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Maximum number of MAC/IP advertisement routes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
EvpnIpv6PrefixListExp	Specify an ipv6 prefix list to filter routes advertised to an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
EvpnIpv6PrefixListImp	Specify an ipv6 prefix list to filter routes received		String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	from an EVPN peer or peer group			
HighPriority	Assign the routes learned from specified peers with higher priority		Enumeration. • 0—Disable.(default) • 1—Enable	N/A

BGP/Neighbors

This table contains BGP neighbor information.

XML structure

```
<BGP>
  <Neighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <ReOriginated></ReOriginated>
      <ReOriginatedMac></ReOriginatedMac>
      <ReOriginatedMacOnly></ReOriginatedMacOnly>
      <ReOriginatedImet></ReOriginatedImet>
      <ReOriginatedSmet></ReOriginatedSmet>
      <ReOriginatedSpmsi></ReOriginatedSpmsi>
      <AdvOriginalRoute></AdvOriginalRoute>
      <SuppressReOrigPrefix></SuppressReOrigPrefix>
      <SuppressReOrigMac></SuppressReOrigMac>
      <SuppressReOrigImet></SuppressReOrigImet>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <SuppressOriginalAD></SuppressOriginalAD>
```

```
<SuppressOriginalImet></SuppressOriginalImet>
<SuppressOriginalEs></SuppressOriginalEs>
<DefaultgatewayNoAdv></DefaultgatewayNoAdv>
<RouteLimit>
  <Number></Number>
  <Percentage></Percentage>
  <AlertOnly></AlertOnly>
  <Discard></Discard>
  <Reconnect></Reconnect>
</RouteLimit>
<PreferredValue></PreferredValue>
<NexthopVpn></NexthopVpn>
<AdditionalPathsRcv></AdditionalPathsRcv>
<AdditionalPathsSend></AdditionalPathsSend>
<AdvAddPathsBest></AdvAddPathsBest>
<RouteAdv>
  <DefRouteAdv></DefRouteAdv>
  <RoutePlcy></RoutePlcy>
  <ConditionalPolicy></ConditionalPolicy>
</RouteAdv>
<KeepAllRoutes></KeepAllRoutes>
<LblRouteCapability></LblRouteCapability>
<PrefixListExp></PrefixListExp>
<PrefixListImp></PrefixListImp>
<PublicAsOnly></PublicAsOnly>
<SooSiteOfOrigin></SooSiteOfOrigin>
<FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
<FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
<AdvOrigAsVld></AdvOrigAsVld>
<CapOrf></CapOrf>
<Signaling>
  <SigEnable></SigEnable>
  <SigNonStd></SigNonStd>
</Signaling>
<UpeEnable></UpeEnable>
<UpeRoutePlcy></UpeRoutePlcy>
<AutoDisc>
  <DiscEnable></DiscEnable>
  <DiscNonStd></DiscNonStd>
</AutoDisc>
<ValidationDisable></ValidationDisable>
<ValidationRedirectDisable></ValidationRedirectDisable>
<ASPathAclImport></ASPathAclImport>
<ASPathAclExport></ASPathAclExport>
<Aigp></Aigp>
<AigpSendMed></AigpSendMed>
<Bandwidth></Bandwidth>
<BandwidthValue></BandwidthValue>
```

```
      <AdvertiseEbgpBandwidth></AdvertiseEbgpBandwidth
      <BandwidthTransitive></BandwidthTransitive>
      <AdvertiseEncapTypeMpls></AdvertiseEncapTypeMpls>
      <ReflectNearbyGroup></ReflectNearbyGroup>
      <NonExistAdvertisePolicy>
        <Policy></Policy>
        <NonExistPolicy></NonExistPolicy>
      </NonExistAdvertisePolicy>
      <ExistAdvertisePolicy>
        <Policy></Policy>
        <ExistPolicy></ExistPolicy>
      </ExistAdvertisePolicy>
      <PrefixSid></PrefixSid>
      <SRv6Compatible></SRv6Compatible>
      <SupReoriginate></SupReoriginate>
      <ReOriginatedVpn></ReOriginatedVpn>
      <AdvVpnReorigIbgp></AdvVpnReorigIbgp>
      <RedirectNexthop></RedirectNexthop>
      <RoutePriorityTrack></RoutePriorityTrack>
      <RouteServerClient></RouteServerClient>
      <PeerBier></PeerBier>
      <MacIpRouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </MacIpRouteLimit>
      <EvpnIpv6PrefixListExp></EvpnIpv6PrefixListExp>
      <EvpnIpv6PrefixListImp></EvpnIpv6PrefixListImp>
      <HighPriority></HighPriority>
    </Neighbor>
  </Neighbors>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Neighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated • 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
RtPolicyImport	Import Route-Policy for		String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Neighbor		Length: 1 to 63 characters.	
RtPolicyExport	Export Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
NexthopInvariable	Send original next hop for routes advertised to the peer		**Enumeration.** • **0—Disable.** • **1—Enable.**	Next-hop-local conflict with next-hop-invariable
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	Next-hop-local conflict with next-hop-invariable
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		**Enumeration.** • **0—Disable.** • **1—Enable.** • **2—DCI Enable.**	N/A
AdvertiseCommunity	Send community attribute to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		**Enumeration.** • **0—Disable.** **1—Enable.**	N/A
ReOriginated	Re-originate EVPN IP prefix advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		**Enumeration.** • **0—Disable.** • **1—Enable.** • **2--- Replace the RT.** • **3—Stitch to L3vpn.**	To re-originate EVPN IP prefix routes to VPNv4/VPNv6 routes without modifying the RT and RD, set the value to 3.
ReOriginatedMac	Re-originate EVPN MAC/IP advertisement routes received from the peers by modifying the L3 VXLAN ID		**Enumeration.** • **0—Disable(default).** • **1—Enable.** • **2—Replace the RT.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and RD			
ReOriginated MacOnly	Re-originate EVPN MAC routes received from the peers by modifying the RT and RD		**Enumeration.** • **0—Disable(default).** • **1—Enable.** • **2—Replace the RT.**	N/A
ReOriginatedImet	Re-originate EVPN inclusive multicast Ethernet tag routes received from the peers by modifying the L3 VXLAN ID and RD		**Enumeration.** • **0—Disable.** • **1—Enable.** • **2—Replace the RT.**	N/A
ReOriginated Smet	Re-originate EVPN SMET advertisement routes received from the peers by modifying the RT and RD		**Enumeration.** • **0-Disable(default).** • **1-Enable.** • **2-Replace the RT.**	N/A
ReOriginated Spmsi	Re-originate EVPN S-PMSI advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		**Enumeration.** • **0-Disable(default).** • **1-Enable.** • **2-Replace the RT.**	N/A
AdvOriginalRoute	Advertise original EVPN routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressReOrigPrefix	Suppress advertisement of re-originated EVPN IP prefix advertisement routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressReOrigMac	Suppress advertisement of re-originated EVPN MAC/IP advertisement routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressReOrigImet	Suppress advertisement of re-originated EVPN inclusive		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	multicast Ethernet tag routes to the peers			
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable**	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable**	N/A
SuppressOriginalAD	Suppress advertisement of original EVPN ethernet auto-discovery routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalImet	Suppress advertisement of original EVPN inclusive multicast ethernet tag routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalEs	Suppress advertisement of original EVPN ethernet segment routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		• **Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1 to 4294967295	
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsRcv	Specify additional path receiving ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsSend	Specify additional path sending ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvAddPathsBest	Specify the maximum number of Add-Path optimal routes that can be advertised to a peer or peer group		Unsigned integer. Value range: 2 to 64. Default is 1	N/A
RouteAdv	Set default route info to peer or peer group	Data Structure	Include: • DefRouteAdv • RoutePlcy • ConditionalPolicy	N/A
DefRouteAdv	Specify default route advertisement info to peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
RoutePlcy	Specify a route		String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy		Length: 1 to 63 characters.	
ConditionalPolicy	Specify a routing policy to control the default route advertisement.		String. Length: 1 to 63 characters.	N/A
KeepAllRoutes	Save original route update info from all peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
LblRouteCapability	Specify labeled route exchange ability for peer or peer groups		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
PrefixListExp	Specify a prefix list to filter routes advertised to a peer or peer group		String. Length: 1 to 63 characters.	N/A
PrefixListImp	Specify a prefix list to filter routes received from a peer or peer group		String. Length: 1 to 63 characters.	N/A
PublicAsOnly	Remove private AS numbers in BGP updates sent to an EBGP peer or peer group		Enumeration. • 0—Disable.(default) • 1—Normal. • 2—Force. • 3—ForceReplace. • 4—ForceIncludePeerAs. • 5—ForceReplaceIncludePeerAs. • 6—Limited. • 7—LimitedReplace. • 8—LimitedIncludePeerAs. • 9—LimitedReplaceIncludePeerAs. • 10—NormalKeepLocalAs. • 11—ForceKeepLocalAs. • 12—ForceIncludePeerAsKeepLocalAs.	N/A
SooSiteOfOrigin	Configure SoO info for peer or peer groups		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 65535:1..
FlPlcyAclNoO	Specify an ACL		Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
rNameExp	to filter routes advertised to peers or peer groups		Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
FlPlcyAclNoOrNameImp	Specify an ACL to filter routes received from peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
AdvOrigAsVld	Send BGP RPKI validation results to peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
CapOrf	Specify BGP neighbor ORF capabilities negotiation		Enumeration: • 1—Receive. • 2—Send. • 3—Both	N/A
Signaling	Set MPLS L2VPN tag block info exchange ability between local route and specified peer or peer groups	Data Structure	Include: • SigEnable • SigNonStd	N/A
SigEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
SigNonStd	Specify non-stand format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeEnable	Set UPE as HoVPN for routes received from peers or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
UpeRoutePlcy	Configure specified UPE route info filtered by route policy		String. Length: 1 to 63 characters.	N/A
AutoDisc	Set VPLS PE tag block info exchange ability between local route and specified peer or	Data Structure	Include: • DiscEnable • DiscNonStd	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	peers groups			
DiscEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
DiscNonStd	Specify non-standard format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
ValidationDisable	Disable validation for BGP flowspec routes		**Enumeration.** • **0—Disable.** (default) • **1—Enable.**	N/A
ValidationRedirectDisable	Disable validation for BGP flowspec redirect nexthop		**Enumeration.** • **0—Disable.** (default) • **1—Enable.**	Only EBGP neighbors support.
ASPathAclImport	AS path list used for filtering incoming routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
ASPathAclExport	AS path list used for filtering outgoing routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
Aigp	Enable sending and receiving of the accumulated interior gateway protocol metric attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
AigpSendMed	Replace the MED value with AIGP value in routes advertised to the peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Bandwidth	Specify the link bandwidth extended community attribute for the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BandwidthValue	Link bandwidth attribute value		Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseEbgpBandwidth	Advertise the link bandwidth extended community attribute to EBGP peers		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
BandwidthTransitive	Convert the type of the link bandwidth attribute carried in BGP routes from optional non-transitive to optional transitive		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
AdvertiseEncapTypeMpls	MPLS encapsulation		Enumeration. • 0—Disable.(default) • 1—MPLS. • 2—SRv6. • 3—SDWAN. • 4—Anycast.	N/A
ReflectNearbyGroup	Specify the peers as clients of the nearby cluster		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
NonExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy NonExistPolicy	N/A
Policy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
NonExistPolicy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy • ExistPolicy	N/A
Policy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistPolicy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
PrefixSid	Exchange prefix segment IDs with specified peers		Enumeration. • 0—Disable.(default) • 1—Enable • 2—AnycastEnable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SRv6Compatible	Configuring VPN routing with SID attribute compatibility		Enumeration. • 0—Disable.(default) • 1—Enable. • 2--Transposition Scheme	
SupReoriginate	Suppress advertisement of re-originated VPNV4 or VPNv6 advertisement routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
ReOriginatedVpn	Re-originate VPNV4 or VPNV6 advertisement routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT. • 3—Stitch to EVPN.	To re-originate VPNv4/VPNv6 routes to EVPN IP prefix routes without modifying the RT and RD, set the value to 3.
AdvVpnReorigIbgp	Advertise Vpn Reoriginate EVPN routes to IBGP peer..		Enumeration. • 0—Disable.(default) • 1—Enable	N/A
RedirectNexthop	Enable peer redirected to nexthop capability		Enumeration. • 0—Disable. • 1—Enable(default)	N/A
RoutePriorityTrack	Track entry ID.		Unsigned integer. Value range: 1 to 1024.	N/A
RouteServerClient	Configure the device as a route server and specify a peer or peer group as a client		Enumeration. • 0—Disable.(default) • 1—Enable • 2—External.	N/A
PeerBier	Enable peer to send and receive BIER attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
MacIpRouteLimit	Configure the maximum number of MAC/IP advertisement routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Maximum number of MAC/IP		Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	advertisement routes		1 to 4294967295	
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
EvpnIpv6PrefixListExp	Specify an ipv6 prefix list to filter routes advertised to an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
EvpnIpv6PrefixListImp	Specify an ipv6 prefix list to filter routes received from an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
HighPriority	Assign the routes learned from specified peers with higher priority		Enumeration. • 0—Disable.(default) • 1—Enable	N/A

BGP/Redistributes

This table contains BGP redistribute information.

XML structure

```
<BGP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
      <RedistName></RedistName>
```

```
      <AllowDirect></AllowDirect>
      <Med></Med>
      <RoutePolicy></RoutePolicy>
    </Redist>
  </Redistributes>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 5—IPv6 Unicast • 6—IPv6 Multicast. • 23—IPv4 Labeled-unicast	N/A
Protocol	Protocol name	Index	Enumeration: • **1**—Direct. • **2**—Static. • 3—RIP/RIPng • 4—OSPF/OSPFv3 • 5—ISIS/ISISv6 • 6—EIGRP • 7—UNR • 8—Guard • 9—Local-aggregate	N/A
RedistName	Redistributed pocess name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static, UNR or Local-aggregate.
AllowDirect	Include direct routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters	N/A

BGP/RedistributesAppend

This table contains BGP redistribution appended information.

XML structure

```
<BGP>
```

```
  <RedistributesAppend>
    <Redist>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <AllowDirect></AllowDirect>
      <Med></Med>
      <RoutePolicy></RoutePolicy>
    </Redist>
  </RedistributesAppend>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RedistributesAppend
Table type	Multi-instance table
Row name	Redist
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 5—IPv6 Unicast • 6—IPv6 Multicast. • 23—IPv4 Labeled-unicast	N/A
Protocol	Protocol name	Index	Enumeration: • **1**—Direct. • **2**—Static. • 3—RIP/RIPng • 4—OSPF/OSPFv3 • 5—ISIS/ISISv6 • 6—EIGRP • 7—UNR • 8—Guard	N/A
RedistName	Redistributed pocess name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static, or UNR.
AllowDirect	Include direct routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters	N/A

BGP/BMPs

This table contains BGP BMP information.

XML structure

```
<BGP>
```

```
  <BMPs>
    <BMP>
      <ServerNum></ServerNum>
      <ServerAddr></ServerAddr>
      <ServerPortNum></ServerPortNum>
      <StatisInterValue></StatisInterValue>
      <ConnectInterfaceName></ConnectInterfaceName>
      <RouteModeAdjRibIn></RouteModeAdjRibIn>
      <RouteModeAdjRibOut></RouteModeAdjRibOut>
      <RouteModeLocRib></RouteModeLocRib>
      <SourceAddress></SourceAddress>
      <SSLClientPolicy></SSLClientPolicy>
    </BMP>
  </BMPs>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	BMPs
Table type	Multi-instance table
Row name	BMP
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerNum	BMP server number	Index	Unsigned integer. Value range: 1 to 8	N/A
ServerAddr	Specify the address of BMP server		String,IPv4 address string or IPv6 address string.	You must set both ServerAddr and ServerPortNum, or set neither of them.
ServerPortNum	Specify the port number of BMP server		Unsigned integer. Value range: 1 to 65535	You must set both ServerAddr and ServerPortNum, or set neither of them.
StatisInterValue	Specify the statistics interval value number of BMP server		Unsigned integer. Value range: 1 to 3600	Unit is seconds.
ConnectInterfaceName	Specify the source interface of TCP connections to the BMP server		String. Length: 0 to 47 characters.	Example: • M-GigabitEthernet0/0/0
RouteModeAdjRibIn	Enable BGP to send routes advertised to the monitored peers or peer groups to the BMP server		Enumeration: • 1—Post-policy • 2—Pre-policy(default) • 3—Both	After you specify a BMP server, the pre-policy option takes effect by default.
RouteModeAdjRibOut	Enable BGP to send routes advertised to the monitored peer or peer group to the BMP server		Enumeration: • 0—Disable.(default) • 1—Post-policy • 2—Pre-policy • 3—Both	N/A
RouteModeLocRib	Enable BGP to send the optimal routes in the routing table to the BMP server		Enumeration: • 0—Disable.(default) • 1—Enable • 2—add-path	N/A
SourceAddress	Specify the source address of TCP connections to the BMP server		String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
SSLClientPolicy	Configure SSL policy for TCP connections to the BMP server		String. Length: 1 to 31 characters.	N/A

BGP/RouteModeLocRibFilters

Send the specify routes in the routing table to the BMP server.

XML structure

```
<BGP>
  <RouteModeLocRibFilters>
    <RouteModeLocRibFilter>
     <ServerNum></ServerNum>
     <ModeType></ModeType>
     <Name></Name>
     <Family></Family>
     <AdditionalPaths><AdditionalPaths>
    </RouteModeLocRibFilter>
  </RouteModeLocRibFilters>
</BGP>
```

</BGP>Table description

Item	Description
Feature name	BGP
Table name	RouteModeLocRibFilters
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerNum	BMP server number	Index	Unsigned integer. Value range: 1 to 8	N/A
ModeType	VPN-type	Index	Enumeration: • 0—public. • 1—vpn-instance • 2—all-vpn-instacne	N/A
Name	VPN-instance name	Index	String. Length: 1 to 31 characters.	When the modetype parameter is 0 or 2, the parameter must be empty.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 labeled-Unicast . • 3—IPv6 Unicast • 4—VPNv4 • 5—VPNV6 • 6—L2VPN EVPN	When the modetype parameter is 1 or 2, the parameter 5 and 6 are not allowed to be configured.
`Additional paths`	Additional path configuration		Enumeration: • 0—Disable. • 1—Enable	N/A

BGP/Rpkis

This table contains BGP RPKI information.

XML structure

```
<BGP>
  <Rpkis>
    <Rpki>
      <Name></Name>
      <CheckOriginValidation></CheckOriginValidation>
      <Servers>
        <Server>
          <VRF></VRF>
          <Family></Family>
          <IpAddress></IpAddress>
          <Port></Port>
          <PasswordType></PasswordType>
```

```
          <Password></Password>
          <RefreshTime></RefreshTime>
          <ResponseTime></ResponseTime>
          <PurgeTime></PurgeTime>
          <RpkiLimit>
           <Number></Number>
           <ExceedAction></ExceedAction>
           <ReconnectTime></ReconnectTime>
         </RpkiLimit>
        </Server>
      </Servers>
    </Rpki>
  </Rpkis>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Rpkis
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
CheckOriginValidation	Check origin validation		Enumeration. • 0—Disable. • 1—Enable.	N/A
Servers	Site containing the rpki server information	Subtable	N/A	For more information, see the BGP/Rpkis/Rpki/Servers

BGP/Rpkis/Rpki/Servers

This table contains BGP RPKI server information.

XML structure

Please refer to the XML structure of BGP/Rpkis.

Table description

Item	Description
Feature name	BGP
Table name	Servers
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier	Index	Enumeration: • 1—IPv4. • 2—IPv6	N/A
IpAddress	Summary address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Port	Port		Unsigned integer. Value range: 1 to 65535	N/A
PasswordType	Password type.		Enumeration. • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
RefreshTime	Refresh time in seconds		Unsigned integer. Value range: 15 to 3600	N/A
ResponseTime	Response time in seconds		Unsigned integer. Value range: 15 to 3600	N/A
PurgeTime	Purge time in seconds		Unsigned integer. Value range: 30 to 360	N/A
RpkiLimit	Configure the maximum number of ROAs that can be received from the connection	Data Structure	Include: • Number • ExceedAction ReconnectTime	N/A
Number	Number of ROAs		Unsigned integer. Value range: 1 to 4294967295	N/A
ExceedAction	Action type when the rpki limit is exceeded		Enumeration. • 0—disconnect • 1—alert only • 2—discard	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—disconnect and reconnect	
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 86400	N/A

BGP/FilterPolicyExports

This table contains BGP filter-policy export information.

XML structure

```
<BGP>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <ProtocolExp></ProtocolExp>
      <ProcessIDExp></ProcessIDExp>
      <AclNumExp></AclNumExp>
      <AclNameExp></AclNameExp>
      <PrefixListNameExp></PrefixListNameExp>
    </FilterPolicyExport>
  </FilterPolicyExports>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	FilterPolicyExports
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 9—L2VPN EVPN	N/A
ProtocolExp	Specify where the BGP routes are imported.	Index	Enumeration: • **1**—direct • **2**—isis. • 3—isisv6 • 4—ospf • 5—ospfv3 • 6—rip. • 7—ripng • 8—static	The Protocol can be empty. The Protocol can be set to direct, isis, ospf, rip or static only when the Type had been set to IPv4 Unicast, IPv4 Multicast, or VPNv4. The Protocol can be set to direct, isisv6, ospfv3, ripng or static only when the Type had been set to IPv6 Unicast, IPv6 Multicast, or VPNv6.
ProcessIDExp	Specify the process ID of routing protocol.	Index	Unsigned integer. Value range: 1 to 65535	It must be empty when the Protocol column is Direct, Static or empty.
AclNumExp	Filter BGP routes by an ACL number.		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families	You can only set one of AclNumExp, AclNameExp and PrefixListNameExp at the same time.
AclNameExp	Filter BGP routes by an ACL name.		String. Length: 1 to 63 characters.	ACL name (start with[a-z,A-Z]).Can't use "all" as ACL name. You can only set one of AclNumExp, AclNameExp and PrefixListNameExp

Column name	Column description	Column type	Data type and restrictions	Remarks
				at the same time.
PrefixListNameExp	Filter BGP routes by a prefix-list name.		String. Length: 1 to 63 characters.	You can only set one of AclNumExp, AclNameExp and PrefixListNameExp at the same time.

BGP/PeerGpDefRtAdvVpnInsts

This table contains BGP peer group-name default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerGpDefRtAdvVpnInsts>
    <PeerGpDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <GroupName></GroupName>
      <PeerGpDefRtAdvVpnInstName></PeerGpDefRtAdvVpnInstName>
    </PeerGpDefRtAdvVpnInst>
  </PeerGpDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerGpDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerGpDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 4—VPNv4	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
PeerGpDefRtAdvVpnInstName	Specify a VPN instance name.	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerGpExtDefRtAdvVpnInsts

This table contains BGP peer group-name default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerGpExtDefRtAdvVpnInsts>
    <PeerGpExtDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <RtAF></RtAF>
      <GroupName></GroupName>
      <PeerGpExtDefRtAdvVpnInstName></PeerGpExtDefRtAdvVpnInstName>
    </PeerGpExtDefRtAdvVpnInst>
  </PeerGpExtDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerGpExtDefRtAdvVpnInsts
Table type	Multi-instance table

Row name	PeerGpExtDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 9—L2VPN EVPN	N/A
RtAF	Address Family of default route	Index	Enumeration: • 1—IPv4 • 2—IPv6	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
PeerGpExtDefRtAdvVpnInstName	Specify a VPN instance name.	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerDefRtAdvVpnInsts

This table contains BGP peer ipv4-address *mask-length* default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerDefRtAdvVpnInsts>
    <PeerDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <PeerDefRtAdvVpnInstName></PeerDefRtAdvVpnInstName>
    </PeerDefRtAdvVpnInst>
  </PeerDefRtAdvVpnInsts>
```

```
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • 4—VPNv4	N/A
SessAF	Address family of session	Index	Enumeration: • 1—IPv4.	N/A
IpAddress	Address of session	Index	String IPv4 address string.	Example: 1.1.1.1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 32,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.
PeerDefRtAdvVpnInstName	Specify a VPN instance name	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerExtDefRtAdvVpnInsts

This table contains BGP peer default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerExtDefRtAdvVpnInsts>
```

```
    <PeerExtDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <RtAF></RtAF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <PeerExtDefRtAdvVpnInstName></PeerExtDefRtAdvVpnInstName>
    </PeerExtDefRtAdvVpnInst>
  </PeerExtDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerExtDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerExtDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • 9—L2VPN EVPN	N/A
RtAF	Address Family of default route	Index	Enumeration: • 1—IPv4 • 2—IPv6	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2—**IPv6	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32. For IPv6 dynamic peers,this is 0 to 128.
PeerExtDefRtAdvVpnInstName	Specify a VPN instance name	Index	String. Length: 1 to 31 characters.	N/A

BGP/LinklocalIfCfgSessions

This table contains configuration information of BGP link-local interface sessions.

XML structure

```
<BGP>
  <LinklocalIfCfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <LinkLocalInterface></LinkLocalInterface>
```

```
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
    </CfgSession>
  </LinklocalIfCfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	LinklocalIfCfgSessions
Table type	Multi-instance table
Row name	`CfgSession`
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv6 linklocal address string..	Example: fe80::1.
Mask	Mask length or prefix length of session address	Index	Unsigned integer. Value range: 0 to 128, or 255	For non-dynamic peers, the value is 255. For IPv4 dynamic peers, the value is in the range of 0 to 32. For IPv6 dynamic peers, the value is in the range of 0 to 128.
LinkLocalInterface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route update interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	BFD type		Enumeration. • 0—default type • 1—single-hop • 2—multi-hop	The default type indicates that actual BFD type (single-hop or multi-hop) depends

Column name	Column description	Column type	Data type and restrictions	Remarks
				on different situations.
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer description		String. Length: 1 to 79 characters.	Case sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A

BGP/LinklocalIfNeighbors

This table contains BGP link-local interface peer information.

XML structure

```
<BGP>
  <LinklocalIfNeighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <LinkLocalInterface></LinkLocalInterface>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <ReOriginated></ReOriginated>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
```

```
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </RouteLimit>
      <PreferredValue></PreferredValue>
      <NexthopVpn></NexthopVpn>
    </Neighbor>
  </LinklocalIfNeighbors>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	LinklocalIfNeighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier of neighbor	Index	Enumeration: **1**—IPv4 Unicast. **2**—IPv4 Multicast. 3—MDT 4—VPNv4 5—IPv6 Unicast 6—IPv6 Multicast. 7—VPNv6 8—L2VPN 9—L2VPN EVPN 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv6 linklocal address string..	Example: fe80::1.
Mask	Mask length or prefix length of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, the value is 255. For IPv4 dynamic peers, the value is in the range of 0 to 32. For IPv6 dynamic peers, the value is in the range of 0 to 128.
LinkLocalInterface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Route policy applied to routes incoming from peers		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Route policy applied to routes outgoing to peers		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	Allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the		Enumeration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device as a route reflector and specify a peer or peer group as a client		• 0—Disable. • 1—Enable.	
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		Enumeration. • 0—Disable. 1—Enable.	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community		• Enumeration. • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	attribute			
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A

BGP/InterfaceCfgSessions

This table contains configuration information of BGP interface sessions.

XML structure

```
<BGP>
  <InterfaceCfgSessions>
    <CfgSession>
      <Name></Name>
```

```
      <VRF></VRF>
      <SessAF></SessAF>
      <Interface></Interface>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
      <Dscp></Dscp>
      <IgnoreOriginatorid></IgnoreOriginatorid>
      <LogChange></LogChange>
      <LowMemoryExempt></LowMemoryExempt>
      <SubstituteAs><SubstituteAs>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
      <IpsecProfile></IpsecProfile>
      <Keychain></Keychain>
      <GracefulRestartExtra></GracefulRestartExtra>
    </CfgSession>
  </InterfaceCfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	InterfaceCfgSessions
Table type	Multi-instance table
Row name	CfgSession
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	An empty value indicates IPv6.
Interface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route update interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	BFD type		Enumeration. • 0—default type • 1—single-hop • 2—multi-hop	The default type indicates that actual BFD type (single-hop or multi-hop) depends on different situations.
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer description		String. Length: 1 to 79 characters.	Case sensitive

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
Dscp	Set the DSCP priority of BGP packets		Unsigned integer. Value range: 0 to 63	N/A
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		Unsigned integer. Value range: 0 to 21845	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HoldTime	Holdtime in seconds		Unsigned integer. Value range: 0 , 3 to 65535	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.

BGP/InterfaceNeighbors

This table contains BGP interface peer information.

XML structure

```
<BGP>
  <InterfaceNeighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <Interface></Interface>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopLocal></NexthopLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
```

```
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
    <AdditionalPathsRcv></AdditionalPathsRcv>
    <AdditionalPathsSend></AdditionalPathsSend>
    <AdvAddPathsBest></AdvAddPathsBest>
    <RouteAdv>
      <DefRouteAdv></DefRouteAdv>
      <RoutePlcy></RoutePlcy>
    </RouteAdv>
    <KeepAllRoutes></KeepAllRoutes>
    <PrefixListExp></PrefixListExp>
    <PrefixListImp></PrefixListImp>
    <PublicAsOnly></PublicAsOnly>
    <SooSiteOfOrigin></SooSiteOfOrigin>
    <FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
    <FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
    <AdvOrigAsVld></AdvOrigAsVld>
    <CapOrf></CapOrf>
    <ASPathAclImport></ASPathAclImport>
    <ASPathAclExport></ASPathAclExport>
  </Neighbor>
 </InterfaceNeighbors>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	InterfaceNeighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier of neighbor	Index	Enumeration: **1**—IPv4 Unicast. **2**—IPv4 Multicast. 3—MDT 4—VPNv4 5—IPv6 Unicast 6—IPv6 Multicast. 7—VPNv6 8—L2VPN 9—L2VPN EVPN 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	An empty value indicates IPv6.
Interface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Route policy applied to routes incoming from peers		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Route policy applied to routes outgoing to peers		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	Allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
AdvertiseCommunity	Send community attribute to the		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	peers		• 1—Enable.	
AdvertiseExt Community	Send extended community attribute to the peers		Enumeration. • 0—Disable. 1—Enable.	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValu e	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
AdditionalPat hsRcv	Specify additional path receiving ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPat hsSend	Specify additional path sending ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvAddPaths Best	Specify the maximum number of Add-Path optimal routes that can be advertised to a peer or peer group		Unsigned integer. Value range: 2 to 32. Default is 1	N/A
RouteAdv	Set default route info to peer or	Data Structure	Include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	peer group		• DefRouteAdv • RoutePlcy	
DefRouteAdv	Specify default route advertisement info to peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
RoutePlcy	Specify a route policy		String. Length: 1 to 63 characters.	N/A
KeepAllRoutes	Save original route update info from all peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
PrefixListExp	Specify a prefix list to filter routes advertised to a peer or peer group		String. Length: 1 to 63 characters.	N/A
PrefixListImp	Specify a prefix list to filter routes received from a peer or peer group		String. Length: 1 to 63 characters.	N/A
PublicAsOnly	Remove private AS numbers in BGP updates sent to an EBGP peer or peer group		Enumeration. • 0—Disable.(default) • 1—Normal. • 2—Force • 3—ForceReplace • 4—ForceIncludePeerAs • 5—ForceReplaceIncluedePeerAs • 6—Limited • 7—LimitedReplace • 8—LimitedIncludePeerAs • 9—LimitedReplaceIncluedePeerAs	N/A
SooSiteOfOrigin	Configure SoO info for peer or peer groups		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 65535:1..
FlPlcyAclNoOrNameExp	Specify an ACL to filter routes advertised to peers or peer groups		Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	N/A
FlPlcyAclNoO	Specify an ACL		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
rNameImp	to filter routes received from peers or peer groups		Value range: 2000 to 3999. String. Length: 1 to 63 characters.	
AdvOrigAsVld	Send BGP RPKI validation results to peer or peer groups		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
CapOrf	Specify BGP neighbor ORF capabilities negotiation		Enumeration: • 1—Receive. • 2—Send. • 3—Both	N/A
ASPathAclImport	AS path list used for filtering incoming routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
ASPathAclExport	AS path list used for filtering outgoing routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.

BGP/RedistributesBier

This table contains BGP redistribution information for BIER route.

XML structure

```
<BGP>
  <RedistributesBier>
    <RedistBier>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </RedistBier>
  </RedistributesBier>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RedistributesBier
Table type	Multi-instance table
Row name	RedistBier
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • 5—IPv6 Unicast	N/A
Protocol	Protocol name	Index	Enumeration: • 5—ISIS/ISISv6	N/A
RedistName	Redistributed process name	Index	String. Length: 0 to 31 characters.	N/A

BGP/ImportRibs

This table contains BGP Import Rib information.

XML structure

```
<BGP>
  <ImportRibs>
    <ImportRib>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SrcVRF></SrcVRF>
      <SrcFamily></SrcFamily>
      <ValidRouteEnable></ValidRouteEnable>
```

```
      <ImRibRtPolicyName></ImRibRtPolicyName>
      <ImRibFtPolicyPreName></ImRibFtPolicyPreName>
      <ImRibFtPolicyAclNum></ImRibFtPolicyAclNum>
      <ImRibFtPolicyAclName></ImRibFtPolicyAclName>
    </ImportRib>
  </ImportRibs>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	ImportRibs
Table type	Multi-instance table
Row name	ImportRib
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Import Rib	Index	Enumeration: • **1**—IPv4 Unicast • 23—IPv4 Labeled-unicast	N/A
SrcVRF	Source VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SrcFamily	Source Address Family Identifier of Import Rib	Index	Enumeration: • **1**—IPv4 Unicast • 23—IPv4 Labeled-unicast	N/A
ValidRouteEnable	Specify the valid route of the corresponding route type to be imported		Enumeration: • 0—Disable. • 1—Enable.	N/A
ImRibRtPolicyName	Configure the route policy name of Import Rib.		String. Length: 1 to 63 characters.	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.
ImRibFtPolicyPreName	Filter BGP routes by a prefix-list name of Import Rib.		String. Length: 1 to 63 characters.	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.
ImRibFtPolicyAclNum	Filter BGP routes by an ACL number of Import Rib.		Unsigned integer. Value range: 2000 to 3999	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclN

Column name	Column description	Column type	Data type and restrictions	Remarks
				ame at the same time.
ImRibFtPolicyAclName	Filter BGP routes by an ACL name of Import Rib.		String. Length: 1 to 63 characters.	ACL name (start with[a-z,A-Z]).Can't use "all" as ACL name. You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.

Contents

BGP 1

BGP/Instances 1
XML structure 1
Table description 4
Columns 4
BGP/Instance/ EPEPeerSets 17
XML structure 17
Table description 17
Columns 18
BGP/Instances/EPESRv6PeerSets 18
XML structure 18
Table description 18
Columns 18
BGP/Instance/Interfaces 19
XML structure 19
Table description 19
Columns 20
BGP/VRFs 20
XML structure 20
Table description 21
Columns 21
BGP/CfgSessionGroups 23
XML structure 23
Table description 25
Columns 26
BGP/CfgSessions 32
XML structure 32
Table description 34
Columns 35
BGP/Sessions 42
XML structure 42
Table description 43
Columns 44
BGP/Familys 47
XML structure 47
Table description 51
Columns 52
BGP/Familys/AdvertiseLocators 67
XML structure 67
Table description 67
Columns 68
BGP/Networks 68
XML structure 68
Table description 68
Columns 69
BGP/Aggregates 69
XML structure 69
Table description 70
Columns 71
BGP/NeighborGroups 71
XML structure 71
Table description 74
Columns 75
BGP/Neighbors 85
XML structure 85
Table description 88
Columns 89

BGP/Redistributes 100
XML structure 100
Table description 101
Columns 102
BGP/SessionCounts 102
XML structure 102
Table description 103
Columns 103
BGP/NeighborInformations 103
XML structure 104
Table description 104
Columns 105
BGP/RedistributesAppend 107
XML structure 107
Table description 108
Columns 109
BGP/BMPs 109
XML structure 110
Table description 110
Columns 111
BGP/BMPRouteModeLocRibFilters 111
XML structure 112
Table description 112
Columns 113
BGP/Rpkis 113
XML structure 113
Table description 114
Columns 114
BGP/Rpkis/Rpki/Servers 114
XML structure 115
Table description 115
Columns 116
BGP/FilterPolicyExports 117
XML structure 117
Table description 117
Columns 118
BGP/PeerGpDefRtAdvVpnInsts 119
XML structure 119
Table description 119
Columns 120
BGP/PeerGpExtDefRtAdvVpnInsts 120
XML structure 120
Table description 120
Columns 121
BGP/PeerDefRtAdvVpnInsts 121
XML structure 121
Table description 122
Columns 122
BGP/PeerExtDefRtAdvVpnInsts 122
XML structure 122
Table description 123
Columns 124
BGP/NSRStatuss 124
XML structure 124
Table description 125
Columns 125
BGP/PeerStatistics 125
XML structure 126
Table description 126
Columns 127
BGP/LinklocalIfCfgSessions 127
XML structure 128

Table description 128
Columns 129
BGP/LinklocalIfNeighbors 130
XML structure 130
Table description 131
Columns 132
BGP/InterfaceCfgSessions 134
XML structure 134
Table description 135
Columns 136
BGP/InterfaceNeighbors 138
XML structure 138
Table description 139
Columns 140
BGP/Groups 141
XML structure 141
Table description 142
Columns 142
BGP/Paths 143
XML structure 143
Table description 144
Columns 144
BGP/RouteStatistics 145
XML structure 145
Table description 146
Columns 146
BGP/PeerRouteStatistics 146
XML structure 147
Table description 148
Columns 148
BGP/PeerRoutes 149
XML structure 149
Table description 150
Columns 150
BGP/SREPEPeerSets 152
XML structure 152
Table description 152
Columns 153
BGP/SREPEPeerSets/EPESessions 153
XML structure 153
Table description 153
Columns 154
BGP/SREpes 154
XML structure 154
Table description 155
Columns 156
BGP/SREpes/EPEAdjs 157
XML structure 157
Table description 157
Columns 157
BGP/SRv6EPEs 157
XML structure 157
Table description 158
Columns 159
BGP/SRv6EPEs/EPEAdjs 160
XML structure 160
Table description 160
Columns 161
BGP/SRv6EPESets 161
XML structure 161
Table description 162
Columns 162

BGP/SRv6EPESets/EPESessions 162
XML structure 162
Table description 163
Columns 163
BGP/RedistributesBier 163
XML structure 163
Table description 163
Columns 164
BGP/ImportRibs 164
XML structure 164
Table description 165
Columns 166

BGP

BGP/Instances

This table contains BGP instance information.

XML structure

```
<BGP>
  <Instances>
    <Instance>
      <Name></Name>
      <ASNumber></ASNumber>
      <NSR></NSR>
      <SendDelayTime></SendDelayTime>
      <SendDelayPrefix></SendDelayPrefix>
      <SendDelayIPv6Prefix></SendDelayIPv6Prefix>
      <SendStartupTime></SendStartupTime>
      <SendLowPriorityPeerupDelayTime></SendLowPriorityPeerupDelayTime>
      <SendLowPriorityOnStartupTime></SendLowPriorityOnStartupTime>
      <StartupPolicyMed></StartupPolicyMed>
      <FlushSuboptimalRoute></FlushSuboptimalRoute>
      <RouteReplicateEnable></RouteReplicateEnable>
      <DefaultRouteUpdateFirst></DefaultRouteUpdateFirst>
      <EbgpInterfaceSensitive></EbgpInterfaceSensitive>
      <GracefulRestartEnable></GracefulRestartEnable>
      <GracefulRestartTimerPurgeTime></GracefulRestartTimerPurgeTime>
      <GracefulRestartTimerRestart></GracefulRestartTimerRestart>
      <GracefulRestartTimerWaitForRib></GracefulRestartTimerWaitForRib>
      <IgnoreAllPeers>
        <IgnoreAllPeersEnable></IgnoreAllPeersEnable>
        <GracefulTime></GracefulTime>
        <CommunityNumber></CommunityNumber>
        <LocalPreference></LocalPreference>
        <Med></Med>
      </IgnoreAllPeers>
      <SRPolicySteering></SRPolicySteering>
      <IgnoreFirstAs></IgnoreFirstAs>
      <LabelAllocationMode></LabelAllocationMode>
      <LabeledRouteIgnoreNoTunnel></LabeledRouteIgnoreNoTunnel>
      <LogPeerChange></LogPeerChange>
      <PrimaryPathDetectBfdEcho></PrimaryPathDetectBfdEcho>
      <RetainLocalLabel></RetainLocalLabel>
      <RouteRateLimit></RouteRateLimit>
      <RouteUpdateIntervalWithdrawnEnable></RouteUpdateIntervalWithdrawnEnable>
      <SnmpContextName></SnmpContextName>
```

```
<VpnPopgo></VpnPopgo>
<ConfederationId></ConfederationId>
<ConfederationNonstandard></ConfederationNonstandard>
<GracefulRestartPeerReset></GracefulRestartPeerReset>
<IgnoreReflectDifferentVrf></IgnoreReflectDifferentVrf>
<ConfederationPeerAs></ConfederationPeerAs>
<AsPathLimit></AsPathLimit>
<BestRouteAsPathNeglectAllInstance></BestRouteAsPathNeglectAllInstance>
<BestRouteCompareMEDAllInstance></BestRouteCompareMEDAllInstance>
<BestRouteConfederationMEDAllInstance></BestRouteConfederationMEDAllInstance>
<BestRouteIgpMetricIgnoreAllInstance></BestRouteIgpMetricIgnoreAllInstance>
<BestRouteRouterIdIgnoreAllInstance></BestRouteRouterIdIgnoreAllInstance>
<UpdateDelayWaitOtherProtocol></UpdateDelayWaitOtherProtocol>
<VpnRouteCrossMultipath></VpnRouteCrossMultipath>
<KeepAllRoutes></KeepAllRoutes>
<RouteUpdateDelay></RouteUpdateDelay>
<BmpPrefixListName4></BmpPrefixListName4>
<BmpRdListNum4></BmpRdListNum4>
<BmpPrefixListName6></BmpPrefixListName6>
<BmpRdListNum6></BmpRdListNum6>
<Isolate></Isolate>
<SRLabelRange>
  <Type></Type>
  <Lowerbound></Lowerbound>
  <Upperbound></Upperbound>
</SRLabelRange>
<PrefixLabelRange>
  <PrefixLabelLowerbound></PrefixLabelLowerbound>
  <PrefixLabelUpperbound></PrefixLabelUpperbound>
</PrefixLabelRange>
<EPEPeerSets>
  <EPEPeerSet>
    <SetName></SetName>
    <SetLabel></SetLabel>
    <LinkDown></LinkDown>
  </EPEPeerSet>
</EPEPeerSets>
<EPESRv6Locator></EPESRv6Locator>
<EPESRv6AutoSidMode></EPESRv6AutoSidMode>
<EPESRv6PeerSets>
  <EPESRv6PeerSet>
     <SetName></SetName>
     <Psp></Psp>
     <NoPspUsp></NoPspUsp>
     <PspUspUsd></PspUspUsd>
     <StaticSidMode></StaticSidMode>
     <AutoSidMode></AutoSidMode>
  </EPESRv6PeerSet>
```

```
 </EPESRv6PeerSets>
 <PathMtuDiscovery></PathMtuDiscovery>
 <Shutdown></Shutdown>
 <BestRouteSameRd></BestRouteSameRd>
 <UpdateIntervalIntelligent>
   <MinInterval></MinInterval>
   <MaxInterval></MaxInterval>
   <IgnoreCount></IgnoreCount>
   <IncrementalInterval></IncrementalInterval>
 </UpdateIntervalIntelligent>
<EPEMetricDelayAdvertisement></EPEMetricDelayAdvertisement>
<EPEMetricDelaySuppression>
   <Time></Time>
   <ThresholdPercent></ThresholdPercent>
   <ThresholdAbsolute></ThresholdAbsolute>
</EPEMetricDelaySuppression>
<EPEMetricBandwidthAdvertisement></EPEMetricBandwidthAdvertisement>
<EPEMetricBandwidthSuppression>
   <Time></Time>
</EPEMetricBandwidthSuppression>
<Interfaces>
 <Interface>
   <IfName></IfName>
   <LinkDelay>
      <Average></Average>
      <Minimal></Minimal>
      <Maximal></Maximal>
      <Variation></Variation>
     </LinkDelay>
     <LinkLoss>
       <Loss></Loss>
     </LinkLoss>
   </Interface>
 </Interfaces>
 <PrimaryPathDetectBfdCtrl></PrimaryPathDetectBfdCtrl>
 <EPEMetricLinkLossAdvertisement></EPEMetricLinkLossAdvertisement>
 <EPEMetricLinkLossSuppression>
   <Time></Time>
   <ThresholdPercent></ThresholdPercent>
   <ThresholdAbsolute></ThresholdAbsolute>
  <EPEMetricLinkLossSuppression>
 <EvpnReOriginated></EvpnReOriginated>
 <PeerDownStatistics></PeerDownStatistics>
 <DynamicPeerLimit></DynamicPeerLimit>
 <PeerFormatLimit></PeerFormatLimit>
 <PeerSendLimit></PeerSendLimit>
 <SendBufferSize></SendBufferSize>
 <AdvertiseRouteUpdates>
```

```
      <AdvertiseInterval></AdvertiseInterval>
      <AdvertiseCount></AdvertiseCount>
    </AdvertiseRouteUpdates>
  </Instance>
 </Instances>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates all BGP processes. When execute get bulk operation, you can only get the data of the specified BGP instance.

Column name	Column description	Column type	Data type and restrictions	Remarks
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
NSR	Nonstop Routing		Enumeration. • **0**—Disable. • **1—Enable.**	N/A
SendDelayTime	Send delay time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker never send the update message. SendLowPriorityPeerupDelayTime, SendLowPriorityOnStartupTime and SendDelayTime cannot be configured at the same time.
SendDelayPrefix	Send delay using IPv4 prefix list		String. Length: 1 to 63 characters.	N/A
SendDelayIPv6Prefix	Send delay using IPv6 prefix list		String. Length: 1 to 63 characters.	N/A
SendStartupTime	Send startup time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker always send the update message with the startup policy.
SendLowPriorityPeerupDelayTime	Modify priority of routes to lowest-priority when the neighbors change from down to up		Unsigned integer. Value range: 1 to 864000	The value 0 indicates that lowest-priority routes is sent always. SendLowPriorityPeerupDelayTime, SendLowPriorityOnStartupTime and SendDelayTime cannot be configured at the same time.
SendLowPriorityOnStartupTime	Modify priority of routes to lowest-priority when the device is restarted		Unsigned integer. Value range: 1 to 3600	The value 0 indicates that lowest-priority routes is sent always. SendLowPriorityPeerupDelayTime, SendLowPriorityOn

Column name	Column description	Column type	Data type and restrictions	Remarks
				StartupTime and SendDelayTime cannot be configured at the same time. SendLowPriorityOn StartupTime and SendDelayTime cover each other.
StartupPolicyMed	Satrtup policy MED		Unsigned integer. Value range: 0 to 4294967295	N/A
FlushSuboptimalRoute	Flush suboptimal route to RIB		Enumeration. • 0—Disable. • 1—Enable.	N/A
RouteReplicateEnable	Enable mutual route replication between public and private networks		Enumeration. • 0—Disable. • 1—Enable.	N/A
DefaultRouteUpdateFirst	Enable BGP to send withdrawal messages of the default route prior to other routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
EbgpInterfaceSensitive	Immediate re-establishment of direct EBGP sessions		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulRestartEnable	Enabling graceful restart		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulRestartTimerPurgeTime	Graceful restart purge time in seconds		Unsigned integer. Value range: 1 to 6000	Graceful restart must be enabled first.
GracefulRestartTimerRestart	Graceful restart restart time in seconds		Unsigned integer. Value range: 3 to 600	Graceful restart must be enabled first.
GracefulRestartTimerWaitForRib	Graceful restart time to wait for the End-of-RIP marker in seconds		Unsigned integer. Value range: 3 to 3600	Graceful restart must be enabled first.
IgnoreAllPeers	Ignore all peers	Data Structure	Include: • IgnoreAllPeersEnable • GracefulTime • CommunityNumber	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• LocalPreference • Med	

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreAllPeersEnable	Ignore all peers enable		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulTime	Graceful time in seconds		Unsigned integer. Value range: 60 to 65535	Ignore all peers must be enabled first. Community, LocalPreference and Med should be set on at least GracefulTime.
CommunityNumber	Community number		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	Ignore all peers must be enabled first. Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr. Only supported for basic community list.
LocalPreference	Local preference		Unsigned integer. Value range: 0 to 4294967295	Ignore all peers must be enabled first.
Med	MED of route		Unsigned integer. Value range: 0 to 4294967295	Ignore all peers must be enabled first.
SRPolicySteering	Control SR Policy steering.		Enumeration. • 1—SRPolicySteeringColor(default) • 2—SRPolicySteeringDisable • 3—SRPolicySteeringPolicy	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable. • 1—Enable.	N/A
LabelAllocationMode	Label allocation mode		Enumeration. • 0—per-hop. • 1—per-prefix • 2- per-vrf.	N/A
LabeledRouteIgnoreNoTunnel	Ignore labeled routes with no tunnel information		Enumeration. • 0—Disable. • 1—Enable.	N/A
LogPeerChange	Log peer change		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Enable.	

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryPathDetectBfdEcho	Detect primary path using BFD echo.		Enumeration. • 0—Disable. • 1—Enable.	In PrimaryPathDetectBfdEcho and PrimaryPathDetectBfdCtrl, The latest configuration takes effect.
RetainLocalLabel	Update delay for local MPLS labels in seconds		Unsigned integer. Value range: 1 to 21845	N/A
RouteRateLimit	Route rate limit		Unsigned integer. Value range:0 to 4294967295	N/A
RouteUpdateIntervalWithdrawnEnable	Apply route update interval setting to withdrawn routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
SnmpContextName	SNMP context name		String. Length: 1 to 32 characters.	N/A
VpnPopgo	VPN POPGO		Enumeration. • 0—Disable. • 1—Enable.	N/A
ConfederationId	Confederation ID		Unsigned integer. Value range: 1 to 4294967295	N/A
ConfederationNonstandard	Enable compatibility with routers not compliant with RFC 3065 in the confederation		Enumeration. • 0—Disable. • 1—Enable.	N/A
GracefulRestartPeerReset	Reset peer sessions gracefully		Enumeration. • 1—no-all. • 2—all.	Graceful restart must be enabled first.
IgnoreReflectDifferentVrf	Clear CLUSTER_LIST and ORIGINATOR_ID attributes before advertising routes to other VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
ConfederationPeerAs	Confederation peer sub-AS number.		Unsigned integer. Value range: 1 to 4294967295	N/A
AsPathLimit	Set the AS path length limit		Unsigned integer. Value range: 1 to 2000	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BestRouteAsPathNegleictAllInstance	Ignore the AS-PATH attribute during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteCompareMEDAllInstance	Consider MED value during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteConfederationMEDAllInstance	Compare the MEDs of routes from confederation peers during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteIgpMetricIgnoreAllInstance	Ignore IGP metrics during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteRouterIdIgnoreAllInstance	Ignore router ID during optimal route selection in the BGP instance and all its BGP-VPN instances		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpdateDelayWaitOtherProtocol	Set the time to wait for other protocols to complete GR or NSR		Unsigned integer. Value range: 60 to 1200	N/A
VpnRouteCrossMultipath	Redistribute multiple routes with the same		Enumeration. • 0—Disable.(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefix and RD to the VPN routing table		• 1—Enable.	
KeepAllRoutes	Save original routing information		Enumeration. • 0—Disable. • 1—Enable.	N/A
RouteUpdateDelay	Set the delay to send updates to peers		Unsigned integer. Value range: 1 to 600	N/A
BmpPrefixListName4	Specify BGP route filtering policy based on an ipv4 prefix list		String. Length: 1 to 63 characters.	N/A
BmpRdListNum4	Specify BGP route filtering policy based on a route distinguisher list		Unsigned integer. Value range: 1 to 65535.	BmpPrefixListName4 must be configured first.
BmpPrefixListName6	Specify BGP route filtering policy based on an ipv6 prefix list		String. Length: 1 to 63 characters.	N/A
BmpRdListNum6	Specify BGP route filtering policy based on a route distinguisher list		Unsigned integer. Value range: 1 to 65535.	BmpPrefixListName6 must be configured first.
Isolate	Isolate BGP from the current network		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
SRLabelRange	Segment routing label range	Data Structure	Include: • Type • Lowerbound • Upperbound	You can specify multiple SR label ranges.
Type	Label service type		Enumeration: • 0—Static. • 1—Egress. • 2—Dynamic.	N/A
Lowerbound	Minimum label value		Unsigned integer.	N/A
Upperbound	Maximum label value		Unsigned integer.	N/A
PrefixLabelRange	Prefix label range	Data Structure	Include: • PrefixLabelLowerbound • PrefixLabelUpperbound	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixLabelLowerbound	Minimum prefix label value		Unsigned integer.	N/A
PrefixLabelUpperbound	Maximum prefix label value		Unsigned integer.	N/A
EPEPeerSet	Site containing the EPEPeerSet information	Subtable	N/A	For more information, see the BGP/Instance/EPEPeerSets
EPESRv6Locator	Specify an EVESRV6 locator		String. Length: 1 to 31 characters.	N/A
EPESRv6AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • 1—auto-normal. • 2—auto-sid-coc32. • 3—auto-sid-cocboth-coc32. • 4—auto-sid-cocboth-coc32-none. • 5—auto-disable	EPESRv6Locator is configured, then EPESRv6AutoSidMode can be configured
EPESRv6PeerSets	Site containing the EPE PeerSets information	Sublist	• N/A	For more information, see the BGP/EPESRv6PeerSets
PathMtuDiscovery	TCP path MTU discovery configuration		Enumeration. • **0**—Disable. • 1—Enable.	N/A
Shutdown	Administratively shutdown BGP protocol		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BestRouteSameRd	Enabling bestroute same-rd		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
UpdateIntervalIntelligent	Calculation parameters of the suppression interval for sending the same route update to the peer or peer group	Data structure	Members include: • MinInterval • MaxInterval • IgnoreCount • IncrementalInterval.	The MaxInterval must be longer than the MinInterval
MinInterval	Minimum suppression interval		Unsigned integer. Value range: 0 to 600.	N/A
MaxInterval	Maximum suppression interval		Unsigned integer. Value range: 0 to 600.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreCount	Maximum number of times that BGP can send the same route update to the peer or peer group		Unsigned integer. Value range: 0 to 200.	N/A
IncrementalInterval	Time of penalty increment.		Unsigned integer. Value range: 1 to 10.	N/A
EPEMetricDelayAdvertisement	Advertise link delay metric information in LS-route	N/A	Boolean: • true—Enable BGP to advertise link delay metric information in LS-route. • false—Disable BGP to advertise link delay metric information in LS-route (default).	N/A
EPEMetricDelaySuppression	enable a device to suppress advertisement of link delay information.	Data structure	Members include: • Time. • ThresholdPercent. • ThresholdAbsolute.	configure suppression timer.
Time	Specifies the link delay information timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
ThresholdPercent	Specifies the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 100. Default: 10 seconds.	N/A
ThresholdAbsolute	Specifies the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 10000. Default: 1000 seconds.	N/A
EPEMetricBandwidthAdvertiseMent	Advertise link bandwidth metric information in LS-route	N/A	Boolean: • true—Enable BGP to advertise link bandwidth metric information in LS-route. • false—Disable BGP to advertise link bandwidth metric information in LS-route (default).	N/A
EPEMetricBandwidthSuppression	enable a device to suppress link bandwidth information advertisement.	Data structure	Members include: • Time.	Configure suppression timer
Time	Specifies the suppression timer.	N/A	Unsigned integer. Value range: 0 to 600.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 120 seconds.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Interfaces	Site containing the Interfaces information	Sublist	N/A	For more information, see the BGP/Instance/Interfaces
PrimaryPathDetectBfdCtrl	Detect primary path using BFD ctrl.		Enumeration. • 0—Disable. • 1—Enable.	In PrimaryPathDetectBfdEcho and PrimaryPathDetectBfdCtrl, The latest configuration takes effect.
EPEMetricLinkLossAdvertisement	Advertise link loss metric information in LS routes	N/A	Enumeration. • Disable. • Enable.	N/A
EPEMetricLinkLossSuppression	Suppress advertisement of link loss metric information.	Data structure	Members include: • Time. • ThresholdPercent. • ThresholdAbsolute.	Configure the advertisement delay timer.
Time	Specify the delay timer for link loss metric information advertisement.	N/A	Unsigned integer. Value range: 0 to 600.	N/A
ThresholdPercent	Specify the link loss variation rate threshold	N/A	Unsigned integer. Value range: 0 to 100.	N/A
ThresholdAbsolute	Specify the absolute link loss variation threshold	N/A	Unsigned integer. Value range: 0 to 10000.	N/A
EvpnReOriginated	Re-originated MAC routes		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
PeerDownStatistics	Statistics about peer down events	N/A	Unsigned integer.	N/A
DynamicPeerLimit	Maximum number of dynamic peers that can be established	N/A	Unsigned integer. Value range: 1 to 16000	N/A
PeerFormatLimit	The maximum number for formating updates		Unsigned integer. Value rang e: 1 to 1000	N/A
PeerSendLimit	The maximum number for sending updates		Unsigned integer. Value range: 1 to 100	N/A
SendBufferSi	The TCP send		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ze	buffer size		Value range: 2048 to 327680	
AdvertiseRouteUpdates	Configure sending BGP route updates	Data Structure	Include: • AdvertiseInterval. • AdvertiseCount.	N/A
AdvertiseInterval	The interval for sending BGP route updates		Unsigned integer. Value range: 100 to 10000	The interval for sending BGP route update must be 100 integer times
AdvertiseCount	The count for sending BGP route updates		Unsigned integer. Value range: 1 to 40960	

BGP/Instance/ EPEPeerSets

This table contains BGP Instance EPE PeerSet information.

XML structure

Please refer to the XML structure of BGP/Instances.

Table description

Item	Description
Feature name	BGP
Table name	EPEPeerSets
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SetName	PeerSet name	Index	String. Length: 1 to 63 characters.	N/A
SetLabel	Routing policy used to filter specific routes to be advertised		NA	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
LinkDown	LinkDownType		Enumeration. • 0—Disable.(Default). • 1—Relate BFD state.	N/A

BGP/Instances/EPESRv6PeerSets

This table contains BGP Instance information.

XML structure

Please refer to the XML structure of BGP/Instances

Table description

Item	Description
Feature name	BGP
Table name	EPESRv6PeerSets
Table type	Multi-instance table
Row name	EPESRv6PeerSet
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SetName	Instance set name	Index	String. Length: 1 to 63 characters.	N/A
Psp	peer-set peer type static End.X SID	N/A	String, IPv6 address string.	N/A
NoPspUsp	End.X SID(-NO-FLAVOR)	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			IPv6 address string.	
PspUspUsd	End.X SID(PSP USP USD)	N/A	String IPv6 address string.	N/A
StaticSidMode	Static Sid Mode.	N/A	Enumeration: • **1**—normal. • **2**—coc32. • **3**—cocboth-coc32. • **4**—cocboth-coc-none.	StaticSidMode and AutoSidMode cannot be configured at the same time.
AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • **1**—auto-normal. • **2**—auto-sid-coc32. • **3**—auto-sid-cocboth-coc32. • **4**—auto-sid-cocboth-coc32-none.	StaticSidMode and AutoSidMode cannot be configured at the same time.

BGP/Instance/Interfaces

This table contains BGP Instances information.

XML structure

Please refer to the XML structure of BGP/Instances

Table description

Item	Description
Feature name	BGP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface Name	Index	String. Length: 1 to 47 characters.	N/A
LinkDelay	configure link delay parameters on an interface.	Data structure	Members include: • Average. • Minimal. • Maximal. • Variation.	A property column must exist.
Average	Specifies the average link	N/A	Unsigned integer. • Value range:1 to 16777215.	N/A
Minimal	Specifies the minimum link.	N/A	Unsigned integer. • Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously
Maximal	Specifies the maximum link.	N/A	Unsigned integer. • Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously.
Variation	Sets the acceptable delay variation.	N/A	Unsigned integer. • Value range: 1 to 16777215.	N/A
LinkLoss	Configure the link loss value on an interface.	Data structure	Members include: Loss.	N/A
Loss	Specify the link loss value.	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A

BGP/VRFs

This table contains BGP VRF information.

XML structure

```
<BGP>
  <VRFs>
    <VRF>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Timer>
        <KeepAlive></KeepAlive>
```

```
      <HoldTime></HoldTime>
    </Timer>
    <BestRouteIgpMetricIgnore></BestRouteIgpMetricIgnore>
    <BestRouteAsPathNeglect></BestRouteAsPathNeglect>
    <BestRouteCompareMED></BestRouteCompareMED>
    <BestRouteConfederationMED></BestRouteConfederationMED>
    <BestRouteRouterIdIgnore></BestRouteRouterIdIgnore>
    <CompareDifferentAsMED></CompareDifferentAsMED>
    <TimerConnectRetry></TimerConnectRetry>
    <BestRouteEncapType></BestRouteEncapType>
    <BestRouteNexthopType></BestRouteNexthopType>
    <BestRouteNexthopResolved></BestRouteNexthopResolved>
    <MedPlusIgp>
      <IgpMultiplier></IgpMultiplier>
      <MedMultiplier></MedMultiplier>
    </MedPlusIgp>
    <NexthopRecursiveRestrain>
      <Maximum></Maximum>
      <Minimum></Minimum>
      <Incremental></Incremental>
      <Millisecond></Millisecond>
    </NexthopRecursiveRestrain>
  </VRF>
 </VRFs>
</BGP>
```


Table description

Item	Description
Feature name	BGP
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
RouterId	BGP Router Id		String,IPv4 address string	N/A
Timer	Keepalive and Holdtime	Data Structure	Include: • KeepAlive • HoldTime	N/A
KeepAlive	Keepalive Interval in Seconds		Unsigned integer. Value range: 0 to 21845	N/A
HoldTime	Holdtime in Seconds		Unsigned integer. Value range: 0, or 3 to 65535	N/A
BestRouteIgpMetricIgnore	Ignore IGP metrics during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteAsPathNeglect	Ignore the AS-PATH attribute during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteCompareMED	Consider MED value during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteConfederationMED	Compare the MEDs of routes from confederation peers during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
BestRouteRouterIdIgnore	Ignore router ID during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
CompareDifferentAsMED	Compare the MEDs of routes from different ASs during optimal route selection		Enumeration. • 0—Disable. • 1—Enable.	N/A
TimerConnectRetry	Timer connect retry in seconds		Unsigned integer. Value range: 1 to 65535	N/A
BestRouteEncapType	Specify the SRv6 (MPLS) encapsulated route as the best route.		Enumeration. • 0—Disable. • 1—SRv6. • 2—MPLS. • 3—SRv6 preferred. • 4—MPLS preferred.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BestRouteNexthopType	Perform optimal route selection based on the next hop type.		Enumeration. • 0—Disable. • 1—Tunnel. • 2—IP.	N/A
BestRouteNexthopResolved	Configure next hop type-based optimal route selection.		Enumeration. • 0—Disable. • 1—Tunnel. • 2—None.	N/A
MedPlusIgp	Use the sum of the calculated MED and IGP metric values to perform optimal route selection.	Data Structure	Include: • IgpMultiplier. • MedMultiplier.	N/A
IgpMultiplier	Specify an IGP metric multiplier.		Unsigned integer. Value range: 1 to 1000	N/A
MedMultiplier	Specify an MED value multiplier.		Unsigned integer. Value range: 1 to 1000	N/A

BGP/CfgSessionGroups

This table contains configure information of BGP session group.

XML structure

```
<BGP>
  <CfgSessionGroups>
    <CfgSessionGroup>
      <Name></Name>
      <VRF></VRF>
      <GroupName></GroupName>
      <Type></Type>
      <ASNumber></ASNumber>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <BfdType></BfdType>
      <EbgpMaxHop></EbgpMaxHop>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
```

```
<DualAS></DualAS>
<PrependGlobalAS></PrependGlobalAS>
<PrependFakeAS></PrependFakeAS>
<Dscp></Dscp>
<IgnoreOriginatorid></IgnoreOriginatorid>
<LogChange></LogChange>
<LowMemoryExempt></LowMemoryExempt>
<Ipv4SourceAddr></Ipv4SourceAddr>
<Ipv6SourceAddr></Ipv6SourceAddr>
<SubstituteAs></SubstituteAs>
<Timer>
  <KeepAlive></KeepAlive>
  <HoldTime></HoldTime>
</Timer>
<TtlSecurity></TtlSecurity>
<CapSupAs4></CapSupAs4>
<CapOrfNonStandard></CapOrfNonStandard>
<CapConventional></CapConventional>
<CapExtendedMsg></CapExtendedMsg>
<IpsecProfile></IpsecProfile>
<Keychain></Keychain>
<GracefulRestartExtra></GracefulRestartExtra>
<ClusterId></ClusterId>
<MplsLocalIfnetDisable></MplsLocalIfnetDisable>
<FlapDampen></FlapDampen>
<SendBufferSize></SendBufferSize>
<AdvertiseRouteUpdates>
  <AdvertiseInterval></AdvertiseInterval>
  <AdvertiseCount></AdvertiseCount>
</AdvertiseRouteUpdates>
<EgressEngineering></EgressEngineering>
<EgressEngineeringType></EgressEngineeringType>
<EgressEngineeringPolicyName></EgressEngineeringPolicyName>
<EgressEngineeringStaticLabel></EgressEngineeringStaticLabel>
<EgressEngineeringLinkDown></EgressEngineeringLinkDown>
<PeerSet></PeerSet>
<EPESRv6></EPESRv6>
<BfdParameters>
  <DetectMultiplier>
  </DetectMultiplier>
  <MinReceiveInterval>
  </MinReceiveInterval>
  <MinTransmitInterval>
  </MinTransmitInterval>
</BfdParameters>
<TcpMss></TcpMss>
<IgnoreEbgpNextHopCheck></IgnoreEbgpNextHopCheck>
<IgnoreFirstAs></IgnoreFirstAs>
```

```
      <UpdateIntervalIntelligent></UpdateIntervalIntelligent>
      <Tracking></Tracking>
      <TrackingDelayTime></TrackingDelayTime>
      <MonitorLinkGroup></MonitorLinkGroup>
      <LocalGREnable></LocalGREnable>
      <LocalGRTimerRestart></LocalGRTimerRestart>
      <LocalGRTimerWaitForRib></LocalGRTimerWaitForRib>
    </CfgSessionGroup>
  </CfgSessionGroups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`CfgSessionGroups`
Table type	Multi-instance table
Row name	`CfgSessionGroup`
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
Type	Internal or External		Enumeration. • **0**—Internal. • **1—External.**	N/A
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	• If you configure this column, the UpdateInterval Intelligent column will restore the default. • The UpdateInterval and UpdateInterval Intelligent can not be configured together.
PasswordType	Password type.		**Enumeration.** • **1—Ciphertext.** • **2—Plaintext.**	The password can only be displayed in ciper text.
BfdType	Bfd type		**Enumeration.** • 0—default type • 1—single-hop • 2—multi-hop • 3—echo • 4—compatible • 5—single-hop compatible • 6—multi-hop compatible	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations. Some versions not support. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
EbgpMaxHop	EBGP multihop		**Unsigned integer.** **Value range:** **1 to 255**	N/A
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
DualAS	Support both real and fake AS numbers for peer group relationship establishment		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not DualAS, the value for DualAS is 0.
PrependGlobalAS	Add the real AS number to the AS_PATH attribute in sent packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependGlobalAS, the value for PrependGlobalAS is 0.
PrependFakeAS	Add the fake AS number to the AS_PATH attribute in received packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependFakeAS, the value for PrependFakeAS is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Dscp	Set the DSCP priority of BGP packets		**Unsigned integer.** **Value range:** **0 to 63**	N/A
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Ipv4SourceAddr	IPv4 Source Address		IPv4 address string .	Example: 1.1.1.1.
Ipv6SourceAddr	IPv6 Source Address		IPv6 address string.	Example: 1::1.
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		**Unsigned integer.** **Value range:** **0 to 21845**	N/A
HoldTime	Holdtime in seconds		**Unsigned integer.** **Value range:** **0 , 3 to 65535**	N/A
TtlSecurity	Enable BGP GTSM fuction for a peer or peer group		**Unsigned integer.** **Value range:** **1 to 254**	N/A
CapSupAs4	Enable 4-byte AS number suppression function		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CapOrfNonStandard	Enable non-standard ORF capability for BGP neighbor negotiation		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapConventional	Disable the BGP route refresh,multiprotocol extension, and 4-byte AS number function of the local router and the specified peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapExtendedMsg	Enable the BGP extended message capability		Enumeration. • Disable Enable.	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.
ClusterId	Configure the cluster ID for a peer or peer group		Unsigned integer. Value range: 1 to 4294967295. IPv4 address string	N/A
MplsLocalIfnetDisable	Disable MPLS local IFNET tunnel establishment to the specified peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
FlapDampen	Configure the peer flap dampening feature		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SendBufferSize	Set the buffer size to send updates to peers		Unsigned integer. Value range: 2048 to 327680.	N/A
AdvertiseRouteUpdates	BGP Advertise updates	Data structure	Members include: • AdvertiseInterval • AdvertiseCount	N/A
AdvertiseInterval	Set the interval to send updates to peers		Unsigned integer. Value range: 100 to 10000.	N/A
AdvertiseCount	Set the count to send updates to peers		Unsigned integer. Value range: 1 to 40960.	N/A
EgressEngineering	Configure egress peer engineering		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EgressEngineeringType	BGP peering segment type		Enumeration. • 0—Node. • 1—Adjacency. • 2—Set. • 3—Node-Adjacency.	N/A
EgressEngineeringPolicyName	Routing policy specified for the EPE peer set.		String. Length: 1 to 63 characters.	N/A
EgressEngineeringStaticLabel	SID label for the EPE peer set		N/A	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
EgressEngineeringLinkDown	Configure EPE SID label link down type		Enumeration. • 0—Disable.(Default). • 1—Relate BFD state.	N/A
PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A
EPESRv6	Configure EPESRv6		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BfdParameters	Configure BFD parameters	Data structure	Members include: • DetectMultiplier • MinReceiveInterval. MinTransmitInterval	N/A
DetectMultiplier	Detection time multiplier		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
MinReceiveInterval	Minimum receiving interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
MinTransmitInterval	Minimum transmitting interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
TcpMss	Set the maximum TCP segment size		Unsigned integer. Value range: 176 to 4096.	N/A
IgnoreEbgpNextHopCheck	Ignore the next hops check of routes received from ebgp peers		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpdateIntervalIntelligent	Whether to control the route update interval with intelligent timer		Enumeration. • 0—Disable. • 1—Enable.	• If you configure this column, the UpdateInterval column will restore the default. • The UpdateInterval and UpdateInterval Intelligent can not be configured together.
Tracking	Fast detect the unreachable destined for the peer and reset the session		Enumeration. • 0—Disable. • 1—Enable.	N/A
TrackingDelayTime	Specify the delay to reset the session, in seconds		Unsigned integer. Value range: 0 to 65535	The object does not exist if Tracking is not configured. If you configure Tracking but not TrackingDelayTime, the value for TrackingDelayTime is 0.
MonitorLinkGroup	Configure a monitor link group to monitor the		Unsigned integer. Value range:	The value range for this column varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
	state of the specified BGP peer session		1 to 65535.	
LocalGREnable	Configure local Graceful Restart (GR) capability		Enumeration. • Disable. • Enable.	N/A
LocalGRTimerRestart	Configure the restart timer for local GR		Unsigned integer. Value range: 3 to 86400	N/A
LocalGRTimerWaitForRib	Configure the wait-for-rib timer for local GR		Unsigned integer. Value range: 3 to 3000	N/A

BGP/CfgSessions

This table contains configure information of BGP session.

XML structure

```
<BGP>
  <CfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <BfdType></BfdType>
      <EbgpMaxHop></EbgpMaxHop>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
      <DualAS></DualAS>
      <PrependGlobalAS></PrependGlobalAS>
      <PrependFakeAS></PrependFakeAS>
      <Dscp></Dscp>
      <IgnoreOriginatorid></IgnoreOriginatorid>
```

```
<LogChange></LogChange>
<LowMemoryExempt></LowMemoryExempt>
<SourceAddress></SourceAddress>
<SubstituteAs></SubstituteAs>
<Timer>
  <KeepAlive></KeepAlive>
  <HoldTime></HoldTime>
</Timer>
<TtlSecurity></TtlSecurity>
<CapSupAs4></CapSupAs4>
<CapOrfNonStandard></CapOrfNonStandard>
<CapConventional></CapConventional>
<CapExtendedMsg></ CapExtendedMsg>
<IpsecProfile></IpsecProfile>
<Keychain></Keychain>
<GracefulRestartExtra></GracefulRestartExtra>
<ClusterId></ClusterId>
<MplsLocalIfnetDisable></MplsLocalIfnetDisable>
<FlapDampen></FlapDampen>
<SendBufferSize></SendBufferSize>
<AdvertiseRouteUpdates>
  <AdvertiseInterval></AdvertiseInterval>
  <AdvertiseCount></AdvertiseCount>
</AdvertiseRouteUpdates>
<EgressEngineering></EgressEngineering>
<EgressEngineeringType></EgressEngineeringType>
<EgressEngineeringPolicyName></EgressEngineeringPolicyName>
<EgressEngineeringStaticLabel></EgressEngineeringStaticLabel>
<EgressEngineeringLinkDown></EgressEngineeringLinkDown>
<PeerSet></PeerSet>
<EPESRv6></EPESRv6>
<EPESRv6Locator></EPESRv6Locator>
<EPESRv6AutoSidMode></EPESRv6AutoSidMode>
<EPESRv6StaticSID>
  <Psp></Psp>
  <NoPspUsp></NoPspUsp>
  <PspUspUsd></PspUspUsd>
  <StaticSidMode></StaticSidMode>
</EPESRv6StaticSID>
<EPESRv6PeerSet></EPESRv6PeerSet>
<BfdParameters>
  <DetectMultiplier>
  </DetectMultiplier>
  <MinReceiveInterval>
  </MinReceiveInterval>
  <MinTransmitInterval>
  </MinTransmitInterval>
</BfdParameters>
```

```
      <PathMtuDiscovery></PathMtuDiscovery>
      <TcpMss></TcpMss>
      <IgnoreEbgpNextHopCheck></IgnoreEbgpNextHopCheck>
      <IgnoreFirstAs></IgnoreFirstAs>
      <UpdateIntervalIntelligent></UpdateIntervalIntelligent>
      <Tracking></Tracking>
      <TrackingDelayTime></TrackingDelayTime>
      <MonitorLinkGroup></MonitorLinkGroup>
      <LocalGREnable></LocalGREnable>
      <LocalGRTimerRestart></LocalGRTimerRestart>
      <LocalGRTimerWaitForRib></LocalGRTimerWaitForRib>
    </CfgSession>
  </CfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`CfgSessions`
Table type	Multi-instance table
Row name	`CfgSession`
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group Name		String. Length: 1 to 47 characters.	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	• If you configure this column, the UpdateIntervalIntelligent column will restore the default. • The UpdateInterval and UpdateIntervalIntelligent can not be configured together.
PasswordType	Password type.		**Enumeration.** • **1—Ciphertext.** • **2—Plaintext.**	The password can only be displayed in ciper text.

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdType	Bfd type		**Enumeration.** • **0**—default type • **1**—single-hop • **2**—multi-hop • **3**—echo • 4—compatible • 5—single-hop compatible • 6—multi-hop compatible	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations. Some versions not support. For relevant information, see the XSD document of your product.
EbgpMaxHop	EBGP multihop		**Unsigned integer.** **Value range:** **1 to 255**	N/A
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable • 1—Enable.	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
DualAS	Support both real and fake AS numbers for peer relationship establishment		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not DualAS, the value for DualAS is 0.
PrependGlobalAS	Add the real AS number to the AS_PATH attribute in sent packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not

Column name	Column description	Column type	Data type and restrictions	Remarks
				PrependGlobalAS, the value for PrependGlobalAS is 0.
PrependFakeAS	Add the fake AS number to the AS_PATH attribute in received packets		Enumeration. • 0—Disable. • 1—Enable.	The object does not exist if FakeAS is not configured. If you configure FakeAS but not PrependFakeAS, the value for PrependFakeAS is 0.
Dscp	Set the DSCP priority of BGP packets		**Unsigned integer.** **Value range:** **0 to 63**	N/A
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
SourceAddress	Source Address		**IPv4 address string or IPv6 address string.**	Example: 1.1.1.1 or 1::1.
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		**Unsigned integer.** **Value range:** **0 to 21845**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HoldTime	Holdtime in seconds		**Unsigned integer.** **Value range:** **0 ,3 to 65535**	N/A
TtlSecurity	Enable BGP GTSM fuction for a peer or peer group		**Unsigned integer.** **Value range:** **1 to 254**	N/A
CapSupAs4	Enable 4-byte AS number suppression function		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapOrfNonStandard	Enable non-standard ORF capability for BGP neighbor negotiation		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapConventional	Disable the BGP route refresh,multiprotocol extension, and 4-byte AS number function of the local router and the specified peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
CapExtendedMsg	Enable the BGP extended message capability		Enumeration. • Disable. Enable.	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.
ClusterId	Configure the cluster ID for a peer or peer group		Unsigned integer. Value range: 1 to 4294967295. IPv4 address string	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MplsLocalIfnetDisable	Disable MPLS local IFNET tunnel establishment to the specified peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
FlapDampen	Configure the peer flap dampening feature		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
SendBufferSize	Set the buffer size to send updates to peers		Unsigned integer. Value range: 2048 to 327680.	N/A
AdvertiseRouteUpdates	BGP Advertise updates	Data structure	Members include: • AdvertiseInterval • AdvertiseCount	N/A
AdvertiseInterval	Set the interval to send updates to peers		Unsigned integer. Value range: 100 to 10000.	N/A
AdvertiseCount	Set the count to send updates to peers		Unsigned integer. Value range: 1 to 40960.	N/A
EgressEngineering	Configure egress peer engineering		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
EgressEngineeringType	BGP peering segment type		Enumeration. • 0—Node. • 1—Adjacency. • 2—Set. • 3—Node-Adjacency.	N/A
EgressEngineeringPolicyName	Routing policy specified for the EPE peer set.		String. Length: 1 to 63 characters.	N/A
EgressEngineeringStaticLabel	SID label for the EPE peer set		N/A	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
EgressEngineeringLinkDown	EPE SID linkdown type		Enumeration. • 0—Disable.(default). • 1—Relate BFD state.	N/A
PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EPESRv6	Configure EPESRv6		Enumeration. • 0—Disable • 1—Enable.	N/A
EPESRv6Locator	Specify an SID locator		String. Length: 1 to 31 characters.	N/A
EPESRv6AutoSidMode	Auto Sid Mode.	N/A	Enumeration: • **1**—auto-normal. • **2**—auto-sid-coc32. • **3**—auto-sid-cocboth-coc32. • **4**—auto-sid-cocboth-coc32-none.	EPESRv6Locator is configured, then EPESRv6AutoSidMode can be configured
EPESRv6StaticSID	Psp and NoPspUsp	Data structure	Members include: • Psp • NoPspUsp. • PspUspUsdStaticSidMode.	N/A
Psp	End.X SID with PSP		String IPv6 address	N/A
NoPspUsp	End.X SID (-NO-FLAVOR)		String IPv6 address	N/A
PspUspUsd	End.X SID (PSP, USP,USD)		String IPv6 address	N/A
StaticSidMode	Static Sid Mode.	N/A	Enumeration: • **1**—normal. • **2**—coc32. • **3**—cocboth-coc32. • **4**—cocboth-coc-none.	Configured StaticSidMode, Psp or NoPspUsp must be configured
EPESRv6PeerSet	EPE peer set name		String. Length: 1 to 63 characters.	N/A
BfdParameters	Configure BFD parameters	Data structure	Members include: • DetectMultiplier • MinReceiveInterval. • MinTransmitInterval	N/A
DetectMultiplier	Detection time multiplier		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum receiving interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTransmitInterval	Minimum transmitting interval of BFD control packets		Unsigned integer. Value range: 1 to 4294967295.	The value range for this argument varies by device model.
PathMtuDiscovery	TCP path MTU discovery configuration		Enumeration. • **0**—Disable. • 1—Enable.	N/A
TcpMss	Set the maximum TCP segment size		Unsigned integer. Value range: 176 to 4096.	N/A
IgnoreEbgpNextHopCheck	Ignore the next hops check of routes received from ebgp peers		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
IgnoreFirstAs	Ignore the first AS		Enumeration. • 0—Disable. • 1—Enable.	N/A
Tracking	Fast detect the unreachable destined for the peer and reset the session		Enumeration. • 0—Disable. • 1—Enable.	N/A
TrackingDelayTime	Specify the delay to reset the session, in seconds		Unsigned integer. Value range: 0 to 65535	The object does not exist if Tracking is not configured. If you configure Tracking but not TrackingDelayTime, the value for TrackingDelayTime is 0.
MonitorLinkGroup	Configure a monitor link group to monitor the state of the specified BGP peer session		Unsigned integer. Value range: 1 to 65535.	• The value range for this column varies by device model.
UpdateIntervalIntelligent	Whether to control the route update interval with intelligent timer		Enumeration. • 0—Disable. • 1—Enable.	• If you configure this column, the UpdateInterval column will restore the default. • The UpdateInterval and UpdateIntervalIntelligent can

Column name	Column description	Column type	Data type and restrictions	Remarks
				not be configured together.
LocalGREnable	Configure local Graceful Restart (GR) capability		Enumeration. • Disable. • Enable.	• N/A
LocalGRTimerRestart	Configure the restart timer for local GR		Unsigned integer. Value range: 3 to 86400	• Default: 150
LocalGRTimerWaitForRib	Configure the wait-for-rib timer for local GR		Unsigned integer. Value range: 3 to 3000	• Default: 600

BGP/Sessions

This table contains state information of BGP session.

XML structure

```
<BGP>
  <Sessions>
    <Session>
      <Name></Name>
      <VRF></VRF>
      <AF></AF>
      <IpAddress></IpAddress>
      <ASNumber></ASNumber>
      <State></State>
      <Version></Version>
      <LocalRouterID></LocalRouterID>
      <Type></Type>
      <RemoteRouterID></RemoteRouterID>
      <RcvdMsgCnt></RcvdMsgCnt>
      <SentMsgCnt></SentMsgCnt>
      <Time></Time>
      <DynamicallyPeer></DynamicallyPeer>
      <CurrentEvent></CurrentEvent>
      <LastState></LastState>
      <LocalPort></LocalPort>
      <RemotePort></RemotePort>
      <ConfiguredHoldTime></ConfiguredHoldTime>
      <ConfiguredKeepaliveTime></ConfiguredKeepaliveTime>
```

```
      <ReceivedHoldTime></ReceivedHoldTime>
      <NegotiatedHoldTime></NegotiatedHoldTime>
      <NegotiatedKeepaliveTime></NegotiatedKeepaliveTime>
      <MultiProtocolExtensionCapability></MultiProtocolExtensionCapability>
      <RouteRefreshCapability></RouteRefreshCapability>
      <GracefulRestartCapability></GracefulRestartCapability>
      <AS4Capability></AS4Capability>
      <AddressfamilyCapability>
        <Family></Family>
        <Advertised></Advertised>
        <Received></Received>
      </AddressfamilyCapability>
      <InQUpdates></InQUpdates>
      <OutQUpdates></OutQUpdates>
      <UpdateInterval></UpdateInterval>
    </Session>
  </Sessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
AF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
State	Session state		Enumeration: • **0—Idle** • **1—Connect** • **2—Active** • **3—Opensent** • **4—Openconfirm** • **5—Established**	Established state means that the BGP session is established, but whether the address families are negociated is unknown.
Version	BGP version		Unsigned integer. Value range:4	N/A
LocalRouterID	Local router ID		String,IPv4 address string	N/A
Type	Internal or External		Enumeration. • **0**—Internal. • **1—External.**	N/A
RemoteRouterID	Router ID of the peer		String,IPv4 address string	N/A
RcvdMsgCnt	Number of messages received		Unsigned integer. Value range: 0 to 4294967295	N/A
SentMsgCnt	Number of messages sent		Unsigned integer. Value range: 0 to 4294967295	N/A
Time	Lasting time of the current BGP session state		Unsigned integer. Value range: 0 to 4294967295. Unit is second.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DynamicallyPeer	Whether the peer is a dynamic peer		Boolean: • **true**. • **false.**	N/A
CurrentEvent	Current event of the BGP session between the local router and the peer		Enumeration: • **0—Start** • **1—Stop** • **2—CRTimerExpired** • **3—KATimerExpired** • **4—HoldTimerExpired** • **5—CR ACKED** • **6—ConnConfirmed** • **7—ConnFailed** • **8—RecvOpen** • **9—HeadErr** • **10—OpenMsgErr** • **11—RecvVerNotification** • **12—RecvNotification** • **13—RecvKeepalive** • **14—RecvUpdate** • **15—UpdateMsgErr** • **16—RecvRouteRefresh** • **17—Unknown**	N/A
LastState	Previous state of the BGP session		Enumeration: • **0—Idle** • **1—Connect** • **2—Active** • **3—Opensent** • **4—Openconfirm** • **5—Established**	Established state means that the BGP session is established, but whether the address families are negociated is unknown.
LocalPort	Local TCP port numbers of the local router and its peer		Unsigned integer. Value range: 179, 1025 to 65535	When the address family is not enabled, the value of locate port is 0
RemotePort	Remote TCP port numbers of the local router and its peer		Unsigned integer. Value range: 179, 1025 to 65535	When the address family is not enabled, the value of remote port is 0
ConfiguredHoldTime	Configured holdtime in seconds		Unsigned integer. Value range: 0, or 3 to 65535	N/A
ConfiguredKeepaliveTime	Configured keepalive time in seconds		Unsigned integer. Value range: 0 to 21845	N/A
ReceivedHoldTime	Received holdtime in		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	seconds		Value range: 0, or 3 to 65535	
NegotiatedHoldTime	Negotiated holdtime in seconds		Unsigned integer. Value range: 0, or 3 to 65535	N/A
NegotiatedKeepaliveTime	Negotiated keepalive time in seconds		Unsigned integer. Value range: 0 to 21845	N/A
MultiProtocolExtensionCapability	Support for multiprotocol extension capability		Boolean: • **true.** • **false.**	N/A
RouteRefreshCapability	Support for route refresh capability		Boolean: • **true.** • **false.**	N/A
GracefulRestartCapability	Support for GR capability		Boolean: • **true.** • **false.**	N/A
AS4Capability	Support for 4-byte AS capability		Boolean: • **true.** • **false.**	N/A
AddressfamilyCapability	Support for address family capability	Data Structure	Include: • Family • Advertised • Received	N/A
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	
Advertised	Advertised address family identifier		Boolean: • **true.** • **false.**	N/A
Received	Received address family identifier		Boolean: • **true.** • **false.**	N/A
InQUpdates	Number of received updates to be processed.		Unsigned integer. Value range: 0 to 4294967295	N/A
OutQUpdates	Number of updates to be sent to the peer.		Unsigned integer. Value range: 0 to 4294967295	N/A
UpdateInterval	Route update interval		Unsigned integer. Value range: • 0 to 600	N/A

BGP/Familys

This table contains address family identifier information of BGP.

XML structure

```
<BGP>
  <Familys>
    <Family>
      <Name></Name>
      <VRF></VRF>
      <Type></Type>
      <Preference>
        <Ebgp></Ebgp>
        <Ibgp></Ibgp>
        <Local></Local>
      </Preference>
      <BalanceAsPathNeglect></BalanceAsPathNeglect>
      <BalanceAsPathRelax></BalanceAsPathRelax>
```

```
<Balance>
  <MaxBalance></MaxBalance>
  <BalanceNexthop></BalanceNexthop>
  <MaxEBGPBalance></MaxEBGPBalance>
  <EBGPBalanceNexthop></EBGPBalanceNexthop>
  <MaxIBGPBalance></MaxIBGPBalance>
  <IBGPBalanceNexthop></IBGPBalanceNexthop>
  <MaxEIBGPBalance></MaxEIBGPBalance>
  <EIBGPBalanceNexthop></EIBGPBalanceNexthop>
</Balance>
<PolicyVpnTarget></PolicyVpnTarget>
<ReflectBtwClients></ReflectBtwClients>
<ReflectorClusterID></ReflectorClusterID>
<RrFilter></RrFilter>
<DefaultRtImport></DefaultRtImport>
<DomainDistinguisher></DomainDistinguisher>
<PIC></PIC>
<VpnCrossMultipath></VpnCrossMultipath>
<RouteSelectDelay></RouteSelectDelay>
<AdvertiseEvpnRoute>
  <AdvertiseEvpnEnable></AdvertiseEvpnEnable>
  <AdvertiseEvpnPolicy></AdvertiseEvpnPolicy>
  <AdvertiseEvpnReplaceRt></AdvertiseEvpnReplaceRt>
</AdvertiseEvpnRoute>
<AdvertiseL2vpnEvpnRoute></AdvertiseL2vpnEvpnRoute>
<AdvertiseL3vpnRoute>
  <AdvertiseL3vpnEnable></AdvertiseL3vpnEnable>
  <AdvertiseL3vpnPolicy></AdvertiseL3vpnPolicy>
  <AdvertiseL3vpnReplaceRt></AdvertiseL3vpnReplaceRt>
</AdvertiseL3vpnRoute>
<ImportEvpnMacIp></ImportEvpnMacIp>
<MappingVniRmVpnTarget></MappingVniRmVpnTarget>
<DefaultLocalPreference></DefaultLocalPreference>
<AddPathsSelectBestNum></AddPathsSelectBestNum>
<DefaultMedValue></DefaultMedValue>
<FrrRtPolicyName></FrrRtPolicyName>
<MvpnAdvRtImport></MvpnAdvRtImport>
<UpdateFirstRtPolicyName></UpdateFirstRtPolicyName>
<AdvRibActive></AdvRibActive>
<BestRtOriAsValidation></BestRtOriAsValidation>
<BestRtAllowInvalid></BestRtAllowInvalid>
<NestingVpn></NestingVpn>
<SummaryAutomatic></SummaryAutomatic>
<ImportRouteMultipath></ImportRouteMultipath>
<ImportRouteSRPolicy></ImportRouteSRPolicy>
<AdvEbgpEnable></AdvEbgpEnable>
<RouterIdFilter></RouterIdFilter>
<FilterPolicyImport>
```

```
  <AclNumImp></AclNumImp>
  <AclNameImp></AclNameImp>
  <PrefixListNameImp></PrefixListNameImp>
</FilterPolicyImport>
<LogRouteFlap>
  <MonitorTime></MonitorTime>
  <MonitorCount></MonitorCount>
  <LogCountLimit></LogCountLimit>
  <RtPolicyName></RtPolicyName>
</LogRouteFlap>
<Dampening>
  <DampeningEnable></DampeningEnable>
  <HalfLifeReach></HalfLifeReach>
  <HalfLifeUnReach></HalfLifeUnReach>
  <Reuse></Reuse>
  <Suppress></Suppress>
  <Ceiling></Ceiling>
  <DampRtPolicyName></DampRtPolicyName>
</Dampening>
<RedirectToTunnel></RedirectToTunnel>
<RoutingtableBgpRibOnly>
  <RoutingtableBgpRibOnlyEnable></RoutingtableBgpRibOnlyEnable>
  <RoutingtableBgpRibOnlyPolicy></RoutingtableBgpRibOnlyPolicy>
</RoutingtableBgpRibOnly>
<UsermoveFastupdate></UsermoveFastupdate>
<ForwardConverLearning>
  <ForwardConverLearningEnable></ForwardConverLearningEnable>
  <ForwardConverLearningPolicy></ForwardConverLearningPolicy>
</ForwardConverLearning>
<ApplyTunnelSelector></ApplyTunnelSelector>
<SegmentRoutingMpls></SegmentRoutingMpls>
<NexthopRecursiveLookupDelay></NexthopRecursiveLookupDelay>
<SegmentRouting>
  <Ipv6SidRouteRecursion></Ipv6SidRouteRecursion>
  <Ipv6Locator></Ipv6Locator>
  <Ipv6LocatorAnycast></Ipv6LocatorAnycast>
  <Ipv6AutoSidDisable></Ipv6AutoSidDisable>
  <Ipv6SidAllocMode></Ipv6SidAllocMode>
</SegmentRouting>
<ApplyLabelPopgo></ApplyLabelPopgo>
<SegmentRoutingEvpn>
  <Ipv6SidRouteRecursionEvpn></Ipv6SidRouteRecursionEvpn>
  <Ipv6LocatorEvpn></Ipv6LocatorEvpn>
  <Ipv6LocatorEvpnAnycast></Ipv6LocatorEvpnAnycast>
  <Ipv6AutoSidDisableEvpn></Ipv6AutoSidDisableEvpn>
  <Ipv6SidAllocModeEvpn></Ipv6SidAllocModeEvpn>
</SegmentRoutingEvpn>
<AdvRtReoriginate></AdvRtReoriginate>
```

```
      <AdvRtReoriginatePolicy></AdvRtReoriginatePolicy>
      <SRv6MplsInterwork></SRv6MplsInterwork>
      <NexthopEvpnDrniGp></NexthopEvpnDrniGp>
      <NexthopEvpnMlagGp></NexthopEvpnMlagGp>
      <NexthopRecursiveLongestMatch>
        <NexthopRecursiveLongestMatchEnable></NexthopRecursiveLongestMatchEnable>
        <NexthopRecursiveLongestMatchPolicy></NexthopRecursiveLongestMatchPolicy>
      </NexthopRecursiveLongestMatch>
      <NexthopOnlyGlobalAddress></NexthopOnlyGlobalAddress>
      <ReflectChangePathAttribute></ReflectChangePathAttribute>
      <RouteMatchDestination></RouteMatchDestination>
      <RouteValidationMode></RouteValidationMode>
      <PeerAsCheckEnable></PeerAsCheckEnable>
      <BalanceIGPMetricIgnore></BalanceIGPMetricIgnore>
      <IGPMetricInherit></IGPMetricInherit>
      <BierEnable></BierEnable>
      <BierBfrPrefixProxy></BierBfrPrefixProxy>
      <ValidationCheckEnable></ValidationCheckEnable>
      <BestRouteIPv6Nexthop></BestRouteIPv6Nexthop>
      <UcastRouteRecursiveTunnel>
        <RecursiveEnable></RecursiveEnable>
        <PrefixList></PrefixList>
        <TunnelPolicy></TunnelPolicy>
      </UcastRouteRecursiveTunnel>
      <InofRole></InofRole>
      <SendLowPriorityPeerupDelayTime></SendLowPriorityPeerupDelayTime>
      <SendLowPriorityOnStartupTime></SendLowPriorityOnStartupTime>
      <NexthopRecursiveDefRt>
        <Ignore></Ignore>
        <IgnoreRtPolicyName></IgnoreRtPolicyName>
      </NexthopRecursiveDefRt>
      <NexthopRecursiveTunnelBackup></NexthopRecursiveTunnelBackup>
      <NexthopRecursiveRtPolicy></NexthopRecursiveRtPolicy>
      <NexthopEvpnSDWANColor></NexthopEvpnSDWANColor>
      <AdvertiseLocators>
        <AdvertiseLocator>
          <LocatorName></LocatorName>
          <RoutePolicy></RoutePolicy>
        </AdvertiseLocator>
      </AdvertiseLocators>
      <RouteSelectSuppressOnPeerUP></RouteSelectSuppressOnPeerUP>
    </Family>
  </Familys>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Family
Table type	Multi-instance table
Row name	Family
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Type	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated • 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	N/A
Preference	Preference for BGP Routes	Data Structure	Include: • Ebgp • Ibgp • Local	N/A
Ebgp	Preference for eBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Ibgp	Preference for iBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Local	Preference for Local Routes		Unsigned integer. Value range: 1 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BalanceAsPathNeglect	Ignore the AS_PATH attribute when implementing load balancing		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
BalanceAsPathRelax	Load balancing for routes that have different AS_PATH attributes of the same length		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
Balance	number of BGP ECMP routes for load balancing	Data Structure	Include: • MaxBalance • MaxEBGPBalance • MaxIBGPBalance • MaxEIBGPBalance	N/A
MaxBalance	maximum number of BGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	N/A
BalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
MaxEBGPBalance	Maximum number of EBGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
EBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
MaxIBGPBalance	Maximum number of IBGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
IBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxEIBGPBalance	Maximum number of ECMP routes between EBGP and IBGP routes for load balancing		Unsigned integer. Value range: 1 to 512	EBGP load balancing and EBGP/IBGP load balancing cannot be configured at the same time
EIBGPBalanceNexthop	Specify next hop of ECMP routes.		**Enumeration.** • **0—ECMP next hop not specified.(default)** • **1—ECMP next hop local.** • **2—ECMP next hop unchanged**	N/A
PolicyVpnTarget	Filter VPN routes with VPN-Target attribute		Enumeration: • 0—Disable. • 1—Enable.	N/A
ReflectBtwClients	Route reflection between clients		Enumeration: • 0—Disable. • 1—Enable.	N/A
ReflectorClusterID	cluster ID of the route reflector		String,IPv4 address string or Unsigned integer. Value range: 1 to 4294967295	N/A
RrFilter	Number or name of the extended community list in the route filtering policy specified for the route reflector	N/A	RR-filter number: Unsigned integer. Value range: 1 to 199. RR-filter name: String. Length: 1 to 63 characters.	Only IBGP routes whose extended community attribute matches the specified extended community list are reflected.
DefaultRtImport	Import default route		Enumeration: • 0—Disable • 1—Enable.	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 9 to 26 characters. The format is AS<1-4294967295>:routerID <X.X.X.X>.	Example: 100:13.14.23.22
PIC	Enable Prefix Independent Convergence		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
VpnCrossMultipath	Redistribute multiple routes with the same prefix and RD to the VPN routing table		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RouteSelectDelay	Optimal route calculation delay time		Unsigned integer. Value range: 0 to 600 seconds.	N/A
AdvertiseEvpnRoute	Advertise BGP EVPN routes through the current address family	Data Structure	Include: • AdvertiseEvpnEnable • AdvertiseEvpnPolicy • AdvertiseEvpnReplaceRt	N/A
AdvertiseEvpnEnable	Enable advertisement of BGP EVPN routes through the current address family		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
AdvertiseEvpnPolicy	Filter BGP EVPN routes by a routing policy		String. Length: 1 to 63 characters.	N/A
AdvertiseEvpnReplaceRt	Replace the route targets of BGP EVPN routes with those of VPN instances		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
AdvertiseL2vpnEvpnRoute	Advertise BGP EVPN route to the local site		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
AdvertiseL3vpnRoute	Advertise BGP L3VPN routes through the BGP EVPN address family	Data Structure	Include: • AdvertiseL3vpnEnable • AdvertiseL3vpnPolicy • AdvertiseL3vpnReplaceRt	N/A
AdvertiseL3vpnEnable	Enable advertise BGP L3VPN routes through the BGP EVPN address family		**Enumeration:** • **0—Disable** • **1—Enable.**	N/A
AdvertiseL3vpnPolicy	Filter BGP L3VPN routes by a routing policy		String. Length: 1 to 63 characters.	N/A
AdvertiseL3	Replace the		**Enumeration:**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
vpnReplaceRt	route targets of BGP L3VPN routes with those of EVPN instances		• **0—Disable.** • **1—Enable.**	
ImportEvpnMacIp	Redistribute MAC/IP advertisement routes		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
MappingVniRmVpnTarget	Remove route targets of VPN instances from EVPN routes when mapping VXLANs		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
DefaultLocalPreference	Configure default local preference		Unsigned integer. Value range: 0 to 4294967295	The default local preference is supported only by IPv4 unicast, IPv4 multicast, IPv4 labeled-unicast,IPv6 unicast, and IPv6 multicast routes.
AddPathsSelectBestNum	Set the maximum number of Add-Path optimal routes that can be advertised to all peers.		Unsigned integer. Value range: 1 to 64	N/A
DefaultMedValue	Configure default MED value.		Unsigned integer. Value range: 0 to 4294967295	N/A
FrrRtPolicyName	Configure the route policy name of FRR.		String. Length: 1 to 63 characters.	N/A
MvpnAdvRtImport	Enable MVPN advertisement RT import		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
UpdateFirstRtPolicyName	Routing policy used to match routes whose withdrawal messages are sent prior to other routes.		String. Length: 1 to 63 characters.	N/A
AdvRibActive	Enable to		**Enumeration:**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	advertise the best routes of IP routing table..		• **0—Disable.** (default) • **1—Enable.**	
BestRtOriAsValidation	Configure BGP RPKI authentication results to participate in route optimization.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
BestRtAllowInvalid	Allow routes with Invalid authentication results to participate in route optimization		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	BestRtAllowInvalid must be set with BestRtOriAsValidation.
NestingVpn	Enable nested VPN function		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
SummaryAutomatic	Automatic route summarization for redistributed IGP subnet routes		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
ImportRouteMultipath	Redistribute IGP multipath routes with the same prefix to the BGP routing table		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
ImportRouteSRPolicy	Import routes form SR Policy.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
AdvEbgpEnable	Advertise ebgp enable		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A
RouterIdFilter	Router-id filter		**Enumeration:** • **0—Disable.** (default) • **1—Enable.** • **2—No distribution srpolicy**	N/A
FilterPolicyImport	Filter received BGP routes	Data Structure	Include: • AclNumImp • AclNameImp • PrefixListNameImp	N/A
AclNumImp	Filter BGP routes by an ACL number.		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			address families	

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNameImp	Filter BGP routes by an ACL name.		String. Length: 1 to 63 characters.	ACL name (start with[a-z,A-Z]).Can't use "all" as ACL name.
PrefixListNameImp	Filter BGP routes by a prefix-list name.		String. Length: 1 to 63 characters.	N/A
LogRouteFlap	Logging for BGP route flapping	Data Structure	Include: • MonitorTime • MonitorCount • LogCountLimit • RtPolicyName	N/A
MonitorTime	Monitoring interval for route flapping		Unsigned integer. Value range: 1 to 600	Units are minutes.
MonitorCount	Number of route flaps for triggering a log		Unsigned integer. Value range: 2 to 8	N/A
LogCountLimit	Maximum number of logs allowed to be generated in a minute		Unsigned integer. Value range: 1 to 600	N/A
RtPolicyName	Filter BGP routes to monitor the route flaps.		String. Length: 1 to 63 characters.	N/A
Dampening	Configure dampening.	Data Structure	Include: • DampeningEnable • HalfLifeReach • HalfLifeUnReach • Reuse • Suppress • Ceiling • DampRtPolicyName	N/A
DampeningEnable	Enable dampening.		**Enumeration:** • **0—Disable.** (default) • **1—Enable.**	N/A.
HalfLifeReach	Specify the half-life of the reachable route that oscillates.		Unsigned integer. Value range: 1 to 45	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
HalfLifeUnReach	Specify the half-life of an unreachable route that oscillates.		Unsigned integer. Value range: 1 to 45	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.

Column name	Column description	Column type	Data type and restrictions	Remarks
Reuse	Specify the route reuse threshold.		Unsigned integer. Value range: 1 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
Suppress	Specify the route suppression threshold.		Unsigned integer. Value range: 1 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them..
Ceiling	Specify the upper limit of penalty value.		Unsigned integer. Value range: 1001 to 20000	You must set all of HalfLifeReach, HalfLifeUnReach, Reuse, Suppress and Ceiling, or set none of them.
DampRtPolicyName	Specify the route policy name that routes are routed to be attenuated by.		String. Length: 1 to 63 characters.	N/A
RedirectToTunnel	Configure redirect IP relay tunnel capability		String. Length: 0 to 40 characters.	The default local preference is supported only by IPv4 flowspec, IPv6 flowspec.
RoutingtableBgpRibOnly	Control BGP route adding to the IP routing table.	Data Structure	Include: • RoutingtableBgpRibOnlyEnable • RoutingtableBgpRibOnlyPolicy	N/A
RoutingtableBgpRibOnlyEnable	Do not add BGP routes matching the specified routing policy to the IP routing table.		**Enumeration:** • **0—Disable.(default)** • **1—Enable.** • **2—Enable all bgp routes.**	N/A
RoutingtableBgpRibOnlyPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	An empty string indicates that no BGP routes will be added to the IP routing table.
UsermoveFastupdate	Enable fast route update upon user migration.		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
ForwardConverLearning	Generate FIB entries of host routes upon forwarding BGP	Data Structure	Include: • ForwardConverLearningEnable • ForwardConverLearningP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	public network routes.		olicy	

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverLearningEnable	Enable generate FIB entries of host routes upon forwarding BGP public network routes.		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
ForwardConverLearningPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	N/A
ApplyTunnelSelector	Specify a tunnel selector		String. Length: 1 to 40 characters.	N/A
SegmentRoutingMpls	Enable MPLS SR		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
NexthopRecursiveLookupDelay	Set the delay time for responding to next hop recursion result changes		Unsigned integer. Value range: 1 to 240	N/A
SegmentRouting	SR configuration	Data Structure	Include: Ipv6SidRouteRecursion Ipv6Locator	N/A
Ipv6SidRouteRecursion	Perform private network route recursion based on SIDs		Enumeration. • 0—Disable.(default) • 1—Enable. • 2–Traffic engineering forwarding. • 3–Traffic engineering and best effort traffic. • 4–Traffic engineering and best effort backup. • 5—Traffic engineering and best effort multilevel backup • 6—Traffic engineering and best effort multilevel backup local-prefer	N/A
Ipv6Locator	Specify a SID locator		String. Length: 9 to 26 characters	N/A
Ipv6LocatorAnycast	Specify a SID locator for anycast		String. Length: 1 to 31 characters	N/A
Ipv6AutoSidDisable	Cancel SID automatic allocation ability		Enumeration. • 0—Disable.(Default) 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6SidAllocMode	Apply a SID for all nexthop		Enumeration. • 0—per-vrf（default） 1—per-ce	N/A
ApplyLabelPopgo	Forward labeled packets received from the peer through matching output interfaces in the ILM table.		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
SegmentRoutingEvpn	SR EVPN configuration		Include: Ipv6SidRouteRecursionEvpn Ipv6LocatorEvpn	N/A
Ipv6SidRouteRecursionEvpn	EVPN forwarding type		• Enumeration • 0—Disable. • 1 –Best effort forwarding • 2 – Traffic engineering forwarding • 3 –Traffic engineering and best effort traffic • 4–Traffic engineering and best effort backup. • 5—Traffic engineering and best effort multilevel backup • 6—Traffic engineering and best effort multilevel backup local-prefer	N/A
Ipv6LocatorEvpn	Specify an EVPN SID locator		String. Length: 1 to 31 characters.	N/A
Ipv6LocatorEvpnAnycast	Specify an EVPN SID locator for anycast		String. Length: 1 to 31 characters.	N/A
Ipv6AutoSidDisableEvpn	Cancel SID automatic allocation ability		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
Ipv6SidAllocModeEvpn	Apply a SID for all nexthop		Enumeration. • 0—per-vrf（default） • 1—per-ce	N/A
AdvRtReoriginate	Advertise the redist VRF routes to the VPNV4/VPNV6/EVPN peers.		Enumeration • 0—Disable. (Default) • 1 –Enable • 2—Replace the RT.	N/A
AdvRtReoriginatePolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	AdvRtReoriginatePolicy must be

Column name	Column description	Column type	Data type and restrictions	Remarks
				set with AdvRtReoriginate.
SRv6MplsInterwork	Configure SRv6 and MPLS interwordking		Enumeration • 0—Disable. • 1 –Enable	N/A
NexthopEvpnDrniGp	Specify the virtual VTEP address of EVPN distributed relay as the next hop address.		**Enumeration:** • 0—Disable. • 1—Enable.	N/A
NexthopEvpnMlagGp	Specify the virtual VTEP address of EVPN distributed relay as the next hop address.		**Enumeration:** • **disable.** • **enable.**	N/A
NexthopRecursiveLongestMatch	Select the route with the longest matching prefix for next hop recursive lookup.	Data Structure	Include: • NexthopRecursiveLongestMatchEnable • NexthopRecursiveLongestMatchPolicy	N/A
NexthopRecursiveLongestMatchEnable	Enable selection of the route with the longest matching prefix for next hop recursive lookup.		Enumeration: • 0—Disable. • 1—Enable.	N/A
NexthopRecursiveLongestMatchPolicy	Specify a routing policy.		String. Length: 1 to 63 characters.	N/A
NexthopOnlyGlobalAddress	Nexthop only global address.		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
ReflectChangePathAttribute	Enable the route reflector to change the path attributes of outgoing routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
RouteMatchDestination	Enable flowspec destination match route prefix policy		Enumeration: • 0—Disable. • 1—Enable.	N/A
RouteValidationMode	Enable simplify flowspec destination validity check by as number		Enumeration: • 0—Check by route.(default) • 1—Check by AS_PATH	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAsCheckEnable	Enable checking peer of AS-number while advertising		Enumeration: • 0—Disable. (default) • 1—Enable.	N/A
BalanceIGPMetricIgnore	Ignore the IGP Metric of the next hop when selecting load balancing routes.		**Enumeration:** • **0—Disable.** • **1—Enable.**	N/A
IGPMetricInherit	Inherit the IGP Metric of the next hop when generate vpn routes from evpn.		**Enumeration:** • 0—Disable. • 1—Enable.	N/A
BierEnable	Enable BIER function for BGP		Enumeration: • 0—Disable.(default) • 1—Enable.	N/A
BierBfrPrefixProxy	Enable BIER routes proxy		Enumeration: • 0—Disable.(default) • 1—Enable.	N/A
ValidationCheckEnable	Enable Validation Check		Enumeration: • 0—Disable. • 1—Enable.	N/A
BestRouteIPv6Nexthop	Let the route with IPv6 nexthop be the best route.		Enumeration: • 0—Disable. • 1—Enable.	N/A
UcastRouteRecursiveTunnel	Non-label public routing recursive lookup LSP tunnel.	Data Structure		N/A
RecursiveEnable	Allow non-label public routing recursive lookup LSP tunnel.		Enumeration: • 0—Disable. • 1—Enable.	N/A
PrefixList	Specify a IP prefix list name.		String. Length: 1 to 63 characters.	This column cannot be specified when the value for the RecursiveEnable column is Disable.
TunnelPolicy	Specify a Tunnel policy name.		String. Length: 1 to 126 characters.	This column cannot be specified when the value for the RecursiveEnable column is

Column name	Column description	Column type	Data type and restrictions	Remarks
				Disable.
InofRole	Inof role		Enumeration. • 0—Disable.(Default) • 1—Reflect-client. • 2—Reflector.	N/A
SendLowPriorityPeerupDelayTime	Modify priority of routes to lowest-priority when the neighbors change from down to up		Unsigned integer. Value range: 1 to 864000	The value 0 indicates that lowest-priority routes is sent always. SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime and cannot be configured at the same time.
SendLowPriorityOnStartupTime	Modify priority of routes to lowest-priority when the device is restarted		Unsigned integer. Value range: 1 to 3600	The value 0 indicates that lowest-priority routes is sent always. SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime cannot be configured at the same time.
NexthopRecursiveDefRt	Configure default-route lookup for next hop iteration	Data Structure	Include: • Ignore • IgnoreRtPolicyName	N/A
Ignore	Ignore the default route during next hop iteration		Enumeration: • 0—Allow next hop iteration to the default route. (Default) • 1—Ignore the default route during next hop iteration.	N/A
IgnoreRtPolicyName	Specify a routing policy.		String. Length: 1 to 63 characters.	This column cannot be specified when the Ignore column is the default value.
NexthopRecursiveTunnelBackup	Perform nexthop recursive lookup tunnel		Enumeration. 0—Disable 1—Tunnel backup.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	backup process		2—Tunnel backup EVPN. 3---Tunnel backup and tunnel backup EVPN	
NexthopRecursiveRtPolicy	Specify a Route-Policy for nexthop recursion		String. Length: 1 to 63 characters.	N/A
NexthopEvpnSDWANColor	Control nexthop rely for evpn routes of sdwan packet type		Enumeration: • 0—Disable.(default) • 1—Enable	N/A
RouteSelectSuppressOnPeerUP	Delay optimal route calculation when the peer state changes from DOWN to UP		Unsigned integer. Value range: 100 to 600000 milliseconds.	N/A

BGP/Familys/AdvertiseLocators

This table contains BGP locator advertisement information.

XML structure

Please refer to the XML structure of BGP/Familys

Table description

Item	Description
Feature name	BGP
Table name	AdvertiseLocators
Table type	Multi-instance table
Row name	AdvertiseLocator
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocatorName	Name of the locator to be advertised	Index	String. Length: 1 to 31 characters.	N/A
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

BGP/Networks

This table contains BGP network information.

XML structure

```
<BGP>
   <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RoutePolicy></RoutePolicy>
    </Network>
  </Networks>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: • **1**—IPv4 Unicast • **2**—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast • 23—IPv4 Labeled-unicast	N/A
IpAddress	Address of Network	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of Network address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6, this is 0 to 128.
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

BGP/Aggregates

This table contains BGP aggregate information.

XML structure

```
<BGP>
  <Aggregates>
     <Aggregate>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <DetailSuppressed></DetailSuppressed>
      <AsSet></AsSet>
      <AttributePolicy></AttributePolicy>
      <OriginPolicy></OriginPolicy>
      <SuppressPolicy></SuppressPolicy>
```

```
    </Aggregate>
  </Aggregates>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Aggregates
Table type	Multi-instance table
Row name	Aggregate
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: • **1**—IPv4 Unicast • **2**—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast	N/A
IpAddress	Address of aggregate	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of aggregate address	Index	Unsigned integer. Value range: 0 to 128.	For IPv4,this is 0 to 32.For IPv6, this is 0 to 128.
DetailSuppressed	Detail Suppressed		Enumeration. • **0**—Disable. • **1—Enable.**	N/A
AsSet	Creating a summary route with AS set path		Enumeration. • 0—Disable. • 1—Enable.	N/A
AttributePolicy	Routing policy used to set the attributes of the summary route		String. Length: 1 to 63 characters.	N/A
OriginPolicy	Routing policy used to filter original specific routes to be summarized		String. Length: 1 to 63 characters.	N/A
SuppressPolicy	Routing policy used to filter specific routes to be advertised		String. Length: 1 to 63 characters.	N/A

BGP/NeighborGroups

This table contains BGP neighbor group information.

XML structure

```
<BGP>
```

```
<NeighborGroups>
  <NeighborGroup>
    <Name></Name>
    <VRF></VRF>
    <Family></Family>
    <GroupName></GroupName>
    <RtPolicyImport></RtPolicyImport>
    <RtPolicyExport></RtPolicyExport>
    <AllowAsLoop></AllowAsLoop>
    <ReflectClient></ReflectClient>
    <NexthopInvariable></NexthopInvariable>
    <NexthopLocal></NexthopLocal>
    <RouterMacLocal></RouterMacLocal>
    <AdvertiseCommunity></AdvertiseCommunity>
    <AdvertiseExtCommunity></AdvertiseExtCommunity>
    <ReOriginated></ReOriginated>
    <ReOriginatedMac></ReOriginatedMac>
    <ReOriginatedMacOnly></ReOriginatedMacOnly>
    <ReOriginatedImet></ReOriginatedImet>
    <ReOriginatedSmet></ReOriginatedSmet>
    <ReOriginatedSpmsi></ReOriginatedSpmsi>
    <AdvOriginalRoute></AdvOriginalRoute>
    <SuppressReOrigPrefix></SuppressReOrigPrefix>
    <SuppressReOrigMac></SuppressReOrigMac>
    <SuppressReOrigImet></SuppressReOrigImet>
    <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
    <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
    <SuppressOriginalAD></SuppressOriginalAD>
    <SuppressOriginalImet></SuppressOriginalImet>
    <SuppressOriginalEs></SuppressOriginalEs>
    <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
    <RouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
    <NexthopVpn></NexthopVpn>
    <AdditionalPathsRcv></AdditionalPathsRcv>
    <AdditionalPathsSend></AdditionalPathsSend>
    <AdvAddPathsBest></AdvAddPathsBest>
    <RouteAdv>
      <DefRouteAdv></DefRouteAdv>
      <RoutePlcy></RoutePlcy>
      <ConditionalPolicy></ConditionalPolicy>
    </RouteAdv>
```

```
<KeepAllRoutes></KeepAllRoutes>
<LblRouteCapability></LblRouteCapability>
<PrefixListExp></PrefixListExp>
<PrefixListImp></PrefixListImp>
<PublicAsOnly></PublicAsOnly>
<SooSiteOfOrigin></SooSiteOfOrigin>
<FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
<FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
<AdvOrigAsVld></AdvOrigAsVld>
<CapOrf></CapOrf>
<Signaling>
  <SigEnable></SigEnable>
  <SigNonStd></SigNonStd>
</Signaling>
<UpeEnable></UpeEnable>
<UpeRoutePlcy></UpeRoutePlcy>
<AutoDisc>
  <DiscEnable></DiscEnable>
  <DiscNonStd></DiscNonStd>
</AutoDisc>
<ValidationDisable></ValidationDisable>
<ValidationRedirectDisable></ValidationRedirectDisable>
<ASPathAclImport></ASPathAclImport>
<ASPathAclExport></ASPathAclExport>
<Aigp></Aigp>
<AigpSendMed></AigpSendMed>
<Bandwidth></Bandwidth>
<BandwidthValue></BandwidthValue>
<AdvertiseEbgpBandwidth></AdvertiseEbgpBandwidth
<BandwidthTransitive></BandwidthTransitive>
<AdvertiseEncapTypeMpls></AdvertiseEncapTypeMpls>
<ReflectNearbyGroup></ReflectNearbyGroup>
<NonExistAdvertisePolicy>
  <Policy></Policy>
  <NonExistPolicy></NonExistPolicy>
</NonExistAdvertisePolicy>
<ExistAdvertisePolicy>
  <Policy></Policy>
  <ExistPolicy></ExistPolicy>
</ExistAdvertisePolicy>
<PrefixSid></PrefixSid>
<SRv6Compatible></SRv6Compatible>
<SupReoriginate></SupReoriginate>
<ReOriginatedVpn></ReOriginatedVpn>
<AdvVpnReorigIbgp></AdvVpnReorigIbgp>
<RedirectNexthop></RedirectNexthop>
<RoutePriorityTrack></RoutePriorityTrack>
<RouteServerClient></RouteServerClient>
```

```
      <PeerBier></PeerBier>
      <MacIpRouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </MacIpRouteLimit>
      <EvpnIpv6PrefixListExp></EvpnIpv6PrefixListExp>
      <EvpnIpv6PrefixListImp></EvpnIpv6PrefixListImp>
      <HighPriority></HighPriority>
    </NeighborGroup>
  </NeighborGroups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	NeighborGroups
Table type	Multi-instance table
Row name	NeighborGroup
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT. • 4—VPNv4. • 5—IPv6 Unicast. • 6—IPv6 Multicast. • 7—VPNv6. • 8—L2VPN. • 9—L2VPN EVPN. • 10—Link-State. • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec. • 14—VPNv4 Flowspec. • 15—IPv6 Flowspec. • 16—VPNv6 Flowspec. • 17—Dedicated. • 18—SR Policy. • 19—SRv6 SRPolicy. • 20—IPv6 mvpn. • 21—Link-State VPN. • 22—IPv4 tnl-encap-ext. • 23—IPv4 Labeled-unicast • 24—Inof	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Import Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route		Enumeration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	reflector and specify a peer or peer group as a client		• 0—Disable. • 1—Enable.	
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable.
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. • 0—Disable. • 1—Enable. • 2—DCI Enable.	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable. • 2--- Replace the RT. • 3—Stitch to L3vpn.	To re-originate EVPN IP prefix routes to VPNv4/VPNv6 routes without modifying the RT and RD, set the value to 3.
ReOriginatedMac	Re-originate EVPN IP prefix advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT.	N/A
ReOriginatedMacOnly	Re-originate EVPN MAC routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable(default). • 1—Enable. • 2—Replace the RT.	N/A
ReOriginatedImet	Re-originate EVPN inclusive multicast Ethernet tag routes received from the peers		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	by modifying the L3 VXLAN ID and RD			
ReOriginated Smet	Re-originate EVPN Smet advertisement routes received from the peers by modifying the RT and RD		**Enumeration.** • **0-Disable.** • **1-Enable.** • **2-Replace the RT.**	N/A
ReOriginated Spmsi	Re-originate EVPN S-PMSI advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		**Enumeration.** • **0-Disable.** • **1-Enable.** • **2-Replace the RT.**	N/A
AdvOriginalRoute	Advertise original EVPN routes to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
SuppressReOrigPrefix	Suppress advertisement of re-originated EVPN IP prefix advertisement routes to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
SuppressReOrigMac	Suppress advertisement of re-originated EVPN MAC/IP advertisement routes to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
SuppressReOrigImet	Suppress advertisement of re-originated EVPN inclusive multicast Ethernet tag routes to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SuppressOriginalAD	Suppress advertisement of original EVPN ethernet auto-discovery routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalImet	Suppress advertisement of original EVPN inclusive multicast ethernet tag routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
SuppressOriginalEs	Suppress advertisement of original EVPN ethernet segment routes to the peers		**Enumeration.** • **0—Disable(default).** • **1—Enable.**	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 or VPNv6 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsRcv	Specify additional path receiving ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsSend	Specify additional path sending ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvAddPathsBest	Specify the maximum number of Add-Path optimal routes that can be advertised to a peer or peer group		Unsigned integer. Value range: 2 to 64. Default is 1	N/A
RouteAdv	Set default route info to peer or peer group	Data Structure	Include: • DefRouteAdv • RoutePlcy • ConditionalPolicy	N/A
DefRouteAdv	Specify default route advertisement info to peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
RoutePlcy	Specify a route policy		String. Length: 1 to 63 characters.	N/A
ConditionalPolicy	Specify a routing policy to control the default route advertisement		String. Length: 1 to 63 characters.	N/A
KeepAllRoutes	Save original route update info from all peer or peer groups		Enumeration. • 0—Disable. • 1—Enable.	N/A
LblRouteCapability	Specify labeled route exchange ability for peer or peer groups		Enumeration. • 0—Disable. • 1—Enable.	N/A
PrefixListExp	Specify a prefix list to filter routes		String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	advertised to a peer or peer group			
PrefixListImp	Specify a prefix list to filter routes received from a peer or peer group		String. Length: 1 to 63 characters.	N/A
PublicAsOnly	Remove private AS numbers in BGP updates sent to an EBGP peer or peer group		Enumeration. • 0—Disable. • 1—Normal. • 2—Force. • 3—ForceReplace. • 4—ForceIncludePeerAs. • 5—ForceReplaceIncludePeerAs. • 6—Limited. • 7—LimitedReplace. • 8—LimitedIncludePeerAs. • 9—LimitedReplaceIncludePeerAs. • 10—NormalKeepLocalAs. • 11—ForceKeepLocalAs. • 12—ForceIncludePeerAsKeepLocalAs.	N/A
SooSiteOfOrigin	Configure SoO info for peer or peer groups		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 65535:1..
FlPlcyAclNoOrNameExp	Specify an ACL to filter routes advertised to peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
FlPlcyAclNoOrNameImp	Specify an ACL to filter routes received from peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvOrigAsVld	Send BGP RPKI validation results to peer or peer groups		Enumeration. • 0—Disable • 1—Enable.	N/A
CapOrf	Specify BGP neighbor ORF capabilities negotiation		Enumeration: • 1—Receive. • 2—Send. • 3—Both	N/A
Signaling	Set MPLS L2VPN tag block info exchange ability between local route and specified peer or peer groups	Data Structure	Include: • SigEnable • SigNonStd	N/A
SigEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable.	N/A
SigNonStd	Specify non-stand format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeEnable	Set UPE as HoVPN for routes received from peers or peer groups		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeRoutePlcy	Configure specified UPE route info filtered by route policy		String. Length: 1 to 63 characters.	N/A
AutoDisc	Set VPLS PE tag block info exchange ability between local route and specified peer or peers groups	Data Structure	Include: • DiscEnable • DiscNonStd	N/A
DiscEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable.	N/A
DiscNonStd	Specify non-standard format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
ValidationDisable	Disable validation for BGP flowspec routes		Enumeration. • 0—Disable. • 1—Enable.	N/A
ValidationRedirectDisabl	Disable validation for		Enumeration. • 0—Disable.	Only EBGP neighbors support.

Column name	Column description	Column type	Data type and restrictions	Remarks
e	BGP flowspec redirect nexthop		• **1—Enable.**	
ASPathAclImport	AS path list used for filtering incoming routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
ASPathAclExport	AS path list used for filtering outgoing routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
Aigp	Enable sending and receiving of the accumulated interior gateway protocol metric attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
AigpSendMed	Replace the MED value with AIGP value in routes advertised to the peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Bandwidth	Specify the link bandwidth extended community attribute for the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BandwidthValue	Link bandwidth attribute value		Unsigned integer. Value range: 1 to 4294967295	N/A
AdvertiseEbgpBandwidth	Advertise the link bandwidth extended community attribute to EBGP peers		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
BandwidthTransitive	Convert the type of the link bandwidth attribute carried in BGP routes from optional non-transitive		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to optional transitive			
BandwidthValue	Link bandwidth attribute value		Unsigned integer. Value range: 1 to 4294967295	N/A
AdvertiseEncapTypeMpls	MPLS encapsulation		Enumeration. • 0—Disable.(default) • 1—MPLS. • 2—SRv6. • 3—SDWAN • 4—Anycast.	N/A
ReflectNearbyGroup	Specify the peers as clients of the nearby cluster		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
NonExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy • NonExistPolicy	N/A
Policy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
NonExistPolicy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy • ExistPolicy	N/A
Policy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistPolicy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
PrefixSid	Exchange prefix segment IDs with specified peers		Enumeration. • 0—Disable.(default) • 1—Enable • 2—AnycastEnable.	N/A
SRv6Compatible	Configuring VPN routing with SID attribute compatibility		Enumeration. • 0—Disable. • 1—Enable. • 2--Transposition Scheme	N/A
SupReoriginate	Suppress advertisement of re-originated		Enumeration. • 0—Disable(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	VPNV4 or VPNv6 advertisement routes to the peers		• 1—Enable.	
ReOriginatedVpn	Re-originate VPNV4 or VPNV6 advertisement routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT. • **3—Stitch to EVPN.**	To re-originate VPNv4/VPNv6 routes to EVPN IP prefix routes without modifying the RT and RD, set the value to 3.
AdvVpnReorigIbgp	Advertise Vpn Reoriginate EVPN routes to IBGP peer..		Enumeration. • 0—Disable.(Default) • 1—Enable	N/A
RedirectNexthop	Enable peer redirected to nexthop capability		Enumeration. • 0—Disable. • 1—Enable(default)	N/A
RoutePriorityTrack	Track entry ID.		Unsigned integer. Value range: 1 to 1024.	N/A
RouteServerClient	Configure the device as a route server and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable • 2—External.	N/A
PeerBier	Enable peer to send and receive BIER attribute		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
MacIpRouteLimit	Configure the maximum number of MAC/IP advertisement routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Maximum number of MAC/IP advertisement routes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	exceeded		• 1—Enable.	
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
EvpnIpv6PrefixListExp	Specify an ipv6 prefix list to filter routes advertised to an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
EvpnIpv6PrefixListImp	Specify an ipv6 prefix list to filter routes received from an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
HighPriority	Assign the routes learned from specified peers with higher priority		Enumeration. • 0—Disable.(default) • 1—Enable	N/A

BGP/Neighbors

This table contains BGP neighbor information.

XML structure

```
<BGP>
  <Neighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
```

```
<AdvertiseCommunity></AdvertiseCommunity>
<AdvertiseExtCommunity></AdvertiseExtCommunity>
<ReOriginated></ReOriginated>
<ReOriginatedMac></ReOriginatedMac>
<ReOriginatedMacOnly></ReOriginatedMacOnly>
<ReOriginatedImet></ReOriginatedImet>
<ReOriginatedSmet></ReOriginatedSmet>
<ReOriginatedSpmsi></ReOriginatedSpmsi>
<AdvOriginalRoute></AdvOriginalRoute>
<SuppressReOrigPrefix></SuppressReOrigPrefix>
<SuppressReOrigMac></SuppressReOrigMac>
<SuppressReOrigImet></SuppressReOrigImet>
<AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
<AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
<SuppressOriginalAD></SuppressOriginalAD>
<SuppressOriginalImet></SuppressOriginalImet>
<SuppressOriginalEs></SuppressOriginalEs>
<DefaultgatewayNoAdv></DefaultgatewayNoAdv>
<RouteLimit>
  <Number></Number>
  <Percentage></Percentage>
  <AlertOnly></AlertOnly>
  <Discard></Discard>
  <Reconnect></Reconnect>
</RouteLimit>
<PreferredValue></PreferredValue>
<NexthopVpn></NexthopVpn>
<AdditionalPathsRcv></AdditionalPathsRcv>
<AdditionalPathsSend></AdditionalPathsSend>
<AdvAddPathsBest></AdvAddPathsBest>
<RouteAdv>
  <DefRouteAdv></DefRouteAdv>
  <RoutePlcy></RoutePlcy>
  <ConditionalPolicy></ConditionalPolicy>
</RouteAdv>
<KeepAllRoutes></KeepAllRoutes>
<LblRouteCapability></LblRouteCapability>
<PrefixListExp></PrefixListExp>
<PrefixListImp></PrefixListImp>
<PublicAsOnly></PublicAsOnly>
<SooSiteOfOrigin></SooSiteOfOrigin>
<FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
<FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
<AdvOrigAsVld></AdvOrigAsVld>
<CapOrf></CapOrf>
<Signaling>
  <SigEnable></SigEnable>
  <SigNonStd></SigNonStd>
```

```
    </Signaling>
    <UpeEnable></UpeEnable>
    <UpeRoutePlcy></UpeRoutePlcy>
    <AutoDisc>
      <DiscEnable></DiscEnable>
      <DiscNonStd></DiscNonStd>
    </AutoDisc>
    <ValidationDisable></ValidationDisable>
    <ValidationRedirectDisable></ValidationRedirectDisable>
    <ASPathAclImport></ASPathAclImport>
    <ASPathAclExport></ASPathAclExport>
    <Aigp></Aigp>
    <AigpSendMed></AigpSendMed>
    <Bandwidth></Bandwidth>
   <BandwidthValue></BandwidthValue>
    <AdvertiseEbgpBandwidth></AdvertiseEbgpBandwidth
    <BandwidthTransitive></BandwidthTransitive>
    <AdvertiseEncapTypeMpls></AdvertiseEncapTypeMpls>
    <ReflectNearbyGroup></ReflectNearbyGroup>
    <NonExistAdvertisePolicy>
      <Policy></Policy>
      <NonExistPolicy></NonExistPolicy>
    </NonExistAdvertisePolicy>
    <ExistAdvertisePolicy>
      <Policy></Policy>
      <ExistPolicy></ExistPolicy>
    </ExistAdvertisePolicy>
    <PrefixSid></PrefixSid>
    <SRv6Compatible></SRv6Compatible>
    <SupReoriginate></SupReoriginate>
    <ReOriginatedVpn></ReOriginatedVpn>
    <AdvVpnReorigIbgp></AdvVpnReorigIbgp>
    <RedirectNexthop></RedirectNexthop>
    <RoutePriorityTrack></RoutePriorityTrack>
    <RouteServerClient></RouteServerClient>
    <PeerBier></PeerBier>
    <MacIpRouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </MacIpRouteLimit>
    <EvpnIpv6PrefixListExp></EvpnIpv6PrefixListExp>
    <EvpnIpv6PrefixListImp></EvpnIpv6PrefixListImp>
    <HighPriority></HighPriority>
  </Neighbor>
</Neighbors>
```

```
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Neighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec • 17—Dedicated • 18—SR Policy • 19—SRv6 SRPolicy • 20—IPv6 mvpn • 21—Link-State VPN • 22—IPv4 tnl-encap-ext • 23—IPv4 Labeled-unicast • 24—Inof	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
RtPolicyImport	Import Route-Policy for		String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Neighbor		Length: 1 to 63 characters.	
RtPolicyExport	Export Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	N/A
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable.
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. • 0—Disable. • 1—Enable. • 2—DCI Enable.	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
ReOriginated	Re-originate EVPN IP prefix advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable. • 2--- Replace the RT. • 3—Stitch to L3vpn.	To re-originate EVPN IP prefix routes to VPNv4/VPNv6 routes without modifying the RT and RD, set the value to 3.
ReOriginatedMac	Re-originate EVPN MAC/IP advertisement routes received from the peers by modifying the L3 VXLAN ID		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and RD			
ReOriginated MacOnly	Re-originate EVPN MAC routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable(default). • 1—Enable. • 2—Replace the RT.	N/A
ReOriginatedImet	Re-originate EVPN inclusive multicast Ethernet tag routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT.	N/A
ReOriginated Smet	Re-originate EVPN SMET advertisement routes received from the peers by modifying the RT and RD		Enumeration. • 0-Disable. • 1-Enable. • 2-Replace the RT.	N/A
ReOriginated Spmsi	Re-originate EVPN S-PMSI advertisement routes received from the peers by modifying the L3 VXLAN ID and RD		Enumeration. • 0-Disable. • 1-Enable. • 2-Replace the RT.	N/A
AdvOriginalRoute	Advertise original EVPN routes to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
SuppressReOrigImet	Suppress advertisement of re-originated EVPN inclusive multicast Ethernet tag routes to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
SuppressReOrigPrefix	Suppress advertisement of re-originated EVPN IP prefix advertisement routes to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
SuppressReOrigMac	Suppress advertisement of re-originated EVPN MAC/IP advertisement routes to the		Enumeration. • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	peers			
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
SuppressOriginalAD	Suppress advertisement of original EVPN ethernet auto-discovery routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
SuppressOriginalImet	Suppress advertisement of original EVPN inclusive multicast ethernet tag routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
SuppressOriginalEs	Suppress advertisement of original EVPN ethernet segment routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		• Enumeration. • 0—Disable. • 1—Enable.	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a		Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	warning message		1 to 100. Default is 75	
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 or VPNv6 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsRcv	Specify additional path receiving ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdditionalPathsSend	Specify additional path sending ability for the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvAddPathsBest	Specify the maximum number of Add-Path optimal routes that can be advertised to a peer or peer group		Unsigned integer. Value range: 2 to 64. Default is 1	N/A
RouteAdv	Set default route info to peer or peer group	Data Structure	Include: • DefRouteAdv • RoutePlcy • ConditionalPolicy	N/A
DefRouteAdv	Specify default route advertisement info to peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
RoutePlcy	Specify a route policy		String. Length: 1 to 63 characters.	N/A
ConditionalPo	Specify a		String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
licy	routing policy to control the default route advertisement		Length: 1 to 63 characters.	
KeepAllRoutes	Save original route update info from all peer or peer groups		Enumeration. • 0—Disable • 1—Enable.	N/A
LblRouteCapability	Specify labeled route exchange ability for peer or peer groups		Enumeration. • 0—Disable. • 1—Enable.	N/A
PrefixListExp	Specify a prefix list to filter routes advertised to a peer or peer group		String. Length: 1 to 63 characters.	N/A
PrefixListImp	Specify a prefix list to filter routes received from a peer or peer group		String. Length: 1 to 63 characters.	N/A
PublicAsOnly	Remove private AS numbers in BGP updates sent to an EBGP peer or peer group		Enumeration. • 0—Disable. • 1—Normal. • 2—Force. • 3—ForceReplace. • 4—ForceIncludePeerAs. • 5—ForceReplaceIncludePeerAs. • 6—Limited. • 7—LimitedReplace. • 8—LimitedIncludePeerAs. • 9—LimitedReplaceIncludePeerAs. • 10—NormalKeepLocalAs. • 11—ForceKeepLocalAs. • 12—ForceIncludePeerAsKeepLocalAs.	N/A
SooSiteOfOrigin	Configure SoO info for peer or peer groups		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 65535:1..
FlPlcyAclNoOrNameExp	Specify an ACL to filter routes advertised to peers or peer		Unsigned integer. Value range: • 4000 to 4999 for L2VPN	

Column name	Column description	Column type	Data type and restrictions	Remarks
	groups		EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
FlPlcyAclNoOrNameImp	Specify an ACL to filter routes received from peers or peer groups		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families String. Length: 1 to 63 characters.	
AdvOrigAsVld	Send BGP RPKI validation results to peer or peer groups		Enumeration. • 0—Disable • 1—Enable.	N/A
CapOrf	Specify BGP neighbor ORF capabilities negotiation		Enumeration: • 1—Receive. • 2—Send. • 3—Both	N/A
Signaling	Set MPLS L2VPN tag block info exchange ability between local route and specified peer or peer groups	Data Structure	Include: • SigEnable • SigNonStd	N/A
SigEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable.	N/A
SigNonStd	Specify non-stand format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeEnable	Set UPE as HoVPN for routes received from peers or peer groups		Enumeration. • 0—Disable. • 1—Enable.	N/A
UpeRoutePlcy	Configure specified UPE route info filtered by route policy		String. Length: 1 to 63 characters.	N/A
AutoDisc	Set VPLS PE tag block info exchange ability between local route and specified peer or peers groups	Data Structure	Include: • DiscEnable • DiscNonStd	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DiscEnable	Specify default tag block info exchange ability		Enumeration. • 0—Disable. • 1—Enable.	N/A
DiscNonStd	Specify non-standard format to exchange tag block info		Enumeration. • 0—Disable. • 1—Enable.	N/A
ValidationDisable	Disable validation for BGP flowspec routes		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
ValidationRedirectDisable	Disable validation for BGP flowspec redirect nexthop		**Enumeration.** • **0—Disable.** • **1—Enable.**	Only EBGP neighbors support.
ASPathAclImport	AS path list used for filtering incoming routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
ASPathAclExport	AS path list used for filtering outgoing routes		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	AN AS path list name cannot be all made up of numbers.
Aigp	Enable sending and receiving of the accumulated interior gateway protocol metric attribute		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
AigpSendMed	Replace the MED value with AIGP value in routes advertised to the peer or peer group		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Bandwidth	Specify the link bandwidth extended community attribute for the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
BandwidthValue	Link bandwidth attribute value		Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseEbgpBandwidth	Advertise the link bandwidth extended community attribute to EBGP peers		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
BandwidthTransitive	Convert the type of the link bandwidth attribute carried in BGP routes from optional non-transitive to optional transitive		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
AdvertiseEncapTypeMpls	MPLS encapsulation		Enumeration. • 0—Disable.(default) • 1—MPLS. • 2—SRv6. • 3—SDWAN. • 4—Anycast.	N/A
ReflectNearbyGroup	Specify the peers as clients of the nearby cluster		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
NonExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy • NonExistPolicy	N/A
Policy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
NonExistPolicy	Nonexistent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistAdvertisePolicy	Specify a routing policy for conditional route advertisement	Data Structure	Include: • Policy ExistPolicy	N/A
Policy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
ExistPolicy	Existent policy used to control route advertisement		String. Length: 1 to 63 characters	N/A
PrefixSid	Exchange prefix segment IDs with specified peers		Enumeration. • 0—Disable.(Default) • 1—Enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—AnycastEnable.	

Column name	Column description	Column type	Data type and restrictions	Remarks
SRv6Compatible	Configuring VPN routing with SID attribute compatibility		• EEnumeration. • 0—Disable. • 1—Enable. • 2--Transposition Scheme	N/A
SupReoriginate	Suppress advertisement of re-originated VPNV4 or VPNv6 advertisement routes to the peers		Enumeration. • 0—Disable(default). • 1—Enable.	N/A
ReOriginatedVpn	Re-originate VPNV4 or VPNV6 advertisement routes received from the peers by modifying the RT and RD		Enumeration. • 0—Disable. • 1—Enable. • 2—Replace the RT. 3—Stitch to EVPN.	To re-originate VPNv4/VPNv6 routes to EVPN IP prefix routes without modifying the RT and RD, set the value to 3.
AdvVpnReorigIbgp	Advertise Vpn Reoriginate EVPN routes to IBGP peer..		Enumeration. • 0—Disable. (Default) • 1—Enable	N/A
RedirectNexthop	Enable peer redirected to nexthop capability		Enumeration. • 0—Disable. • 1—Enable(default)	N/A
RoutePriorityTrack	Track entry ID.		Unsigned integer. Value range: 1 to 1024.	N/A
RouteServerClient	Configure the device as a route server and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable • 2—External.	N/A
PeerBier	Enable peer to send and receive BIER attribute		Enumeration. • 0—Disable.(Default) • 1—Enable.	N/A
MacIpRouteLimit	Configure the maximum number of MAC/IP advertisement routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Maximum number of MAC/IP advertisement		Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	routes			
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
EvpnIpv6PrefixListExp	Specify an ipv6 prefix list to filter routes advertised to an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
EvpnIpv6PrefixListImp	Specify an ipv6 prefix list to filter routes received from an EVPN peer or peer group		String. Length: 1 to 63 characters.	N/A
HighPriority	Assign the routes learned from specified peers with higher priority		Enumeration. • 0—Disable.(default) • 1—Enable	N/A

BGP/Redistributes

This table contains BGP redistribute information.

XML structure

```
<BGP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <AllowDirect></AllowDirect>
```

```
      <Med></Med>
      <RoutePolicy></RoutePolicy>
    </Redist>
  </Redistributes>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 5—IPv6 Unicast • 6—IPv6 Multicast.	N/A
Protocol	Protocol name	Index	Enumeration: • **1**—Direct. • **2**—Static. • 3—RIP/RIPng • 4—OSPF/OSPFv3 • 5—ISIS/ISISv6 • 6—EIGRP • 7—UNR • 8—Guard • 9—Local-aggregate	N/A
RedistName	Redistributed pocess name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static, UNR or Local-aggregate.
AllowDirect	Include direct routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters.	N/A

BGP/SessionCounts

This table contains session statistics.

XML structure

```
<BGP>
```

```
  <SessionCounts>
    <SessionCount>
      <Name></Name>
      <VRF></VRF>
      <State></State>
      <Count></Count>
    </SessionCount>
  </SessionCounts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	SessionCounts
Table type	Multi-instance table
Row name	SessionCount
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
State	Session state	Index	Enumeration: • **0—Idle** • **1—Connect** • **2—Active** • **3—Opensent** • **4—Openconfirm** • **5—Established**	Established state means that the BGP session is established, but whether the address families are negociated is unknown.
Count	Total number of sessions		Unsigned integer. Value range: 0 to 4294967295	N/A

BGP/NeighborInformations

This table contains detailed information of BGP peer.

XML structure

```
<BGP>
  <NeighborInformations>
    <NeighborInformation>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <OutQPrefixCnt></OutQPrefixCnt>
      <RcvdPrefixCnt></RcvdPrefixCnt>
      <RcvdUnReachNLRI></RcvdUnReachNLRI>
      <RcvdReachNLRI></RcvdReachNLRI>
      <SentUnReachNLRI></SentUnReachNLRI>
      <SentReachNLRI></SentReachNLRI>
      <RouteLimitNumber></RouteLimitNumber>
      <Percentage></Percentage>
      <PreferredValue></PreferredValue>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <ReflectClient></ReflectClient>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <RouterMacLocal></RouterMacLocal>
      <ReOriginated></ReOriginated>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
    </NeighborInformation>
  </NeighborInformations>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	NeighborInformations
Table type	Multi-instance table
Row name	NeighborInformation
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of neighbor	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn.	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
OutQPrefixCnt	Number of prefixes to be sent		Unsigned integer. Value range: 0 to 4294967295	N/A
RcvdPrefixCnt	Number of prefixes that have been received from the peer and added into the local BGP routing table		Unsigned integer. Value range: 0 to 4294967295	N/A
RcvdUnReachNLRI	Number of the unreachable routes received from the peer after the BGP session is established		Unsigned integer. Value range: 0 to 4294967295	N/A
RcvdReachNLRI	Number of the reachable routes received from the peer after the		Unsigned integer. Value range: • 0 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	BGP session is established			
SentUnReachNLRI	Number of the unreachable routes sent to the peer after the BGP session is established		Unsigned integer. Value range: • 0 to 4294967295	N/A
SentReachNLRI	Number of the reachable routes sent to the peer after the BGP session is established		Unsigned integer. Value range: • 0 to 4294967295	N/A
RouteLimitNumber	Number of prefixes		Unsigned integer. Value range: • 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: • 1 to 100. Default is 75	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	Next-hop-local conflict with next-hop-invariable.
AdvertiseCommunity	Send community attribute to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
RtPolicyImport	Import routing policy for peer group		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export routing policy for peer		String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group			
AllowAsLoop	Allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		**Enumeration.** • **0—Disable.** • **1—Enable.**	N/A

BGP/RedistributesAppend

This table contains BGP redistribution appended information.

XML structure

```
<BGP>
  <RedistributesAppend>
    <Redist>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
```

```
      <RedistName></RedistName>
      <AllowDirect></AllowDirect>
      <Med></Med>
      <RoutePolicy></RoutePolicy>
    </Redist>
  </RedistributesAppend>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RedistributesAppend
Table type	Multi-instance table
Row name	Redist
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 5—IPv6 Unicast • 6—IPv6 Multicast. • 23—IPv4 Labeled-unicast	N/A
Protocol	Protocol name	Index	Enumeration: • **1**—Direct. • **2**—Static. • 3—RIP/RIPng • 4—OSPF/OSPFv3 • 5—ISIS/ISISv6 • 6—EIGRP • 7—UNR • 8—Guard	N/A
RedistName	Redistributed pocess name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static, or UNR.
AllowDirect	Include direct routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters.	N/A

BGP/BMPs

This table contains BGP BMP information.

XML structure

```
<BGP>
  <BMPs>
    <BMP>
      <ServerNum></ServerNum>
      <ServerAddr></ServerAddr>
      <ServerPortNum></ServerPortNum>
      <StatisInterValue></StatisInterValue>
      <ConnectInterfaceName></ConnectInterfaceName>
      <RouteModeAdjRibIn></RouteModeAdjRibIn>
      <RouteModeAdjRibOut></RouteModeAdjRibOut>
      <RouteModeLocRib></RouteModeLocRib>
      <SourceAddress></SourceAddress>
      <SSLClientPolicy></SSLClientPolicy>
    </BMP>
  </BMPs>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	BMPs
Table type	Multi-instance table
Row name	BMP
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerNum	BMP server number	Index	Unsigned integer. Value range: 1 to 8	N/A
ServerAddr	Specify the address of BMP server		String,IPv4 address string or IPv6 address string.	You must set both and ServerPortNum, or set neither of them.
ServerPortNum	Specify the port number of BMP server		Unsigned integer. Value range: 1 to 65535	You must set both ServerAddr and ServerPortNum, or set neither of them.
StatisInterValue	Specify the statistics interval value number of BMP server		Unsigned integer. Value range: 1 to 3600	Units are seconds.
ConnectInterfaceName	Specify the source interface of TCP connections to the BMP server		String. Length: 0 to 47 characters.	Example: • M-GigabitEthernet0/0/0
RouteModeAdjRibIn	Enable BGP to send routes advertised to the monitored peers or peer groups to the BMP server		Enumeration: • 1—Post-policy • 2—Pre-policy • 3—Both	After you specify a BMP server, the pre-policy option takes effect by default.
RouteModeAdjRibOut	Enable BGP to send routes advertised to the monitored peer or peer group to the BMP server		Enumeration: • 0—Disable. • 1—Post-policy • 2—Pre-policy • 3—Both	N/A
RouteModeLocRib	Enable BGP to send the optimal routes in the routing table to the BMP server		Enumeration: • 0—Disable. • 1—Enable • 2—add-path	N/A
SourceAddress	Specify the source address of TCP connections to the BMP server		String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
SSLClientPolicy	Configure SSL policy for TCP connections to the BMP server		String. Length: 1 to 31 characters.	N/A

BGP/BMPRouteModeLocRibFilters

Send the specify routes in the routing table to the BMP server.

XML structure

```
<BGP>
  <BMPRouteModeLocRibFilters>
    <BMPRouteModeLocRibFilter>
     <ServerNum></ServerNum>
     <ModeType></ModeType>
     <VRF></VRF>
     <Family></Family>
     <AdditionalPaths><AdditionalPaths>
    </BMPRouteModeLocRibFilter>
  </BMPRouteModeLocRibFilters>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RouteModeLocRibFilters
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerNum	BMP server number	Index	Unsigned integer. Value range: 1 to 8	N/A
ModeType	VPN-type	Index	Enumeration: • 0—public. • 1—vpn-instance • 2—all-vpn-instacne	N/A
Name	VPN-instance name	Index	String. Length: 1 to 31 characters.	When the modetype parameter is 0 or 2, the parameter must be empty.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 labeled-Unicast . • 3—IPv6 Unicast • 4—VPNv4 • 5—VPNV6 • 6—L2VPN EVPN	When the modetype parameter is 1 or 2, the parameter 5 and 6 are not allowed to be configured.
`Additional paths`	Additional path configuration		Enumeration: • 0—Disable. • 1—Enable	N/A

BGP/Rpkis

This table contains BGP RPKI information.

XML structure

```
<BGP>
  <Rpkis>
    <Rpki>
      <Name></Name>
      <CheckOriginValidation></CheckOriginValidation>
      <Servers>
        <Server>
          <VRF></VRF>
          <Family></Family>
          <IpAddress></IpAddress>
          <Port></Port>
```

```
        <PasswordType></PasswordType>
        <Password></Password>
        <RefreshTime></RefreshTime>
        <ResponseTime></ResponseTime>
        <PurgeTime></PurgeTime>
        <RpkiLimit>
         <Number></Number>
         <ExceedAction></ExceedAction>
         <ReconnectTime></ReconnectTime>
        </RpkiLimit>
      </Server>
    </Servers>
  </Rpki>
 </Rpkis>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Rpkis
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
CheckOriginValidation	Check origin validation		Enumeration. • 0—Disable. • 1—Enable.	N/A
Servers	Site containing the rpki server information	Subtable	N/A	For more information, see the BGP/Rpkis/Rpki/Servers

BGP/Rpkis/Rpki/Servers

This table contains BGP RPKI server information.

XML structure

Please refer to the XML structure of BGP/Rpkis.

Table description

Item	Description
Feature name	BGP
Table name	Servers
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier	Index	Enumeration: • 1—IPv4. • 2—IPv6	N/A
IpAddress	Summary address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Port	Port		Unsigned integer. Value range: 1 to 65535	N/A
PasswordType	Password type.		Enumeration. • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
RefreshTime	Refresh time in seconds		Unsigned integer. Value range: 15 to 3600	N/A
ResponseTime	Response time in seconds		Unsigned integer. Value range: 15 to 3600	N/A
PurgeTime	Purge time in seconds		Unsigned integer. Value range: 30 to 360	N/A
RpkiLimit	Configure the maximum number of ROAs that can be received from the connection	Data Structure	Include: • Number • ExceedAction ReconnectTime	N/A
Number	Number of ROAs		Unsigned integer. Value range: 1 to 4294967295	N/A
ExceedAction	Action type when the rpki limit is exceeded		Enumeration. • 0—disconnect • 1—alert only • 2—discard	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—disconnect and reconnect	
ReconnectTime	Reconnect time in seconds		Unsigned integer. Value range: 1 to 86400	N/A

BGP/FilterPolicyExports

This table contains BGP filter-policy export information.

XML structure

```
<BGP>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <ProtocolExp></ProtocolExp>
      <ProcessIDExp></ProcessIDExp>
      <AclNumExp></AclNumExp>
      <AclNameExp></AclNameExp>
      <PrefixListNameExp></PrefixListNameExp>
    </FilterPolicyExport>
  </FilterPolicyExports>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	FilterPolicyExports
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 9—L2VPN EVPN • 23—IPv4 Labeled-unicast	N/A
ProtocolExp	Specify where the BGP routes are imported.	Index	Enumeration: • **1**—direct • **2**—isis. • 3—isisv6 • 4—ospf • 5—ospfv3 • 6—rip. • 7—ripng • 8—static	The Protocol can be empty. The Protocol can be set to direct, isis, ospf, rip or static only when the Type had been set to IPv4 Unicast, IPv4 Multicast, or VPNv4. The Protocol can be set to direct, isisv6, ospfv3, ripng or static only when the Type had been set to IPv6 Unicast, IPv6 Multicast, or VPNv6.
ProcessIDExp	Specify the process ID of routing protocol.	Index	Unsigned integer. Value range: 1 to 65535	It must be empty when the Protocol column is Direct, Static or empty.
AclNumExp	Filter BGP routes by an ACL number.		Unsigned integer. Value range: • 4000 to 4999 for L2VPN EVPN address family • 2000 to 3999 for other address families	You can only set one of AclNumExp, AclNameExp and PrefixListNameExp at the same time.
AclNameExp	Filter BGP routes by an ACL name.		String. Length: 1 to 63 characters.	ACL name (start with[a-z,A-Z]).Can't use "all" as ACL name. You can only set one of AclNumExp,

Column name	Column description	Column type	Data type and restrictions	Remarks
				AclNameExp and PrefixListNameExp at the same time.
PrefixListNameExp	Filter BGP routes by a prefix-list name.		String. Length: 1 to 63 characters.	You can only set one of AclNumExp, AclNameExp and PrefixListNameExp at the same time.

BGP/PeerGpDefRtAdvVpnInsts

This table contains BGP peer group-name default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerGpDefRtAdvVpnInsts>
    <PeerGpDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <GroupName></GroupName>
      <PeerGpDefRtAdvVpnInstName></PeerGpDefRtAdvVpnInstName>
    </PeerGpDefRtAdvVpnInst>
  </PeerGpDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerGpDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerGpDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 4—VPNv4	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
PeerGpDefRtAdvVpnInstName	Specify a VPN instance name.	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerGpExtDefRtAdvVpnInsts

This table contains BGP peer group-name default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerGpExtDefRtAdvVpnInsts>
    <PeerGpExtDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <RtAF></RtAF>
      <GroupName></GroupName>
      <PeerGpExtDefRtAdvVpnInstName></PeerGpExtDefRtAdvVpnInstName>
    </PeerGpExtDefRtAdvVpnInst>
  </PeerGpExtDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerGpExtDefRtAdvVpnInsts
Table type	Multi-instance table

Row name	PeerGpExtDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 9—L2VPN EVPN	N/A
RtAF	Address Family of default route	Index	Enumeration: • 1—IPv4 • 2—IPv6	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
PeerGpExtDefRtAdvVpnInstName	Specify a VPN instance name.	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerDefRtAdvVpnInsts

This table contains BGP peer ipv4-address *mask-length* default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
  <PeerDefRtAdvVpnInsts>
    <PeerDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <PeerDefRtAdvVpnInstName></PeerDefRtAdvVpnInstName>
    </PeerDefRtAdvVpnInst>
```

```
  </PeerDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • 4—VPNv4	N/A
SessAF	Address family of session	Index	Enumeration: • 1—IPv4.	N/A
IpAddress	Address of session	Index	String,IPv4 address string.	Example: 1.1.1.1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 32,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.
PeerDefRtAdvVpnInstName	Specify a VPN instance name	Index	String. Length: 1 to 31 characters.	N/A

BGP/PeerExtDefRtAdvVpnInsts

This table contains BGP peer default-route-advertise vpn-instance vpn-instance-name information.

XML structure

```
<BGP>
```

```
  <PeerExtDefRtAdvVpnInsts>
    <PeerExtDefRtAdvVpnInst>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <RtAF></RtAF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <PeerExtDefRtAdvVpnInstName></PeerExtDefRtAdvVpnInstName>
    </PeerExtDefRtAdvVpnInst>
  </PeerExtDefRtAdvVpnInsts>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerExtDefRtAdvVpnInsts
Table type	Multi-instance table
Row name	PeerExtDefRtAdvVpnInst
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: • 9—L2VPN EVPN	N/A
RtAF	Address Family of default route	Index	Enumeration: • 1—IPv4 • 2—IPv6	N/A
SessAF	Address family of session	Index	Enumeration: • 1—IPv4. • 2—IPv6	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32. For IPv6 dynamic peers,this is 0 to 128.
PeerExtDefRtAdvVpnInstName	Specify a VPN instance name	Index	String. Length: 1 to 31 characters.	N/A

BGP/NSRStatuss

This table contains BGP NSR status information.

XML structure

```
<BGP>
  <NSRStatuss>
    <NSRStatus>
      <Name></Name>
      <BGPNSRStatus></BGPNSRStatus>
      <PreferredStandbyLocation>
        <NSRLocationChassis></NSRLocationChassis>
        <NSRLocationSlot></NSRLocationSlot>
```

```
      </PreferredStandbyLocation>
      <TCPNSRStatus></TCPNSRStatus>
    </NSRStatus>
  </NSRStatuss>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	NSRStatuss
Table type	Multi-instance table
Row name	NSRStatus
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
BGPNSRStatus	BGP NSR status		Enumeration. • 0—Not configured • 1—Ready • 2—Not ready.	N/A
NSRLocationChassis	Chassis number		String. Length: 1 to 255 characters.	If BGP NSR status is not configured or standy board does not exsits,string value is “-”.
NSRLocationSlot	Slot number		String. Length: 1 to 255 characters.	If BGP NSR status is not configured or standy board does not exsits,string value is “-”.
TCPNSRStatus	TCP NSR status		Enumeration. • 0—Not configured • 1—Ready • 2—Not ready.	N/A

BGP/PeerStatistics

This table contains BGP peer statistic information.

XML structure

```
<BGP>
  <PeerStatistics>
    <PeerStatistic>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <TotalPeersCount></TotalPeersCount>
      <EstablishedPeersCount></EstablishedPeersCount>
    </PeerStatistic>
  </PeerStatistics>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerStatistics
Table type	Multi-instance table
Row name	PeerStatistic
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of neighbor	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
TotalPeersCount	Total number of peers		Unsigned integer. Value range: 0 to 4294967295	N/A
EstablishedPeersCount	Number of peers in established state		Unsigned integer. Value range: 0 to 4294967295	N/A

BGP/LinklocalIfCfgSessions

This table contains configuration information of BGP link-local interface sessions.

XML structure

```
<BGP>
  <LinklocalIfCfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <LinkLocalInterface></LinkLocalInterface>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
    </CfgSession>
  </LinklocalIfCfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	LinklocalIfCfgSessions
Table type	Multi-instance table
Row name	`CfgSession`
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String, IPv6 linklocal address string.	Example: fe80::1.
Mask	Mask length or prefix length of session address	Index	Unsigned integer. Value range: 0 to 128, or 255	For non-dynamic peers, the value is 255. For IPv4 dynamic peers, the value is in the range of 0 to 32. For IPv6 dynamic peers, the value is in the range of 0 to 128.
LinkLocalInterface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route update interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	BFD type		Enumeration. • 0—default type • 1—single-hop • 2—multi-hop	The default type indicate that actual bfd type (single-hop or multi-hop) depend

Column name	Column description	Column type	Data type and restrictions	Remarks
				on different situations
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer description		String. Length: 1 to 79 characters.	Case sensitive
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A

BGP/LinklocalIfNeighbors

This table contains BGP link-local interface peer information.

XML structure

```
<BGP>
  <LinklocalIfNeighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <LinkLocalInterface></LinkLocalInterface>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <ReOriginated></ReOriginated>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
```

```
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </RouteLimit>
      <PreferredValue></PreferredValue>
      <NexthopVpn></NexthopVpn>
    </Neighbor>
  </LinklocalIfNeighbors>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	LinklocalIfNeighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier of neighbor	Index	Enumeration: • **1**—IPv4 Unicast. • **2**—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv6 linklocal address string.	Example: fe80::1.
Mask	Mask length or prefix length of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, the value is 255. For IPv4 dynamic peers, the value is in the range of 0 to 32. For IPv6 dynamic peers, the value is in the range of 0 to 128.
LinkLocalInterface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Route policy applied to routes incoming from peers		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Route policy applied to routes outgoing to peers		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	Allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the		Enumeration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device as a route reflector and specify a peer or peer group as a client		• 0—Disable. • 1—Enable.	
NexthopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvertiseExtCommunity	Send extended community attribute to the peers		Enumeration. • 0—Disable. 1—Enable.	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. • 0—Disable. • 1—Enable.	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. • 0—Disable. • 1—Enable	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community		• Enumeration. • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	attribute			
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: • Number • Percentage • AlertOnly • Discard • Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 to 65535	N/A
NexthopVpn	Change the next hop of received VPNv4 routes to that of the matching VPN instance		Enumeration. • 0—Disable. • 1—Enable.	N/A

BGP/InterfaceCfgSessions

This table contains configuration information of BGP interface sessions.

XML structure

```
<BGP>
  <InterfaceCfgSessions>
    <CfgSession>
      <Name></Name>
```

```
      <VRF></VRF>
      <SessAF></SessAF>
      <Interface></Interface>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <Ignore></Ignore>
      <Description></Description>
      <NexthopRecursivePolicyDisable></NexthopRecursivePolicyDisable>
      <BmpServer></BmpServer>
      <FakeAS></FakeAS>
      <Dscp></Dscp>
      <IgnoreOriginatorid></IgnoreOriginatorid>
      <LogChange></LogChange>
      <LowMemoryExempt></LowMemoryExempt>
      <SubstituteAs><SubstituteAs>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
      <IpsecProfile></IpsecProfile>
      <Keychain></Keychain>
      <GracefulRestartExtra></GracefulRestartExtra>
    </CfgSession>
  </InterfaceCfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	InterfaceCfgSessions
Table type	Multi-instance table
Row name	CfgSession
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	N/A
Interface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group name		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route update interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	BFD type		Enumeration. • 0—default type • 1—single-hop • 2—multi-hop	The default type indicates that actual BFD type (single-hop or multi-hop) depends on different situations.
Ignore	Disable session establishment to the peers		Enumeration. • 0—Disable.(default) • 1—Enable.	N/A
Description	Peer description		String. Length: 1 to 79 characters.	Case sensitive

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursivePolicyDisable	Disable route recursion policy control for routes received from the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable.	N/A
BmpServer	Configure the BMP server peer or peer group		**Unsigned integer.** **Value range:** **1 to 8**	Up to 8 BGP monitoring servers can be configured in the same command.
FakeAS	Specify a virtual local AS number for the peer or peer group		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>.NN<0-65535>	By default, the fake AS number does not exist.
Dscp	Set the DSCP priority of BGP packets		Unsigned integer. Value range: 0 to 63	N/A
IgnoreOriginatorid	Ignore the ORIGINATOR_ID attribute of a BGP route		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
LogChange	Enable the logging function of the BGP session with the specified peer or peer group		Enumeration. • 0—Disable. • 1—Enable. (default)	N/A
LowMemoryExempt	Do not disconnect the session with the specified EBGP peer or peer group		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
SubstituteAs	Replace the AS number of the specified peer or peer group in the AS_PATH attribute with the local AS number		Enumeration. • 0—Disable. (default) • 1—Enable.	N/A
Timer	Keepalive and holdtime	Data structure	Members include: • KeepAlive • HoldTime.	The hold time must be greater than or equal to three times the keepalive time.
KeepAlive	Keepalive interval in seconds		**Unsigned integer.** **Value range:** **0 to 21845**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HoldTime	Holdtime in seconds		**Unsigned integer.** **Value range:** **0 , 3 to 65535**	N/A
IpsecProfile	Apply the IPsec security framework to IPv6 BGP peer or peer group		String. Length: 1 to 63 characters.	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection		String. Length: 1 to 63 characters.	N/A
GracefulRestartExtra	Extra time of GR timer.		String. Length: 1 to 8 characters.	“no-limit” sets an unlimited time to wait for BGP session re-establishment.

BGP/InterfaceNeighbors

This table contains BGP interface peer information.

XML structure

```
<BGP>
  <InterfaceNeighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <Interface></Interface>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopLocal></NexthopLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <AdvertiseExtCommunity></AdvertiseExtCommunity>
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
```

```
        <Discard></Discard>
        <Reconnect></Reconnect>
      </RouteLimit>
      <PreferredValue></PreferredValue>
      <AdditionalPathsRcv></AdditionalPathsRcv>
      <AdditionalPathsSend></AdditionalPathsSend>
      <AdvAddPathsBest></AdvAddPathsBest>
      <RouteAdv>
        <DefRouteAdv></DefRouteAdv>
        <RoutePlcy></RoutePlcy>
      </RouteAdv>
      <KeepAllRoutes></KeepAllRoutes>
      <PrefixListExp></PrefixListExp>
      <PrefixListImp></PrefixListImp>
      <PublicAsOnly></PublicAsOnly>
      <SooSiteOfOrigin></SooSiteOfOrigin>
      <FlPlcyAclNoOrNameExp></FlPlcyAclNoOrNameExp>
      <FlPlcyAclNoOrNameImp></FlPlcyAclNoOrNameImp>
      <AdvOrigAsVld></AdvOrigAsVld>
      <CapOrf></CapOrf>
      <ASPathAclImport></ASPathAclImport>
      <ASPathAclExport></ASPathAclExport>
    </Neighbor>
  </InterfaceNeighbors>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	InterfaceNeighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier of neighbor	Index	Enumeration: **1**—IPv4 Unicast. **2**—IPv4 Multicast. 3—MDT 4—VPNv4 5—IPv6 Unicast 6—IPv6 Multicast. 7—VPNv6 8—L2VPN 9—L2VPN EVPN 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: **1**—IPv4. **2**—IPv6.	N/A
Interface	Source interface	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Route policy applied to routes incoming from peers		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Route policy applied to routes outgoing to peers		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	Allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
NexthopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflicts with next-hop-invariable
AdvertiseCommunity	Send community attribute to the peers		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Enable.	

BGP/Groups

This table contains BGP group information.

XML structure

```
<BGP>
  <Groups>
    <Group>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <GroupName></GroupName>
      <ASNumber></ASNumber>
      <AuthenticationType></AuthenticationType>
      <Type></Type>
      <Members>
        <IpAddress></IpAddress>
      </Members>
    </Group>
  </Groups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier of the neighbor	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec	N/A
GroupName	Group name	Index	String. Length: 1 to 47 characters.	N/A
ASNumber	Autonomous system number		Unsigned integer. Value range: 1 to 4294967295	N/A
AuthenticationType	Authentication type configured		Enumeration. • 0—None. • 1—MD5. • 2—Keychain	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Internal or external		Enumeration. • 0—Internal. • 1—External.	N/A
Members	Members of the peers	Data structure	Members include: IpAddress.	You can specify multiple IP addresses.
IpAddress	IP address of the session		String, IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.

BGP/Paths

This table contains BGP route attribute information.

XML structure

```
<BGP>
  <Paths>
    <Path>
      <Name></Name>
      <AttrCount></AttrCount>
      <AsPathCount></AsPathCount>
      <ExtCommCount></ExtCommCount>
      <CommCount></CommCount>
      <Attributes>
        <RefCount></RefCount>
        <MED></MED>
        <AsPath></AsPath>
        <Origin></Origin>
      </Attributes>
    </Path>
  </Paths>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates all BGP processes. When executing get bulk operation, you can only get the data of the specified BGP instance.
AttrCount	Type of BGP route attributes		Unsigned integer. Value range: 1 to 4294967295	N/A
AsPathCount	Number of AS_PATH attributes		Unsigned integer. Value range: 1 to 4294967295	N/A
ExtCommCount	Number of Extcommunity attributes		Unsigned integer. Value range: 1 to 4294967295	N/A
CommCount	Number of Community attributes		Unsigned integer. Value range: 1 to 4294967295	N/A
Attributes	Path attribute	Data structure	Members include: • RefCount. • MED. • Path • Origin	N/A
RefCount	Number of BGP routes with identical path attributes.		Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MED	MULTI_EXIT_DISC attribute value of the routes.		Unsigned integer. Value range: 1 to 4294967295	N/A
AsPath	AS_PATH attribute regular expression		String. Length: 0 to 4000 characters.	N/A
Origin	Identifies the origin of the routes		Enumeration. • 0—Originated in the AS. • 1—Learned through EGP. • 2—Unknown origin. The origin of routes redistributed from IGPs is INCOMPLETE.	N/A

BGP/RouteStatistics

This table contains BGP route statistics information.

XML structure

```
<BGP>
  <RouteStatistics>
    <Statistics>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <TotalRoutes></TotalRoutes>
    </Statistics >
  </RouteStatistics>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec	Only IPv4 Unicast and VPNv4 support.
TotalRoutes	Total number of routes.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

BGP/PeerRouteStatistics

This table contains BGP peer route statistics information.

XML structure

```
<BGP>
  <PeerRouteStatistics>
    <PeerStatistics>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <AdvertisedTotalRoutes></AdvertisedTotalRoutes>
      <ReceivedTotalRoutes></ReceivedTotalRoutes>
    </PeerStatistics>
  </PeerRouteStatistics>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerRouteStatistics
Table type	Multi-instance table
Row name	PeerStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec	Only IPv4 Unicast and VPNv4 support.
SessAF	Address family of the session	Index	Enumeration: • **1**—IPv4. • **2—IPv6.**	N/A
IpAddress	IP address of the session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
AdvertisedTotalRoutes	Total number of advertised	N/A	Unsigned integer. Value range: 0 to	N/A

	routes.		4294967295.	
Received TotalRoutes	Total number of received routes.		Unsigned integer. Value range: 0 to 4294967295.	N/A

BGP/PeerRoutes

This table contains BGP peer route information.

XML structure

```
<BGP>
  <PeerRoutes>
    <PeerRoute>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <RoutesDirection></RoutesDirection>
      <IpPrefix>
        <DestIPAF></DestIPAF>
        <DestIpAddress></DestIpAddress>
        <DestIpPrefixLength></DestIpPrefixLength>
      </IpPrefix>
      <Nexthop>
        <NexthopAF></NexthopAF>
        <NexthopAddress></NexthopAddress>
      </Nexthop>
      <MED></MED>
      <LocPrf></LocPrf>
      <PrefVal></PrefVal>
      <Path></Path>
      <Origin></Origin>
    </PeerRoute>
  </PeerRoutes>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	PeerRoutes
Table type	Multi-instance table
Row name	PeerRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address family identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State • 11—IPv4 rtfilter. • 12—IPv4 mvpn. • 13—IPv4 Flowspec • 14—VPNv4 Flowspec • 15—IPv6 Flowspec • 16—VPNv6 Flowspec	Only IPv4 Unicast and VPNv4 support.
SessAF	Address family of the session	Index	Enumeration: • **1**—IPv4. • **2—IPv6.**	N/A
RoutesDirection	Direction of routes	Index	Enumeration. • 0—advertised-routes. • 1—received-routes.	N/A
IpAddress	IP address of the session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
IpPrefix	Destination IP	Data	Members include:	The two

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefix.	structure	• DestIPAF. • DestIpAddress. • DestIpPrefixLength.	members must both be specified. Supports filter configuration. For more information, see **错误!未找到引用源。**
DestIPAF	Address family of the destination IP address	index	Enumeration: • 1—IPv4. • 2—IPv6.	
DestIpAddress	Destination IP address.	index	String, IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
DestIpPrefixLength	Length of the destination IP address prefix.	index	Unsigned integer. Value range: 0 to 32. or 0 to 128	N/A
Nexthop	IP address of the next hop	Data structure	Members include: • NexthopAF. • NexthopAddress.	
NexthopAF	Address family of the next hop		Enumeration: • 1—IPv4. • 2—IPv6.	
NexthopAddress	Next hop address		String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
MED	MULTI_EXIT_DISC attribute		Unsigned integer. Value range: 1 to 4294967295	N/A
LocPrf	Local preference value.		Unsigned integer. Value range: 1 to 4294967295	N/A
PrefVal	Preferred value of the route.		Unsigned integer. Value range: 1 to 4294967295	N/A
Path	AS_PATH attribute regular expression		String. Length: 0 to 4000 characters.	N/A
Origin	Identifies the origin of the routes		Enumeration. • 0—Originated in the AS. • 1—Learned through EGP. • 2—Unknown origin. The origin of routes redistributed from IGPs	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is INCOMPLETE.	

BGP/SREPEPeerSets

This table contains BGP SR EPE peer set information.

XML structure

```
<BGP>
  <SREpePeerSets>
    <SREpePeerSet>
      <Name></Name>
      <VRF></VRF>
      <PeerSetName></PeerSetName>
      <SetLabel></SetLabel>
      <EPESessions>
        <EPESession>
          <PeerAddr></PeerAddr>
          <RemoteAsNumber></RemoteAsNumber>
        </EPESession>
      </EPESessions>
    </SREpePeerSet>
  </SREpePeerSets>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	`SREpePeerSets`
Table type	Multi-instance table
Row name	`SrEpePeerSet`
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	BGP instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerSetNam e	Name of the EPE peer set	Index	String. Length: 1 to 63 characters.	N/A
SetLabel	Static SID for the EPE peer set		N/A	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment
EPESessions	Site containing the EPE session information	Subtable	N/A	For more information, see the BGP/SREPEPeerS ets/EPESessions

BGP/SREPEPeerSets/EPESessions

This table contains BGP SR EPE peer set session information.

XML structure

Please refer to the XML structure of BGP/ SREPEPeerSets

Table description

Item	Description
Feature name	BGP
Table name	EPESessions
Table type	Multi-instance table
Row name	EPESession
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	Remote interface address	Index	String,IPv4 address string or IPv6 address string	N/A
RemoteIAsNumber	Remote AS number	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

BGP/SREpes

This table contains BGP link-local interface peer information.

XML structure

```
<BGP>
  <SREpes>
    <SREpe>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <LocalAsNumber></LocalAsNumber>
      <RemoteAsNumber></RemoteAsNumber>
      <LocalRouterID></LocalRouterID>
      <RemoteRouterID></RemoteRouterID>
      <EPENode>
        <LocalAddr></LocalAddr>
        <PeerAddr ></PeerAddr >
        <Label></Label>
      </EPENode>
      <EPEAdjs>
        <EPEAdj>
          <EPEAdjAddr></EPEAdjAddr>
          <LocalIfAddr></LocalIfAddr>
          <Label></Label>
        </EPEAdj>
      </EPEAdjs>
    </SREpe>
  </SREpes>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	SREpes
Table type	Multi-instance table
Row name	SREpe
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	BGP instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: • **1**—IPv4.	
IpAddress	Address of session	Index	String,IPv4 address string .	Example: 1.1.1.1
Mask	Mask length or prefix length of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, the value is 255. For IPv4 dynamic peers, the value is in the range of 0 to 32. For IPv6 dynamic peers, the value is in the range of 0 to 128.
LocalAsNumber	Local AS number		Unsigned integer. Value range: 1 to 4294967295	N/A
RemoteAsNumber	Remote AS number		Unsigned integer. Value range: 1 to 4294967295	N/A
LocalRouterID	Local router ID		String, IPv4 address string	Example: 1.1.1.1
RemoteRouterID	Peer router ID		String, IPv4 address string	Example: 1.1.1.1
EPENode	Configure EPENode parameters	Data structure	Members include: • LocalAddr • PeerAddr • Label.	N/A
LocalAddr	Node local interface address		String, IPv4 address string	Example: 1.1.1.1
PeerAddr	Node remote interface address		String, IPv4 address string	Example: 1.1.1.1
Label	Node label		Unsigned integer.	N/A
EPEAdjs	Site containing the EPE adjancency information	Subtable	N/A	For more information, see the BGP/SREpes/EPEAdjs

BGP/SREpes/EPEAdjs

This table contains BGP link-local interface adjancency information.

XML structure

Please refer to the XML structure of BGP/SREpes

Table description

Item	Description
Feature name	BGP
Table name	EPEAdjs
Table type	Multi-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EPEAdjAddr	Adjacency address	Index	String,IPv4 address string	Example: 1.1.1.1
LocalIfAddr	Local interface address	Index	String,IPv4 address string	Example: 1.1.1.1
Label	Specify an SID label for the specified peer or peer group		Unsigned integer.	N/A

BGP/SRv6EPEs

This table contains BGP SRv6 EPEs information.

XML structure

```
<BGP>
  <SRv6EPEs>
    <SRv6EPE>
      <Name></Name>
      <VRF></VRF>
```

```
      <SessAF></SessAF>
      <Ipv6Address></Ipv6Address>
      <PrefixLen></PrefixLen>
      <LocalAsNumber></LocalAsNumber>
      <RemoteAsNumber></RemoteAsNumber>
      <LocalRouterID></LocalRouterID>
      <RemoteRouterID></RemoteRouterID>
      <EPEV6Node>
        <LocalAddr></LocalAddr>
        <PeerAddr></PeerAddr>
        <PspSID></PspSID>
        <NoPspUspSID></NoPspUspSID>
        <PspUspUsdSID></PspUspUsdSID>
      </EPEV6Node>
      <EPEV6Adjs>
        <EPEV6Adj>
          <LocalAddr></LocalAddr>
          <RemoteAddr></RemoteAddr>
          <PspSID></PspSID>
          <NoPspUspSID></NoPspUspSID>
          <PspUspUsdSID></PspUspUsdSID>
        </EPEV6Adj>
      </EPEV6Adjs>
    </SRv6EPE>
  </SRv6EPEs>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	SRv6EPEs
Table type	Multi-instance table
Row name	SRv6EPE
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: **2**—IPv6.	N/A
Ipv6Address	Address of session	Index	String IPv6 address string.	Example: 1:1::1:1
PrefixLen	prefix length of session address	Index	Unsigned integer. Value range: 0 to 128	For IPv6 dynamic peers, the value is in the range of 0 to 128.
LocalAsNumber	Local AS number	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
RemoteIAsNumber	Remote AS number	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
LocalRouterID	Local router ID	N/A	String IPv4 address string	N/A
RemoteRouterID	Peer router ID	N/A	String IPv4 address string	N/A
EPEV6Node	EPEV6Node information	Data Structure	Members include: • LocalAddr • PeerAddr • PspSID • NoPspUspSID • PspUspUsdSID	N/A
LocalAddr	Local address	N/A	String IPv4 address string or IPv6 address string	N/A
PeerAddr	peer address	N/A	String IPv6 address string	N/A
PspSID	peer-set peer SID	N/A	String IPv6 address string.	N/A
NoPspUs	End.X SID(-	N/A	String IPv6 address string.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
pSID	NO-FLAVOR))			
PspUspUsdSID	End.X SID(PSSPUSPUSD)	N/A	String IPv6 address string.	N/A
EPEAdjs	Site containing the EPE adjancency information	Sublist	N/A	For more information, see the BGP/SRv6Epes/ EPEAdjs

BGP/SRv6EPEs/EPEAdjs

This table contains BGP SRv6 EPEs EPEAdjs information.

XML structure

Please refer to the XML structure of BGP/SRv6EPES

Table description

Item	Description
Feature name	BGP
Table name	EPEAdjs
Table type	Multi-instance table
Row name	N/A
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalAddr	Local address	Index	String,IPv4 address string or IPv6 address string	N/A
Remote Addr	Remote address	Index	String,IPv4 address string or IPv6 address string	N/A
PspSID	peer-set peer type static End.X SID	N/A	String IPv6 address string.	N/A
NoPspUspSID	End.X SID(-NO-FLAVOR)	N/A	String IPv6 address string.	N/A
PspUspUsdSID	End.X SID(PSPUSPUSD)	N/A	String IPv6 address string.	N/A

BGP/SRv6EPESets

This table contains BGP-EPE SRv6 Peer Set information.

XML structure

```
<BGP>
  <SRv6EPESets>
    <SRv6EPESet>
      <Name></Name>
      <VRF></VRF>
      <PeerSetName></PeerSetName>
      <PspSID></PspSID>
      <NoPspUspSID></NoPspUspSID>
      <PspUspUsdSID></PspUspUsdSID>
      <EPESessions>
        <EPESession>
          <PeerAddr></PeerAddr>
          <RemoteAsNumber></RemoteAsNumber>
        </EPESession>
      </EPESessions>
    </SRv6EPESet>
  </SRv6EPESets>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	SRv6EPESets
Table type	Multi-instance table
Row name	SRv6EPESet
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	BGP instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerSet Name	Name of the EPE peer set	Index	String. Length: 1 to 63 characters.	N/A
PspSID	End.X SID with PSP		String,IPv6 address string	N/A
NoPspUspSID	End.X SID (-NO-FLAVOR)		String,IPv6 address string	N/A
PspUspUsdSID	End.X SID (PSPUSPUSD)		String,IPv6 address string	N/A
EPESessions	BGP-EPE SRv6 Peer Set session information	Sublist	N/A	For more information, see the BGP/SRv6EPESets/EPESessions table.

BGP/SRv6EPESets/EPESessions

This table contains BGP-EPE SRv6 Peer Set session information.

XML structure

Please refer to the XML structure of BGP/ SRv6EPESets.

Table description

Item	Description
Feature name	BGP
Table name	EPESessions
Table type	Multi-instance table
Row name	EPESession
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	Peer Address	Index	String,IPv6 address string	N/A
RemoteAsNumber	Remote Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A

BGP/RedistributesBier

This table contains BGP redistribution information for BIER route.

XML structure

```
<BGP>
  <RedistributesBier>
    <RedistBier>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </RedistBier>
  </RedistributesBier>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	RedistributesBier

Table type	Multi-instance table
Row name	RedistBier
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • 5—IPv6 Unicast	N/A
Protocol	Protocol name	Index	Enumeration: • 5—ISIS/ISISv6	N/A
RedistName	Redistributed pocess name	Index	String. Length: 0 to 31 characters.	N/A

BGP/ImportRibs

This table contains BGP Import Rib information.

XML structure

```
<BGP>
  <ImportRibs>
    <ImportRib>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SrcVRF></SrcVRF>
      <SrcFamily></SrcFamily>
      <ValidRouteEnable></ValidRouteEnable>
      <ImRibRtPolicyName></ImRibRtPolicyName>
      <ImRibFtPolicyPreName></ ImRibFtPolicyPreName>
      <ImRibFtPolicyAclNum></ ImRibFtPolicyAclNum>
      <ImRibFtPolicyAclName></ ImRibFtPolicyAclName>
    </ImportRib>
  </ImportRibs>
```

```
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	ImportRibs
Table type	Multi-instance table
Row name	ImportRib
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Import Rib	Index	Enumeration: • **1**—IPv4 Unicast • 23—IPv4 Labeled-unicast	N/A
SrcVRF	Source VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SrcFamily	Source Address Family Identifier of Import Rib	Index	Enumeration: • **1**—IPv4 Unicast • 23—IPv4 Labeled-unicast	N/A
ValidRouteEnable	Specify the valid route of the corresponding route type to be imported		Enumeration: • 0—Disable. • 1—Enable.	N/A
ImRibRtPolicyName	Configure the route policy name of Import Rib.		String. Length: 1 to 63 characters.	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.
ImRibFtPolicyPreName	Filter BGP routes by a prefix-list name of Import Rib.		String. Length: 1 to 63 characters.	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.
ImRibFtPolicyAclNum	Filter BGP routes by an ACL number of Import Rib.		Unsigned integer. Value range: 2000 to 3999	You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclN

Column name	Column description	Column type	Data type and restrictions	Remarks
				ame at the same time.
ImRibFtPolicyAclName	Filter BGP routes by an ACL name of Import Rib.		String. Length: 1 to 63 characters.	ACL name (start with[a-z,A-Z]).Can't use "all" as ACL name. You can only set one of ImRibRtPolicyName, ImRibFtPolicyPreName, ImRibFtPolicyAclNum and ImRibFtPolicyAclName at the same time.

Contents

BGP 2
BGP/Instances 2
BGP/VRFs 4
BGP/CfgSessionGroups 5
BGP/CfgSessions 8
BGP/Familys 11
BGP/Networks 18
BGP/Aggregates 19
BGP/NeighborGroups 20
BGP/Neighbors 25
BGP/Redistributes 31
BGP/RedistributesAppend 32
BGP/BMPs 33
BGP/Rpkis 33
BGP/Resets 34
BGP/Refreshs 34
BGP/FilterPolicyExports 35
BGP/PeerDefRtAdvVpnInsts 35
BGP/LinklocalIfCfgSessions 36
BGP/LinklocalIfNeighbors 37
BGP/InterfaceCfgSessions 41
BGP/InterfaceNeighbors 43
BGP/RedistributesBier 46

BGP

BGP/Instances

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
BGP is disabling NSR. BGP进程正在处理NSR删除，请稍后再进行配置。	The NSR configuration is being deleted when you replace or delete it.
Can't enable NSR because the address family that does not support NSR has been configured. 地址族配置与NSR配置冲突，不能配置NSR。	Invalid configuration, please modify configuration under the guidance.
Centralized devices don't support NSR. 集中式设备，无法支持NSR。	Invalid configuration, please modify configuration under the guidance.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
Enable IgnoreAllPeers and configure GracefulTime first. 需先禁止所有对等体、对等体组建立对话、配置GracefulTime。	Invalid configuration, please modify configuration under the guidance.
GracefulTime and Conmmunity/LocalPreference/Med must be performed together with IgnoreAllPeers. GracefulTime必须与Conmmunity或LocalPreference或Med同时配置，且需和IgnoreAllPeersEnable一起。	Invalid configuration, please modify configuration under the guidance.
The label of per-VPN conflicts with VPN popgo. 为每个实例申请标签方式与vpn popgo命令互斥。	Invalid configuration, please modify configuration under the guidance.
Configure the confederation ID first. 请先配置ConfederationId。	Invalid configuration, please modify configuration under the guidance.
Please enable Graceful Restart (GR) capability first. 请先使能Graceful-restart	Invalid configuration, please modify configuration under the guidance.
Please remove confederationpeers first. 请先删除该联盟子地址族。	Invalid configuration, please modify configuration under the guidance.
Confederation peer sub-AS number cannot be the same as local AS number. 子地址族与本地AS Number冲突。	Invalid configuration, please modify configuration under the guidance.
The total count of confederation peers must not be greater than 32. 子地址族总数不能超过32。	Invalid configuration, please modify configuration under the guidance.
Confederation peer sub-AS number cannot be the	Invalid configuration, please modify configuration under the

same as the AS number of VPN instance peers. 子地址族与VPN实例的AS Number冲突。	guidance.
AS number is conflicted with peer group or peer session configured with fake AS number. 子地址族与会话或会话组的虚拟AS Number冲突。	Invalid configuration, please modify configuration under the guidance.
Community sequence number must be in the range of 1 to 4294967295. 团体序号的取值范围为1~4294967295。	Invalid configuration, please modify configuration under the guidance.
Community number must be in the format of aa(0-65535):nn(0-65535). 团体号的格式为aa(0-65535):nn(0-65535)。	Invalid configuration, please modify configuration under the guidance.
Cannot configure same AS number in confederation. 不能在联盟中配置相同的AS号。	Invalid configuration, please modify configuration under the guidance.
The BGP process doesn’t exist or the TCP connection failed. BGP进程不存在或者TCP连接失败。	The BGP process doesn’t exist or the TCP connection failed.
Configure the confederation ID first. 请先配置ConfederationId。	Invalid configuration, please modify configuration under the guidance.
Cannot delete the specified peer-set because the peer-set is not empty. 不能删除指定的Peer-set组因为该Peer-set组非空。	Invalid configuration, please modify configuration under the guidance.
The SRv6 SID has been used by another peer or peer set. SRv6 SID已经被其它的Peer或者Peer-set组使用。	Invalid configuration, please modify configuration under the guidance.
Can't configure the same value for the SRv6 SID of the PSP type and the SRv6 SID of the no-PSP and no-USP type. PSP的SRv6 SID不能和No PSP -的SRv6 SID值相同。	Invalid configuration, please modify configuration under the guidance.
Can't configure the same value for the SRv6 SID of the PSPUSPUSD type , the SRv6 SID of the PSP type and the SRv6 SID of the no-PSP type. PSPUSPUSD 的SRv6 SID 不能和 PSP的SRv6 SID或No PSP的SRv6 SID值相同。	Invalid configuration, please modify configuration under the guidance.
When configuring STATIC,PSP or NOPSPUSP must be configured at the same time. 配置static的时候必须配置psp或者nopspusp	Invalid configuration, please modify configuration under the guidance.
When configuring STATIC,PSP , NOPSPUSP or PSPUSPUSD must be configured at the same time. 配置static的时候必须配置psp或者nopspusp 或者pspuspusd。	Invalid configuration, please modify configuration under the guidance.
The configuration confilict. 配置冲突	Invalid configuration, please modify configuration under the guidance.
The MinInterval cannot be longer than the MaxInterval. MinInterval 不能大于MaxInterval。	Invalid configuration, please modify configuration under the guidance.

The maximum value must be greater than the minimum value. 时延参数的最大值必须大于最小值。	The maximum value must be greater than the minimum value. 时延参数的最大值必须大于最小值。
Maximum value and minimum value must be issued simultaneously minimum value. 时延参数的最大值和最小值必须同时下发。	Maximum value and minimum value must be issued simultaneously minimum value. 时延参数的最大值和最小值必须同时下发。
The SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime can not be configured together. SendLowPriorityPeerupDelayTime和SendLowPriorityOnStartupTime不能一起配置。	Invalid configuration, please modify configuration under the guidance.
The SendLowPriorityPeerupDelayTime and SendDelayTime can not be configured together. SendLowPriorityPeerupDelayTime和SendDelayTime不能一起配置。	Invalid configuration, please modify configuration under the guidance.
The SendLowPriorityOnStartupTime and SendDelayTime can not be configured together. SendLowPriorityOnStartupTime和SendDelayTime不能一起配置。	Invalid configuration, please modify configuration under the guidance.
The advertise lowest-priority peer-up delay command is mutually exclusive with the bgp update-delay on-startup command. advertise lowest-priority peer-up delay命令与bgp update-delay on-startup命令互斥。	Invalid configuration, please modify configuration under the guidance.
The advertise lowest-priority peer-up delay command is mutually exclusive with the advertise lowest-priority on-startup command. advertise lowest-priority peer-up delay命令与advertise lowest-priority on-startup命令互斥。	Invalid configuration, please modify configuration under the guidance.
To configure EPESRv6AutoSidMode, you must set EPESRv6Locator first. 在配置EPESRv6AutoSidMode之前必须先配置EPESRv6Locator。	To configure EPESRv6AutoSidMode, you must set EPESRv6Locator first. 在配置EPESRv6AutoSidMode之前必须先配置EPESRv6Locator。
The static SID mode is coc32 or coc-both coc32,can't configure static PSP-USP-USD SID. 静态SID类型为coc32或者coc-both coc32，不能配置静态PSP-USP-USD SID。	The static SID mode is coc32 or coc-both coc32,can't configure static PSP-USP-USD SID. 静态SID类型为coc32或者coc-both coc32，不能配置静态PSP-USP-USD SID。
PspUspUsd is not supported. 不支持PSUSPUSD配置	PspUspUsd is not supported. 不支持PSUSPUSD配置

BGP/VRFs

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist.	Invalid configuration, please modify configuration under the

该VPN不存在。	guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted when you replace or delete it.
The VPN instance RD is not configured. 该VPN没有配置RD。	Invalid configuration, please modify configuration under the guidance.
The public VPN instance can't be deleted. 公网VPN实例不允许删除。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
Invalid router ID. 无效的RouterID。	Invalid configuration, please modify configuration under the guidance.
The VPN already exists in another BGP instance. 该VPN已存在于其他BGP实例中。	The VPN can’t exist in two or more BGP instances.
The BGP instance view doesn't support the bestroute encap-type command. BGP实例视图不支持bestroute encap-type命令。	Invalid configuration, please modify configuration under the guidance.
The maximum restraint time interval should not be less than the minimum restraint time interval. 最大抑制时间应当不小于最小抑制时间。	Minimum interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的最小抑制时间不应当大于最大抑制时间。
The maximum restraint time interval should not be less than the penalty restraint time interval. 最大抑制时间应当不小于抑制惩罚时间。	Incremental interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的惩罚抑制时间不应当大于最大抑制时间。
The fixed restraint time interval cannot be configured at the same time as the maximum time interval, minimum time interval, and penalty time. 固定抑制时间不能和最大抑制时间、最小抑制时间，及抑制惩罚时间同时配置。	Fixed interval of next hop recursive lookup restraint and maximum, minimum, incremental are mutually exclusive. 下一跳迭代的固定抑制时间和最大时间间隔，最小时间间隔，惩罚时间不能同时配置。
Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。	Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。

BGP/CfgSessionGroups

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted.	The specified VPN instance is being deleted when you replace or delete it.

该VPN正在删除中。	
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge or replace, the group type must not be null. Create、merge、replace操作时，对等体组类型不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the group type can’t be specified. Delete、remove操作时，不能指定对等体组类型。	Invalid configuration, please modify configuration under the guidance.
No need to configure AS number for an IBGP group. 不能配置或者删除IBGP组的AS号。	Invalid configuration, please modify configuration under the guidance.
Can't change or delete AS number for a peer group that contains peers. 对等体组中存在会话，不能变更或者删除对等体组AS号。	Invalid configuration, please modify configuration under the guidance.
Invalid peer group name. 组名称不合法。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid plaintext password length. 明文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password length. 密文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
BFD not supported. 不支持BFD	BFD service has not been started.
When enabling dual-as, prepend-global-as, or prepend-fake-as, you must specify the fake AS number. 配置dual-as、prepend-global-as、prepend-fake-as使能时，fake-as不能为空。	Invalid configuration, please modify configuration under the guidance.
Invalid fake AS number. 指定的fake-as无效。	Invalid configuration, please modify configuration under the guidance.
EBGP peer groups don’t exist.	Invalid configuration, please modify configuration under the

EBGP对等体组不存在。	guidance.
The ORIGINATOR_ID attribute is not supported for EBGP peer groups. ORIGINATOR_ID属性不适用于EBGP对等体组。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is in the range of 0 to 86400. Graceful Restart timer restart extra命令的time的取值范围为0~86400。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is invalid. Graceful Restart timer restart extra命令的参数错误。	Invalid configuration, please modify configuration under the guidance.
Egress peer-set are being deleted. Try it later. 正在删除egress对等集,稍后再试。	Invalid configuration, please modify configuration under the guidance.
Cannot delete the specified peer-set because the peer-set is not empty. 无法删除指定的对等集，因为对等集不为空。	Invalid configuration, please modify configuration under the guidance.
The SID label has already been configured for another peer. 已经为另一个对等集配置了SID标签。	Invalid configuration, please modify configuration under the guidance.
The SID label has already been configured for another peer-set. 已为另一对等集配置SID标签。	Invalid configuration, please modify configuration under the guidance.
A peer group does not support configuring both IPv4 and SRv6 EPE capabilities. 同一对等体组上不允许同时配置IPv4 BGP-EPE功能和SRv6 BGP-EPE功能。	Invalid configuration, please modify configuration under the guidance.
Keychain and password configuration conflicted. Keychain和password配置冲突.	Invalid configuration, please modify configuration under the guidance.
The UpdateInterval and UpdateIntervalIntelligent columns cannot be configured together. UpdateInterval 和 UpdateIntervalIntelligent不能一起配置。	Invalid configuration, please modify configuration under the guidance.
Enable Tracking first. 需要先使能Tracking。	Invalid configuration, please modify configuration under the guidance.
Cannot configure EgressEngineeringLinkDown, when the value of egress-engineering type is two. 指定EgressEngineeringType为2时，不支持配置EgressEngineeringLinkDown。	Invalid configuration, please modify configuration under the guidance.
The value for the MonitorLinkGroup parameter is out of the value range for this product. MonitorLinkGroup参数的取值超出产品允许配置的范围。	Invalid configuration, please modify configuration under the guidance.

BGP/CfgSessions

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN is being deleted when you replace or delete it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
The session already exists. The AS number can't be changed. 会话已存在，不允许修改会话的AS号。	Configuration already exists, when you set new configuration.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
Interface name is invalid, or interface failed RBAC check. 接口名称非法或者无法通过RBAC检查。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge, or replace, the AS number can’t be specified. Create、merge、replace操作时，AS号不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, you cannot set the ASNumber column. Delete、remove操作时，不能指定AS号。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid plaintext password length. 明文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password length.	Invalid configuration, please modify configuration under the

密文密码长度不合法。	guidance.
BFD not supported. 不支持BFD	BFD service has not been started.
Only EBGP peers support the configuration. 仅EBGP邻居支持本配置。	Only EBGP peers support the configuration.
When enabling dual-as, prepend-global-as, or prepend-fake-as, you must specify the fake AS number. 配置dual-as、prepend-global-as、prepend-fake-as使能时，fake-as不能为空。	Invalid configuration, please modify configuration under the guidance.
Invalid fake AS number. 指定的fake-as无效。	Invalid configuration, please modify configuration under the guidance.
The peers belong to another peer group. 指定对等体已经加入其它对等体组。	Invalid configuration, please modify configuration under the guidance.
EBGP peers don’t exist. EBGP对等体不存在。	Invalid configuration, please modify configuration under the guidance.
The ORIGINATOR_ID attribute is not supported for EBGP peers. ORIGINATOR_ID属性不适用于EBGP对等体。	Invalid configuration, please modify configuration under the guidance.
IPv4 does not support the use of IPsec-policy. IPv4不支持使用Psec策略。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
The AS number of the peer must be the same as that of the peer group. 对等体的AS号应该和对等体组相同。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is in the range of 0 to 86400. Graceful Restart timer restart extra命令的time的取值范围为0~86400。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is invalid. Graceful Restart timer restart extra命令的参数错误。	Invalid configuration, please modify configuration under the guidance.
Egress peer-set are being deleted. Try it later. 正在删除egress对等集,稍后再试。	Invalid configuration, please modify configuration under the guidance.
Cannot delete the specified peer-set because the peer-set is not empty. 无法删除指定的对等集，因为对等集不为空。	Invalid configuration, please modify configuration under the guidance.
The SID label has already been configured for another peer. 已经为另一个对等集配置了SID标签。	Invalid configuration, please modify configuration under the guidance.
The SID label has already been configured for another peer-set. 已为另一对等集配置SID标签。	Invalid configuration, please modify configuration under the guidance.
The Peer-set to which the specified Peer is added	Invalid configuration, please modify configuration under the

cannot be modified repeatedly, it must be deleted first and then reconfigured. 不能重复修改指定对等体加入的Peer-set组，必须先删除再重新配置。	guidance.
Peers cannot be added to the Peer-set that does not exist. 不能将对等体加入不存在的Peer-set组。	Invalid configuration, please modify configuration under the guidance.
When the BGP-EPE function of a specified peer is enabled, dynamic SRv6 SID and static SRv6 SID cannot be allocated at the same time. 开启指定对等体的BGP-EPE功能时，不能同时分配动态SRv6 SID和静态SRv6 SID。	Invalid configuration, please modify configuration under the guidance.
The specified peer is not enabled with BGP EPE. 没有使能BGP-EPE功能的对等体不能加入到BGP-EPE SRv6 Peer Set组。	Invalid configuration, please modify configuration under the guidance.
Cannot disable BGP EPE for the peer because the peer has joined a peer set. 不能删除BGP-EPE功能，因为指定对等体已经加入了Peer-set组。	Invalid configuration, please modify configuration under the guidance.
Static sid is not allowed when global locator is not configured. 为Peer-set组或者指定对等体配置静态SRv6 SID前，必须配置BGP-EPE引用Locator。	Invalid configuration, please modify configuration under the guidance.
The SRv6 SID has been used by another peer or peer set. SRv6 SID已经被其它的Peer或者Peer-set组使用。	Invalid configuration, please modify configuration under the guidance.
Can't configure the same value for the SRv6 SID of the PSP type and the SRv6 SID of the no-PSP and no-USP type. PSP的SRv6 SID不能和No PSP-的SRv6 SID值相同。	Invalid configuration, please modify configuration under the guidance.
Can't configure the same value for the SRv6 SID of the PSPUSPUSD type, the SRv6 SID of the PSP type and the SRv6 SID of the no-PSP type. PSPUSPUSD 的SRv6 SID 不能和 PSP的SRv6 SID或No PSP的SRv6 SID值相同。	Invalid configuration, please modify configuration under the guidance.
The peer range overlaps with an existing one. 对等体范围与已存在的重叠。	Invalid configuration, please modify configuration under the guidance.
The locator is not set. 没有配置locator。	Invalid configuration, please modify configuration under the guidance.
The static sid is not set. 没有配置static sid	Invalid configuration, please modify configuration under the guidance.
Keychain and password configuration conflicted. Keychain和password配置冲突.	Invalid configuration, please modify configuration under the guidance.
Keychain and password configuration conflicted between peer and peer group. Keychain和password在对等体和对等体组之间存在配置冲突.	Invalid configuration, please modify configuration under the guidance.
Enable Tracking first.	Invalid configuration, please modify configuration under the

需要先使能Tracking。	guidance.
The static SID mode is coc32 or coc-both coc32,can't configure static PSP-USP-USD SID. 静态SID类型为coc32或者coc-both coc32，不能配置静态PSP-USP-USD SID。	The static SID mode is coc32 or coc-both coc32,can't configure static PSP-USP-USD SID. 静态SID类型为coc32或者coc-both coc32，不能配置静态PSP-USP-USD SID。
PspUspUsd is not supported. 不支持配置PspUspUsd。	PspUspUsd is not supported. 不支持配置PspUspUsd。
Cannot configure EgressEngineeringLinkDown, when the value of egress-engineering type is two. 指定EgressEngineeringType为2时，不支持配置EgressEngineeringLinkDown。	Invalid configuration, please modify configuration under the guidance.
The value for the MonitorLinkGroup parameter is out of the value range for this product. MonitorLinkGroup参数的取值超出产品允许配置的范围。	Invalid configuration, please modify configuration under the guidance.

BGP/Familys

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN is being deleted when you replace or delete it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
This address family doesn't support NSR. Please disable NSR first. 当前地址族不支持NSR，请先将NSR配置删除。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't exist. 指定的地址族不存在。	Invalid configuration, please modify configuration under the guidance.
Can't configure both EIBGP load balancing and EBGP/IBGP load balancing at the same time. EIBGP等价不能和EBGP等价、IBGP等价同时配置。	Invalid configuration, please modify configuration under the guidance.
Address family not supported. 不支持该地址族。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the preference command. 指定地址族不支持preference命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the	Invalid configuration, please modify configuration under the

balance command. 指定地址族不支持balance命令。	guidance.
Number of BGP ECMP routes exceeded theupper limit. 配置的等价条数超过产品所能配置的最大值。	Invalid configuration, please modify configuration under the guidance.
You must set all of the EBGP preference, IBGP preference, and LOCAL preference, or set none of them. EBGP preference、IBGP preference、LOCAL preference必须同时进行配置或取消配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support policy vpn-target command. 指定地址族不支持policy vpn-target命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support rr-filter command. 指定地址族不支持rr-filter命令。	Invalid configuration, please modify configuration under the guidance.
Cluster ID must be an IPv4 address or a number between 1 to 0xFFFFFFFF (notice that it must not be 0.0.0.0). Cluster ID必须是一个合法的IPv4地址或者32位无符号正整数(注意不能是0.0.0.0或者数字0)。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support default-route imported command. 指定的地址族不支持default-route imported命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the pic command. 指定的地址族不支持pic命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the balance as-path-neglect command. 指定的地址族不支持balance as-path-neglect命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the balance as-path-relax command. 指定的地址族不支持balance as-path-relax命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise l3vpn route command. 指定的地址族不支持advertise l3vpn route命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise l2vpn evpn command. 指定的地址族不支持advertise l2vpn evpn命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the import evpn mac-ip command. 指定的地址族不支持import evpn mac-ip命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the mapping-vni remove vpn-target command. 指定的地址族不支持mapping-vni remove vpn-target命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support	Invalid configuration, please modify configuration under the

advertise evpn route command. 指定的地址族不支持advertise evpn route命令。	guidance.
To configure replace-rt or advertise-policy, you must enable EVPN route advertisement for the VPNv4 or VPNv6 address family. 配置修改路由的RT或通过路由策略过滤BGP EVPN路由时需要配置允许BGP EVPN路由通过VPNv4或VPNv6地址族发布给邻居	Invalid configuration, please modify configuration under the guidance.
To configure replace-rt or advertise-policy, you must enable VPNv4 or VPNv6 route advertisement for the EVPN address family. 配置修改路由的RT或通过路由策略过滤BGP VPNv4或VPNv6路由时需要配置允许VPNv4或VPNv6路由通过EVPN地址族发布给邻居	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the additional-paths select-best command. 指定的地址族不支持additional-paths select-best命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-rib-active command. 指定的地址族不支持advertise-rib-active命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the bestroute origin-as-validation command. 指定的地址族不支持bestroute origin-as-validation命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the dampening command. 指定的地址族不支持dampening命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the default med command. 指定的地址族不支持default med命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the fast-reroute route-policy command. 指定的地址族不支持fast-reroute route-policy命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy export command. 指定的地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy import command. 指定的地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the log-route-flap command. 指定的地址族不支持log-route-flap命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the mvpn-advertise-rt-import command. 指定的地址族不支持mvpn-advertise-rt-import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the nesting-vpn command.	Invalid configuration, please modify configuration under the guidance.

指定的地址族不支持nesting-vpn命令。	
The specified address family doesn't support the summary automatic command. 指定的地址族不支持summary automatic命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the update-first route-policy command. 指定的地址族不支持update-first route-policy命令。	Invalid configuration, please modify configuration under the guidance.
ACL name must start with a letter and can not be 'all'. ACL名称必须以英文字母开头，且不允许使用英文单词all。	Invalid configuration, please modify configuration under the guidance.
The value of Ceiling must be greater than the value of Suppress. Ceiling的值必须比Suppress的值大。	Invalid configuration, please modify configuration under the guidance.
The value of Suppress must be greater than the value of Reuse. Suppress的值必须比Reuse的值大。	Invalid configuration, please modify configuration under the guidance.
Before you set the HalfLifeReach, HalfLifeUnReach, Reuse, Suppresss, Ceiling or DampRtPolicyName, DampeningEnable must be enabled first. 配置HalfLifeReach、HalfLifeUnReach、Reuse、Suppresss、Ceiling和DampRtPolicyName时，DampeningEnable必须先使能。	Invalid configuration, please modify configuration under the guidance.
The value of Suppress must be greater than the value of Reuse. Suppress的值必须比Reuse的值大。	Invalid configuration, please modify configuration under the guidance.
The value of Ceiling must be greater than the value of Suppress. Ceiling的值必须比Suppress的值大。	Invalid configuration, please modify configuration under the guidance.
You must set all of the HalfLifeReach, HalfLifeUnReach, Reuse, Suppresss, and Ceiling, or set none of them. HalfLifeReach、HalfLifeUnReach、Reuse、Suppresss和Ceiling必须同时配置或者不配置。	Invalid configuration, please modify configuration under the guidance.
The routing-table bgp-rib-only and advertise-rib-active commands are mutually exclusive. routing-table bgp-rib-only命令和advertise-rib-active命令不能同时配置	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the routing-table bgp-rib-only command. 指定的地址族不支持routing-table bgp-rib-only命令	Invalid configuration, please modify configuration under the guidance.
Cannot specify the RoutingtableBgpRibOnlyPolicy field when the feature is disabled. 关闭功能时，不允许指定RoutingtableBgpRibOnlyPolicy字段	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the	Invalid configuration, please modify configuration under the

user-move fast-update command. 指定的地址族不支持user-move fast-update命令。	guidance.
The specified address family does not support the forwarding-conversational-learning command. 指定的地址族不支持forwarding-conversational-learning命令。	Invalid configuration, please modify configuration under the guidance.
Before you set the ForwardConverLearningPolicy, ForwardConverLearningEnable must be enabled first. 配置ForwardConverLearningPolicy时，ForwardConverLearningEnable必须先使能。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the balance as-path-relax command. 指定的地址族不支持balance as-path-relax命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the default med command. 指定地址族不支持default med命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the apply-label per-route pop-go command. 指定的地址族不支持apply-label per-route pop-go命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the nexthop recursive-lookup longest-match command. 指定的地址族不支持nexthop recursive-lookup longest-match命令。	Invalid configuration. Please edit the configuration based on the guide.
The NexthopRecursiveLongestMatchPolicy attribute column cannot be specified when the NexthopRecursiveLongestMatchEnable attribute is 0. 当NexthopRecursiveLongestMatchEnable属性值为0时，不能指定NexthopRecursiveLongestMatchPolicy属性列。	Invalid configuration. Please edit the configuration based on the guide.
The specified address family doesn't support the nexthop exclude link-local address command. 指定地址族不支持nexthop exclude link-local address命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the advertise route-reoriginate command. 指定的地址族不支持advertise route-reoriginate命令。	Invalid configuration, please modify configuration under the guidance.
AdvRtReoriginatePolicy can not be configured before you enable AdvRtReoriginate. AdvRtReoriginate未使能，不允许配置AdvRtReoriginatePolicy。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the srv6-mpls-interworking enable command. 指定的地址族不支持srv6-mpls-interworking enable命令。	Invalid configuration, please modify configuration under the guidance.

The specified address family doesn't support the balance igp-metric-ignore command. 指定地址族不支持balance igp-metric-ignore命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the igp-metric inherit command. 指定地址族不支持igp-metric inherit命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the bier enable command. 指定地址族不支持bier enable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the bier bfr-prefix proxy command. 指定地址族不支持bier bfr-prefix proxy命令。	Invalid configuration, please modify configuration under the guidance.
BIER is not enabled in the current address family, the configuration will not take effect. 当前地址族未使能BIER能力，配置不会生效。	Invalid configuration, please enable BIER before current configuration.
The import-bier is configured and bier cannot be undo enable. 已配置import-bier命令，不能去使能BIER能力.	Invalid configuration, please delete the *import-bier* configuration before current configuration.
The peer capability bier is configured and bier cannot be undo enable. 已配置peer capability bier命令，不能去使能BIER能力.	Invalid configuration, please delete the *peer capability bier* configuration before current configuration.
The bier bfr-prefix proxy is configured and bier cannot be undo enable. 已配置bier bfr-prefix proxy命令，不能去使能BIER能力.	Invalid configuration, please delete the *bier bfr-prefix proxy* configuration before current configuration.
The specified address family doesn't support the segment-routing ipv6 locator command. 指定地址族不支持segment-routing ipv6 locator命令.	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the segment-routing ipv6 TE/BE command. 指定地址族不支持segment-routing ipv6 TE/BE命令.	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the segment-routing ipv6 locator evpn command. 指定地址族不支持segment-routing ipv6 locator evpn命令.	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the segment-routing ipv6 TE/BE evpn command. 指定地址族不支持segment-routing ipv6 TE/BE evpn命令.	Invalid configuration, please modify configuration under the guidance.
Can't configure both segment-routing ipv6 best-effort and segment-routing ipv6 traffic-engineering at the same time. segment-routing ipv6 best-effort命令和segment-routing ipv6 traffic-engineering命令不能同时配置.	Invalid configuration, please modify configuration under the guidance.

The UpdateInterval and UpdateIntervalIntelligent columns cannot be configured together. UpdateInterval 和 UpdateIntervalIntelligent不能一起配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support role reflect-client or role reflector command. 指定地址族不支持role reflect-client、role reflector命令。	Invalid configuration, please modify configuration under the guidance.
The peer reflect-client command is mutually exclusive with role reflect-client command. Peer reflect-client命令和role reflect-client命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the bestroute ipv6-nexthop. 指定地址族不支持bestroute ipv6-nexthop。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the unicast-route recursive-lookup tunnel. 指定地址族不支持unicast-route recursive-lookup tunnel。	Invalid configuration, please modify configuration under the guidance.
If PrefixList and TunnelPolicy is specified, RecursiveEnable must be ‘1’. 如果指定PrefixList或TunnelPolicy，RecursiveEnable必须为’1’。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, PrefixList and TunnelPolicy cannot be specified. 当操作类型是delete或remove时，不能指定PrefixList或TunnelPolicy。	Invalid configuration, please modify configuration under the guidance.
The SendLowPriorityPeerupDelayTime and SendLowPriorityOnStartupTime can not be configured together. SendLowPriorityPeerupDelayTime和SendLowPriorityOnStartupTime不能一起配置。	Invalid configuration, please modify configuration under the guidance.s
The specified address family doesn't support the advertise lowest-priority peer-up delay command. 指定地址族不支持advertise lowest-priority peer-up delay命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise lowest-priority on-startup command. 指定地址族不支持advertise lowest-priority on-startup命令。	Invalid configuration, please modify configuration under the guidance.
The advertise lowest-priority peer-up delay command is mutually exclusive with the advertise lowest-priority on-startup command. advertise lowest-priority peer-up delay命令与advertise lowest-priority on-startup命令互斥。	Invalid configuration, please modify configuration under the guidance.
The Layer 2 ACL number range is 4000 to 4999. 二层ACL编号取值范围为4000-4999。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the nexthop recursive-lookup default-route ignore	Invalid configuration. Please edit the configuration based on the guide.

command. 指定的地址族不支持nexthop recursive-lookup default-route ignore命令。	
The IgnoreRtPolicyName attribute column cannot be specified when the Ignore attribute is 0. 当Ignore属性值为0时，不能指定IgnoreRtPolicyName属性列。	Invalid configuration. Please edit the configuration based on the guide.
The specified address family doesn’t support the nexthop recursive-lookup tunnel-backup command. 指定地址族不支持nexthop recursive-lookup tunnel-backup命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the nexthop recursive-lookup tunnel-backup evpn command. 指定地址族不支持nexthop recursive-lookup tunnel-backup evpn命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the evpn-sdwan nexthop-recursive priority-color-only command. 指定的地址族不支持evpn-sdwan nexthop-recursive priority-color-only命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support nexthop recursive-lookup route-policy command. 指定地址族不支持nexthop recursive-lookup route-policy命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise srv6 locator command. 指定地址族不支持advertise srv6 locator命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the route-select suppress on-peer-up command. 指定地址族不支持route-select suppress on-peer-up命令。	Invalid configuration, please modify configuration under the guidance.
The route calculation delay time specified with the route-select suppress on-peer-up command must be in the range of 100 to 600000 milliseconds. The specified value must be an integer multiple of 100, for example, 200 or 1000. 邻居建立的延迟优选时间必须在100毫秒到600000毫秒之间，并且必须是100的整数倍，例如200或者1000。	Invalid configuration, please modify configuration under the guidance.

BGP/Networks

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.

AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
IPv4 address mask length can't be greater than 32. IPv4地址的掩码长度不能超过32。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the network command. 指定地址族不支持network命令。	Invalid configuration, please modify configuration under the guidance.

BGP/Aggregates

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
IPv4 address mask length can't be greater than 32. IPv4地址的掩码长度不能超过32。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the aggregate command. 指定地址族不支持aggregate命令。	Invalid configuration, please modify configuration under the guidance.

BGP/NeighborGroups

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.
EBGP peergroups do not support reflection configuration. EBGP对等体组不能配置反射	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflicts with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command. 指定地址族不支持reflect-client命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-local command。 指定地址族不支持next-hop-local命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.

The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command. 指定地址族不支持allow-as-loop命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-limit command. 指定地址族不支持route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid peer group name. 组名称不合法。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-vpn command. 指定地址族不支持next-hop-vpn命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-ext-community command. 指定地址族不支持advertise-ext-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths receive command. 指定地址族不支持additional-paths receive命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths send command. 指定地址族不支持additional-paths send命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise additional-paths best command. 指定地址族不支持additional-paths best命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the default-route-advertise command. 指定地址族不支持default-route-advertise命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the default-route-advertise conditional-policy command. 指定地址族不支持default-route-advertise conditional-policy命令。	Invalid configuration, please modify configuration under the guidance.
Before You set the RoutePlcy, DefRouteAdv must be enable first. 配置RoutePlcy时，DefRouteAdv必须使能。	Invalid configuration, please modify configuration under the guidance.
Before You set the ConditionalPolicy, DefRouteAdv must be enable first.	Invalid configuration, please modify configuration under the guidance.

配置ConditioanalPolicy时，DefRouteAdv必须使能。	
When the operation is delete or remove, the route-policy is not allowed to be set. 当执行delete或remove操作时，不允许指定route-policy。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the conditional-policy is not allowed to be set. 当执行delete或remove操作时，不允许指定conditional-policy。	Invalid configuration, please modify configuration under the guidance.
Route policy name and VPN instance name can't be configured at the same time. Route policy name和vpn instance name不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid default-route-advertise value. 指定的default-route-advertise值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the keep-all-routes command. 指定地址族不支持keep-all-routes命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the label-route-capability command. 指定地址族不支持label-route-capability命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the prefix-list export command. 指定地址族不支持prefix-list export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the prefix-list import command. 指定地址族不支持prefix-list import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the public-as-only command. 指定地址族不支持public-as-only命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the soo command. 指定地址族不支持soo命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy export command. 指定地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy import command. 指定地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise origin-as-validation command. 指定地址族不支持advertise origin-as-validation命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the capability-advertise orf prefix-list command. 指定地址族不支持capability-advertise orf prefix-list命令。	Invalid configuration, please modify configuration under the guidance.

The specified address family doesn’t support the signaling command. 指定地址族不支持signaling命令。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling non-standard value. 指定的signaling non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling value. 指定的signaling值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe command. 指定地址族不支持upe命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe route-policy command. 指定地址族不支持upe route-policy命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the auto-discovery command. 指定地址族不支持auto-discovery命令。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery non-standard value. 指定的auto-discovery non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery value. 指定的auto-discovery值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid site-of-origin. site-of-origin格式不合法。	Invalid configuration, please modify configuration under the guidance.
AdvAddPathsBest must be in the range of 2 to 64. AdvAddPathsBest的取值范围为2~64。	Invalid configuration, please modify configuration under the guidance.
To configure DiscNonStd, you must set DiscEnable first. 在配置SigNonStd之前必须先配置SigEnable。	Invalid configuration, please modify configuration under the guidance.
DiscNonStd can be 1 only when DiscEnable is 1. 只有在DiscEnable为1时，DiscNonStd才能为1。	Invalid configuration, please modify configuration under the guidance.
SigNonStd can be 1 only when SigEnable is 1. 只有在SigEnable为1时，SigNonStd才能为1。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the re-originate command. 指定地址族不支持re-originate命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-mac command. 指定地址族不支持re-originate-mac命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the adv-original-route command. 指定地址族不支持adv-original-route命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress-re-orig-prefix command. 指定地址族不支持suppress-re-orig-prefix命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the	Invalid configuration. Please modify configuration under the

suppress-re-orig-mac command. 指定地址族不支持suppress-re-orig-mac命令。	guidance.
The specified address family doesn't support the re-originate-smet command. 指定地址族不支持re-originate-smet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-spmsi command. 指定地址族不支持re-originate-spmsi命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress-re-orig-imet command. 指定地址族不支持suppress-re-orig-imet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originated vpn command. 指定地址族不支持re-originated vpn命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress re-originated command. 指定地址族不支持suppress re-originated命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family does not support the advertise encap-type sd-wan command. 指定地址族不支持advertise encap-type sd-wan命令。	Invalid configuration. Please edit the configuration by following the guidance.
The specified address family doesn't support the suppress route-server-client command. 指定地址族不支持route-server-client命令。	Invalid configuration. Please modify configuration under the guidance.
Route-server-client conflicts with label-route-capability. Route-server-client命令和label-route-capability命令存在冲突，不能同时配置。	Invalid configuration. Please modify configuration under the guidance.
Route-server-client conflicts with confederation id, confederation peer-as, confederation nonstandard. Route-server-client命令和confederation id、confederation peer-as及 confederation nonstandard命令存在冲突，不能同时配。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the peer capability bier command. 指定地址族不支持peer capability bier命令。	Invalid configuration. Please edit the configuration by following the guidance.
BIER is not enabled in the current address family, the configuration will not take effect. 当前地址族未使能BIER能力，配置不会生效。	Invalid configuration, please enable BIER before current configuration.
The specified address family doesn't support the default-route-advertise route-policy command. 指定地址族不支持default-route-advertise route-policy命令。	Invalid configuration, please enable BIER before current configuration.
The number range of Layer 2 ACL is 4000 to 4999. 二层ACL编号取值范围为4000-4999。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the macip-route-limit command.	Invalid configuration, please modify configuration under the guidance.

指定地址族不支持macip-route-limit命令。	
Invalid MAC/IP advertisement route count limit. MAC/IP路由数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect cannot be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Route-limit, Macip-route-limit cannot be configured at the same time. Route-limit、 Macip-route-limit 不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the srv6-vpn compatible command. 指定地址族不支持srv6-vpn compatible命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originated mac command. 指定地址族不支持re-originated mac命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route auto-discovery command. 指定地址族不支持suppress original-route auto-discovery命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route imet command. 指定地址族不支持suppress original-route imet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route es command. 指定地址族不支持suppress original-route es命令。	Invalid configuration. Please modify configuration under the guidance.
Before you set BandwidthValue, Bandwidth must be enabled first. 配置BandwidthValue时，Bandwidth必须使能。	Invalid configuration. Please modify configuration under the guidance.

BGP/Neighbors

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured.	Invalid configuration, please modify configuration under the

该VPN没有配置。	guidance.
The specified neighbor can't be enabled in the current address family. 指定的会话在该实例下不能使能。	Invalid configuration, please modify configuration under the guidance.
The specified peer doesn't exist. 指定的对等体会话不存在。	Invalid configuration, please modify configuration under the guidance.
EBGP peers do not support reflection configuration. EBGP邻居不能配置反射	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflicts with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command. 指定地址族不支持reflect-client命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-local command。 指定地址族不支持next-hop-local命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command. 指定地址族不支持allow-as-loop命令。	Invalid configuration, please modify configuration under the guidance.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the	Invalid configuration, please modify configuration under the

route-limit command. 指定地址族不支持route-limit命令。	guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-vpn command. 指定地址族不支持next-hop-vpn命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-ext-community command. 指定地址族不支持advertise-ext-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths receive command. 指定地址族不支持additional-paths receive命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths send command. 指定地址族不支持additional-paths send命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise additional-paths best command. 指定地址族不支持additional-paths best命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the default-route-advertise command. 指定地址族不支持default-route-advertise命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the default-route-advertise conditional-policy command. 指定地址族不支持default-route-advertise conditional-policy命令。	Invalid configuration, please modify configuration under the guidance.
Before You set the RoutePlcy, DefRouteAdv must be enable first. 配置RoutePlcy时，DefRouteAdv必须使能。	Invalid configuration, please modify configuration under the guidance.
Before You set the ConditionalPolicy, DefRouteAdv must be enable first. 配置ConditioanalPolicy时，DefRouteAdv必须使能。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the route-policy is not allowed to be set. 当执行delete或remove操作时，不允许指定route-policy。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the conditional-policy is not allowed to be set. 当执行delete或remove操作时，不允许指定conditional-policy。	Invalid configuration, please modify configuration under the guidance.
Route policy name and VPN instance name can’t be configured at the same time. Route policy name和VPN instance name不能同时	Invalid configuration, please modify configuration under the guidance.

配置。	
Invalid default-route-advertise value. 指定的default-route-advertise值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the keep-all-routes command. 指定地址族不支持keep-all-routes命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the label-route-capability command. 指定地址族不支持label-route-capability命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the prefix-list export command. 指定地址族不支持prefix-list export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the prefix-list import command. 指定地址族不支持prefix-list import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the public-as-only command. 指定地址族不支持public-as-only命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the soo command. 指定地址族不支持soo命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy export command. 指定地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy import command. 指定地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise origin-as-validation command. 指定地址族不支持advertise origin-as-validation命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the capability-advertise orf prefix-list command. 指定地址族不支持capability-advertise orf prefix-list命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the signaling command. 指定地址族不支持signaling命令。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling non-standard value. 指定的signaling non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling value. 指定的signaling值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe command. 指定地址族不支持upe命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the	Invalid configuration, please modify configuration under the

upe route-policy command. 指定地址族不支持upe route-policy命令。	guidance.
The specified address family doesn’t support the auto-discovery command. 指定地址族不支持auto-discovery命令。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery non-standard value. 指定的auto-discovery non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery value. 指定的auto-discovery值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified peers don't exist. 指定的对等体不存在。	The specified peers don't exist.
When the operation is delete or remove, the RoutePlcy is not allowed to be set. 当delete或remove操作时，不允许指定RoutePlcy。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the re-originate command. 指定地址族不支持re-originate命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-mac command. 指定地址族不支持re-originate-mac命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-imet command. 指定地址族不支持re-originate-imet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the adv-original-route command. 指定地址族不支持adv-original-route命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress-re-orig-prefix command. 指定地址族不支持suppress-re-orig-prefix命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress-re-orig-mac command. 指定地址族不支持suppress-re-orig-mac命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress-re-orig-imet command. 指定地址族不支持suppress-re-orig-imet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-smet command. 指定地址族不支持re-originate-smet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originate-spmsi command. 指定地址族不支持re-originate-spmsi命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the re-originated vpn command. 指定地址族不支持re-originated vpn命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the	Invalid configuration. Please modify configuration under the

suppress re-originated command. 指定地址族不支持suppress re-originated命令。	guidance.
The specified address family does not support the advertise encap-type sd-wan command. 指定地址族不支持advertise encap-type sd-wan命令。	Invalid configuration. Please edit the configuration by following the guidance.
The specified address family doesn't support the suppress route-server-client command. 指定地址族不支持route-server-client命令。	Invalid configuration. Please modify configuration under the guidance.
Route-server-client conflicts with label-route-capability. Route-server-client命令和label-route-capability命令存在冲突，不能同时配置。	Invalid configuration. Please modify configuration under the guidance.
Route-server-client conflicts with confederation id, confederation peer-as, confederation nonstandard. Route-server-client命令和confederation id、confederation peer-as及confederation nonstandard命令存在冲突，不能同时配。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the peer capability bier command. 指定地址族不支持peer capability bier命令。	Invalid configuration. Please edit the configuration by following the guidance.
BIER is not enabled in the current address family, the configuration will not take effect. 当前地址族未使能BIER能力，配置不会生效。	Invalid configuration, please enable BIER before current configuration.
IPv4 peers don't support the srv6-vpn compatible command. IPv4对等体不支持srv6-vpn compatible命令。	Invalid configuration, please enable BIER before current configuration.
The specified address family doesn't support the default-route-advertise route-policy command. 指定地址族不支持default-route-advertise route-policy命令。	Invalid configuration, please enable BIER before current configuration.
The number range of Layer 2 ACL is 4000 to 4999. 二层ACL编号取值范围为4000-4999。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the macip-route-limit command. 指定地址族不支持macip-route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid MAC/IP advertisement route count limit. MAC/IP路由数目配置错误	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect cannot be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Route-limit, Macip-route-limit cannot be configured at the same time. Route-limit、 Macip-route-limit 不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the srv6-vpn compatible command. 指定地址族不支持srv6-vpn compatible命令。	Invalid configuration. Please modify configuration under the guidance.

The specified address family doesn't support the re-originated mac command. 指定地址族不支持re-originated mac命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route auto-discovery command. 指定地址族不支持suppress original-route auto-discovery命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route imet command. 指定地址族不支持suppress original-route imet命令。	Invalid configuration. Please modify configuration under the guidance.
The specified address family doesn't support the suppress original-route es command. 指定地址族不支持suppress original-route es命令。	Invalid configuration. Please modify configuration under the guidance.
Before you set BandwidthValue, Bandwidth must be enabled first. 配置BandwidthValue时，Bandwidth必须使能。	Invalid configuration. Please modify configuration under the guidance.

BGP/Redistributes

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the import-route command. 指定地址族不支持import-route命令。	Invalid configuration, please modify configuration under the guidance.
You cannot specify a process ID when you redistribute direct, static, UNR or Local-aggregate routes. 引入协议为直连 、静态、UNR或者Local-aggregate时，协议进程号必须为空。	Invalid configuration, please modify configuration under the guidance.
You cannot specify a process ID when you redistribute direct, static, or UNR routes. 引入协议为直连 、静态或者UNR时，协议进程号必须为空。	Invalid configuration, please modify configuration under the guidance.

Invalid RIP, OSPF, or IS-IS process ID. Please specify a process ID in the range of 1 to 65535, or specify the all-processes keyword to redistribute routes from all processes of the specified protocol. 非法的RIP、OSPF或ISIS路由协议进程号，请指定1~65535之间的协议进程号或指定all-processes参数来引入指定路由协议中所有进程的路由。	Invalid configuration, please modify configuration under the guidance.
Invalid EIGRP process ID. Please specify a process ID in the range of 1 to 65535, or specify the all-as keyword to redistribute routes from all EIGRP processes. EIGRP路由协议的进程号非法，请指定1~65535之间的协议进程号或指定all-as参数引入指定路由协议所有进程的路由。	Invalid configuration, please modify configuration under the guidance.
When the protocol is direct or static, allow-direct can not be configured. 引入协议为direct或者static时，不能配置allow-direct。	Invalid configuration, please modify configuration under the guidance.
When the protocol is Local-aggregate, allow-direct and med can not be configured. 引入协议为Local-aggregate时，不能配置allow-direct 和 med。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the import-route local-aggregate command. 指定地址族不支持import-route local-aggregate命令。	Invalid configuration, please modify configuration under the guidance.

BGP/RedistributesAppend

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted, when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the import-route command. 指定地址族不支持import-route命令。	Invalid configuration, please modify configuration under the guidance.
You cannot specify a process ID when you redistribute direct, static, or UNR routes. 引入协议为直连、静态或者UNR时，协议进程号必	Invalid configuration, please modify configuration under the guidance.

须为空。	
Invalid RIP, OSPF, or IS-IS process ID. Please specify a process ID in the range of 1 to 65535, or specify the all-processes keyword to redistribute routes from all processes of the specified protocol. 非法的RIP、OSPF或ISIS路由协议进程号，请指定1~65535之间的协议进程号或指定all-processes参数来引入指定路由协议中所有进程的路由。	Invalid configuration, please modify configuration under the guidance.
Invalid EIGRP process ID. Please specify a process ID in the range of 1 to 65535, or specify the all-as keyword to redistribute routes from all EIGRP processes. EIGRP路由协议的进程号非法，请指定1~65535之间的协议进程号或指定all-as参数引入指定路由协议所有进程的路由。	Invalid configuration, please modify configuration under the guidance.
When the protocol is direct or static, allow-direct can not be configured. 引入协议为direct或者static时，不能配置allow-direct。	Invalid configuration, please modify configuration under the guidance.

BGP/BMPs

Message	Explanation
Invalid InterfaceName. 无效的接口名。	Invalid configuration, please modify configuration under the guidance.
The BMP server doesn't exist. BMP Server不存在。	The BMP server doesn't exist.
Another BMP server has the same IP address and port number. 其他BMP服务器已有相同的IP地址和端口号。	Another BMP server has the same IP address and port number.
The all-vpn-instance and vpn-instance parameters are mutually exclusive. all-vpn-instance参数和vpn-instance参数不能同时配置。	The all-vpn-instance and vpn-instance parameters are mutually exclusive.

BGP/Rpkis

Message	Explanation
RPKI process is being deleted. please try again later. 正在删除RPKI进程，请稍后重试。	The specified RPKI is being deleted.
The specified RPKI server is being deleted. Please try again later. 正在删除指定的RPKI服务器，请稍后重试。	The specified RPKI Server is being deleted.
Can not configure before enabling RPKI. 使能RPKI前不能进行配置。	Can not configure before enabling RPKI.

The exceed action 'disconnect and reconnect' and the reconnect time must be configured at the same time. ReconnectTime 必须和"disconnect and reconnect"类型的 ExceedAction 同时配置。	Invalid configuration, please modify configuration under the guidance.
To configure ExceedAction, you must configure Number at the same time. 配置ExceedAction或RconnectTime，必须同时配置Number。	Invalid configuration, please modify configuration under the guidance.

BGP/Resets

Message	Explanation
The configuration does not match the specified type. 配置信息与指定的Type不符。	Invalid configuration, please modify configuration under the guidance.
Mask can not be set without IpAddress. 配置掩码前必须先配置IP地址。	Invalid configuration, please modify configuration under the guidance.
The VPN instance cannot be set with specified type and family . 在当前Type和Family下，不能配置VPN。	Invalid configuration, please modify configuration under the guidance.
The specified type and family do not match. 指定的Type与Family不匹配。	Invalid configuration, please modify configuration under the guidance.

BGP/Refreshs

Message	Explanation
The specified type does not support the configuration of the IP address. 指定的TYPE不支持配置ip地址。	Invalid configuration, please modify configuration under the guidance.
The IP address does not exist. Ip地址不存在。	Invalid configuration, please modify configuration under the guidance.
The specified type does not support the configuration of the group name. 指定的TYPE不支持配置组名。	Invalid configuration, please modify configuration under the guidance.
The group name does not exist. 组名不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the configuration of the VPN instance name. 指定地址族不支持配置VPN实例名称。	Invalid configuration, please modify configuration under the guidance.
Peers are being deleted. try again later. 对等体正在被删除，稍等再试。	Invalid configuration, please modify configuration under the guidance.
Invalid mask value. Mask取值错误。	Invalid configuration, please modify configuration under the guidance.

BGP/FilterPolicyExports

Message	Explanation
You can only set one of acl-number, acl-name and prefix-list-name at the same time. 每次只能配置acl-number、acl-name、prefix-list-name中的一个。	Invalid configuration, please modify configuration under the guidance.
You cannot specify process-id when protocol is direct or static, or not set. 引入协议为static或者direct时，process-id必须为空。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy export command.. 指定地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the filter-policy import command. 指定地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family does not support the configuration of the VPN instance name. 当不指定协议，或引入协议为static或者direct时，process-id必须为空。	Invalid configuration, please modify configuration under the guidance.
When protocol is isis/isisv6, ospf/ospfv3, rip/ripng, the process-id must not be null. Protocol为isis/isisv6、ospf/ospfv3、rip/ripng时，process-id不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, acl-number, acl-name and prefix-list-name are not allowed to be set. 当delete或remove操作时，不允许指定acl-number、acl-name、prefix-list-name。	Invalid configuration, please modify configuration under the guidance.
The protocol is invalid in the address family. 该地址族不支持指定的协议。	Invalid configuration, please modify configuration under the guidance.
The Layer 2 ACL number range is 4000 to 4999. 二层ACL编号取值范围为4000-4999。	Invalid configuration, please modify configuration under the guidance.
You cannot configure any of the ProtocolExp and ProcessIDExp columns if the AclNumExp or AclNameExp column has been configured for the specified address family 当指定地址族配置AclNumExp或AclNameExp列时，ProtocolExp和ProcessIDExp列必须为空。	Invalid configuration, please modify configuration under the guidance.

BGP/PeerDefRtAdvVpnInsts

Message	Explanation
The peer default-route-advertise vpn-instance command can only be configured in the VPNv4 address family of the public network.	Invalid configuration, please modify configuration under the guidance.

Peer default-route-advertise vpn-instance命令只能在公网的VPNv4地址族下配置。	

BGP/LinklocalIfCfgSessions

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
An AS number is required for the BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
The session already exists. The AS number can't be changed. 会话已存在，不允许修改会话的AS号。	Configuration already exists when you set new configuration.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
The interface name is invalid, or the interface failed RBAC check. 接口名称非法或者无法通过RBAC检查。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge, or replace, the AS number must not be null. Create、merge、replace操作时，AS号不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, you cannot set the AS number column. Delete、remove操作时，不能指定AS号。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid plaintext password length.	Invalid configuration, please modify configuration under the

明文密码长度不合法。	guidance.
Invalid ciphertext password length. 密文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
BFD not supported. 不支持BFD	BFD service has not been started.
Only EBGP peers support the configuration. 仅EBGP邻居支持本配置。	Only EBGP peers support the configuration.
When enabling dual-as, prepend-global-as, or prepend-fake-as, you must specify the fake AS number. 配置dual-as、prepend-global-as、prepend-fake-as使能时，fake-as不能为空。	Invalid configuration, please modify configuration under the guidance.
Invalid fake AS number. 指定的fake-as无效。	Invalid configuration, please modify configuration under the guidance.
The peers belong to another peer group. 指定对等体已经加入其它对等体组。	Invalid configuration, please modify configuration under the guidance.
EBGP peers don’t exist. EBGP对等体不存在。	Invalid configuration, please modify configuration under the guidance.
The ORIGINATOR_ID attribute is not supported by EBGP peers. ORIGINATOR_ID属性不适用于EBGP对等体。	Invalid configuration, please modify configuration under the guidance.
IPv4 does not support the use of IPsec policies. IPv4不支持使用Ipsec策略。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
The specified address is not a link-local address. 该指定地址不是link-local地址。	Invalid configuration, please modify configuration under the guidance.
Can’t add IBGP peers to an EBGP group. 不能将IBGP对等体加入到EBGP对等体组中	Invalid configuration, please modify configuration under the guidance.
Can’t add EBGP peers to an IBGP group. 不能将EBGP对等体加入到IBGP对等体组中	Invalid configuration, please modify configuration under the guidance.

BGP/LinklocalIfNeighbors

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when performing new configuration.
An AS number is required for the BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist.	Invalid configuration, please modify configuration under the guidance.

该VPN不存在。	
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN instance is being deleted when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified neighbor can't be enabled in the current address family. 指定的会话在该实例下不能使能。	Invalid configuration, please modify configuration under the guidance.
The specified peer doesn't exist. 指定的对等体会话不存在。	Invalid configuration, please modify configuration under the guidance.
EBGP peers do not support reflecttion configuration. EBGP邻居不能配置反射	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflicts with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command. 指定地址族不支持reflect-client命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-local command。 指定地址族不支持next-hop-local命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command.	Invalid configuration, please modify configuration under the guidance.

指定地址族不支持allow-as-loop命令。	
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-limit command. 指定地址族不支持route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, and Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-vpn command. 指定地址族不支持next-hop-vpn命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-ext-community command. 指定地址族不支持advertise-ext-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths receive command. 指定地址族不支持additional-paths receive命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths send command. 指定地址族不支持additional-paths send命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise additional-paths best command. 指定地址族不支持additional-paths best命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the default-route-advertise command. 指定地址族不支持default-route-advertise命令。	Invalid configuration, please modify configuration under the guidance.
Route policy name and VPN instance name can’t be configured at the same time. Route policy name和vpn instance name不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid default-route-advertise value. 指定的default-route-advertise值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the keep-all-routes command. 指定地址族不支持keep-all-routes命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the label-route-capability command. 指定地址族不支持label-route-capability命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the prefix-list export command. 指定地址族不支持prefix-list export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the	Invalid configuration, please modify configuration under the

prefix-list import command. 指定地址族不支持prefix-list import命令。	guidance.
The specified address family doesn’t support the public-as-only command. 指定地址族不支持public-as-only命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the soo command. 指定地址族不支持soo命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy export command. 指定地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy import command. 指定地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise origin-as-validation command. 指定地址族不支持advertise origin-as-validation命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the capability-advertise orf prefix-list command. 指定地址族不支持capability-advertise orf prefix-list命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the signaling command. 指定地址族不支持signaling命令。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling non-standard value. 指定的signaling non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling value. 指定的signaling值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe command. 指定地址族不支持upe命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe route-policy command. 指定地址族不支持upe route-policy命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the auto-discovery command. 指定地址族不支持auto-discovery命令。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery non-standard value. 指定的auto-discovery non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery value. 指定的auto-discovery值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified peers don't exist. 指定的对等体不存在。	The specified peers don't exist.
When the operation is delete or remove, the	Invalid configuration, please modify configuration under the

route-policy is not allowed to be set. 当delete或remove操作时，不允许指定route-policy。	guidance.
The specified address family doesn’t support the interface enable command. 指定地址族不支持interface enable 命令。	Invalid configuration, please modify configuration under the guidance.
The specified address is not a link-local address. 该指定地址不是link-local地址。	Invalid configuration, please modify configuration under the guidance.
The specified peers already exist. 指定的对等已存在。	The specified peers already exist.

BGP/InterfaceCfgSessions

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
An AS number is required for the BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN is being deleted when you replace or delete it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VRF instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
The session already exists. The AS number can't be changed. 会话已存在，不允许修改会话的AS号。	Configuration already exists, when you set new configuration.
The interface name is invalid, or the interface failed RBAC check. 接口名称非法或者无法通过RBAC检查。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge, or replace, the AS number must not be null. Create、merge、replace操作时，AS号不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, cannot set the ASNumber column. Delete、remove操作时，不能指定AS号。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface does not belong to the VPN instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.

PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid plaintext password length. 明文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password length. 密文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
BFD not supported. 不支持BFD	BFD service has not been started.
Only EBGP peers support the configuration. 仅EBGP邻居支持本配置。	Only EBGP peers support the configuration.
When enabling dual-as, prepend-global-as, or prepend-fake-as, you must specify the fake AS number. 配置dual-as、prepend-global-as、prepend-fake-as使能时，fake-as不能为空。	Invalid configuration, please modify configuration under the guidance.
Invalid fake AS number. 指定的fake-as无效。	Invalid configuration, please modify configuration under the guidance.
The peers belong to another peer group. 指定对等体已经加入其它对等体组。	Invalid configuration, please modify configuration under the guidance.
EBGP peers don’t exist. EBGP对等体不存在。	Invalid configuration, please modify configuration under the guidance.
The ORIGINATOR_ID attribute is not supported by EBGP peers. ORIGINATOR_ID属性不适用于EBGP对等体。	Invalid configuration, please modify configuration under the guidance.
IPv4 does not support the use of IPsec policies. IPv4不支持使用Ipsec策略。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
Can’t add IBGP peers to an EBGP group. 不能将IBGP对等体加入到EBGP对等体组中	Invalid configuration, please modify configuration under the guidance.
Can’t add EBGP peers to an IBGP group. 不能将EBGP对等体加入到IBGP对等体组中	Invalid configuration, please modify configuration under the guidance.
The AS number of the peer must be the same as that of the peer group. 对等体的AS号应该和对等体组相同。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is in the range of 0 to 86400. Graceful Restart timer restart extra命令的time的取值范围为0~86400。	Invalid configuration, please modify configuration under the guidance.
Extra time of GR timer is invalid. Graceful Restart timer restart extra命令的参数错	Invalid configuration, please modify configuration under the guidance.

误。	

BGP/InterfaceNeighbors

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
An AS number is required for the BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VPN instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VPN instance is being deleted. 该VPN正在删除中。	The specified VPN is being deleted when replacing or deleting it.
The VPN instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified neighbor can't be enabled in the current address family. 指定的会话在该实例下不能使能。	Invalid configuration, please modify configuration under the guidance.
The specified peer doesn't exist. 指定的对等体会话不存在。	Invalid configuration, please modify configuration under the guidance.
EBGP peers do not support reflection configuration. EBGP邻居不能配置反射	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflicts with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command.	Invalid configuration, please modify configuration under the guidance.

指定地址族不支持reflect-client命令。	
The specified address family doesn't support the next-hop-local command。 指定地址族不支持next-hop-local命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command. 指定地址族不支持allow-as-loop命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-limit command. 指定地址族不支持route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, and Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-vpn command. 指定地址族不支持next-hop-vpn命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-ext-community command. 指定地址族不支持advertise-ext-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths receive command. 指定地址族不支持additional-paths receive命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the additional-paths send command. 指定地址族不支持additional-paths send命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise additional-paths best command. 指定地址族不支持additional-paths best命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the default-route-advertise command. 指定地址族不支持default-route-advertise命令。	Invalid configuration, please modify configuration under the guidance.
Route policy name and VPN instance name can’t be configured at the same time. Route policy name和vpn instance name不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid default-route-advertise value. 指定的default-route-advertise值不存在。	Invalid configuration, please modify configuration under the guidance.

The specified address family doesn’t support the keep-all-routes command. 指定地址族不支持keep-all-routes命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the label-route-capability command. 指定地址族不支持label-route-capability命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the prefix-list export command. 指定地址族不支持prefix-list export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the prefix-list import command. 指定地址族不支持prefix-list import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the public-as-only command. 指定地址族不支持public-as-only命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the soo command. 指定地址族不支持soo命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy export command. 指定地址族不支持filter-policy export命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the filter-policy import command. 指定地址族不支持filter-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the advertise origin-as-validation command. 指定地址族不支持advertise origin-as-validation命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the capability-advertise orf prefix-list command. 指定地址族不支持capability-advertise orf prefix-list命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the signaling command. 指定地址族不支持signaling命令。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling non-standard value. 指定的signaling non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid signaling value. 指定的signaling值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe command. 指定地址族不支持upe命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the upe route-policy command. 指定地址族不支持upe route-policy命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the	Invalid configuration, please modify configuration under the

auto-discovery command. 指定地址族不支持auto-discovery命令。	guidance.
Invalid auto-discovery non-standard value. 指定的auto-discovery non-standard值不存在。	Invalid configuration, please modify configuration under the guidance.
Invalid auto-discovery value. 指定的auto-discovery值不存在。	Invalid configuration, please modify configuration under the guidance.
The specified peers don't exist. 指定的对等体不存在。	The specified peers don't exist.
When the operation is delete or remove, the route-policy is not allowed to be set. 当delete或remove操作时，不允许指定route-policy。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn’t support the interface enable command. 指定地址族不支持interface enable 命令。	Invalid configuration, please modify configuration under the guidance.
The specified peers already exist. 指定的对等已存在。	The specified peers already exist.

BGP/RedistributesBier

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists when you set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The private VPN doesn't support the import-bier command. 私网VPN实例不支持import-bier命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support BIER. 指定地址族不支持BIER。	Invalid configuration, please modify configuration under the guidance.
Invalid RIP, OSPF, or IS-IS process ID. Please specify a process ID in the range of 1 to 65535, or specify the all-processes keyword to redistribute routes from all processes of the specified protocol. 非法的RIP、OSPF或ISIS路由协议进程号，请指定1~65535之间的协议进程号或指定all-processes参数来引入指定路由协议中所有进程的路由。	Invalid configuration, please modify configuration under the guidance.

Contents

BGP event stream 1
bgp-operations-to-controller event 1
XML structure for event subscription 1
XML structure for event report 1
bgp-report-route-to-controller event 2
XML structure for event subscription 2
XML structure for event report 3
bgp-report-sessionstate-to-controller event 4
XML structure for event subscription 4
XML structure for event report 5
bgp-report-status-to-controller event 6
XML structure for event subscription 6
XML structure for event report 7

BGP event stream

BGP stream description.

bgp-operations-to-controller event

This event is used to notice to controller the operation event of BGP protocol.

XML structure for event subscription

```
<bgp-operations-to-controller>
</bgp-operations-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp_stream</stream>
    <filter type="subtree">
      <bgp-operations-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
      </bgp-operations-to-controller>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-operations-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-operations-to-controller>
  <Operation>
    <OperationType></OperationType>
    <Name></Name>
  </Operation>
</bgp-operations-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <bgp-operations-to-controller xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
    <Operation>
      <OperationType>1</OperationType>
```

```
    <Name></Name>
   </Operation>
  </bgp-operations-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
OperationType	Operation type	Enumeration 1 – Notice controller smooth start 2 – Notice controller smooth end 3 – Notice controller the lipc disconnect 4 – Notice controller the lipc connect successfully	The operation type specifies the operation that BGP protocol should perform.
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.

bgp-report-route-to-controller event

This event is used to report BGP route to controller.

XML structure for event subscription

```
<bgp-report-route-to-controller>
</bgp-report-route-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp_stream</stream>
    <filter type="subtree">
      <bgp-report-route-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
      </bgp-report-route-to-controller>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-report-route-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-report-route-to-controller>
  <ReportRoute>
    <Name></Name>
    <VRF></VRF>
    <OperationType></OperationType>
    <RouteType></RouteType>
    <RouteKey></RouteKey>
    <RouteSegment></RouteSegment>
    <RouteAttr></RouteAttr>
  </ReportRoute>
</bgp-report-route-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <bgp-report-route-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
    <ReportRoute>
      <Name></Name>
      <VRF></VRF>
      <OperationType>1</OperationType>
      <RouteType>9</RouteType>
      <RouteKey></RouteKey>
      <RouteSegment>ACcCJQAAAAEAAAPoAAAAAAAAAAAAAAAAAAAAwAAwpo3rjIEQCAg+</RouteSegment>
      <RouteAttr>AgAGAgEAAADI</RouteAttr>
      <RouteAttr>AwAEYgAIRA==</RouteAttr>
      <RouteAttr>CAAEAAEA/w==</RouteAttr>
    </ReportRoute>
  </bgp-report-route-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OperationType	Operation type	Enumeration 1 – Add 2 – Delete	The operation type specifies the operation that BGP protocol should perform.
RouteType	Type of route	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—EVPN • 10—Link-State • 11—EVPN with pathid	
RouteKey	Key of route	Binary. Length: 0 to 128 characters.	An empty string indicates there is no key of the route.
RouteSegment	Route information	Binary. Length: 1 to 4096 characters.	
RouteAttr	Attribute of route	Binary. Length: 1 to 4096 characters.	

bgp-report-sessionstate-to-controller event

This event is used to report BGP session state to controller.

XML structure for event subscription

```
<bgp-report-sessionstate-to-controller>
</bgp-report-sessionstate-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp_stream</stream>
    <filter type="subtree">
      <bgp-report-sessionstate-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
      </bgp-report-sessionstate-to-controller>
```

```
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-report-sessionstate-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-report-sessionstate-to-controller>
  <ReportSessionstate>
    <Name></Name>
    <VRF></VRF>
    <AF></AF>
    <IpAddress></IpAddress>
    <CurrentState></CurrentState>
    <LastState></LastState>
  </ReportSessionstate>
</bgp-report-sessionstate-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-09-05T09:10:51</eventTime>
  <bgp-report-sessionstate-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
    <ReportSessionstate>
      <Name></Name>
      <VRF></VRF>
      <AF>1</AF>
      <IpAddress>1.1.1.1</IpAddress>
      <CurrentState>5</CurrentState>
      <LastState>4</LastState>
    </ReportSessionstate>
  </bgp-report-sessionstate-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	String. Length: 0 to 31 characters.	An empty string indicates the public network.
AF	Address family of session	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.
IpAddress	Address of session	• Index	String,IPv4 address string or IPv6 address string.
CurrentState	Current state of the session		Enumeration: • **0—Idle** • **1—Connect** • **2—Active** • **3—Opensent** • **4—Openconfirm** • **5—Established**
LastState	Previous state of the session		Enumeration: • **0—Idle** • **1—Connect** • **2—Active** • **3—Opensent** • **4—Openconfirm** • **5—Established**

bgp-report-status-to-controller event

This event is used to report status of the BGP instance.

XML structure for event subscription

```
<bgp-report-status-to-controller>
</bgp-report-status-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp_stream</stream>
    <filter type="subtree">
      <bgp-report-status-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
      </bgp-report-status-to-controller>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-report-status-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-report-status-to-controller>
  <ReportStatus>
    <Name></Name>
    <Status></Status>
  </ReportStatus>
</bgp-report-status-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
   <eventTime>2019-01-21T10:12:15</eventTime>
   <bgp-report-status-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
     <ReportStatus>
       <Name></Name>
       <Status>1</Status>
     </ReportStatus>
   </bgp-report-status-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
Status	Instance status	Enumeration 1 – Master 2 – Backup 3 – Down	N/A

Contents

BIER 1

BIER/Sub-domains 1
XML structure 1
Table description 2
Columns 2
BIER/Sub-domains/Sub-domain 2
XML structure 2
Table description 2
Columns 2
BIER/Sub-domains/Sub-domain/Encap 3
XML structure 3
Table description 3
Columns 4
BIER/Sub-domains/Sub-domain/Encap/Encap-bsls 4
XML structure 4
Table description 4
Columns 5
BIER/Sub-domains/Sub-domain/Encap/Encap-bsls/Encap-bsl 5
XML structure 5
Table description 5
Columns 5
BIER/Sub-domains/Sub-domain/Bfr-neighbors 5
XML structure 6
Table description 6
Columns 6
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor 6
XML structure 6
Table description 6
Columns 7
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges 7
XML structure 7
Table description 7
Columns 7
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges/Bfr-id-range 7
XML structure 8
Table description 8
Columns 8
BIER/OAM 8
XML structure 8
Table description 9
Columns 9

BIER

BIER/Sub-domains

This table is used to configure BIER framework functions.

XML structure

```
<BIER>
  <Sub-domains>
    <Sub-domain>
      <Sub-domain-id></Sub-domain-id>
      <Address-family></Address-family>
      <Php></Php>
      <Ip-unnumbered-if></Ip-unnumbered-if>
      <Underlay-protocol></Underlay-protocol>
      <Bfr-id></Bfr-id>
      <Ttl-mode></Ttl-mode>
      <Pipe-ttl-value></Pipe-ttl-value>
      <Encap>
        <Encap-type></Encap-type>
        <Encap-da></Encap-da>
        <Encap-bsls>
          <Encap-bsl>
            <Bsl></Bsl>
            <Max-si></Max-si>
          </Encap-bsl>
        </Encap-bsls>
      </Encap>
      <Bfr-neighbors>
        <Bfr-neighbor>
          <Encap-da></Encap-da>
          <Bfr-id-ranges>
            <Bfr-id-range>
              <Bfr-id-start></Bfr-id-start>
              <Bfr-id-end></Bfr-id-end>
              <Preference></Preference>
            </Bfr-id-range>
          </Bfr-id-ranges>
        </Bfr-neighbor>
      </Bfr-neighbors>
    </Sub-domain>
  </Sub-domains>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	Sub-domains
Table type	Multi-instance table
Row name	Sub-domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain	Sub-domain Information	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain

This table contains Sub-domain information.

XML structure

See the XML structure of BIER/Sub-domains

Table description

Item	Description
Feature name	BIER
Table name	Sub-domain
Table type	Multi-instance table
Row name	Sub-domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain-id	BIER sub-domain ID	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Address-family	Base identity from which identities describing address families are derived	N/A	Enumeration: • **1**—IPv6 address family. Default: 1.	N/A
Ip-unnumbered-if	Interface that provides the BFR prefix	N/A	String. Interface name.	The interface must be a loopback interface.
Underlay-protocol	Underlay protoco	N/A	Enumeration: • **1**—ISIS. Default: 1.	N/A
Bfr-id	BFR ID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Ttl-mode	TTL processing mode	N/A	Enumeration: • **1**—Pipe mode. • **2**—Uniform mode.	N/A
Pipe-ttl-value	TTL value in pipe mode	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	Uniform mode does not support config and show.
Encap	Encap information of the sub-domain	Subtable	N/A	N/A
Php	Penultimate hop popping of the sub-domain	N/A	Boolean: • true • false Default:false.	N/A
Bfr-neighbors	BFR neighbor information of the sub-domain	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap

This table contains information about a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-type	Encapsulation type for packets forwarded by using BIER	N/A	Enumeration: • **1**—G-BIER.	N/A
Encap-da	G-BIER multicast policy reserved address	N/A	String. IPv6 address in the X:X::X:X format.	N/A
Encap-bsls	BSLs of the sub-domain	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap/Encap-bsls

This table contains BSLs for a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap-bsls
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-bsl	BSLs of the sub-domain	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap/Encap-bsls/Encap-bsl

This table contains BSLs for a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap-bsl
Table type	Multi-instance table
Row name	Encap-bsl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bsl	Bit string length	Index	Enumeration: • **1**—64. • **2**—128. • **3**—256.	N/A
Max-si	Maximum Set Identifier .	N/A	Unsigned integer. Value range: 0 to 255.	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors

This table contains BFR neighbor information.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-neighbors
Table type	Multi-instance table
Row name	Bfr-neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-neighbor	BFR neighbor	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor

This table contains Bfr-neighbor.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-neighbors
Table type	Multi-instance table
Row name	Bfr-neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-da	G-BIER multicast policy reserved address	N/A	String. • IPv6 address in the X:X::X:X format.	N/A
Bfr-id-ranges	Bfr-id-ranges of the BFR	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges

This table contains information about Bfr-id-ranges of Bfr-neighbor.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-ranges
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-range	Bfr-id-ranges of the Bfr-neighbor	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges/Bfr-id-range

This table contains information about Bfr-id-ranges of Bfr-neighbor.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-range
Table type	Multi-instance table
Row name	Bfr-id-range
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-start	Start Bfr-id of a Bfr-id range.	Index	Unsigned integer Value range: 1 to 65535.	N/A
Bfr-id-end	End Bfr-id of a Bfr-id range.	N/A	Unsigned integer Value range: 1 to 65535.	N/A
Preference	Preference of the route to the BFR neighbor.	N/A	Unsigned integer Value range: 1 to 255. Default: 60.	The smaller the value, the higher the prference.

BIER/OAM

This table is used to stop an Bier Oam operation.

XML structure

```
<BIER>
  <OAM>
    <G-bier>
      <Enable></Enable>
      <Udp-port></Udp-port>
    </G-bier>
  <OAM>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	OAM
Table type	Single-instance table
Row name	OAM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Enable BIER OAM	N/A	Boolean: • **true**—enable. • **false**—disable. Default: true
Udp-port	Configure the UDP port number used by BIER OAM	N/A	Unsigned integer. Value range: 1024 to 65535 Default: 49100

Contents

BIER 1

BIER/Sub-domains 1
XML structure 1
Table description 2
Columns 2
BIER/Sub-domains/Sub-domain 2
XML structure 2
Table description 2
Columns 2
BIER/Sub-domains/Sub-domain/Encap 3
XML structure 4
Table description 4
Columns 4
BIER/Sub-domains/Sub-domain/Encap/Encap-bsls 4
XML structure 4
Table description 4
Columns 5
BIER/Sub-domains/Sub-domain/Encap/Encap-bsls/Encap-bsl 5
XML structure 5
Table description 5
Columns 5
BIER/Sub-domains/Sub-domain/Bfr-neighbors 6
XML structure 6
Table description 6
Columns 6
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor 6
XML structure 6
Table description 6
Columns 7
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges 7
XML structure 7
Table description 7
Columns 7
BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges/Bfr-id-range 7
XML structure 7
Table description 8
Columns 8
BIER/Birts 8
XML structure 8
Table description 9
Columns 9
BIER/Birt 9
XML structure 9
Table description 9
Columns 10
BIER/Birts/Birt/Bfers 10
XML structure 10
Table description 10
Columns 10
BIER/Birts/Birt/Bfers/Bfer 10
XML structure 10
Table description 11
Columns 11
BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs 11
XML structure 11
Table description 11
Columns 12

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Bfr-nbr ····· 12
XML structure ····· 12
Table description ····· 12
Columns ····· 12
BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Nbr-bsls ····· 12
XML structure ····· 13
Table description ····· 13
Columns ····· 13
BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Nbr-bsls/Nbr-bsl ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 14
BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Next-hops ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Next-hops/Next-hop ····· 14
XML structure ····· 14
Table description ····· 15
Columns ····· 15
BIER/Sub-domain-bfrs ····· 15
XML structure ····· 15
Table description ····· 16
Columns ····· 16
BIER/Sub-domain-bfrs/Sub-domain-bfr ····· 16
XML structure ····· 16
Table description ····· 17
Columns ····· 17
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 18
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfr ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs ····· 18
XML structure ····· 19
Table description ····· 19
Columns ····· 19
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-bsls ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 21
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-bsl/Bfr-bsl ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-id-ranges ····· 21
XML structure ····· 22
Table description ····· 22
Columns ····· 22
BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-id-ranges/Bfr-id-range ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 23
BIER/OAM ····· 23
XML structure ····· 23

Table description 23
Columns 23

BIER

BIER/Sub-domains

This table is used to configure BIER framework functions.

XML structure

```
<BIER>
  <Sub-domains>
    <Sub-domain>
      <Sub-domain-id></Sub-domain-id>
      <Address-family></Address-family>
      <Php></Php>
      <Ip-unnumbered-if></Ip-unnumbered-if>
      <Bfr-prefix></Bfr-prefix>
      <Underlay-protocol></Underlay-protocol>
      <Mt-id></Mt-id>
      <Bfr-id></Bfr-id>
      <Igp-algorithm></Igp-algorithm>
      <Bier-algorithm></Bier-algorithm>
      <Ttl-mode></Ttl-mode>
      <Pipe-ttl-value></Pipe-ttl-value>
      <Encap>
        <Encap-type></Encap-type>
        <Encap-da></Encap-da>
        <Encap-bsls>
          <Encap-bsl>
            <Bsl></Bsl>
            <Max-si></Max-si>
          </Encap-bsl>
        </Encap-bsls>
      </Encap>
      <Bfr-neighbors>
        <Bfr-neighbor>
          <Encap-da></Encap-da>
          <Bfr-id-ranges>
            <Bfr-id-range>
              <Bfr-id-start></Bfr-id-start>
              <Bfr-id-end></Bfr-id-end>
              <Preference></Preference>
            </Bfr-id-range>
          </Bfr-id-ranges>
        </Bfr-neighbor>
      </Bfr-neighbors>
    </Sub-domain>
```

```
  </Sub-domains>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	Sub-domains
Table type	Multi-instance table
Row name	Sub-domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain	Sub-domain Information	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain

This table contains sub-domain information.

XML structure

See the XML structure of BIER/Sub-domains

Table description

Item	Description
Feature name	BIER
Table name	Sub-domain
Table type	Multi-instance table
Row name	Sub-domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain-id	BIER sub-domain ID	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Address-family	Base identity from which identities describing address families are derived	N/A	Enumeration: • **0**—IPv4 address family. • **1**—IPv6 address family. Default: 1.	N/A
Ip-unnumbered-if	Interface that provides the BFR prefix	N/A	String. Interface name.	The interface must be a loopback interface.
Bfr-prefix	BFR prefix	N/A	String. IPv4 address or IPv6 address in the X:X::X:X format.	N/A
Underlay-protocol	Underlay protoco	N/A	Enumeration: • **1**—ISIS Default: 1.	N/A
Mt-id	Multi-topology ID	N/A	Unsigned integer. The value can be only 0, which indicates the standard topology.	N/A
Bfr-id	BFR ID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Igp-algorithm	IGP algorithm	N/A	Unsigned integer. The value can be only 0.	N/A
Bier-algorithm	BIER algorithm	N/A	Unsigned integer. The value can be only 0.	N/A
Ttl-mode	TTL processing mode	N/A	Enumeration: • **1**—Pipe mode. • **2**—Uniform mode.	N/A
Pipe-ttl-value	TTL value in pipe mode	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	Uniform mode does not support config and show.
Encap	Encap information of the sub-domain	Subtable	N/A	N/A
Php	Penultimate hop popping of the sub-domain	N/A	Boolean: • true • false Default:false.	N/A
Bfr-neighbors	BFR neighbor information of the sub-domain	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap

This table contains information about a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-type	Encapsulation type for packets forwarded by using BIER	N/A	Enumeration: • **0**—None. • **1**—G-BIER.	N/A
Encap-da	G-BIER multicast policy reserved address	N/A	String. IPv6 address in the X:X::X:X format.	N/A
Encap-bsls	BSLs of the sub-domain	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap/Encap-bsls

This table contains BSLs for a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap-bsls

Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-bsl	BSLs of the sub-domain	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain/Encap/Encap-bsls/Encap-bsl

This table contains BSLs for a BIER encapsulation type.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Encap-bsl
Table type	Multi-instance table
Row name	Encap-bsl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bsl	Bit string length	Index	Enumeration: • **1**—64. • **2**—128. • **3**—256.	N/A
Max-si	Maximum Set Identifier .	N/A	Unsigned integer. Value range: 0 to 255.	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors

This table contains BFR neighbors.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-neighbors
Table type	Multi-instance table
Row name	Bfr-neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-neighbor	BFR neighbor	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor

This table contains BFR neighbor information.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-neighbors
Table type	Multi-instance table
Row name	Bfr-neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap-da	G-BIER multicast policy reserved address	Index	String. IPv6 address in the X:X::X:X format.	N/A
Bfr-id-ranges	BFR ID range	Subtable	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges

This table contains information about BFR ID ranges.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-ranges
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-range	BFR ID range	Sublist	N/A	N/A

BIER/Sub-domains/Sub-domain/Bfr-neighbors/Bfr-neighbor/Bfr-id-ranges/Bfr-id-range

This table contains information about BFR ID ranges.

XML structure

See the XML structure of BIER/Sub-domains.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-range
Table type	Multi-instance table
Row name	Bfr-id-range
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-start	Start BFR ID.	Index	Unsigned integer Value range: 1 to 65535.	N/A
Bfr-id-end	End BFR ID.	N/A	Unsigned integer Value range: 1 to 65535.	N/A
Preference	Preference of the route to the BFR neighbor.	N/A	Unsigned integer Value range: 1 to 255. Default: 60.	The smaller the value, the higher the prference.

BIER/Birts

This table contains BIER routing table information.

XML structure

```
<BIER>
  <Birts>
    <Birt>
      <Sub-domain-id></Sub-domain-id>
      <Bfers>
        <Bfer>
          <Bfr-id></Bfr-id>
          <Bfr-prefix></Bfr-prefix>
          <Bfr-nbrs>
            <Bfr-nbr>
              <Nbr-prefix></Nbr-prefix>
              <Encap-da></Encap-da>
              <Nbr-bsls>
                <Nbr-bsl>
                  <Bsl></Bsl>
                  <Max-si></Max-si>
                </Nbr-bsl>
```

```
            </Nbr-bsls>
            <Next-hops>
              <Next-hop>
                <Next-hop-ip></Next-hop-ip>
                <Out-if></Out-if>
              </Next-hop>
            </Next-hops>
          </Bfr-nbr>
        </Bfr-nbrs>
      </Bfer>
    </Bfers>
  </Birt>
</Birts>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	Birts
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Birt	BIER routing	Sublist	N/A	N/A

BIER/Birt

This table contains BIER routing table information.

XML structure

See the XML structure of BIER/Birts

Table description

Item	Description
Feature name	BIER
Table name	Birts

Table type	Multi-instance table
Row name	Birt
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain-id	BIER sub-domain ID	Index	Unsigned integer. Value range: 0 to 255.	N/A
Bfers	BFERs of the sub-domain	Subtable	N/A	N/A

BIER/Birts/Birt/Bfers

This table contains information about the BFERs.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Bfers
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

BIER/Birts/Birt/Bfers/Bfer

This table contains information about the BFERs.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Bfer
Table type	Multi-instance table
Row name	Bfer
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id	BFR ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Bfr-prefix	BFR prefix	N/A	String. IPv4 address or IPv6 address in the X:X::X:X format.	N/A
Bfr-nbrs	NBRs of the BRF	Subtable	N/A	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs

This table contains information about NBRs of a BFR.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-nbrs
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-nbr	NBRs of the BRF	Sublist	N/A	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Bfr-nbr

This table contains information about NBRs of a BFR.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-nbr
Table type	Multi-instance table
Row name	Bfr-nbr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Nbr-prefix	NBR prefix	Index	String. IPv4 address or IPv6 address in the X:X::X:X format.	N/A
Encap-da	G-BIER multicast policy reserved address	N/A	String. IPv6 address in the X:X::X:X format.	N/A
Nbr-bsls	BSLs of the NBR	Subtable	N/A	N/A
Next-hops	Next hops of the NBR	Subtable	N/A	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Nbr-bsls

This table contains information about the NBR BSLs.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Nbr-bsls
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Nbr-bsl	BSLs of the NBR	Sublist	N/A	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Nbr-bsls/Nbr-bsl

This table contains information about the NBR BSLs.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Nbr-bsl
Table type	Multi-instance table
Row name	Nbr-bsl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bsl	Bit string length	Index	Enumeration: • **1**—64. • **2**—128. • **3**—256.	N/A
Max-si	Maximum Set Identifier .	N/A	Unsigned integer. Value range: 0 to 255.	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Next-hops

This table contains information about next hops.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Next-hops
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Next-hop	Next hops of the NBR	Sublist	N/A	N/A

BIER/Birts/Birt/Bfers/Bfer/Bfr-nbrs/Next-hops/Next-hop

This table contains information about next hops.

XML structure

See the XML structure of BIER/Birts.

Table description

Item	Description
Feature name	BIER
Table name	Next-hop
Table type	Multi-instance table
Row name	Next-hop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Next-hop-ip	IP address of a next hop	Index	String. IPv4 address or IPv6 address in the X:X::X:X format.	N/A
Out-if	BIER outgoing interface	N/A	String. Interface Name.	N/A

BIER/Sub-domain-bfrs

This table is used to btain BFR node information in BIER domain.

XML structure

```
<BIER>
  <Sub-domain-bfrs>
    <Sub-domain-bfr>
      <Sub-domain-id></Sub-domain-id>
      <Encap-type></Encap-type>
      <Protocol-bfrs>
        <Protocol-bfr>
          <Protocol></Protocol>
          <Bfrs>
            <Bfr>
              <Bfr-prefix></Bfr-prefix>
              <Bfr-id></Bfr-id>
              <Encap-da></Encap-da>
              <Php></Php>
              <As-number></As-number>
              <Bfr-bsls>
                <Bfr-bsl>
                  <Bsl></Bsl>
                  <Max-si></Max-si>
                </Bfr-bsl>
```

```
            </Bfr-bsls>
            <Bfr-id-ranges>
              <Bfr-id-range>
                <Bfr-id-start></Bfr-id-start>
                <Bfr-id-end></Bfr-id-end>
              </Bfr-id-range>
            </Bfr-id-ranges>
          </Bfr>
        </Bfrs>
      </Protocol-bfr>
    </Protocol-bfrs>
  </Sub-domain-bfr>
</Sub-domain-bfrs>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	Sub-domain-bfrs
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain-bfr	BFR nodes in a BIER sub-domain.	Sublist	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr

This table contains information about BFR nodes in a BIER sub-domain.

XML structure

See the XML structure of BIER/Sub-domain-bfrs

Table description

Item	Description
Feature name	BIER
Table name	Sub-domain-bfrs
Table type	Multi-instance table
Row name	Sub-domain-bfr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sub-domain-id	BIER sub-domain ID	Index	Unsigned integer Value range: 0 to 255.	N/A
Encap-type	Encapsulation type for packets forwarded by using BIER	N/A	Enumeration: • **0**—None. • **1**—G-BIER.	N/A
Protocol-bfrs	Protocols used by BFRs in a sub-domain	Subtable	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs

This table contains information about the Protocol-bfrs.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Protocol-bfrs
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol-bfr	Protocols used by BFRs in a sub-domain	Sublist	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfr

This table contains information about protocols used by BFRs in a sub-domain.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Protocol-bfr
Table type	Multi-instance table
Row name	Bfer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Routing protocol	Index	Enumeration: • **0**—Local. • **1**—IS-IS. • **2**—BGP. • **3**—STATIC.	N/A
Bfrs	BFRs using the protocol	Subtable	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs

This table contains information about BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfrs
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr	BFRs using the protocol	Sublist	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr

This table contains information about BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfr
Table type	Multi-instance table
Row name	Bfr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-prefix	BFR prefix	Index	String. IPv4 address or IPv6 address in the X:X::X:X format.	N/A
Bfr-id	BFR ID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Encap-da	G-BIER multicast policy reserved address	N/A	String. IPv6 address in the X:X::X:X format.	N/A
Php	Penultimate hop popping of the sub-domain	N/A	Boolean: • true • false Default:false.	N/A
As-number	Autonomous system number of reachable BFR	N/A	Unsigned integer.	N/A
Bfr-bsls	BSLs of the BFR	Subtable	N/A	N/A
Bfr-id-ranges	BFR ID range	Subtable	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-bsls

This table contains information about BSLs of BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-bsls
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-bsl	BSLs of the BFR	Sublist	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-bsl/Bfr-bsl

This table contains information about BSLs of BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-bsl
Table type	Multi-instance table
Row name	Bfr-bsl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bsl	Bit string length	Index	Enumeration: • **1**—64. • **2**—128. • **3**—256.	N/A
Max-si	Maximum Set Identifier .	N/A	Unsigned integer Value range: 0 to 255.	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-id-ranges

This table contains information about the BFR ID range of BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-ranges
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-range	BFR ID range	Sublist	N/A	N/A

BIER/Sub-domain-bfrs/Sub-domain-bfr/Protocol-bfrs/Protocol-bfrs/Bfrs/Bfr/Bfr-id-ranges/Bfr-id-range

This table contains information about the BFR ID range of BFRs that use a specific protocol.

XML structure

See the XML structure of BIER/Sub-domain-bfrs.

Table description

Item	Description
Feature name	BIER
Table name	Bfr-id-range
Table type	Multi-instance table
Row name	Bfr-id-range
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bfr-id-start	Start BFR ID	Index	Unsigned integer Value range: 1 to 65535.	N/A
Bfr-id-end	End BFR ID	N/A	Unsigned integer Value range: 1 to 65535.	N/A

BIER/OAM

This table is used to stop a Bier Oam operation.

XML structure

```
<BIER>
  <OAM>
    <G-bier>
      <Enable></Enable>
      <Udp-port></Udp-port>
    </G-bier>
  <OAM>
</BIER>
```

Table description

Item	Description
Feature name	BIER
Table name	OAM
Table type	Single-instance table
Row name	OAM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Enable BIER OAM	N/A	Boolean: • **true**—enable. • **false**—disable. Default: true
Udp-port	Configure the UDP port number used by BIER	N/A	Unsigned integer. Value range: 1024 to 65535

Column name	Column description	Column type	Data type and restrictions
	OAM		Default: 49100

Contents

BIER 2
BIER/Sub-domains 2
BIER/Sub-domains/Encap 2
BIER/Sub-domains/Encap/Encap-bsls 3
BIER/Sub-domains/Bfr-neighbors 3
BIER/Sub-domains/Bfr-neighbors/Bfr-id-ranges 3

BIER

BIER/Sub-domains

Message	Explanation
Maximum number of BIER sub-domains already reached. 配置BIER子域数量超出设备支持的最大值	Maximum number of BIER sub-domains already reached. 用户创建 BIER 子域数量不能超出设备支持的最大值。
BFR ID conflict. BFR ID冲突。	The BFR ID cannot be the same as that of a remote BFR in the sub-domain. 创建的 BFR ID 不能与相同子域的远端 BFR 的 BFR ID 冲突。
TTL mode conflicts with the TTL value. TTL模式和TTL的值冲突。	Uniform mode does not support configuring an TTL value. Uniform 模式下，不支持配置 TTL 值。
TTL is not supported by the sub-domain. 当前BIER子域不支持配置TTL值	The sub-domain does not support configuring TTL. 配置了 PHP 的 BIER 子域不支持配置 TTL 值
PHP is not supported by the sub-domain. PHP功能与当前BIER子域冲突	The sub-domain does not support configuring PHP. 已经存在的 BIER 子域不支持配置 PHP
PHP is not supported. 不支持PHP功能	A PHP sub-domain cannot be created if PHP is not customized. 如果设备没有定制支持 PHP 功能，则不允许创建 PHP 属性的子域
PHP cannot be modified. 不允许修改PHP属性	PHP cannot be modified in the sub-domain. 已创建的 BIER 子域不允许修改 PHP 属性
The underlay protocol cannot be modified. 不允许修改Underlay层路由协议	The underlay protocol cannot be modified in the sub-domain. 已创建的 BIER 子域不允许修改 Underlay 层路由协议
The address family cannot be modified. 不允许修改BIER子域所属的地址簇	The address family cannot be modified in the sub-domain. 已创建的 BIER 子域不允许修改所属的地址簇
Static neighbors are not supported in a sub-domain. 当前BIER子域不支持配置静态邻居。	A sub-domain does not support configuring static neighbors. 配置了 PHP 的 BIER 子域不支持配置静态邻居。

BIER/Sub-domains/Encap

Message	Explanation
G-BIER is not configured as the encapsulation type. 未先将BIER的封装的类型配置为G-BIER。	Before you configure the MPRA or BSL, first specify G-BIER as the encapsulation type. 在配置 MPRA 或者 BSL 时，需要先将 BIER 的封装类型配置为 G-BIER。
The encapsulation type must be configured with BSL. Encap-type需要和BSL一起配置。	You must configure the encapsulation type together with BSL. Encap-type 需要和 BSL 一起配置。
MPRA conflicts with the SRv6 prefix. MPRA 和 SRv6 前缀冲突。	The MPRA cannot be the same as the SRv6 prefix. 配置的 MPRA 不能 SRv6 前缀冲突。

MPRA conflicts with the IPv6 address of an interface on the device. MPRA和设备上的接口IPv6地址冲突。	The MPRA cannot be the same as the IPv6 address of an interface on the device. 配置的 MPRA 不能与设备上的接口 IPv6 地址冲突。

BIER/Sub-domains/Encap/Encap-bsls

Message	Explanation
G-BIER is not configured as the encapsulation type. 未先将BIER的封装的类型配置为G-BIER。	Before you configure the MPRA or BSL, specify G-BIER as the encapsulation type. 在配置 BSL 时，需要先将 BIER 的封装类型配置为 G-BIER。。
The maximum SI must be configured together with a BSL. 配置Max-SI的同时，需要配置BSL。	You must configure the maximum SI together with a BSL. 配置 Max-SI 的同时，需要配置 BSL。

BIER/Sub-domains/Bfr-neighbors

Message	Explanation
BFR neighbors cannot be issued separately. Bfr-neighbors不能单独下发	BFR neighbors should be issued simultaneously with BFR ID ranges. Bfr-neighbors 需要和 Bfr-id-ranges 同时下发。
G-BIER is not configured as the encapsulation type. 未先将BIER的封装的类型配置为G-BIER。	Before you configure the BFR neighbors, specify G-BIER as the encapsulation type. 在配置 BFR 邻居时，需要先将 BIER 的封装类型配置为 G-BIER。

BIER/Sub-domains/Bfr-neighbors/Bfr-id-ranges

Message	Explanation
G-BIER is not configured as the encapsulation type. 未先将BIER的封装的类型配置为G-BIER。	Before you configure the BFR ID ranges, specify G-BIER as the encapsulation type. 在配置BFR ID 范围时，需要先将BIER的封装类型配置为G-BIER。
The BFR ID is being used by other BFRs in sub-domain. 子域中的其他BFR正在使用此BFR ID。	The configured BFR ID cannot use the ID already used by other BFRs in the current sub-domain. 配置的 BFR ID 不能使用当前子域其他 BFR 已使用的 ID。
The BFR ID range conflicts with previous configuration. 范围内的BFR ID与以前的配置冲突。	The configured BFR ID range cannot conflict with the existing configuration. 配置的 BFR ID range 不能和当前已有配置冲突。
The total of BFR neighbors is out of limit. BFR邻居的总数超出配置限制。	Maximum number of BFR neighbors cannot be out of limit. BFR 邻居的最大个数不能超过配置限制。
The total number of BFR IDs in a BFR IDrange is out of limit. 范围内的BFR ID总数超出bfr邻居中的配置限制。	Maximum number of BFR IDS bound by BFR neighbors cannot be out of limit. BFR 邻居绑定的 BFR ID 的最大个数不能超过配置限制。
Maximum number BFR neighbors with the same preference already reached. 到达链路优先级相同的静态跨域BFR邻居的总数超	The number of BFR neighbors with the same preference cannot be out of limit. 链路优先级相同的静态跨域 BFR 邻居的最大个数不能超过配置限

出配置限制。	制。

Contents

BRAS 1

BRAS/BrasInterfaces 1
XML structure 1
Table description 2
Columns 2
BRAS/BrasInterfaces/IfAccessLimit 3
XML structure 3
Table description 3
Columns 4
BRAS/BrasInterfaces/IfVlanAccessLimits 4
XML structure 4
Table description 4
Columns 4
BRAS/BrasInterfaces/IfQinqAccessLimits 4
XML structure 4
Table description 5
Columns 5
BRAS/BrasInterfaces/IPoEDhcpUserNameFormats 5
XML structure 5
Table description 5
Columns 6
BRAS/BrasInterfaces/IPoEUserName 6
XML structure 6
Table description 7
Columns 7
BRAS/BrasInterfaces/IPoEUserDetects 7
XML structure 7
Table description 7
Columns 8
BRAS/BrasInterfaces/IPoEAuthFailurePolicy 8
XML structure 8
Table description 8
Columns 9
BRAS/BrasInterfaces/Ipv4Matchs 9
XML structure 9
Table description 9
Columns 9
BRAS/AccessLog 9
XML structure 10
Table description 10
Columns 10
BRAS/UCMNatChangeMode 10
XML structure 11
Table description 11
Columns 11
BRAS/UPSwitchAcctUpdateMode 11
XML structure 11
Table description 12
Columns 12

BRAS

BRAS/BrasInterfaces

This table contains the information about configuring Bras Interfaces.

XML structure

```
<BRAS>
  <BrasInterfaces>
    <BrasInterface>
      <IfIndex></IfIndex>
      <IfAccessLimit>
        <IfLimitNum></IfLimitNum>
      </IfAccessLimit>
      <IfVlanAccessLimits>
        <IfVlanAccessLimit>
          <StartVlanId></StartVlanId>
          <EndVlanId></EndVlanId>
          <VlanLimitNum></VlanLimitNum>
        </IfVlanAccessLimit>
      </IfVlanAccessLimits>
      <IfQinqAccessLimits>
        <IfQinqAccessLimit>
          <QinqStartVlanId></QinqStartVlanId>
          <QinqEndVlanId></QinqEndVlanId>
          <QinqVlanId></QinqVlanId>
          <QinqLimitNum></QinqLimitNum>
        </IfQinqAccessLimit>
      </IfQinqAccessLimits>
      <IPoEDhcpUserNameFormats>
        <IPoEDhcpUserNameFormat>
          <SeqId></SeqId>
          <ContextType></ContextType>
          <Separator></Separator>
          <MacSeparator></MacSeparator>
          <SpecifiedString></SpecifiedString>
        </IPoEDhcpUserNameFormat>
      </IPoEDhcpUserNameFormats>
      <IPoEUserName>
        <UserNameContext></UserNameContext>
        <MacSeparator></MacSeparator>
        <MacIsLowcase></MacIsLowcase>
        <UserNameString></UserNameString>
      </IPoEUserName>
      <IPoEUserDetects>
```

```
        <IPoEUserDetect>
          <IPType></IPType>
          <DetectType></DetectType>
          <RetryNum></RetryNum>
          <Interval></Interval>
          <NoDataCheck></NoDataCheck>
        </IPoEUserDetect>
      </IPoEUserDetects>
      <IPoEAuthFailurePolicy>
        <ChastenAuthFailedTimes></ChastenAuthFailedTimes>
        <ChastenPeriod></ChastenPeriod>
        <QuietTime></QuietTime>
      </IPoEAuthFailurePolicy>
      <Ipv4Matchs>
        <Ipv4Match>
          <IPv4StartAddress></IPv4StartAddress>
          <IPv4EndAddress></IPv4EndAddress>
        </Ipv4Match>
      </Ipv4Matchs>
    </BrasInterface>
  </BrasInterfaces>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	BrasInterfaces
Table type	Multi-instance table
Row name	BrasInterface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfAccessLimit	Access limit on the interface.	Subtable	N/A	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfVlanAccessLimits	Access Limit number on the VLAN.	Sublist	N/A	N/A
IfQinqAccessLimits	Access Limit number on the QinQ VLAN.	Sublist	N/A	N/A
IPoEDhcpUserNameFormats	User name Format of DHCP.	Sublist	N/A	N/A
IPoEUserName	User name format of IPoE user.	Subtable	N/A	N/A
IPoEUserDetects	Online detect parameter.	Sublist	N/A	N/A
IPoEAuthFailurePolicy	Authentication failure policy of IPoE user.	Subtable	N/A	N/A
Ipv4Matchs	Trusted IPv4 addresses for IPoE authentication.	Sublist	N/A	N/A

BRAS/BrasInterfaces/IfAccessLimit

This table contains the information about bras/brasInterfaces/IfAccessLimit table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfAccessLimit
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfLimitNum	Limit number.	N/A	Unsigned integer.1~65536	different customization ranges for different products

BRAS/BrasInterfaces/IfVlanAccessLimits

This table contains the information about bras/brasInterfaces/IfVlanAccessLimits table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfVlanAccessLimits
Table type	Multi-instance table
Row name	IfVlanAccessLimit
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlanId	Start VLAN id.	Index	Unsigned integer. 1~4094	N/A
EndVlanId	End VLAN id.	Index	Unsigned integer. 1~4094	N/A
VlanLimitNum	VLAN limit number.	N/A	Unsigned integer.1~65536	different customization ranges for different products

BRAS/BrasInterfaces/IfQinqAccessLimits

This table contains the information about bras/brasInterfaces/IfQinqAccessLimits table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfQinqAccessLimits
Table type	Multi-instance table
Row name	IfQinqAccessLimit
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QinqStartVlanId	Start of second-tier VLAN id.	Index	Unsigned integer. 1~4094	N/A
QinqEndVlanId	End of second-tier VLAN id.	Index	Unsigned integer. 1~4094	N/A
QinqVlanId	First Vlan id.	Index	Unsigned integer. 1~4094	N/A
QinqLimitNum	QinQ VLAN limit number.	N/A	Unsigned integer.1~65536	different customization ranges for different products

BRAS/BrasInterfaces/IPoEDhcpUserNameFormats

This table contains the information about bras/brasInterfaces/IPoEDhcpUserNameFormats table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEDhcpUserNameFormats
Table type	Multi-instance table
Row name	IPoEDhcpUserNameFormat
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqId	Format sequence Id of contexts.	Index	Unsigned integer.	N/A
ContextType	Type of context.	N/A	Enumeration: • 1—Circuit-id option. • 2—MAC in Circuit-id option. • 3—Client-id option. • 4—Host name option. • 5—Original host name option. • 6—NAS-PORT-Id. • 7—Port id. • 8—Remote-id option. • 9—Second VLAN id. • 10—Slot id. • 11—Source MAC. • 12—Specified string. • 13—Sub slot id. • 14—system name. • 15—Vendor-class option. • 16—Original Vendor-class option. • 17—Vendor-specific option. • 18—Vlan id.	N/A
Separator	Separator behind the context.	N/A	Char.	N/A
MacSeparator	Separator of the MAC address.	N/A	Char.	Used when the “ContextType” column is 11.
SpecifiedString	Specified string.	N/A	String. Length: 1 to 64 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	Used when the “ContextType” column is 12.

BRAS/BrasInterfaces/IPoEUserName

This table contains the information about bras/brasInterfaces/IPoEUserName table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEUserName
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserNameContext	Context of user name.	N/A	Enumeration: • 1—Undefined.(default) • 2—Use user's MAC address as user name. • 3—Use specified string as user name.	N/A
MacSeparator	Separator of MAC address.	N/A	Char.	Used when the "UserNameContext" column is 2.
MacIsLowcase	The MAC address is lowercase.	N/A	Enumeration: • 1—True. • 2—False. • 3—Undefined.(default)	Used when the "UserNameContext" column is 2.
UserNameString	Specified string for user name.	N/A	String. Length: 1 to 64 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	Used when the "UserNameContext" column is 3.

BRAS/BrasInterfaces/IPoEUserDetects

This table contains the information about bras/brasInterfaces/IPoEUserDetects table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS

Table name	IPoEUserDetects
Table type	Multi-instance table
Row name	IPoEUserDetect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
DetectType	Detect type.	N/A	Enumeration: • 1—Disable user detect.(default) • 2—ICMP. • 3—ARP. • 4—ND.	N/A
RetryNum	Retry number.	N/A	Unsigned integer. 2 to 255.	N/A
Interval	Detect interval in second.	N/A	Unsigned integer. 20 to 1200.	N/A
NoDataCheck	No data check flag.	N/A	Enumeration: • 1—Enable. • 2—Disable(default)	N/A

BRAS/BrasInterfaces/IPoEAuthFailurePolicy

This table contains the information about bras/brasInterfaces/IPoEAuthFailurePolicy table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEAuthFailurePolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChastenAuthFailedTimes	Allow times of authentication failure.	N/A	Unsigned integer. 1 to 10000.	N/A
ChastenPeriod	Detect period of authentication failure chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A
QuietTime	Quiet time of authentication in second.	N/A	Unsigned integer. 0,10 to 3600.	0 means the quiet function is disabled.

BRAS/BrasInterfaces/Ipv4Matchs

This table contains the information about bras/brasInterfaces/Ipv4Matchs table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	Ipv4Matchs
Table type	Multi-instance table
Row name	Ipv4Match
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4StartAddress	IPv4 address.	Index	String, dotted decimal notation.	N/A
IPv4EndAddress	IPv4 address.	Index	String, dotted decimal notation.	N/A

BRAS/AccessLog

This table contains the information about configuring Access Log.

XML structure

```
<BRAS>
 <AccessLog>
   <AbnormalLogout></AbnormalLogout>
   <FailedLogin></FailedLogin>
   <NormalLogout></NormalLogout>
   <SuccessfulLogin></SuccessfulLogin>
 </AccessLog>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	AccessLog
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AbnormalLogout	Abnormal logout.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
NormalLogout	Normal logout.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
FailedLogin	Failed login.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
SuccessfulLogin.	Successful login.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A

BRAS/UCMNatChangeMode

This table contains the information about using the UCM NAT info change updating mode.

XML structure

```
<BRAS>
  <UCMNatChangeMode>
    <AccoutingUpdateEnable></AccoutingUpdateEnable>
 </UCMNatChangeMode>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	UCMNATChangeMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccoutingUpdateEnable	Whether the NAT info change trigger accouting update	N/A	String: • Enable. • Disable (default).	N/A

BRAS/UPSwitchAcctUpdateMode

This table contains the information about using the UP master/backup switchover to trigger accounting updates or accounting stop and accounting start.

XML structure

```
<BRAS>
  <UPSwitchAcctUpdateMode>
    <AccountingUpdateMode></AccountingUpdateMode>
 </UPSwitchAcctUpdateMode>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	UPSwitchAcctUpdateMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccoutingUpdateMode	Whether the UP master/backup switchover triggers accounting updates or accounting stop and accounting start	N/A	String: • Send-Accounting-Update. • Send-Stop-start • Disable (default).	N/A

Contents

BRAS 1

BRAS/BrasInterfaces 1
XML structure 1
Table description 2
Columns 2
BRAS/BrasInterfaces/IfAccessLimit 3
XML structure 3
Table description 3
Columns 4
BRAS/BrasInterfaces/IfVlanAccessLimits 4
XML structure 4
Table description 4
Columns 4
BRAS/BrasInterfaces/IfQinqAccessLimits 4
XML structure 4
Table description 5
Columns 5
BRAS/BrasInterfaces/IPoEDhcpUserNameFormats 5
XML structure 5
Table description 5
Columns 6
BRAS/BrasInterfaces/IPoEUserName 6
XML structure 6
Table description 7
Columns 7
BRAS/BrasInterfaces/IPoEUserDetects 7
XML structure 7
Table description 7
Columns 8
BRAS/BrasInterfaces/IPoEAuthFailurePolicy 8
XML structure 8
Table description 8
Columns 9
BRAS/BrasInterfaces/Ipv4Matchs 9
XML structure 9
Table description 9
Columns 9
BRAS/AccessUserInfo 9
XML structure 10
Table description 13
Columns 13
BRAS/AccessUserInfo/ITAInfos 24
XML structure 24
Table description 25
Columns 25
BRAS/AccessUserInfo/EDSGInfos 25
XML structure 25
Table description 25
Columns 25
BRAS/AccessUserInfo/SubUserInfos 26
XML structure 26
Table description 26
Columns 26
BRAS/AccessUserStatistics 27
XML structure 27
Table description 28
Columns 28

BRAS/OfflineReasonStatistics ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 32
BRAS/MaxUserHistorys ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
BRAS/VASUserCount ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37
BRAS/VASUserCount/EDSGUserInfos ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38
BRAS/VASUserCount/ITAUserInfos ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
BRAS/VASUserCount/NoVASUserInfos ····· 38
XML structure ····· 38
Table description ····· 39
Columns ····· 39
BRAS/AccessLog ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 40
BRAS/UCMNatChangeMode ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
BRAS/UPSwitchAcctUpdateMode ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41

BRAS

BRAS/BrasInterfaces

This table contains the information about configuring Bras Interfaces.

XML structure

```
<BRAS>
  <BrasInterfaces>
    <BrasInterface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <IfAccessLimit>
        <IfLimitNum></IfLimitNum>
      </IfAccessLimit>
      <IfVlanAccessLimits>
        <IfVlanAccessLimit>
          <StartVlanId></StartVlanId>
          <EndVlanId></EndVlanId>
          <VlanLimitNum></VlanLimitNum>
        </IfVlanAccessLimit>
      </IfVlanAccessLimits>
      <IfQinqAccessLimits>
        <IfQinqAccessLimit>
          <QinqStartVlanId></QinqStartVlanId>
          <QinqEndVlanId></QinqEndVlanId>
          <QinqVlanId></QinqVlanId>
          <QinqLimitNum></QinqLimitNum>
        </IfQinqAccessLimit>
      </IfQinqAccessLimits>
      <IPoEDhcpUserNameFormats>
        <IPoEDhcpUserNameFormat>
          <SeqId></SeqId>
          <ContextType></ContextType>
          <Separator></Separator>
          <MacSeparator></MacSeparator>
          <SpecifiedString></SpecifiedString>
        </IPoEDhcpUserNameFormat>
      </IPoEDhcpUserNameFormats>
      <IPoEUserName>
        <UserNameContext></UserNameContext>
        <MacSeparator></MacSeparator>
        <MacIsLowcase></MacIsLowcase>
        <UserNameString></UserNameString>
      </IPoEUserName>
```

```
      <IPoEUserDetects>
        <IPoEUserDetect>
          <IPType></IPType>
          <DetectType></DetectType>
          <RetryNum></RetryNum>
          <Interval></Interval>
          <NoDataCheck></NoDataCheck>
        </IPoEUserDetect>
      </IPoEUserDetects>
      <IPoEAuthFailurePolicy>
        <ChastenAuthFailedTimes></ChastenAuthFailedTimes>
        <ChastenPeriod></ChastenPeriod>
        <QuietTime></QuietTime>
      </IPoEAuthFailurePolicy>
      <Ipv4Matchs>
        <Ipv4Match>
          <IPv4StartAddress></IPv4StartAddress>
          <IPv4EndAddress></IPv4EndAddress>
        </Ipv4Match>
      </Ipv4Matchs>
    </BrasInterface>
  </BrasInterfaces>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	BrasInterfaces
Table type	Multi-instance table
Row name	BrasInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.

IfAccessLimit	Access limit on the interface.	Subtable	N/A	N/A
IfVlanAccessLimits	Access Limit number on the VLAN.	Sublist	N/A	N/A
IfQinqAccessLimits	Access Limit number on the QinQ VLAN.	Sublist	N/A	N/A
IPoEDhcpUserNameFormats	User name Format of DHCP.	Sublist	N/A	N/A
IPoEUserName	User name format of IPoE user.	Subtable	N/A	N/A
IPoEUserDetects	Online detect parameter.	Sublist	N/A	N/A
IPoEAuthFailurePolicy	Authentication failure policy of IPoE user.	Subtable	N/A	N/A
Ipv4Matchs	Trusted IPv4 addresses for IPoE authentication.	Sublist	N/A	N/A

BRAS/BrasInterfaces/IfAccessLimit

This table contains the information about bras/brasInterfaces/IfAccessLimit table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfAccessLimit
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfLimitNum	Limit number.	N/A	Unsigned integer.1~1024	When the IfLimitNum value is 65536, the value is illegal and not displayed.

BRAS/BrasInterfaces/IfVlanAccessLimits

This table contains the information about bras/brasInterfaces/IfVlanAccessLimits table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfVlanAccessLimits
Table type	Multi-instance table
Row name	IfVlanAccessLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlanId	Start VLAN id.	Index	Unsigned integer. 1~4094	N/A
EndVlanId	End VLAN id.	Index	Unsigned integer. 1~4094	N/A
VlanLimitNum	VLAN limit number.	N/A	Unsigned integer. 1~1024	N/A

BRAS/BrasInterfaces/IfQinqAccessLimits

This table contains the information about bras/brasInterfaces/IfQinqAccessLimits table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IfQinqAccessLimits
Table type	Multi-instance table
Row name	IfQinqAccessLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QinqStartVlanId	Start of second-tier VLAN id.	Index	Unsigned integer. 1~4094	N/A
QinqEndVlanId	End of second-tier VLAN id.	Index	Unsigned integer. 1~4094	N/A
QinqVlanId	First Vlan id.	Index	Unsigned integer. 1~4094	N/A
QinqLimitNum	QinQ VLAN limit number.	N/A	Unsigned integer. 1~1024	N/A

BRAS/BrasInterfaces/IPoEDhcpUserNameFormats

This table contains the information about bras/brasInterfaces/IPoEDhcpUserNameFormats table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEDhcpUserNameFormats
Table type	Multi-instance table
Row name	IPoEDhcpUserNameFormat

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqId	Format sequence Id of contexts.	Index	Unsigned integer.	N/A
ContextType	Type of context.	N/A	Enumeration: • 1—Circuit-id option. • 2—MAC in Circuit-id option. • 3—Client-id option. • 4—Host name option. • 5—Original host name option. • 6—NAS-PORT-Id. • 7—Port id. • 8—Remote-id option. • 9—Second VLAN id. • 10—Slot id. • 11—Source MAC. • 12—Specified string. • 13—Sub slot id. • 14—system name. • 15—Vendor-class option. • 16—Original Vendor-class option. • 17—Vendor-specific option. • 18—Vlan id.	N/A
Separator	Separator behind the context.	N/A	Char.	N/A
MacSeparator	Separator of the MAC address.	N/A	Char.	Used when the “ContextType” column is 11.
SpecifiedString	Specified string.	N/A	String. Length: 1 to 64 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	Used when the “ContextType” column is 12.

BRAS/BrasInterfaces/IPoEUserName

This table contains the information about bras/brasInterfaces/IPoEUserName table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEUserName
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Column name	Column description	Column type	Data type and restrictions	Remarks
UserNameContext	Context of user name.	N/A	Enumeration: • 1—Undefined. • 2—Use user's MAC address as user name. • 3—Use specified string as user name.	N/A
MacSeparator	Separator of MAC address.	N/A	Char.	Used when the "UserNameContext" column is 2.
MacIsLowcase	The MAC address is lowercase.	N/A	Enumeration: • 1—True. • 2—False. • 3—Undefined.	Used when the "UserNameContext" column is 2.
UserNameString	Specified string for user name.	N/A	String. Length: 1 to 64 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	Used when the "UserNameContext" column is 3.

BRAS/BrasInterfaces/IPoEUserDetects

This table contains the information about bras/brasInterfaces/IPoEUserDetects table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS

Table name	IPoEUserDetects
Table type	Multi-instance table
Row name	IPoEUserDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
DetectType	Detect type.	N/A	Enumeration: • 1—Disable user detection. • 2—ICMP. • 3—ARP. • 4—ND.	N/A
RetryNum	Retry number.	N/A	Unsigned integer. 2~255.	N/A
Interval	Detect interval in second.	N/A	Unsigned integer. 20~1200.	N/A
NoDataCheck	No data check flag	N/A	Enumeration: • 1—Enable. • 2—Disable	N/A

BRAS/BrasInterfaces/IPoEAuthFailurePolicy

This table contains the information about bras/brasInterfaces/IPoEAuthFailurePolicy table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	IPoEAuthFailurePolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChastenAuthFailedTimes	Allow times of authentication failure.	N/A	Unsigned integer. 1~10000.	N/A
ChastenPeriod	Detect period of authentication failure chasten in second.	N/A	Unsigned integer. 1~3600.	N/A
QuietTime	Quiet time of authentication in second.	N/A	Unsigned integer. 0,10~3600.	0 means the quiet function is disabled.

BRAS/BrasInterfaces/Ipv4Matchs

This table contains the information about bras/brasInterfaces/Ipv4Matchs table.

XML structure

Please refer to the XML structure of BRAS/BrasInterfaces.

Table description

Item	Description
Feature name	BRAS
Table name	Ipv4Matchs
Table type	Multi-instance table
Row name	Ipv4Match
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4StartAddress	IPv4 address.	Index	String, dotted decimal notation.	N/A
IPv4EndAddress	IPv4 address.	Index	String, dotted decimal notation.	N/A

BRAS/AccessUserInfo

This table contains the information about configuring Access User Info.

XML structure

```
<BRAS>
  <AccessUserInfo>
    <UserInfo>
      <UserID></UserID>
      <UPID></UPID>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <UserName></UserName>
      <AuthType></AuthType>
      <Interface></Interface>
      <IfName></IfName>
      <MacAddr></MacAddr>
      <IpAddr></IpAddr>
      <IPv6Addr></IPv6Addr>
      <VPNInstanceName></VPNInstanceName>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <IPv4Pool></IPv4Pool>
      <IPv6Pool></IPv6Pool>
      <DomainName></DomainName>
      <IPv4PoolGroup></IPv4PoolGroup>
      <IPv6PoolGroup></IPv6PoolGroup>
      <IPType></IPType>
      <IPv6Protocol></IPv6Protocol>
      <LACIPAddr></LACIPAddr>
      <LNSIPAddr></LNSIPAddr>
      <RemoteName></RemoteName>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <UserAddressType></UserAddressType>
      <UserGroup></UserGroup>
      <UserType></UserType>
      <StartVxlanID></StartVxlanID>
      <EndVxlanID></EndVxlanID>
      <Time></Time>
      <PublicIPAddr></PublicIPAddr>
      <Description></Description>
      <PPPIndex></PPPIndex>
      <AuthenDomain></AuthenDomain>
      <AuthorDomain></AuthorDomain>
      <VxlanID></VxlanID>
      <IPv4PDNSServer></IPv4PDNSServer>
      <IPv4SDNSServer></IPv4SDNSServer>
      <IPv6PDNSServer></IPv6PDNSServer>
      <IPv6SDNSServer></IPv6SDNSServer>
      <IPv6NDPrefix></IPv6NDPrefix>
```

```
<IPv6NDPrefixLen></IPv6NDPrefixLen>
<IPv6PDPrefix></IPv6PDPrefix>
<IPv6PDPrefixLen></IPv6PDPrefixLen>
<AuthorIPv6Pool></AuthorIPv6Pool>
<IPv6PrefixPool></IPv6PrefixPool>
<IPv6NDPrefixPoolGroup></IPv6NDPrefixPoolGroup>
<DHCPv4LeaseTime></DHCPv4LeaseTime>
<DHCPv4RemainLease></DHCPv4RemainLease>
<DHCPv6LeaseTime></DHCPv6LeaseTime>
<DHCPv6RemainLease></DHCPv6RemainLease>
<AccessType></AccessType>
<AgentCircuitID></AgentCircuitID>
<AgentRemoteID></AgentRemoteID>
<NASPortID></NASPortID>
<IPv6CPIfID></IPv6CPIfID>
<AuthenState></AuthenState>
<AuthorState></AuthorState>
<RealtimeAcctSwith></RealtimeAcctSwith>
<RealtimeAcctInterval></RealtimeAcctInterval>
<LoginTime></LoginTime>
<AccountStartTime></AccountStartTime>
<OnlineTime></OnlineTime>
<AcctState></AcctState>
<AcctStartFailAct></AcctStartFailAct>
<AcctUpdateFailAct></AcctUpdateFailAct>
<AcctQuotaOutAct></AcctQuotaOutAct>
<DualStackAcctMode></DualStackAcctMode>
<IdleCutTime></IdleCutTime>
<IdleCutFlow></IdleCutFlow>
<IdleCutDirection></IdleCutDirection>
<SessionTimeout></SessionTimeout>
<RemainTime></RemainTime>
<TrafficQuota></TrafficQuota>
<RemainTraffic></RemainTraffic>
<IPv6CPIfIDAssign></IPv6CPIfIDAssign>
<RedirectWebURL></RedirectWebURL>
<RedirectIPv6WebURL></RedirectIPv6WebURL>
<ITAPolicyName></ITAPolicyName>
<MRU></MRU>
<IPv4MTU></IPv4MTU>
<IPv6MTU></IPv6MTU>
<SubscriberID></SubscriberID>
<UserSessionLimit></UserSessionLimit>
<UserSessionCnt></UserSessionCnt>
<NSInboundSampler></NSInboundSampler>
<NSOutboundSampler></NSOutboundSampler>
<UserProfileName></UserProfileName>
<UserProfileState></UserProfileState>
```

```
<GroupUserProfileName></GroupUserProfileName>
<GroupUserProfileState></GroupUserProfileState>
<UserGroupACLName></UserGroupACLName>
<UserGroupACLState></UserGroupACLState>
<InboundCAR></InboundCAR>
<InboundPIR></InboundPIR>
<InboundCBS></InboundCBS>
<InboundState></InboundState>
<OutboundCAR></OutboundCAR>
<OutboundPIR></OutboundPIR>
<OutboundCBS></OutboundCBS>
<OutboundState></OutboundState>
<InboundPriLevel></InboundPriLevel>
<InboundPriState></InboundPriState>
<OutboundPriLevel></OutboundPriLevel>
<OutboundPriState></OutboundPriState>
<StartPort></StartPort>
<EndPort></EndPort>
<ExtendPortBlock></ExtendPortBlock>
<IPv4FlowStat></IPv4FlowStat>
<IPv6FlowStat></IPv6FlowStat>
<SessionID></SessionID>
<LacGroupID></LacGroupID>
<LacLocalTunnelID></LacLocalTunnelID>
<LacRemoteTunnelID></LacRemoteTunnelID>
<LacLocalSessionID></LacLocalSessionID>
<LacRemoteSessionID></LacRemoteSessionID>
<LacLocalIPAddr></LacLocalIPAddr>
<LacRemoteIPAddr></LacRemoteIPAddr>
<LacLocalPort></LacLocalPort>
<LacRemotePort></LacRemotePort>
<LacVrfIndex></LacVrfIndex>
<LacCallingStation></LacCallingStation>
<LnsGroupID></LnsGroupID>
<LnsLocalTunnelID></LnsLocalTunnelID>
<LnsRemoteTunnelID></LnsRemoteTunnelID>
<LnsLocalSessionID></LnsLocalSessionID>
<LnsRemoteSessionID></LnsRemoteSessionID>
<LnsLocalIPAddr></LnsLocalIPAddr>
<LnsRemoteIPAddr></LnsRemoteIPAddr>
<LnsLocalPort></LnsLocalPort>
<LnsRemotePort></LnsRemotePort>
<LnsVrfIndex></LnsVrfIndex>
<LnsCallingStation></LnsCallingStation>
<TotalSubUsers></TotalSubUsers>
<BackUpStatus></BackUpStatus>
<BackUpInterface></BackUpInterface>
<AccessUPID></AccessUPID>
```

```
      <vpnInstance></vpnInstance>
      <UserSwitchOverTime></UserSwitchOverTime>
      <ITAInfos>
        <ITAInfo>
          <ITALevel></ITALevel>
          <IPv4FlowStat></IPv4FlowStat>
          <IPv6FlowStat></IPv6FlowStat>
        </ITAInfo>
      </ITAInfos>
      <EDSGInfos>
        <EDSGInfo>
          <ServiceID></ServiceID>
          <IPv4FlowStat></IPv4FlowStat>
          <IPv6FlowStat></IPv6FlowStat>
        </EDSGInfo>
      </EDSGInfos>
      <SubUserInfos>
        <SubUserInfo>
          <SubUserID></SubUserID>
          <MacAddr></MacAddr>
          <IpAddr></IpAddr>
          <IPv6Addr></IPv6Addr>
          <ServiceVLAN></ServiceVLAN>
          <CustomerVLAN></CustomerVLAN>
        </SubUserInfo>
      </SubUserInfos>
    </UserInfo>
  </AccessUserInfo>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	AccessUserInfo
Table type	Multi-instance table
Row name	UserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID.	Index	Unsigned integer.	N/A
UPID	UP ID.	Index	Enumeration:	This field is obsolete.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Default.	
ChassisId	Chassis ID.	N/A	Unsigned integer.	N/A
SlotId	Slot ID.	N/A	Unsigned integer.	N/A
UserName	User name.	N/A	String. Length: 1 to 31 characters.	N/A
AuthType	Authentication type.	N/A	Enumeration: • 1—Bind. • 2—Web. • 3—PPP. • 4—Admin. • 5—Dot1x. • 6—Portal. • 7—Pre-auth. • 8—Mac-auth. • 9—IKE. • 10—SSLVPN. • 11—DVPN.	N/A
Interface	Access Interface.	N/A	Unsigned integer.	N/A
IfName	Interface name.	N/A	String. Length: 1 to 47 characters.	N/A
MacAddr	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
IPv6Addr	IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A
VPNInstanceName	Authorized VPN instance name.	N/A	String. Length: 1 to 31 characters.	N/A
ServiceVLAN	Service provider VLAN.	N/A	Unsigned short.	Used when the “Interface” column is sub-interface.
CustomerVLAN	Customer VLAN.	N/A	Unsigned short.	Used with “ServiceVLAN”
IPv4Pool	PPP IPCP address pool name.	N/A	String. Length: 1 to 63 characters.	N/A
IPv6Pool	PPP IPV6 address pool	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name.		Length: 1 to 63 characters.	
DomainName	Domain name.	N/A	String. Length: 1 to 255 characters.	N/A
IPv4PoolGroup	IPv4 pool group.	N/A	String. Length: 1 to 63 characters	N/A
IPv6PoolGroup	IPv6 pool group.	N/A	String. Length: 1 to 63 characters	N/A
IPType	IP address Type.	N/A	Enumeration: • 0—IPv4 • 1—IPv6. • 2—Dual-stack.	N/A
IPv6Protocol	IPv6 address protocal.	N/A	Enumeration: • 0—ND • 1—DHCPv6	N/A
LACIPAddr	LAC IP address.	N/A	String, dotted decimal notation.	N/A
LNSIPAddr	LNS IP address.	N/A	String, dotted decimal notation.	N/A
RemoteName	LAC or LNS tunnel name.	N/A	String. Length: 1 to 31 characters	N/A
StartTime	User access start time.	N/A	DateTime.	Used with “EndTime”, Example: YYYY-MM-DD hh:mm:ss.
EndTime	User access end time.	N/A	DateTime.	Used with “StartTime”, Example: YYYY-MM-DD hh:mm:ss.
UserAddressType	User IP address type.	N/A	Enumeration: • 0—Public-IPv4. • 1—Private-IPv4. • 2—Public-DS. • 3—Private-DS. • 4—DS-lite. • 5—IPv6. • 6—NAT64.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroup	User group name.	N/A	String. Length: 1 to 32 characters	N/A
UserType	User type.	N/A	Enumeration: • 0—LAC. • 1—LNS. • 2—PPPoA. • 3—PPPoE.	N/A
StartVxlanID	Start vxlan ID.	N/A	Unsigned integer. 0~16777215.	N/A
EndVxlanID	End vxlan ID.	N/A	Unsigned integer. 0~16777215.	Used with “StartVxlanID”
Time	The time since user logon.	N/A	Unsigned integer. 1~7200.	Unit: seconds
PublicIPAddr	Public IP address of CGN users.	N/A	String, dotted decimal notation.	N/A
Description	Description of user.	N/A	String. Length: 1 to 31 characters	N/A
PPPIndex	PPP session index.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Only for PPPoE and L2TP users.
AuthenDomain	Domain name for authentication.	N/A	String. Length: 1 to 255 characters.	N/A
AuthorDomain	Domain name for authorization.	N/A	String. Length: 1 to 255 characters.	N/A
VxlanID	Vxlan ID.	N/A	Unsigned integer. 0~16777215.	N/A
IPv4PDNSServer	IPv4 primary DNS server.	N/A	String, dotted decimal notation.	N/A
IPv4SDNSServer	IPv4 secondary DNS server.	N/A	String, dotted decimal notation.	N/A
IPv6PDNSServer	IPv6 primary DNS server.	N/A	Hexadecimal string, colon-separated.	N/A
IPv6SDNSServer	IPv6 secondary DNS server.	N/A	Hexadecimal string, colon-separated.	N/A
IPv6NDPrefix	IPv6 ND prefix.	N/A	Hexadecimal string, colon-separated.	N/A
IPv6NDPrefixLen	Length of IPv6 ND prefix.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6PDPrefix	IPv6 PD prefix.	N/A	Hexadecimal string, colon-separated.	N/A
IPv6PDPrefixLen	Length of IPv6 PD prefix.	N/A	Unsigned integer.	N/A
AuthorIPv6Pool	IPv6 pool for authorization	N/A	String, Length: 1 to 63	N/A
IPv6PrefixPool	IPv6 prefix pool	N/A	String, Length: 1 to 63	N/A
IPv6NDPrefixPoolGroup	IPv6 ND prefix pool Group	N/A	String, Length: 1 to 63	N/A
DHCPv4LeaseTime	Lease time of DHCPv4.	N/A	Unsigned integer.	Unit: seconds
DHCPv4RemainLease	DHCP user remaining lease.	N/A	Unsigned integer.	Unit: seconds
DHCPv6LeaseTime	Lease time of DHCPv6.	N/A	Unsigned integer.	Unit: seconds
DHCPv6RemainLease	DHCPv6 user remaining lease.	N/A	Unsigned integer.	Unit: seconds
AccessType	Access type.	N/A	Enumeration: • 0—PPPoE users. • 1—PPPoA users. • 2—PPPoFR users. • 3—PPPoPhy users. • 4—VPPP users. • 5—LNS users. • 6—L2 IPoE dynamic users. • 7—L2IPoE static users. • 8—L2IPoE interface leased users. • 9—L2IPoE subnet leased users. • 10—L2IPoE leased subusers • 11—IPoE L2VPN	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			leased users • 12—L3 IPoE dynamic users. • 13—L3IPoE static users. • 14—L3IPoE interface leased users. • 15—L3IPoE subnet leased users. • 16—Web auth users • 17—Portal users • 18—Telnet users • 19—SSH users • 20—HTTP users • 21—HTTPS users • 22—FTP users • 23—Command users • 24—Super users • 25—PAD users • 26—Terminal users • 27—MAC auth users • 28—Dot1X users • 29—IKE users • 30—SSLVPN users • 31—DVPN users	
AgentCircuitI	DHCP circuit ID.	N/A	String. Length: 0 to 255 characters	N/A
AgentRemoteID	DHCP remote ID.	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 255 characters	
NASPortID	NAS port ID.	N/A	String. Length: 0 to 255 characters	N/A
IPv6CPIfID	IPv6 CP interface ID.	N/A	Hexadecimal string, colon-separated.	N/A
AuthenState	Authentication state.	N/A	Enumeration: • 0—Idle. • 1—Authenticating. • 2—Authenticated.	N/A
AuthorState	Authorization state.	N/A	Enumeration: • 0—Idle. • 1—Authorizing. • 2—Authorized.	N/A
RealtimeAcctSwith	Realtime accounting switch.	N/A	Enumeration: • 0—Closed. • 1—Open.	N/A
RealtimeAcctInterval	Realtime accounting interval.	N/A	Unsigned integer.	Unit: seconds
LoginTime	User login time.	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
AccountStartTime	Accounting start time.	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	User online time.	N/A	DateTime.	Example: hh:mm:ss
AcctState	Accounting state.	N/A	Enumeration: • 0—Stop. • 1—Accounting.	N/A
AcctStartFailAct	The action when starting account failed.	N/A	Enumeration: • 0—Online. • 1—Offline.	N/A
AcctUpdateFailAct	The action when update account failed.	N/A	Enumeration: • 0—Online. • 1—Offline.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AcctQuotaOutAct	The action when quota out.	N/A	Enumeration: • 0—Online. • 1—Offline. • 2—Redirect.	N/A
DualStackAcctMode	Dual-stack accounting mode.	N/A	Enumeration: • 0—Separate. • 1—Merge.	N/A
IdleCutTime	The time limit of user idle.	N/A	Unsigned integer.	Unit: seconds
IdleCutFlow	The flow limit of user idle.	N/A	Unsigned integer.	Unit: bytes
IdleCutDirection	The direction of flow limit.	N/A	Enumeration: • 0—Both. • 1—Inbound. • 2—Outbound.	N/A
SessionTimeout	The authorized time of user online.	N/A	Unsigned integer.	Unit: seconds. 4294967295 means unlimited. 0 means timeout.
RemainTime	Session duration from AAA.	N/A	String. Length: 1 to 30 characters.	Unit: seconds
TrafficQuota	The authorized quota of user.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Unit: seconds. 2^{64}-1means unlimited.
RemainTraffi	The remain quota of user.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Unit: seconds. 2^{64}-1means unlimited.
IPv6CPIfIDAssign	IPv6CP interface ID assignment.	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A
RedirectWebURL	Redirect Web URL.	N/A	String. Length: 1 to 255 characters.	N/A
RedirectIPv6WebURL	Redirect IPv6 Web URL.	N/A	String. Length: 1 to 255 characters.	N/A
ITAPolicyName	ITA policy name.	N/A	String. Length: 1 to 31 characters.	N/A
MRU	MRU.	N/A	Unsigned integer.	Unit: bytes. Only for PPPoE and L2TP users.
IPv4MTU	IPv4 MTU.	N/A	Unsigned integer.	Unit: bytes. Only for PPPoE and L2TP users.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6MTU	IPv6 MTU.	N/A	Unsigned integer.	Unit: bytes. Only for PPPoE and L2TP users.
SubscriberID	Subscriber ID.	N/A	Unsigned integer.	N/A
UserSessionLimit	UserSessionLimit	N/A	Unsigned integer.	N/A
UserSessionCnt	UserSessionCnt	N/A	Unsigned integer.	N/A
NSInboundSampler	NetStream inbound sampler.	N/A	String. Length: 1 to 31 characters.	N/A
NSOutboundSampler	NetStream outbound sampler.	N/A	String. Length: 1 to 31 characters.	N/A
UserProfileName	Authorized User profile name from AAA.	N/A	String. Length: 1 to 31 characters.	N/A
UserProfileState	Authorized User profile state from AAA.	N/A	String. Length: 1 to 1024 characters.	active—The user profile is authorized successfully. inactive—User profile authorization failed or the user profile does not exist on the BRAS.
GroupUserProfileName	Authorized Group user profile name from AAA.	N/A	String. Length: 1 to 31 characters.	N/A
GroupUserProfileState	Authorized Group user profile state from AAA.	N/A	String. Length: 1 to 1024 characters.	active—The session group profile is authorized successfully. inactive—Session group profile authorization failed or the session group profile does not exist on the BRAS.
UserGroupACLName	User group acl name.	N/A	String. Length: 1 to 32.characters.	N/A
UserGroupACLState	User group acl state.	N/A	String. Length: 1 to 1024 characters.	active—The user group ACL is authorized successfully. inactive—User group ACL authorization failed or the user group ACL does not exist on the BRAS.
InboundCAR	Authorized inbound average rate value.	N/A	Unsigned integer.	Unit: kbps
InboundPIR	Authorized inbound peak rate value.	N/A	Unsigned integer.	Unit: kbps
InboundCBS	Inbound CBS.	N/A	Unsigned integer.	Unit: bytes.

Column name	Column description	Column type	Data type and restrictions	Remarks
InboundState	Inbound state.	N/A	String. Length: 1 to 1024 characters.	active—Inbound CAR is authorized successfully. inactive—Inbound CAR is not authorized successfully.
OutboundCAR	Authorized outbound average rate value.	N/A	Unsigned integer.	Unit: kbps
OutboundPIR	Authorized outbound peak rate value.	N/A	Unsigned integer.	Unit: kbps
OutboundCBS	Outbound CBS.	N/A	Unsigned integer.	Unit: bytes.
OutboundState	Outbound state.	N/A	String. Length: 1 to 1024 characters.	active—Outbound CAR is authorized successfully. inactive—Outbound CAR is not authorized successfully.
InboundPriLevel	User inbound priority level.	N/A	Unsigned integer.0~7, 15.	15 means no authorize
InboundPriState	User inbound priority state.	N/A	String. Length: 1 to 1024 characters.	active—Inbound user priority is authorized successfully. inactive—Inbound user priority is not authorized successfully.
OutboundPriLevel	User outbound priority level.	N/A	Unsigned integer.0~7, 15.	15 means no authorize
OutboundPriState	User outbound priority state.	N/A	String. Length: 1 to 1024 characters.	active—Outbound user priority is authorized successfully. inactive—Outbound user priority is not authorized successfully.
StartPort	Start port of port block.	N/A	Unsigned short.	N/A
EndPort	End port of port block.	N/A	Unsigned short.	EndPort must greater than StartPort
ExtendPortBlock	Extended port blocks.	N/A	String	N/A
IPv4FlowStat	IPv4 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes
SessionID	Session ID of PPP users.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LacGroupID	L2TP LAC group ID.	N/A	Unsigned short.	N/A
LacLocalTunnelID	L2TP LAC local tunnel ID.	N/A	Unsigned short.	N/A
LacRemoteTunnelID	L2TP LAC remote tunnel ID.	N/A	Unsigned short.	N/A
LacLocalSessionID	L2TP LAC local session ID.	N/A	Unsigned short.	N/A
LacRemoteSessionID	L2TP LAC remote session ID.	N/A	Unsigned short.	N/A
LacLocalIPAddr	L2TP LAC local IP address.	N/A	String, dotted decimal notation.	N/A
LacRemoteIPAddr	L2TP LAC remote IP address.	N/A	String, dotted decimal notation.	N/A
LacLocalPort	L2TP LAC local UDP port.	N/A	Unsigned short.	N/A
LacRemotePort	L2TP LAC remote UDP port.	N/A	Unsigned short.	N/A
LacVrfIndex	L2TP LAC vrf index.	N/A	Unsigned short.	N/A
LacCallingStation	L2Tp LAC call station.	N/A	String. Length: 1 to 64.	N/A
LnsGroupID	L2TP LNS group ID.	N/A	Unsigned short.	N/A
LnsLocalTunnelID	L2TP LNS local tunnel ID.	N/A	Unsigned short.	N/A
LnsRemoteTunnelID	L2TP LNS remote tunnel ID.	N/A	Unsigned short.	N/A
LnsLocalSessionID	L2TP LNS local session ID.	N/A	Unsigned short.	N/A
LnsRemoteSessionID	L2TP LNS remote session ID.	N/A	Unsigned short.	N/A
LnsLocalIPAddr	L2TP LNS local IP address.	N/A	String, dotted decimal notation.	N/A
LnsRemoteIPAddr	L2TP LNS remote IP address.	N/A	String, dotted decimal notation.	N/A
LnsLocalPort	L2TP LNS local UDP port.	N/A	Unsigned short.	N/A
LnsRemotePort	L2TP LNS remote UDP port.	N/A	Unsigned short.	N/A
LnsVrfIndex	L2TP LNS vrf index.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LnsCallingStation	L2Tp LNS call station.	N/A	String. Length: 1 to 64.	N/A
TotalSubUsers	Total subuser count.	N/A	Unsigned integer.	N/A
InterfaceName	Interface name of specified bras-vm	N/A	String. Length: 1 to 48 characters	N/A
BackUpStatus	BackUp Status	N/A	Enumeration: • 0—Master Status. • 1—Slave Status. • 2—Down Status. • 3—Invalid Status.	N/A
BackUp Interface	BackUp Interface name.	N/A	String. Length: 1 to 47 characters.	N/A
AccessUPID	Access UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP.
vpnInstance	VPN instances	N/A	Enumeration: • 0—Default. • 1—All VPN instances. • 2—All public network instances.	N/A
UserSwitchOverTime	User UP SwitchOver Time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
ITAInfos	ITA information.	Sublist	N/A	N/A
EDSGInfos	EDSG information.	Sublist	N/A	N/A
SubUserInfos	Sub-user information.	Sublist	N/A	N/A

BRAS/AccessUserInfo/ITAInfos

This table contains the information about bras/accessuserInfo/ITAInfos table

XML structure

Please refer to the XML structure of BRAS/AccessUserInfo.

Table description

Item	Description
Feature name	BRAS
Table name	ITAInfos
Table type	Multi-instance table
Row name	ITAInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ITALevel	ITA level.	Index	Unsigned integer.1~8.	N/A
IPv4FlowStat	IPv4 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes

BRAS/AccessUserInfo/EDSGInfos

This table contains the information about bras/accessuserInfo/EDSGInfos table

XML structure

Please refer to the XML structure of BRAS/AccessUserInfo.

Table description

Item	Description
Feature name	BRAS
Table name	EDSGInfos
Table type	Multi-instance table
Row name	EDSGInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceID	Service ID.	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4FlowStat	IPv4 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6 flow statistics.	N/A	String. Length: 1 to 80 characters.	Include uplink packets/bytes and downlink packets/bytes

BRAS/AccessUserInfo/SubUserInfos

This table contains the information about bras/accessuserInfo/SubUserInfos table

XML structure

Please refer to the XML structure of BRAS/AccessUserInfo.

Table description

Item	Description
Feature name	BRAS
Table name	SubUserInfos
Table type	Multi-instance table
Row name	SubUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubUserID	SunUser ID.	Index	Unsigned integer.	N/A
MacAddr	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
IPv6Addr	IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A
ServiceVLAN	Service provider VLAN.	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN.	N/A	Unsigned short.	N/A

BRAS/AccessUserStatistics

This table contains the information about bras/accessuserStaitstic table

XML structure

```
<BRAS>
  <AccessUserStatistics>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <UserName></UserName>
      <AuthType></AuthType>
      <Interface></Interface>
      <IfName></IfName>
      <MacAddr></MacAddr>
      <VPNInstanceName></VPNInstanceName>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <IPv4Pool></IPv4Pool>
      <IPv6Pool></IPv6Pool>
      <DomainName></DomainName>
      <IPv4PoolGroup></IPv4PoolGroup>
      <IPv6PoolGroup></IPv6PoolGroup>
      <IPType></IPType>
      <IPv6Protocol></IPv6Protocol>
      <LACIPAddr></LACIPAddr>
      <LNSIPAddr></LNSIPAddr>
      <RemoteName></RemoteName>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <UserAddressType></UserAddressType>
      <UserGroup></UserGroup>
      <UserType></UserType>
      <StartVxlanID></StartVxlanID>
      <EndVxlanID></EndVxlanID>
      <Time></Time>
      <UPID></UPID>
      <PPPoAUser></PPPoAUser>
      <PPPoFRUser></PPPoFRUser>
      <PPPoPhyUser></PPPoPhyUser>
      <VPPPUser></VPPPUser>
      <LNSUser></LNSUser>
      <LACUser></LACUser>
      <L2IPoEDynamicUser></L2IPoEDynamicUser>
      <L2IPoEStaticUser></L2IPoEStaticUser>
      <L2IPoEIfLeasedUser></L2IPoEIfLeasedUser>
      <L2IPoESubnetleasedUser></L2IPoESubnetleasedUser>
      <L2IPoELeasedSubUser></L2IPoELeasedSubUser>
```

```
    <IPoEL2VPNLeasedUser></IPoEL2VPNLeasedUser>
    <L3IPoEDynamicUser></L3IPoEDynamicUser>
    <L3IPoEStaticUser></L3IPoEStaticUser>
    <L3IPoEIfLeasedUser></L3IPoEIfLeasedUser>
    <L3IPoESubnetLeasedUser></L3IPoESubnetLeasedUser>
    <WebAuthUser></WebAuthUser>
    <PortalUser></PortalUser>
    <TelnetUser></TelnetUser>
    <SSHUser></SSHUser>
    <HTTPUser></HTTPUser>
    <HTTPSUser></HTTPSUser>
    <FTPUser></FTPUser>
    <CommandUser></CommandUser>
    <PADUser></PADUser>
    <TerminalUser></TerminalUser>
    <MACAuthUser></MACAuthUser>
    <Dot1XUser></Dot1XUser>
    <IKEUser></IKEUser>
    <SSLVPNUser></SSLVPNUser>
    <DVPNUser></DVPNUser>
  </AccessUserStatistics>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	AccessUserStatistics
Table type	Single-instance table
Row name	
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	N/A	Unsigned integer.	N/A
SlotId	Slot ID.	N/A	Unsigned integer.	N/A
UserName	User name.	N/A	String. Length: 1 to 31 characters.	N/A
AuthType	Authentication type.	N/A	Enumeration: • 1—Bind. • 2—Web. • 3—PPP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—Admin. • 5—Dot1x. • 6—Portal. • 7—Pre-auth. • 8—Mac-auth. • 9—IKE. • 10—SSLVPN. • 11—DVPN.	
Interface	Access Interface.	N/A	Unsigned integer.	N/A
IfName	Interface name.	N/A	String. Length: 1 to 48 characters.	N/A
MacAddr	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VPNInstanceName	Authorized VPN instance name.	N/A	String. Length: 1 to 31 characters.	N/A
ServiceVLAN	Service provider VLAN.	N/A	Unsigned short.	Used when the “Interface” column is sub-interface.
CustomerVLAN	Customer VLAN.	N/A	Unsigned short.	Used with “ServiceVLAN”
IPv4Pool	PPP IPCP address pool name.	N/A	String. Length: 1 to 63 characters.	N/A
IPv6Pool	PPP IPV6 address pool name.	N/A	String, Length: 1 to 63 characters.	N/A
DomainName	Domain name.	N/A	String. Length: 1 to 255 characters.	N/A
IPv4PoolGroup	IPv4 pool group.	N/A	String. Length: 1 to 63 characters	N/A
IPv6PoolGroup	IPv6 pool group.	N/A	String. Length: 1 to 63 characters	N/A
IPType	IP address Type.	N/A	Enumeration: • 0—IPv4 • 1—IPv6. • 2—Dual-stack.	N/A
IPv6Protocol	IPv6 address protocal.	N/A	Enumeration: • 0—DHCPv6 • 1—ND	N/A
LACIPAddr	LAC IP address.	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LNSIPAddr	LNS IP address.	N/A	String, dotted decimal notation.	N/A
RemoteName	LAC or LNS tunnel name.	N/A	String. Length: 1 to 31 characters	N/A
StartTime	User access start time.	N/A	DateTime.	Used with “EndTime” Example: YYYY-MM-DD hh:mm:ss.
EndTime	User access end time.	N/A	DateTime.	Used with “StartTime” Example: YYYY-MM-DD hh:mm:ss.
UserAddressType	User IP address type.	N/A	Enumeration: • 0—DS-lite. • 1—IPv6. • 2—NAT64. • 3—Private-DS. • 4—Private-IPv4. • 5—Public-DS. • 6—Public-IPv4.	N/A
UserGroup	User group name.	N/A	String. Length: 1 to 32 characters	N/A
UserType	User type.	N/A	Enumeration: • 0—LAC. • 1—LNS. • 2—PPPoA. • 3—PPPoE.	N/A
StartVxlanID	Start vxlan ID.	N/A	Unsigned integer. 0~16777215.	N/A
EndVxlanID	End vxlan ID.	N/A	Unsigned integer. 0~16777215.	Used with “StartVxlanID”
Time	The time since user logon.	N/A	Unsigned integer. 1~7200.	Used with “ChassisId” and “SlotId”. Unit: seconds.
UPID	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP
PPPoAUser	PPPoA user count.	N/A	Unsigned integer.	N/A
PPPoFRUser	PPPoFR user count.	N/A	Unsigned integer.	N/A
PPPoPhyUser	PPPoPhy user count.	N/A	Unsigned integer.	N/A
VPPPUser	VPPP user count.	N/A	Unsigned integer.	N/A
LNSUser	LNS user count.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LACUser	LAC user count.	N/A	Unsigned integer.	N/A
L2IPoEDynamicUser	L2 IPoE dynamic user count.	N/A	Unsigned integer.	N/A
L2IPoEStaticUser	L2IPoE static user count.	N/A	Unsigned integer.	N/A
L2IPoEIfLeasedUser	L2IPoE interface leased user count.	N/A	Unsigned integer.	N/A
L2IPoESubnetleasedUser	L2IPoE subnet leased user count.	N/A	Unsigned integer.	N/A
L2IPoELeasedSubusers	L2IPoE leased sub-user count.	N/A	Unsigned integer.	N/A
IPoEL2VPNLeasedUser	IPoE L2VPN leased user count.	N/A	Unsigned integer.	N/A
L3IPoEDynamicUser	L3 IPoE dynamic user count.	N/A	Unsigned integer.	N/A
L3IPoEStaticUser	L3IPoE static user count.	N/A	Unsigned integer.	N/A
L3IPoEIfLeasedUser	L3IPoE interface leased user count.	N/A	Unsigned integer.	N/A
L3IPoESubnetLeasedUser	L3IPoE subnet leased user count.	N/A	Unsigned integer.	N/A
WebAuthUser	Web authenticated user count.	N/A	Unsigned integer.	N/A
PortalUser	Portal user count.	N/A	Unsigned integer.	N/A
TelnetUser	Telnet user count.	N/A	Unsigned integer.	N/A
SSHUser	SSH user count.	N/A	Unsigned integer.	N/A
HTTPUser	HTTP user count.	N/A	Unsigned integer.	N/A
HTTPSUser	HTTPS user count.	N/A	Unsigned integer.	N/A
FTPUser	FTP user count.	N/A	Unsigned integer.	N/A
CommandUser	Command user count.	N/A	Unsigned integer.	N/A
PADUser	PAD user count.	N/A	Unsigned integer.	N/A
TerminalUser	Terminal user count.	N/A	Unsigned integer.	N/A
MACAuthUser	MAC authenticated user count.	N/A	Unsigned integer.	N/A
Dot1XUser	Dot1X user count.	N/A	Unsigned integer.	N/A
IKEUser	IKE user count.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLVPNUser	SSLVPN user count.	N/A	Unsigned integer.	N/A
DVPNUser	DVPN user count.	N/A	Unsigned integer.	N/A

BRAS/OfflineReasonStatistics

This table contains the information about bras/OfflineReasonStatistics table.

XML structure

```
<BRAS>
  <OfflineReasonStatistics>
    <OfflineReasonStatistic>
      <ReasonID></ReasonID>
      <UPid></UPid>
      <ReasonType></ReasonType>
      <ReasonString></ReasonString>
      <Count></Count>
    </OfflineReasonStatistic>
  </OfflineReasonStatistics>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	OfflineReasonStatistics
Table type	Multi-instance table
Row name	OfflineReasonStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReasonID	Reason ID.	Index	Unsigned integer.	N/A
UPid	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192	N/A
ReasonType	Reason type.	N/A	Enumeration: • 0—main. • 1—sub.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReasonString	The reason for offline user.	N/A	String.	N/A
Count	The count of the special offline reason.	N/A	Unsigned integer.	N/A

BRAS/MaxUserHistorys

This table contains the information about bras/MaxUserHistory table.

XML structure

```
<BRAS>
  <MaxUserHistorys>
    <MaxUserHistory>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <UPID></UPID>
      <PPPoEMaxInit></PPPoEMaxInit>
      <PPPoEMaxInitTime></PPPoEMaxInitTime>
      <PPPoEMaxPass></PPPoEMaxPass>
      <PPPoEMaxPassTime></PPPoEMaxPassTime>
      <PPPoEMaxToDrv></PPPoEMaxToDrv>
      <PPPoEMaxToDrvTime></PPPoEMaxToDrvTime>
      <PPPoEMaxAccount></PPPoEMaxAccount>
      <PPPoEMaxAccountTime></PPPoEMaxAccountTime>
      <L2TPMaxInit></L2TPMaxInit>
      <L2TPMaxInitTime></L2TPMaxInitTime>
      <L2TPMaxPass></L2TPMaxPass>
      <L2TPMaxPassTime></L2TPMaxPassTime>
      <L2TPMaxToDrv></L2TPMaxToDrv>
      <L2TPMaxToDrvTime></L2TPMaxToDrvTime>
      <L2TPMaxAccount></L2TPMaxAccount>
      <L2TPMaxAccountTime></L2TPMaxAccountTime>
      <IPoEMaxInit></IPoEMaxInit>
      <IPoEMaxInitTime></IPoEMaxInitTime>
      <IPoEMaxPass></IPoEMaxPass>
      <IPoEMaxPassTime></IPoEMaxPassTime>
      <IPoEMaxToDrv></IPoEMaxToDrv>
      <IPoEMaxToDrvTime></IPoEMaxToDrvTime>
      <IPoEMaxAccount></IPoEMaxAccount>
      <IPoEMaxAccountTime></IPoEMaxAccountTime>
    </MaxUserHistory>
  </MaxUserHistorys>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	MaxUserHistorys
Table type	Multi-instance table
Row name	MaxUserHistory
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	Index	Unsigned integer.	N/A
SlotId	Slot ID.	Index	Unsigned integer.	N/A
UPID	UP ID.	N/A	Unsigned integer. 1024~8192	N/A
PPPoEMaxInit	Maximum concurrent PPPoE users initiating authentication.	N/A	Unsigned integer.	N/A
PPPoEMaxInitTime	Time of maximum concurrent PPPoE users initiating authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
PPPoEMaxPass	Maximum concurrent PPPoE users passing authentication.	N/A	Unsigned integer.	N/A
PPPoEMaxPassTime	Time of maximum concurrent PPPoE users passing authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
PPPoEMaxToDrv	Maximum concurrent PPPoE sessions setting to driver.	N/A	Unsigned integer.	N/A
PPPoEMaxToDrvTime	Time of maximum concurrent PPPoE sessions setting to driver.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
PPPoEMaxAccount	Maximum concurrent PPPoE users in accounting.	N/A	Unsigned integer.	N/A
PPPoEMaxAccountTime	Time of maximum concurrent PPPoE users in accounting.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss

Column name	Column description	Column type	Data type and restrictions	Remarks
L2TPMaxInit	Maximum concurrent L2TP users initiating authentication.	N/A	Unsigned integer.	N/A
L2TPMaxInitTime	Time of maximum concurrent L2TP users initiating authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
L2TPMaxPass	Maximum concurrent L2TP users passing authentication.	N/A	Unsigned integer.	N/A
L2TPMaxPassTime	Time of maximum concurrent L2TP users passing authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
L2TPMaxToDrv	Maximum concurrent L2TP sessions setting to driver.	N/A	Unsigned integer.	N/A
L2TPMaxToDrvTime	Time of maximum concurrent L2TP sessions setting to driver.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
L2TPMaxAccount	Maximum concurrent L2TP users in accounting	N/A	Unsigned integer.	N/A
L2TPMaxAccountTime	Time of maximum concurrent L2TP users in accounting.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
IPoEMaxInit	Maximum concurrent IPoE users initiating authentication.	N/A	Unsigned integer.	N/A
IPoEMaxInitTime	Time of maximum concurrent IPoE users initiating authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
IPoEMaxPass	Maximum concurrent IPoE users passing authentication.	N/A	Unsigned integer.	N/A
IPoEMaxPassTime	Time of maximum concurrent IPoE users passing authentication.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
IPoEMaxToDrv	Maximum concurrent IPoE sessions setting to driver.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPoEMaxToDrvTime	Time of maximum concurrent IPoE sessions setting to driver.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss
IPoEMaxAccount	Maximum concurrent IPoE users in accounting.	N/A	Unsigned integer.	N/A
IPoEMaxAccountTime	Time of maximum concurrent IPoE users in accounting.	N/A	DateTime.	Example: YYYY-MM-DD hh:mm:ss

BRAS/VASUserCount

This table contains the information about bras/VASUserCount table.

XML structure

```
<BRAS>
  <VASUserCount>
    <UPid></UPid>
    <VASUserType></VASUserType>
    <EDSGUserCount></EDSGUserCount>
    <ITAUserCount></ITAUserCount>
    <NoVASUserCount></NoVASUserCount>
    <EDSGUserInfos>
      <EDSGUserInfo>
        <EDSGUserID></EDSGUserID>
      </EDSGUserInfo>
    </EDSGUserInfos>
    <ITAUserInfos>
      <ITAUserInfo>
        <ITAUserID></ITAUserID>
      </ITAUserInfo>
    </ITAUserInfos>
    <NoVASUserInfos>
      <NoVASUserInfo>
        <NoVASUserID></NoVASUserID>
      </NoVASUserInfo>
    </NoVASUserInfos>
  </VASUserCount>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	VASUserCount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPid	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192	N/A
VASUserType	VAS user type.	N/A	• 0—Edsg. • 1—Ita. • 2—Service. • 3—NoVAS.	N/A
EDSGCount	The count of EDSG users.	N/A	Unsigned integer.	N/A
ITACount	The count of ITA users.	N/A	Unsigned integer.	N/A
NoVASCount	The count of users without a service.	N/A	Unsigned integer.	N/A
EDSGUserIDs	User ID of all EDSG users.	Sublist	N/A	N/A
ITAUserIDs	User ID of all ITA users.	Sublist	N/A	N/A
NoVASUserIDs	User ID of all users without a service.	Sublist	N/A	N/A

BRAS/VASUserCount/EDSGUserInfos

XML structure

Please refer to the XML structure of BRAS/VASUserCount.

Table description

Item	Description
Feature name	BRAS

Item	Description
Table name	EDSGUserInfos
Table type	Multi-instance table
Row name	EDSGUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EDSGUserID	EDSG User ID.	Index	Unsigned integer.	N/A

BRAS/VASUserCount/ITAUserInfos

XML structure

Please refer to the XML structure of BRAS/VASUserCount.

Table description

Item	Description
Feature name	BRAS
Table name	ITAUserInfos
Table type	Multi-instance table
Row name	ITAUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ITAUserID	ITA User ID.	Index	Unsigned integer.	N/A

BRAS/VASUserCount/NoVASUserInfos

XML structure

Please refer to the XML structure of BRAS/VASUserCount.

Table description

Item	Description
Feature name	BRAS
Table name	NoVASUserInfos
Table type	Multi-instance table
Row name	NoVASUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NoVASUserID	NoVAS User ID.	Index	Unsigned integer.	N/A

BRAS/AccessLog

This table contains the information about configuring Access Log.

XML structure

```
<BRAS>
 <AccessLog>
   <AbnormalLogout></AbnormalLogout>
   <FailedLogin></FailedLogin>
   <NormalLogout></NormalLogout>
   <SuccessfulLogin></SuccessfulLogin>
 </AccessLog>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	AccessLog
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AbnormalLogout	Abnormal logout.	N/A	Enumeration: • 1—Enable. • 2—Disable.	N/A
NormalLogout	Normal logout.	N/A	Enumeration: • 1—Enable. • 2—Disable.	N/A
FailedLogin	Failed login.	N/A	Enumeration: • 1—Enable. • 2—Disable.	N/A
SuccessfulLogin.	Successful login.	N/A	Enumeration: • 1—Enable. • 2—Disable.	N/A

BRAS/UCMNatChangeMode

This table contains the information about config the UCM NAT info change updating mode.

XML structure

```
<BRAS>
  <UCMNatChangeMode>
    <AccountingUpdateEnable></AccountingUpdateEnable>
 </UCMNatChangeMode>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	UCMNATChangeMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccountingUpdateEnable	Whether the NAT info change trigger accounting update	N/A	String: • Enable. • Disable.(default).	N/A

BRAS/UPSwitchAcctUpdateMode

This table contains the information about using the UP master/backup switchover to trigger accounting updates or accounting stop and accounting start.

XML structure

```
<BRAS>
  <UPSwitchAcctUpdateMode>
    <AccountingUpdateMode></AccountingUpdateMode>
 </UPSwitchAcctUpdateMode>
</BRAS>
```

Table description

Item	Description
Feature name	BRAS
Table name	UPSwitchAcctUpdateMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccountingUpdateMode	Whether the UP master/backup switchover triggers accounting updates or accounting stop and accounting start	N/A	String: • Send-Accounting-Update. • Send-Stop-Start • Disable (default).	N/A

Contents

BRAS event stream 1
IPoEAuthOnline event 1
XML structure for event subscription 1
XML structure for event report 1
IPoEAuthOffline event 3
XML structure for event subscription 3
XML structure for event report 4
IPoEAuthEvent event 6
XML structure for event subscription 6
XML structure for event report 7

BRAS event stream

IPoEAuthOnline event

This event is used to report ipoe access user online information.

XML structure for event subscription

```
<IPoEAuthOnline>
</IPoEAuthOnline >
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BRAS</stream>
    <filter type="subtree">
      <IPoEAuthOnline xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
      </IPoEAuthOnline>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BRAS
Event name	IPoEAuthOnline
Event namespace	http://www.h3c.com/netconf/event:1.0/BRAS:1.0
Support for extended query	No

XML structure for event report

```
<IPoEAuthOnline>
    <Time></Time>
    <UserMAC></UserMAC>
    <SN></SN>
    <UserID></UserID>
    <UserName></UserName>
    <AuthType></AuthType>
    <AccessType></AccessType>
    <Interface></Interface>
    <IfName></IfName>
    <CVLAN></CVLAN>
    <SVLAN></SVLAN>
    <IpAddr></IpAddr>
```

```
    <IPv6Addr></IPv6Addr>
    <PreAuthRequestTime></PreAuthRequestTime>
    <PreAuthResponseTime></reAuthResponseTime>
    <BehAuthRequestTime></BehAuthRequestTime>
    <BehAuthResponseTime></BehAuthResponseTime>
    <BehAccountTime></BehAccountTime>
  </IPoEAuthOnline>
</BRAS>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPoEAuthOnline xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
    <Time>2016-07-21T09:10:51</Time>
    <UserMAC>78bb-5231-0206</UserMAC>
    <SN>0</SN>
    <UserID>4001</UserID>
    <UserName>admin</UserName>
    <AuthType>1</AuthType>
    <AccessType>1</AccessType>
    <Interface>1102</Interface>
    <IfName>Route-Aggregation1</IfName>
    <CVLAN>10</CVLAN>
    <SVLAN>20</SVLAN>
    <IpAddr>2.2.2.2</IpAddr>
    <IPv6Addr>2:1::3:4</IPv6Addr>
    <PreAuthRequestTime>2016-07-20T10:10:01</PreAuthRequestTime>
    <PreAuthResponseTime>2016-07-20T10:10:09</reAuthResponseTime>
  </IPoEAuthOnline>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
UserName	User name.	String, Length: 1 to 31 characters.	No
AuthType	Authentication type.	Enumeration: • 1—Pre-auth. • 2—Beh-auth.	No
AccessType	IPoE user access type.	Enumeration: • 1—ARP. • 2—ND 3—DHCP.	No
Interface	Access Interface.	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name.	String. Length: 1 to 47 characters.	No
CVLAN	Customer VLAN.	Unsigned short.	No
SVLAN	Service provider VLAN.	Unsigned short.	No
IpAddr	IP address.	String, dotted decimal notation.	No
IPv6Addr	IPv6 address.	Hexadecimal string, colon-separated.	No
PreAuthRequestTime	Time when pre-auth send request packet	String, case-insensitive. Length: 1 to 19 characters.	No
PreAuthResponseTime	Time when pre-auth get response packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAuthRequestTime	Time when beh-auth send request packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAuthResponseTime	Time when beh-auth get response packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAccountTime	Beh-auth account start time.	String, case-insensitive. Length: 1 to 19 characters.	No

IPoEAuthOffline event

This event is used to report ipoe access user offline information.

XML structure for event subscription

```
<IPoEAuthOffline>
</IPoEAuthOffline>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BRAS</stream>
    <filter type="subtree">
      <IPoEAuthOffline xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
      </IPoEAuthOffline>
```

```
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BRAS
Event name	IPoEAuthOffline
Event namespace	http://www.h3c.com/netconf/event:1.0/BRAS:1.0
Support for extended query	No

XML structure for event report

```
<IPoEAuthOffline>
  <Time></Time>
  <UserMAC></UserMAC>
  <SN></SN>
  <UserID></UserID>
  <UserName></UserName>
  <AuthType></AuthType>
  <AccessType></AccessType>
  <Interface></Interface>
  <IfName></IfName>
  <CVLAN></CVLAN>
  <SVLAN></SVLAN>
  <IpAddr></IpAddr>
  <IPv6Addr></IPv6Addr>
  <OnlineFailed></OnlineFailed>
  <OfflineTime></OfflineTime>
  <PreAuthRequestTime></PreAuthRequestTime>
  <PreAuthResponseTime></reAuthResponseTime>
  <BehAuthRequestTime></BehAuthRequestTime>
  <BehAuthResponseTime></BehAuthResponseTime>
  <BehAccountTime></BehAccountTime>
  <ReasonCode></ReasonCode>
</IPoEAuthOffline>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPoEAuthOffline xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
    <UserMAC>78bb-5231-0206</UserMAC>
    <SN>0</SN>
    <UserID>4001</UserID>
    <UserName>admin</UserName>
    <AuthType>1</AuthType>
    <AccessType>1</AccessType>
```

```
    <Interface>1102</Interface>
    <IfName>Route-Aggregation1</IfName>
    <CVLAN>10</CVLAN>
    <SVLAN>20</SVLAN>
    <IpAddr>2.2.2.2</IpAddr>
    <IPv6Addr>2:1::3:4</IPv6Addr>
    <OnlineFailed>2</OnlineFailed>
    <OfflineTime>2016-07-20T10:10:10</OfflineTime>
    <PreAuthRequestTime>2016-07-20T10:10:01</PreAuthRequestTime>
    <PreAuthResponseTime>2016-07-20T10:10:09</reAuthResponseTime>
    <ReasonCode>normal</ReasonCode>
  </IPoEAuthOffline >
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Time	Encape date and time of the event	String, case-insensitive. Length: 1 to 19 characters.	No
UserMAC	MAC address.	String, form:H-H-H	No
SN	Equipment serial number	String, case-insensitive.Length: 1 to 19 characters	No
UserID	User ID.	Unsigned integer.	No
UserName	User name.	String, Length: 1 to 31 characters.	No
AuthType	Authentication type.	Enumeration: • 1—Pre-auth. 2—Beh-auth.	No
AccessType	IPoE user access type.	Enumeration: • 1—ARP. • 2—ND 3—DHCP.	No
Interface	Access Interface.	Unsigned integer.	No
IfName	Interface name.	String. Length: 1 to 47 characters.	No
CVLAN	Customer VLAN.	Unsigned short.	No

Column name	Column description	Data type and restrictions	Support for extended queries
SVLAN	Service provider VLAN.	Unsigned short.	No
IpAddr	IP address.	String, dotted decimal notation.	No
IPv6Addr	IPv6 address.	Hexadecimal string, colon-separated.	No
OnlineFailed	Is user online failed	Enumeration: • 1—Yes. 2—No	No
OfflineTime	User offline time	String, case-insensitive. Length: 1 to 19 characters.	No
PreAuthRequestTime	Time when pre-auth send request packet	String, case-insensitive. Length: 1 to 19 characters.	No
PreAuthResponseTime	Time when pre-auth get response packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAuthRequestTime	Time when beh-auth send request packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAuthResponseTime	Time when beh-auth get response packet	String, case-insensitive. Length: 1 to 19 characters.	No
BehAccountTime	Beh-auth account start time.	String, case-insensitive. Length: 1 to 19 characters.	No
ReasonCode	Offline reason	String. Length: 1 to 47 characters.	No

IPoEAuthEvent event

This event is used to report ipoe access user event information.

XML structure for event subscription

```
<IPoEAuthEvent>
</IPoEAuthEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BRAS</stream>
```

```
    <filter type="subtree">
      <IPoEAuthEvent xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
      </IPoEAuthEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	BRAS
Event name	IPoEAuthEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BRAS:1.0
Support for extended query	No

XML structure for event report

```
<IPoEAuthEvent>
  <Time></Time>
  <UserMAC></UserMAC>
  <SN></SN>
  <UserID></UserID>
  <UserName></UserName>
  <AuthType></AuthType>
  <EventType></EventType>
  <AccessType></AccessType>
  <Interface></Interface>
  <IfName></IfName>
  <CVLAN></CVLAN>
  <SVLAN></SVLAN>
  <IpAddr></IpAddr>
  <IPv6Addr></IPv6Addr>
  <BehLogoutTime></BehLogoutTime>
  <AccountTime></AccountTime>
  <DeleteTime></DeleteTime>
</IPoEAuthEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPoEAuthEvent xmlns="http://www.h3c.com/netconf/event:1.0/BRAS:1.0">
    <Time>2016-07-21T09:10:51</Time>
    <UserMAC>78bb-5231-0206</UserMAC>
    <SN>0</SN>
    <UserID>4001</UserID>
    <UserName>admin</UserName>
    <AuthType>1</AuthType>
    <EventType>2</EventType>
    <AccessType>1</AccessType>
```

```
    <Interface>1102</Interface>
    <IfName>Route-Aggregation1</IfName>
    <CVLAN>10</CVLAN>
    <SVLAN>20</SVLAN>
    <IpAddr>2.2.2.2</IpAddr>
    <IPv6Addr>2:1::3:4</IPv6Addr>
    <AccountTime>2016-07-20T10:10:01</AccountTime>
  </IPoEAuthEvent >
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Time	Encape date and time of the event	String, case-insensitive. Length: 1 to 19 characters.	No
UserMAC	MAC address.	String, form:H-H-H	No
SN	Equipment serial number	String, case-insensitive.Length: 1 to 19 characters	No
UserID	User ID.	Unsigned integer.	No
UserName	User name.	String, Length: 1 to 31 characters.	No
AuthType	Authentication type.	Enumeration: • 1—Pre-auth. 2—Beh-auth.	No
EventType	User event type	Enumeration: • 1—Logout. • 2—Add-stack • 3—Del-stack 4—User-Roam	No
AccessType	IPoE user access type.	Enumeration: • 1—ARP. • 2—ND 3—DHCP.	No
Interface	Access Interface.	Unsigned integer.	No
IfName	Interface name.	String. Length: 1 to 47 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
CVLAN	Customer VLAN.	Unsigned short.	No
SVLAN	Service provider VLAN.	Unsigned short.	No
IpAddr	IP address.	String, dotted decimal notation.	No
IPv6Addr	IPv6 address.	Hexadecimal string, colon-separated.	No
BehLogoutTime	Time when beh-auth logout	String, case-insensitive. Length: 1 to 19 characters.	No
AccountTime	Time when add-stack account start	String, case-insensitive. Length: 1 to 19 characters.	No
DeleteTime	Time when del-stack time	String, case-insensitive. Length: 1 to 19 characters.	No

Contents

BrasUpBackup 1
BrasUpBackup/Service 1
XML structure 1
Table description 1
Columns 1
BrasUpBackup/Groups 1
XML structure 2
Table description 2
Columns 2
BrasUpBackup/Groups/Interfaces 3
XML structure 3
Table description 3
Columns 4

BrasUpBackup

BrasUpBackup/Service

This table contains BRAS UP backup log information.

XML structure

```
<BrasUpBackup>
  <Service>
    <Log></Log>
  </Service>
</BrasUpBackup>
```

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Service
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Log	Whether or not to enable logging	N/A	Boolean: • true • false(default)	N/A

BrasUpBackup/Groups

This table contains BRAS UP backup group information.

XML structure

```
<BrasUpBackup>
  <Groups>
    <Group>
      <Id></Id>
      <Mode></Mode>
      <Interfaces>
        <Interface>
          <Master></Master>
          <MasterUPAddress></MasterUPAddress>
          <Standby></Standby>
          <StandbyUPAddress></StandbyUPAddress>
        </Interface>
      </Interfaces>
      <LogicUpId></LogicUpId>
      <ControlDownSwitch></ControlDownSwitch>
      <ControlDownSwitchDelay></ControlDownSwitchDelay>
      <FailureRecoverySwitch></FailureRecoverySwitch>
    </Group>
  </Groups>
</BrasUpBackup>
```

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Group ID	Index	Unsigned integer. Value range: 1 to 16384.	N/A

Mode	Group mode	N/A	Enumeration: String, case-insensitive. • hot • warm	N/A
Interfaces	Interface configuration	Sublist	N/A	For more information, see the Interfaces table.
LogicUpId	Logical UP ID	N/A	Unsigned integer. Value range: 1024 to 1279.	N/A
ControlDownSwitch	Interface state switchover upon OpenFlow connection failure	N/A	Boolean: • true(default) • false	N/A
ControlDownSwitchDelay	Switchover delay time	N/A	Unsigned integer. Value range: 1 to 1800 seconds.	N/A
FailureRecoverySwitch	Interface state switchover upon failure recovery	N/A	Boolean: • true(default) • false	N/A

BrasUpBackup/Groups/Interfaces

This table contains BRAS UP backup group interface information.

XML structure

Please refer to the XML structure of BrasUpBackup/Groups.

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Interfaces

Item	Description
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Master	Master interface name	Index	String. Length: 2 to 47 characters.	N/A
MasterUPAddress	Master UP Address	N/A	String, dotted decimal notation.	N/A
Standby	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
StandbyUPAddress	Backup UP Address	N/A	String, dotted decimal notation.	N/A

Contents

BrasUpBackup 1
BrasUpBackup/Service 1
XML structure 1
Table description 1
Columns 1
BrasUpBackup/Groups 1
XML structure 2
Table description 2
Columns 2
BrasUpBackup/Groups/Interfaces 3
XML structure 3
Table description 4
Columns 4

BrasUpBackup

BrasUpBackup/Service

This table contains BRAS UP backup log information.

XML structure

```
<BrasUpBackup>
  <Service>
    <Log></Log>
  </Service>
</BrasUpBackup>
```

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Service
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Log	Whether or not to enable logging	N/A	Boolean: • true • false	N/A

BrasUpBackup/Groups

This table contains BRAS UP backup group information.

XML structure

```
<BrasUpBackup>
  <Groups>
    <Group>
      <Id></Id>
      <Mode></Mode>
      <Interfaces>
        <Interface>
          <Master></Master>
          <MasterState></MasterState>
          <MasterUPAddress></MasterUPAddress>
          <Standby></Standby>
          <StandbyState></StandbyState>
          <StandbyUPAddress></StandbyUPAddress>
        </Interface>
      </Interfaces>
      <LogicUpId></LogicUpId>
      <ControlDownSwitch></ControlDownSwitch>
      <ControlDownSwitchDelay></ControlDownSwitchDelay>
      <FailureRecoverySwitch></FailureRecoverySwitch>
    </Group>
  </Groups>
</BrasUpBackup>
```

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Group ID	Index	Unsigned integer.	N/A

			Value range: 1 to 16384.	
Mode	Group Mode	N/A	Enumeration: String, case-insensitive. Values include: • hot • warm	N/A
Interfaces	Interface configuration	Sublist	N/A	For more information, see the Interfaces table.
LogicUpId	Logical UP ID	N/A	Unsigned integer. Value range: 1024 to 1279.	N/A
ControlDownSwitch	Interface state switchover upon OpenFlow connection failure	N/A	Boolean: • true • false	N/A
ControlDownSwitchDelay	Switchover delay time	N/A	Unsigned integer. Value range:1 to 1800 seconds	N/A
FailureRecoverySwitch	Interface state switchover upon failure recovery	N/A	Boolean: • true • false	N/A

BrasUpBackup/Groups/Interfaces

This table contains BRAS UP backup group interface information.

XML structure

Please refer to the XML structure of BrasUpBackup/Groups.

Table description

Item	Description
Feature name	BrasUpBackup
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Master	Master interface name	Index	String. Length: 2 to 47 characters.	N/A
MasterState	Master interface state	N/A	Enumeration: • 0—master • 1—backup	N/A
MasterUPAddress	Master UP Address	N/A	String, dotted decimal notation.	N/A
Standby	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
StandbyState	Backup interface state	N/A	Enumeration: • 0—master • 1—backup	N/A
StandbyUPAddress	Backup UP Address	N/A	String, dotted decimal notation.	N/A

Contents

BrasUpBackup 1
BrasUpBackup/Service 1
BrasUpBackup/Groups 1
BrasUpBackup/Groups/Interfaces 1

BrasUpBackup

BrasUpBackup/Service

Message	Explanation
Service failed to start. UpBackup进程未启动失败。	Invalid configuration, please modify configuration under the guidance.
Incorrect length of received data. 接受数据长度不正确。	Invalid configuration, please modify configuration under the guidance.

BrasUpBackup/Groups

Message	Explanation
When creating a group, you must specify the backup mode. 创建Group时没有携带Mode参数（Mode为创建Group必须配置参数）。	Invalid configuration, please modify configuration under the guidance.
Modifying backup mode is not allowed. 试图修改备份组Group的Mode（Group的Mode不能修改）。	Invalid configuration, please modify configuration under the guidance.
Online users exist. This group cannot be deleted. 删除有上线用户的Group。	Invalid configuration, please modify configuration under the guidance.
Failed to create the group. 创建Group失败。	Invalid configuration, please modify configuration under the guidance.
Cannot set ControlDownSwitchDelay when you disable ControlDownSwitch. 当去使能ControlDownSwitch时不能携带ControlDownSwitchDelay配置。	Invalid configuration, please modify configuration under the guidance.

BrasUpBackup/Groups/Interfaces

Message	Explanation
Online users exist. This backup relationship cannot be deleted. 删除有上线用户的备份关系。	Invalid configuration, please modify configuration under the guidance.
Cannot configure ControlDownSwitchDelay when ControlDownSwitch is false. 当ControlDownSwitch为去使能状态，不能配置ControlDownSwitchDelay。	Invalid configuration, please modify configuration under the guidance.
The standby interface must be configured when creating backup relationships. 当创建备份关系时，必须配置备接口。	Invalid configuration, please modify configuration under the guidance.

Remote interface not ready. 远程接口还未就绪。	Invalid configuration, please modify configuration under the guidance.
Backup relationship cannot be modified. 备份关系不能被修改。	Invalid configuration, please modify configuration under the guidance.
Cannot configure backup relationship on the same UP device. 不能在同一个UP上配置备份关系。	Invalid configuration, please modify configuration under the guidance.
The standby UP address must be configured when creating VSRP backup relationships. 当创建多机备份组时，必须配置备UP地址。	Invalid configuration, please modify configuration under the guidance.

Contents

Bridge 1
Bridge/Base 1
XML structure 1
Table description 1
Columns 1
Bridge/Instances 1
XML structure 2
Table description 2
Columns 2

Bridge

Bridge/Base

This table contains global bridge information.

XML structure

```
<Bridge>
  <Base>
    <TunnelSkip></TunnelSkip>
  </Base>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSkip	Skip the tunnel encapsulation fields during packet parsing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Bridge/Instances

This table contains information about individual bridge instances. There are four types of bridge instances. In a forward-type bridge instance, two member interfaces are required. In other types of bridge instances, only one member interface is required.

XML structure

```
<Bridge>
  <Instances>
    <Instance>
      <BridgeID></BridgeID>
      <Mode></Mode>
      <IfIndex1></IfIndex1>
      <IfIndex2></IfIndex2>
      <Bypass></Bypass>
    </Instance>
  </Instances>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports the interface only in un-shared mode.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeID	Bridge ID	Index	Unsigned integer. **Value range: 0-128**.	The value 0 means to create a new bridge instance.
Mode	Mode of the bridge instance.	N/A	Unsigned integer. Value range:1 to 4.	The mode of bridge instance： 1: inter-vlan 2: reflect 3: blackhole 4: forward
IfIndex1	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS

Column name	Column description	Column type	Data type and restrictions	Remarks
				interfaces.
IfIndex2	Interface index	N/A	Unsigned integer.	I Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
Bypass	Status of the security service processing bypass feature.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

Bridge 1
Bridge/Base 1
XML structure 1
Table description 1
Columns 1
Bridge/Instances 1
XML structure 2
Table description 2
Columns 2
Bridge/Specification 3
XML structure 3
Table description 3
Columns 3

Bridge

Bridge/Base

This table contains global bridge information.

XML structure

```
<Bridge>
  <Base>
    <TunnelSkip></TunnelSkip>
  </Base>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSkip	Skip the tunnel encapsulation fields during packet parsing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Bridge/Instances

This table contains information about individual bridge instances. There are four types of bridge instances. In a forward-type bridge instance, two member interfaces are required. In other types of bridge instances, only one member interface is required.

XML structure

```
<Bridge>
  <instances>
    <Instance>
      <BridgeID></BridgeID>
      <Mode></Mode>
      <IfIndex1></IfIndex1>
      <IfIndex2></IfIndex2>
       <Bypass></Bypass>
    </Instance>
  </Instances>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports the interface only in un-shared mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeID	Bridge ID	Index	Unsigned integer. **Value range: 0-128**.	The value 0 means to create a new bridge instance.
Mode	Mode of the bridge instance.	N/A	Unsigned integer. Value range:1 to 4.	The mode of bridge instance： 1: inter-vlan 2: reflect 3: blackhole 4: forward
IfIndex1	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
IfIndex2	Interface index	N/A	Unsigned integer.	Some versions support interface

Column name	Column description	Column type	Data type and restrictions	Remarks
				name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
Bypass	Status of the security service processing bypass feature.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Bridge/Specification

This table contains bridge specification information of the current device.

XML structure

```
<Bridge>
  <Specification>
    <SupportInline></SupportInline>
  </Specification>
</Bridge>
```

Table description

Item	**Description**
Feature name	Bridge
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportInline	Support for the inline-forward configurations.	N/A	Boolean: • **true**. • **false**.

Contents

BufferMonitor 1

BufferMonitor/GlobalConfigurations 1
XML structure 1
Table description 1
Columns 1
BufferMonitor/BoardConfigurations 2
XML structure 2
Table description 3
Columns 3
BufferMonitor/BoardQueConfigurations 3
XML structure 3
Table description 4
Columns 4
BufferMonitor/PortConfigurations 4
XML structure 4
Table description 5
Columns 5
BufferMonitor/PortQueConfigurations 5
XML structure 5
Table description 6
Columns 6
BufferMonitor/BufferApply 6
XML structure 6
Table description 7
Columns 7
BufferMonitor/BufferApply/QueueBuffers 8
XML structure 8
Table description 8
Columns 8
BufferMonitor/BufferApply/TotalShareds 9
XML structure 9
Table description 9
Columns 9

BufferMonitor

BufferMonitor/GlobalConfigurations

This table is used to configure the global configurations for buffer monitor.

XML structure

```
<BufferMonitor>
  <GlobalConfigurations>
    <DropAlarmEnable></DropAlarmEnable>
    <DropAlarmInterval></DropAlarmInterval>
    <IngressAlarmEnable></IngressAlarmEnable>
    <IngressAlarmInterval></IngressAlarmInterval>
    <EgressAlarmEnable></EgressAlarmEnable>
    <EgressAlarmInterval></EgressAlarmInterval>
    <HeadroomAlarmEnable></HeadroomAlarmEnable>
    <HeadroomAlarmInterval></HeadroomAlarmInterval>
    <BurstEnable></BurstEnable>
  </GlobalConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions
DropAlarmEnable	Drop alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
DropAlarmInterval	Drop alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.

Column name	Column description	Column type	Data type and restrictions
IngressAlarmEnable	Ingress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
IngressAlarmInterval	Ingress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
EgressAlarmEnable	Egress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
EgressAlarmInterval	Egress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
HeadroomAlarmEnable	Headroom threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
HeadroomAlarmInterval	Headroom threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
BurstEnable	BurstEnable threshold alarm enable status	N/A	Boolean: • **true** • **false**

BufferMonitor/BoardConfigurations

This table is used to configure the node's configuration for buffer monitor.

XML structure

```
<BufferMonitor>
  <BoardConfigurations>
    <BoardConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <BurstEnable></BurstEnable>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </BoardConfiguration>
  </BoardConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardConfigurations
Table type	Multi-instance table
Row name	BoardConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
BurstEnable	BurstEnable threshold alarm enable status	N/A	Boolean: • **true** • **false**
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/BoardQueConfigurations

This table is used to configure the queue of node for buffer monitor.

XML structure

```
<BufferMonitor>
  <BoardQueConfigurations>
   <BoardQueConfiguration>
     <Chassis></Chassis>
     <Slot></Slot>
     <CPUID></CPUID>
```

```
    <QueIndex></QueIndex>
    <IngressThreshold></IngressThreshold>
    <EgressThreshold></EgressThreshold>
  </BoardQueConfiguration>
 </BoardQueConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardQueConfigurations
Table type	Multi-instance table
Row name	BoardQueConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/PortConfigurations

This table is used to configure the interface for buffer monitor

XML structure

```
<BufferMonitor>
  <PortConfigurations>
    <PortConfiguration>
```

```
      <IfIndex></IfIndex>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </PortConfiguration>
  </PortConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PortConfigurations
Table type	Multi-instance table
Row name	PortConfiguration
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/PortQueConfigurations

This table is used to configure the queue of interface for buffer monitor

XML structure

```
<BufferMonitor>
  <PortQueConfigurations>
    <PortQueConfiguration>
      <IfIndex></IfIndex>
      <QueIndex></QueIndex>
      <IngressThreshold></IngressThreshold>
```

```
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </PortQueConfiguration>
  </PortQueConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PortQueConfigurations
Table type	Multi-instance table
Row name	PortQueConfiguration
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/BufferApply

This table is used to configure the buffer configurations to apply.

XML structure

```
<BufferMonitor>
  <BufferApply>
    <Apply></Apply>
    <QueueBuffers>
      <QueueBuffer>
        <Chassis></Chassis>
        <Slot></Slot>
```

```
        <CPUID></CPUID>
        <Direction></Direction>
        <Resource></Resource>
        <AreaType></AreaType>
        <QueIndex></QueIndex>
        <Unit></Unit>
        <Value></Value>
      </QueueBuffer>
    </QueueBuffers>
    <TotalShareds>
      <TotalShared>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Direction></Direction>
        <Resource></Resource>
        <AreaType></AreaType>
        <Unit></Unit>
        <Value></Value>
      </TotalShared>
    </TotalShareds>
  </BufferApply>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Apply	Apply buffer configurations	N/A	Boolean: • **true**—Apply buffer configurations • **false**—Remove the application of buffer configurations
QueueBuffers	Queue buffer table	Subtable	N/A

Column name	Column description	Column type	Data type and restrictions
TotalShareds	Total shared table	Subtable	N/A

BufferMonitor/BufferApply/QueueBuffers

This table is used to configure the queue buffer configurations.

XML structure

```
See the XML structure of BufferMonitor/BufferApply
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply/QueueBuffers
Table type	Multi-instance table
Row name	QueueBuffer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 means global configuration.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Direction	Buffer direction	Index	Enumeration: • 0—Ingress • 1—Egress
Resource	Buffer resource	Index	Enumeration: • 0—Cell • 1—Packet
AreaType	Area type	Index	Enumeration: • 0—Guaranteed • 1—Shared

Column name	Column description	Column type	Data type and restrictions
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
Unit	Unit of the value	N/A	Enumeration: • 0—Absolute • 1—Percentage
Value	Value	N/A	Unsigned integer.

BufferMonitor/BufferApply/TotalShareds

This table is used to configure the total shared buffer configurations.

XML structure

```
See the XML structure of BufferMonitor/BufferApply
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply/TotalShareds
Table type	Multi-instance table
Row name	TotalShareds
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Direction	Buffer direction	Index	Enumeration: • 0—Ingress • 1—Egress
Resource	Buffer resource	Index	Enumeration: • 0—Cell

Column name	Column description	Column type	Data type and restrictions
			• 1—Packet
Unit	Unit of the value	N/A	Enumeration: • 0—Absolute • 1—Percentage
Value	Value	N/A	Unsigned integer.

Contents

BufferMonitor 1

BufferMonitor/GlobalConfigurations 1
XML structure 1
Table description 1
Columns 1
BufferMonitor/BoardConfigurations 2
XML structure 2
Table description 3
Columns 3
BufferMonitor/BoardQueConfigurations 3
XML structure 3
Table description 4
Columns 4
BufferMonitor/PortConfigurations 4
XML structure 4
Table description 5
Columns 5
BufferMonitor/PortQueConfigurations 5
XML structure 5
Table description 6
Columns 6
BufferMonitor/EgressDrops 6
XML structure 6
Table description 7
Columns 7
BufferMonitor/EgressDetailDrops 8
XML structure 8
Table description 8
Columns 8
BufferMonitor/BoardEgressDrops 9
XML structure 9
Table description 10
Columns 10
BufferMonitor/BoardEgressDropsSums 10
XML structure 10
Table description 11
Columns 11
BufferMonitor/Capabilities 11
XML structure 11
Table description 12
Columns 12
BufferMonitor/BufferApply 12
XML structure 12
Table description 13
Columns 13
BufferMonitor/BufferApply/QueueBuffers 13
XML structure 13
Table description 14
Columns 14
BufferMonitor/BufferApply/TotalShareds 14
XML structure 15
Table description 15
Columns 15
BufferMonitor/PFCStatistics 15
XML structure 15
Table description 16
Columns 16

BufferMonitor

BufferMonitor/GlobalConfigurations

This table is used to configure the global configurations for buffer monitor.

XML structure

```
<BufferMonitor>
  <GlobalConfigurations>
    <DropAlarmEnable></DropAlarmEnable>
    <DropAlarmInterval></DropAlarmInterval>
    <IngressAlarmEnable></IngressAlarmEnable>
    <IngressAlarmInterval></IngressAlarmInterval>
    <EgressAlarmEnable></EgressAlarmEnable>
    <EgressAlarmInterval></EgressAlarmInterval>
    <HeadroomAlarmEnable></HeadroomAlarmEnable>
    <HeadroomAlarmInterval></HeadroomAlarmInterval>
    <BurstEnable></BurstEnable>
  </GlobalConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions
DropAlarmEnable	Drop alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
DropAlarmInterval	Drop alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.

Column name	Column description	Column type	Data type and restrictions
IngressAlarmEnable	Ingress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
IngressAlarmInterval	Ingress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
EgressAlarmEnable	Egress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
EgressAlarmInterval	Egress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
HeadroomAlarmEnable	Headroom threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
HeadroomAlarmInterval	Headroom threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
BurstEnable	BurstEnable threshold alarm enable status	N/A	Boolean: • **true** • **false**

BufferMonitor/BoardConfigurations

This table is used to configure the node's configuration for buffer monitor.

XML structure

```
<BufferMonitor>
  <BoardConfigurations>
    <BoardConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <BurstEnable></BurstEnable>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </BoardConfiguration>
  </BoardConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardConfigurations
Table type	Multi-instance table
Row name	BoardConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
BurstEnable	BurstEnable threshold alarm enable status	N/A	Boolean: • **true** • **false**
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/BoardQueConfigurations

This table is used to configure the queue of node for buffer monitor.

XML structure

```
<BufferMonitor>
  <BoardQueConfigurations>
    <BoardQueConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
```

```
      <QueIndex></QueIndex>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
    </BoardQueConfiguration>
  </BoardQueConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardQueConfigurations
Table type	Multi-instance table
Row name	BoardQueConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/PortConfigurations

This table is used to configure the interface for buffer monitor..

XML structure

```
<BufferMonitor>
  <PortConfigurations>
    <PortConfiguration>
```

```
      <IfIndex></IfIndex>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </PortConfiguration>
  </PortConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PortConfigurations
Table type	Multi-instance table
Row name	PortConfiguration
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/PortQueConfigurations

This table is used to configure the queue of interface for buffer monitor..

XML structure

```
<BufferMonitor>
  <PortQueConfigurations>
    <PortQueConfiguration>
      <IfIndex></IfIndex>
      <QueIndex></QueIndex>
      <IngressThreshold></IngressThreshold>
```

```
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </PortQueConfiguration>
  </PortQueConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PortQueConfigurations
Table type	Multi-instance table
Row name	PortQueConfiguration
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/EgressDrops

This table is used to get the egress drops data for buffer monitor.

XML structure

```
<BufferMonitor>
  <EgressDrops>
    <EgressDrop>
      <IfIndex/>
      <IfName/>
      <UnicastDroppedPkts/>
```

```
      <UnicastDroppedBytes/>
      <MulticastDroppedPkts/>
      <MulticastDroppedBytes/>
      <DroppedPkts/>
      <DroppedBytes/>
    </EgressDrop>
  </EgressDrops>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	EgressDrops
Table type	Multi-instance table
Row name	EgressDrop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
UnicastDroppedPkts	Number of packets lost in outgoing unicast queue	N/A	String
UnicastDroppedBytes	Number of bytes lost in outgoing unicast queue	N/A	String
MulticastDroppedPkts	Number of packets lost in outgoing Multicast queue	N/A	String
MulticastDroppedBytes	Number of bytes lost in outgoing Multicast queue	N/A	String
DroppedPkts	Number of packets lost in specific interface	N/A	String
DroppedBytes	Number of bytes lost in specific interface	N/A	String

BufferMonitor/EgressDetailDrops

This table is used to get the egress detail drops data for buffer monitor.

XML structure

```
<BufferMonitor>
  <EgressDetailDrops>
    <EgressDetailDrop>
      <IfIndex/>
      <IfName/>
      <UnicastNobufferDroppedPkts/>
      <UnicastNobufferDroppedBytes/>
      <MulticastNobufferDroppedPkts/>
      <MulticastNobufferDroppedBytes/>
      <UnicastOtherDroppedPkts/>
      <UnicastOtherDroppedBytes/>
      <MulticastOtherDroppedPkts/>
      <MulticastOtherDroppedBytes/>
    </EgressDetailDrop>
  </EgressDetailDrops>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	EgressDetailDrops
Table type	Multi-instance table
Row name	EgressDetailDrop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
UnicastNobufferDroppedPkts	Number of packets lost in outgoing unicast queue due	N/A	String

Column name	Column description	Column type	Data type and restrictions
	to no buffer		
UnicasNobuffertDroppedBytes	Number of bytes lost in outgoing unicast queue due to no buffer	N/A	String
MulticastNobufferDroppedPkts	Number of packets lost in outgoing Multicast queue due to no buffer	N/A	String
MulticastNobufferDroppedBytes	Number of bytes lost in outgoing Multicast queue due to no buffer	N/A	String
UnicastOtherDroppedPkts	Number of packets lost in outgoing unicast queue due to others	N/A	String
UnicastOtherDroppedBytes	Number of bytes lost in outgoing unicast queue due to others	N/A	String
MulticastOtherDroppedPkts	Number of packets lost in outgoing Multicast queue due to others	N/A	String
MulticastOtherDroppedBytes	Number of bytes lost in outgoing Multicast queue due to others	N/A	String

BufferMonitor/BoardEgressDrops

This table is used to get the slot egress drops data for buffer monitor.

XML structure

```
<BufferMonitor>
  <BoardEgressDrops>
    <BoardEgressDrop>
     <Chassis/>
      <Slot/>
      <Cpu/>
      <DroppedPkts/>
      <DroppedBytes/>
    </BoardEgressDrop>
   </BoardEgressDrops>
 </BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardEgressDrops
Table type	Multi-instance table
Row name	BoardEgressDrop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	Index	Unsigned integer.
Slot	Slot number	Index	Unsigned integer.
Cpu	Cpu number	Index	Unsigned integer.
DroppedPkts	Number of packets lost in Egress direction at whole slot	N/A	String
DroppedBytes	Number of bytes lost in Egress direction at whole slot	N/A	String

BufferMonitor/BoardEgressDropsSums

This table is used to get the slot egress drops data for buffer monitor without distinguishing queues.

XML structure

```
<BufferMonitor>
  <BoardEgressDropsSums>
    <BoardEgressDropsSum>
      <Chassis/>
      <Slot/>
      <Cpu/>
      <DroppedPkts/>
      <DroppedBytes/>
    </BoardEgressDropsSum>
  </BoardEgressDropsSums>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardEgressDropsSums
Table type	Multi-instance table
Row name	BoardEgressDropsSum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
Cpu	Cpu number	Index	Unsigned integer. Value range: 0 to 7.
DroppedPkts	Number of packets lost in Egress direction at whole slot	N/A	String.
DroppedBytes	Number of bytes lost in Egress direction at whole slot	N/A	String.

BufferMonitor/Capabilities

This table contains slot egress drops capability information.

XML structure

```
<BufferMonitor>
  <Capabilities>
    <BoardEgressDropsEnable/>
    <BoardEgressDropsSumEnable/>
  </Capabilities>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	Capabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
BoardEgressDrops Enable	Whether the slot support egress drops data for buffer monitor with distinguishing queues	N/A	Boolean: • **true** • **false**
BoardEgressDrops SumEnable	Whether the slot support egress drops data for buffer monitor without distinguishing queues	N/A	Boolean: • **true** • **false**

BufferMonitor/BufferApply

This table is used to configure the buffer configurations which become effective after being applied.

XML structure

```
<BufferMonitor>
  <BufferApply>
    <Apply></Apply>
    <QueueBuffers>
      <QueueBuffer>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
      <Resource></Resource>
      <AreaType></AreaType>
      <QueIndex></QueIndex>
      <Unit></Unit>
```

```
      <Value></Value>
      </QueueBuffer>
    </QueueBuffers>
    <TotalShareds>
      <TotalShared>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Direction></Direction>
        <Resource></Resource>
        <Unit></Unit>
        <Value></Value>
      </TotalShared>
    </TotalShareds>
  </BufferApply>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Apply	Buffer apply	N/A	Boolean: • **true**—Buffer apply • **false**—Undo buffer apply
QueueBuffers	Queue buffer table	Subtable	N/A
TotalShareds	Total Shared table	Subtable	N/A

BufferMonitor/BufferApply/QueueBuffers

This table is used to configure the queue buffer configurations.

XML structure

```
See the XML structure of BufferMonitor/BufferApply
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply/QueueBuffers
Table type	Multi-instance table
Row name	QueueBuffer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 means global configuration.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Direction	Buffer direction	Index	Enumeration: • 0—Ingress • 1—Egress
Resource	Buffer resource	Index	Enumeration: • 0—Cell • 1—Packet
AreaType	Area type	Index	Enumeration: • 0—Guaranteed • 1—Shared
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
Unit	Unit of the value	N/A	Enumeration: • 0—Absolute • 1—Percentage
Value	Value	N/A	Unsigned integer.

BufferMonitor/BufferApply/TotalShareds

This table is used to configure the total-shared configurations.

XML structure

```
See the XML structure of BufferMonitor/BufferApply
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BufferApply/TotalShareds
Table type	Multi-instance table
Row name	TotalShareds
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Direction	Buffer direction	Index	Enumeration: • 0—Ingress • 1—Egress
Resource	Buffer resource	Index	Enumeration: • 0—Cell • 1—Packet
Unit	Unit of the value	N/A	Enumeration: • 0—Absolute • 1—Percentage
Value	Value	N/A	Unsigned integer.

BufferMonitor/PFCStatistics

XML structure

```
<BufferMonitor>
  <PFCStatistics>
```

```
    <PFCStatistic>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PfcSend></PfcSend>
      <PfcRecv></PfcRecv>
      <PfcDeadlockCounters></PfcDeadlockCounters>
      <PfcDeadlockRecoverCounters></PfcDeadlockRecoverCounters>
    </PFCStatistic>
  </PFCStatistics>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PFCStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	N/A	Unsigned integer.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
PfcSend	Number of sent PFC frames	N/A	String
PfcRecv	Number of received PFC frames	N/A	String
PfcDeadlockCounters	Number of deadlock monitoring frames	N/A	String
PfcDeadlockRecoverCounters	Number of deadlock recovery frames	N/A	String

Contents

BufferMonitor event stream 1
BoardOverrunEvent event 1
XML structure for event subscription 1
XML structure for event report 2
PortQueOverrunEvent event 3
XML structure for event subscription 3
XML structure for event report 4
PortQueDropEvent event 5
XML structure for event subscription 5
XML structure for event report 6

BufferMonitor event stream

BoardOverrunEvent event

This event is used to report counters of board overrun threshold.

XML structure for event subscription

```
<BoardOverrunEvent>
  <BoardOverrun>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <AlarmType></AlarmType>
  </BoardOverrun>
</BoardOverrunEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns ="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BufferMonitor</stream>
      <filter>
      <BoardOverrunEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
         <BoardOverrun>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <AlarmType>1</AlarmType>
        </BoardOverrun>
       </BoardOverrunEvent>
       </filter>
   </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	BoardOverrunEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A
AlarmType	Alarm type.	Unsigned integer.	1—for Headroom overrun	Alarm type.

XML structure for event report

```
<BoardOverrunEvent>
  <BoardOverrun>
    <Chassis/>
    <Slot/>
    <CPUID/>
    <AlarmType/>
    <CurrentValue/>
    <CurrentRatio/>
    <Threshold/>
  </BoardOverrun>
<BoardOverrunEvent>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
AlarmType	Alarm type.	Unsigned integer.	1—for Headroom overrun
CurrentValue	Current value.	Unsigned integer. Value range: 0 to 65535.	
CurrentRatio	Current usage ratio.	Unsigned integer. Value range: 1 to 100.	

Column name	Column description	Data type and restrictions	Remarks
Threshold	Threshold usage ratio.	Unsigned integer. Value range: 1 to 100.	

PortQueOverrunEvent event

This event is used to report counters of interface's queue overrun threshold.

XML structure for event subscription

```
<PortQueOverrunEvent>
  <PortQueOverrun>
    <IfIndex></IfIndex>
    <QueIndex></QueIndex>
    <AlarmType></AlarmType>
    <IfName></IfName>
  </PortQueOverrun>
</PortQueOverrunEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns ="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BufferMonitor</stream>
      <filter>
      <PortQueOverrunEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
        <PortQueOverrun>
          <IfIndex>20</IfIndex>
          <QueIndex>1</QueIndex>
          <AlarmType>2</AlarmType>
          <IfName>GigabitEthernet2/0/2</IfName>
        </PortQueOverrun>
      </PortQueOverrunEvent>
      </filter>
   </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	PortQueOverrunEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	N/A
QueIndex	Queue index	Unsigned integer.	No	N/A
AlarmType	Alarm type.	Unsigned integer.	No	1— for ingress overrun 2— for egress overrun 3— for headroom overrun
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No	N/A

XML structure for event report

```
<PortQueOverrunEvent>
  <IfIndex></IfIndex>
  <QueIndex></QueIndex>
  <AlarmType></AlarmType>
  <CurrentValue><CurrentValue>
  <CurrentRatio></CurrentRatio>
  <Threshold></Threshold>
  <OverrunCounters></OverrunCounters>
  <IfName></IfName>
</PortQueOverrunEvent>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfIndex	Interface index	Unsigned integer.	N/A
QueIndex	Queue index	Unsigned integer.	N/A
AlarmType	Alarm type.	Unsigned integer.	1— for ingress overrun 2— for egress overrun 3— for headroom overrun
CurrentValue	Current value.	Unsigned integer.	
CurrentRatio	Current usage ratio.	Unsigned integer. Value range: 1 to 100.	
Threshold	Threshold usage ratio.	Unsigned integer. Value range: 1 to 100.	
OverrunCounters	Current value.	N/A	Unsigned integer.

Column name	Column description	Data type and restrictions	Remarks
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example:	N/A

PortQueDropEvent event

This event is used to report counters of interface's queue drop threshold.

XML structure for event subscription

```
<PortQueDropEvent>
  <PortQueDrop>
    <IfIndex></IfIndex>
    <QueIndex></QueIndex>
    <AlarmType></AlarmType>
    <IfName></IfName>
  </PortQueDrop>
</PortQueDropEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns ="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>BufferMonitor</stream>
      <filter>
      <PortQueDropEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
        <PortQueDrop>
          <IfIndex>20</IfIndex>
          <QueIndex>1</QueIndex>
          <AlarmType>2</AlarmType>
          <IfName>GigabitEthernet2/0/2</IfName>
        </PortQueDrop>
       </PortQueDropEvent>
     </filter>
   </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	PortQueDropEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	N/A
QueIndex	Queue index	Unsigned integer.	No	N/A
AlarmType	Alarm type.	Unsigned integer.	No	1— for ingress drops 2— for egress drops
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No	N/A

XML structure for event report

```
<PortQueDropEvent>
  <IfIndex></IfIndex>
  <QueIndex></QueIndex>
  <AlarmType></AlarmType>
  <DropCounters></DropCounters>
  <DropBytes></DropBytes>
  <IfName></IfName>
</PortQueDropEvent>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfIndex	Interface index	Unsigned integer.	N/A
QueIndex	Queue indexs	Unsigned integer.	N/A
AlarmType	Alarm type.	Unsigned integer.	1— for ingress drops 2— for egress drops
DropCounters	Current value.	Unsigned integer.	
DropBytes	Current value.	Unsigned integer.	
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Contents

BYOD 1
BYOD/DhcpOption55Rules 1
XML structure 1
Table description 1
Columns 1
BYOD/UserAgentRules 2
XML structure 2
Table description 2
Columns 2
BYOD/MacRules 3
XML structure 3
Table description 3
Columns 3
BYOD/AuthorizationInfos 4
XML structure 4
Table description 5
Columns 5

BYOD

BYOD/DhcpOption55Rules

BYOD DHCP Option 55 rule table for endpoint identification.

XML structure

```
<BYOD>
  <DhcpOption55Rules>
    <DhcpOption55Rule>
      <DhcpOption55Value></DhcpOption55Value>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
    </DhcpOption55Rule>
  </DhcpOption55Rules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	DhcpOption55Rules
Table type	Multi-instance table
Row name	DhcpOption55Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
DhcpOption55Value	DHCP Option 55 value	Index	String. Length: 1 to 255 characters.
DeviceType	Device type	N/A	String. Length: 1 to 127 characters.
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.
DeviceCategory	Device category	N/A	String. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.

BYOD/UserAgentRules

BYOD HTTP user agent rule table for endpoint identification.

XML structure

```
<BYOD>
  <UserAgentRules>
    <UserAgentRule>
      <UserAgentValue></UserAgentValue>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
    </UserAgentRule>
  </UserAgentRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	UserAgentRules
Table type	Multi-instance table
Row name	UserAgentRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
UserAgentValue	HTTP user agent value	Index	String. Length: 1 to 255 characters.
DeviceType	Device type	N/A	String. Length: 1 to 127 characters.
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.
DeviceCategory	Device category	N/A	String.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 63 characters.
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.

BYOD/MacRules

BYOD MAC address rule table for endpoint identification.

XML structure

```
<BYOD>
  <MacRules>
    <MacRule>
      <MacAddr></MacAddr>
      <MacMask></MacMask>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
    </MacRule>
  </MacRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	MacRules
Table type	Multi-instance table
Row name	MacRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	MAC address	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	For example, 00-0c-af-e3-5d-c0.
MacMask	MAC address	Index	String, six groups of two hexadecimal digits,	The significant bits must be consecutive

Column name	Column description	Column type	Data type and restrictions	Remarks
	mask		hyphen-separated. Length: 1 to 17 characters.	Fs. For example, ff-ff-ff-00-00-00.
DeviceType	Device type	N/A	String. Length: 1 to 127 characters.	N/A
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.	N/A
DeviceCategory	Device category	N/A	String. Length: 1 to 63 characters.	N/A
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.	N/A

BYOD/AuthorizationInfos

BYOD authorization information table.

XML structure

```
<BYOD>
  <AuthorizationInfos>
    <AuthorizationInfo>
      <UserGroupName></UserGroupName>
      <DeviceType></DeviceType>
      <AuthorizationData>
        <AclNumber></AclNumber>
        <CallbackNumber></CallbackNumber>
        <SessTimeout></SessTimeout>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
        <SSLVPNPolicy></SSLVPNPolicy>
        </AuthorizationData>
        <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
```

```
    </AuthorizationInfo>
  </AuthorizationInfos>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	AuthorizationInfos
Table type	Multi-instance table
Row name	AuthorizationInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String. Length: 1 to 32 characters.	N/A
DeviceType	Device type.	Index	String. Length: 1 to 127 characters.	N/A
Authorization Data	Authorization information.	Data structure	Members include: • AclNumber. • CallbackNumber. • FTPHomeDir. • IdleTimeout. • PrimaryDNSServer. • SecondaryDNSServer. • URL. • UserProfile. • VLANID. • VRF. • IpPool. • Ipv6Pool.	N/A
AclNumber	ACL number.	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number.	N/A	String. Length: 1 to 64 characters.	N/A
SessTimeout	Session timeout.	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
IdleTimeout	Idle timeout timer.	N/A	Unsigned integer. Value range: 1 to 120, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			minutes.	
PrimaryDNSServer	Primary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	
SecondaryDNSServer	Secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information.	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	User profile name.	N/A	String. Length: 1 to 32 characters.	The name can contain digits, letters, and underscores (_), but the name can't start with a digit.
VLANID	ID of the authorization VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the authorization VPN instance.	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Available IP pool name.	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Available IPv6 pool name.	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
AuthorizationIpv6PrefixInfo	Available IPv6 prefix.	Data structure	Members include: • Ipv6Address. • Ipv6PrefixLength.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is effective only when the Ipv6PrefixLength column is set.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	This column is effective only when the Ipv6Address column is set.

Contents

BYOD 1
BYOD/DhcpOption55Rules 1
XML structure 1
Table description 1
Columns 1
BYOD/UserAgentRules 2
XML structure 2
Table description 3
Columns 3
BYOD/MacRules 3
XML structure 4
Table description 4
Columns 4
BYOD/AuthorizationInfos 5
XML structure 5
Table description 6
Columns 6

BYOD

BYOD/DhcpOption55Rules

BYOD DHCP Option 55 rule table for endpoint identification.

XML structure

```
<BYOD>
  <DhcpOption55Rules>
    <DhcpOption55Rule>
      <DhcpOption55Value></DhcpOption55Value>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
      <RuleClass></RuleClass>
      <PredefinedRuleModify></PredefinedRuleModify>
    </DhcpOption55Rule>
  </DhcpOption55Rules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	DhcpOption55Rules
Table type	Multi-instance table
Row name	DhcpOption55Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DhcpOption55 Value	DHCP Option 55 value	Index	String. Length: 1 to 255 characters.	N/A
DeviceType	Device type	N/A	String. Length: 0 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.	N/A
DeviceCategory	Device category	N/A	String. Length: 1 to 63 characters.	N/A
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.	N/A
RuleClass	Rule class	N/A	Boolean: • True. • False.	N/A
PredefinedRuleModify	Whether the predefined rule has been modified	N/A	Boolean: • **True**—The predefined rule has been modified. • **False**—The predefined rule has not been modified.	A predefined rule is modified if any of the following attributes in the rule is modified: • Device type. • Device vendor. • Device category. • Device OS.

BYOD/UserAgentRules

BYOD HTTP user agent rule table for endpoint identification.

XML structure

```
<BYOD>
  <UserAgentRules>
    <UserAgentRule>
      <UserAgentValue></UserAgentValue>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
      <RuleClass></RuleClass>
      <PredefinedRuleModify></PredefinedRuleModify>
    </UserAgentRule>
  </UserAgentRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	UserAgentRules
Table type	Multi-instance table
Row name	UserAgentRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserAgentValue	HTTP user agent value	Index	String. Length: 1 to 255 characters.	N/A
DeviceType	Device type	N/A	String. Length: 1 to 127 characters.	N/A
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.	N/A
DeviceCategory	Device category	N/A	String. Length: 1 to 63 characters.	N/A
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.	N/A
RuleClass	Rule class	N/A	Boolean: • True. • False.	N/A
PredefinedRuleModify	Whether the predefined rule has been modified	N/A	Boolean: • **True**—The predefined rule has been modified. • **False**—The predefined rule has not been modified.	A predefined rule is modified if any of the following attributes in the rule is modified: • Device type. • Device vendor. • Device category. • Device OS.

BYOD/MacRules

BYOD MAC address rule table for endpoint identification.

XML structure

```
<BYOD>
  <MacRules>
    <MacRule>
      <MacAddr></MacAddr>
      <MacMask></MacMask>
      <DeviceType></DeviceType>
      <DeviceVendor></DeviceVendor>
      <DeviceCategory></DeviceCategory>
      <DeviceOs></DeviceOs>
      <RuleClass></RuleClass>
      <PredefinedRuleModify></PredefinedRuleModify>
    </MacRule>
  </MacRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	MacRules
Table type	Multi-instance table
Row name	MacRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
MacAddr	MAC address	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	For example, 00-0c-af-e3-5d-c0.
MacMask	MAC address mask	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	The significant bits must be consecutive Fs. For example, ff-ff-ff-00-00-00.
DeviceType	Device type	N/A	String. Length: 1 to 127 characters.	N/A
DeviceVendor	Device vendor	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceCategory	Device category	N/A	String. Length: 1 to 63 characters.	N/A
DeviceOs	Device OS	N/A	String. Length: 1 to 63 characters.	N/A
RuleClass	Rule class	N/A	Boolean: • True. • False.	N/A
PredefinedRuleModify	Whether the predefined rule has been modified	N/A	Boolean: • **True**—The predefined rule has been modified. • **False**—The predefined rule has not been modified.	A predefined rule is modified if any of the following attributes in the rule is modified: • Device type. • Device vendor. • Device category. • Device OS.

BYOD/AuthorizationInfos

BYOD authorization information table.

XML structure

```
<BYOD>
  <AuthorizationInfos>
    <AuthorizationInfo>
      <UserGroupName></UserGroupName>
      <DeviceType></DeviceType>
      <AuthorizationData>
        <AclNumber></AclNumber>
        <CallbackNumber></CallbackNumber>
        <SessTimeout></SessTimeout>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
```

```
      <SSLVPNPolicy></SSLVPNPolicy>
      </AuthorizationData>
      <AuthorizationIpv6PrefixInfo>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </AuthorizationIpv6PrefixInfo>
  </AuthorizationInfo>
 </AuthorizationInfos>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	AuthorizationInfos
Table type	Multi-instance table
Row name	AuthorizationInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String. Length: 1 to 32 characters.	N/A
DeviceType	Device type.	Index	String. Length: 1 to 127 characters.	N/A
Authorization Data	Authorization information.	Data structure	Members include: • AclNumber. • CallbackNumber. • FTPHomeDir. • IdleTimeout. • PrimaryDNSServer. • SecondaryDNSServer. • URL. • UserProfile. • VLANID. • VRF. • IpPool. • Ipv6Pool.	N/A
AclNumber	ACL number.	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CallbackNumber	Callback number.	N/A	String. Length: 1 to 64 characters.	N/A
SessTimeout	Session timeout.	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
IdleTimeout	Idle timeout timer.	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 server.	N/A	Ipv6: Hexadecimal string, colon-separated.	N/A
\URL	URL information.	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	User profile name.	N/A	String. Length: 1 to 32 characters.	The name can contain digits, letters, and underscores (_), but the name can't start with a digit.
VLANID	ID of the authorization VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the authorization VPN instance.	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Available IP pool name.	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Available IPv6 pool name.	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
AuthorizationIpv6PrefixInfo	Available IPv6 prefix.	Data structure	Members include: • Ipv6Address. • Ipv6PrefixLength.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is effective only when the Ipv6PrefixLength column is set.
Ipv6PrefixLen	IPv6 prefix	N/A	Unsigned integer.	This column is effective

Column name	Column description	Column type	Data type and restrictions	Remarks
gth	length.		Value range: 1 to 128.	only when the Ipv6Address column is set.

Contents

BYOD 1
BYOD/DhcpOption55Rules 1
BYOD/UserAgentRules 1
BYOD/MacRules 1

BYOD

BYOD/DhcpOption55Rules

Message	Explanation
Operation not supported. 不支持该操作。	Predefined rules prohibit modification, please check your rules.

BYOD/UserAgentRules

Message	Explanation
Operation not supported. 不支持该操作。	Predefined rules prohibit modification, please check your rules.

BYOD/MacRules

Message	Explanation
Operation not supported. 不支持该操作。	Predefined rules prohibit modification, please check your rules.
Wrong Mask. 错误的MAC地址掩码。	Invalid MAC mask, please check your MAC Mask.
Wrong MAC address. 错误的MAC地址。	Invalid MAC address, please check your MAC address.

Contents

CAR 1
CAR/GlobalPolicies 1
XML structure 1
Table description 1
Columns 1

CAR

CAR/GlobalPolicies

This table contains information about global committed access rate (CAR) policies.

XML structure

```
<CAR>
  <GlobalPolicies>
    <Policy>
      <Name></Name>
      <CountClear></CountClear>
    </Policy>
  </GlobalPolicies>
</CAR>
```

Table description

Item	Description
Feature name	ACL
Table name	GlobalPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Global CAR policy name	Index	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
CountClear	Resets counters	N/A	This column must be empty.	N/A

Contents

CAR 1
CAR/CarLists 1
XML structure 1
Table description 2
Columns 2
CAR/CarPolicies 4
XML structure 4
Table description 4
Columns 5
CAR/GlobalPolicies 10
XML structure 10
Table description 11
Columns 11
CAR/TrafficPolicing 17
XML structure 17
Table description 17
Columns 17
CAR/BandwithDistribute 18
XML structure 18
Table description 18
Columns 19
CAR/MirroringGroups 19
XML structure 19
Table description 19
Columns 20

CAR

CAR/CarLists

This table contains information about committed access rate (CAR) lists.

XML structure

```
<CAR>
  <CarLists>
    <List>
      <CarlID></CarlID>
      <Mac></Mac>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <DestIPRange>
        <DestIPStart></DestIPStart>
        <DestIPEnd></DestIPEnd>
      </DestIPRange>
      <SrcIPRange>
        <SrcIPStart></SrcIPStart>
        <SrcIPEnd></SrcIPEnd>
      </SrcIPRange>
      <DestIPSubnet>
        <DestSubnetIP></DestSubnetIP>
        <DestMaskLength></DestMaskLength>
      </DestIPSubnet>
      <SrcIPSubnet>
        <SrcSubnetIP></SrcSubnetIP>
        <SrcMaskLength></SrcMaskLength>
      </SrcIPSubnet>
      <SrcIPObjGroup></SrcIPObjGroup>
      <DestIPObjGroup></DestIPObjGroup>
      <Mode></Mode>
      <Trange></Trange>
    </List>
  </CarLists>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarLists
Table type	Multi-instance table
Row name	List
Restrictions	Only one match column can be configured once.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CarlID	CAR list number	Index	Unsigned integer. Value range: 1 to 199.	N/A
Mac	Match the MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 **Dscp** for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **Exp** for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **IPPrecedence** for a rule
DestIPRange	Match destination IP by range.	Data structure	Members include: • **DestIPStart** • **DestIPEnd**	The two members must both be specified.
DestIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
DestIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. **DestIPEnd** must be bigger than **DestIPStart**.
SrcIPRange	Match source IP by range.	Data structure	Members include: • **SrcIPStart** • **SrcIPEnd**	The two members must both be specified.
SrcIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. **SrcIPEnd** must be bigger than **SrcIPStart**.

DestIPSubnet	Match destination IP by subnet.	Data structure	Members include: • **DestSubnetIP** • **DestMaskLength**	The two members must both be specified.
DestSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DestMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPSubnet	Match source IP by subnet.	Data structure	Members include: • **SrcSubnetIP** • **SrcMaskLength**	The two members must both be specified.
SrcSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
SrcMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPObjGroup	Match source IP by object group.	N/A	String case insensitive. Length: 1 to 63 characters.	The object group name can't contain '?'. The character '\r\n' in object group name can't be treated as escape character.
DestIPObjGroup	Match destination IP by object group.	N/A	String case insensitive. Length: 1 to 63 characters.	The object group name can't contain '?'. The character '\r\n' in object group name can't be treated as escape character.
Mode	Match Mode.	N/A	Enumeration: • **1**—PerAddress. • **2**—SharedBandwidth.	It can be specified when **SrcIPSubnet** or **DestIPSubnet** or **SrcIPRange** or **DestIPRange** is specified. When the **Mode** column is 1, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment doesn't share the remaining bandwidth. When the **Mode** column is 2, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment shares the remaining bandwidth.
Trange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters.	The time range name cannot be **all** and the '**?**' should not be used. The character '\r\n' in time range name can't be

				treated as escape character.

CAR/CarPolicies

This table contains information about CAR policies.

XML structure

```
<CAR>
  <CarPolicies>
    <Policy>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <BandwithUnit></BandwithUnit>
      <Name></Name>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
    </Policy>
  </CarPolicies>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarPolicies
Table type	Multi-instance table
Row name	Policy

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration : • **1—IPv4Acl** • **2—IPv6Acl** • **3—Carl** • **4—Any**	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, the value range is 2000 to 5999. When **Type** is **2**, the value range is 2000 to 3999. When **Type** is **3**, the value range is 1 to 199. When **Type** is **4**, this column only can be configured as 0.
BandwithUnit	Specify the bandwidth unit	N/A	Enumeration: • **2—kbps** • **3—percent**.	If this column is not configured, the default bandwith unit is kbps.
Name	Aggregate CAR policy name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	This column cannot be configured together with the other column. This column support only when BandwithUnit is 3.
CIR	Committed information rate	N/A	Unsigned integer.	Required when the **Name** is not specified. When BandwithUnit is 3, the value range is 1 to 100.
CBS	Committed burst size	N/A	Unsigned integer.	When BandwithUnit is 3, the value range is 50 to 2000.
EBS	Excess burst size	N/A	Unsigned integer.	If **CBS** or PIR is not configured, **EBS** cannot be configured. When BandwithUnit is 3, the value range is 0 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				2000.
PIR	Peak information rate	N/A	Unsigned integer.	When BandwithUnit is 3, the value range is 1 to 100.
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType** • **GreenActionValue**	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	The default GreenActionType is pass. When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, drop the packet. When **GreenActionType** is **10**, remark local precedence of the packet and send it. When **GreenActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **GreenActionType** is **14**, remark 802.1p

Column name	Column description	Column type	Data type and restrictions	Remarks
				priority value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **GreenActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **GreenActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **19**, continue to process the packet using the next CAR policy.
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **GreenActionType** is **1, 10** or **19**, **GreenActionValue** is invalid. When **GreenActionType** is **6**, **7**, **15**, **16**, **GreenActionValue** is 0~1. When **GreenActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **GreenActionValue** is 0~7. When **GreenActionType** is **2**, **11**, **GreenActionValue** is 0~63.
YellowAction	Specify behavior for Yellow packets	Data structure	Members include: • **YellowActionType** • **YellowActionValue**	YellowActionValue is required when GreenActionType is not 1, 10 or 19.
YellowActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard	The default YellowActionType is pass. When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, drop the packet. When **YellowActionType** is **10**, remark local precedence of the packet and send it. When **YellowActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **YellowActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **YellowActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **YellowActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **19**, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or **19**,

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 63.	**YellowActionValue** is invalid. When **YellowActionType** is **6**, **7**, **15**, **16**, **YellowActionValue** is 0~1. When **YellowActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **YellowActionValue** is 0~7. When **YellowActionType** is **2**, **11**, **YellowActionValue** is 0~63.
RedAction	Specify behavior for Red packets	Data structure	Members include: • **RedActionType** • **RedActionValue**	RedActionValue is required when GreenActionType is not 1, 10 or 19.
RedActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue • **16**—remark-fr-de-continue • **17**—remark-local-prec-continue. • **19**—continue.	The default RedActionType is discard. When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, drop the packet. When **RedActionType** is **10**, remark local precedence of the packet and send it. When **RedActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **12**, remark IP precedence of the packet and continue

Column name	Column description	Column type	Data type and restrictions	Remarks
				to process it using the next CAR policy. When **RedActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **RedActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **RedActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **RedActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **19**, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **RedActionType** is **1, 10** or **19**, **RedActionValue** is invalid. When **RedActionType** is **6**, **7**, **15**, **16**, **RedActionValue** is 0~1. When **RedActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **RedActionValue** is 0~7. When **RedActionType** is **2**, **11**, **RedActionValue** is 0~63.

CAR/GlobalPolicies

This table contains information about global CAR policies.

XML structure

```
<CAR>
  <GlobalPolicies>
```

```
    <Policy>
      <Name></Name>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
    </Policy>
  </GlobalPolicies>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	GlobalPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Global CAR policy name	Index	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
Type	Global CAR type	N/A	Enumeration : • **1**—Aggregate CAR. • **2**—Hierarchical CAR.	Required. This column cannot be modified.
CIR	Committed	N/A	Unsigned integer.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
	information rate			The value range for this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value range for this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	If **CBS** or **PIR** is not configured, **EBS** cannot be configured. The value range for this column depends on the device model.
PIR	Peak information rate	N/A	Unsigned integer.	The value range for this column depends on the device model.
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType** • **GreenActionValue**	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	The default GreenActionType is pass. When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, drop the packet. When **GreenActionType** is **10**, remark local precedence of the packet and send it. When **GreenActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When **GreenActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **GreenActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **GreenActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **GreenActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **19**, continue to process the packet using the next CAR policy.
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **GreenActionType** is **1, 10** or **19**, **GreenActionValue** is invalid. When **GreenActionType** is **6**, **7**, **15**, **16**, **GreenActionValue** is 0~1. When **GreenActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **GreenActionValue** is 0~7. When **GreenActionType** is **2**, **11**, **GreenActionValue** is 0~63.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType** • **YellowActionValue**	YellowActionValue is required when GreenActionType is not 1, 10 or 19.
YellowActionType	Action type	N/A	Enumeration: • **1**—pass.	The default YellowActionType is pass.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, drop the packet. When **YellowActionType** is **10**, remark local precedence of the packet and send it. When **YellowActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **YellowActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **YellowActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next

Column name	Column description	Column type	Data type and restrictions	Remarks
				CAR policy. When **YellowActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **19**, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **YellowActionType** is **1, 10** or **19**, **YellowActionValue** is invalid. When **YellowActionType** is **6**, **7**, **15**, **16**, **YellowActionValue** is 0~1. When **YellowActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **YellowActionValue** is 0~7. When **YellowActionType** is **2**, **11**, **YellowActionValue** is 0~63.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType** • **RedActionValue**	RedActionValue is required when GreenActionType is not 1, 10 or 19.
RedActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue • **16**—remark-fr-de-contin	The default RedActionType is discard. When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, drop the packet.

Column name	Column description	Column type	Data type and restrictions	Remarks
			ue • **17**—remark-local-prec-continue. • **19**—continue.	When **RedActionType** is **10**, remark local precedence of the packet and send it. When **RedActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **RedActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **RedActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **RedActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **19**, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **RedActionType** is **1, 10** or **19**, **RedActionValue** is invalid. When **RedActionType** is **6**, **7**, **15**, **16**, **RedActionValue** is 0~1. When **RedActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **RedActionValue** is 0~7. When **RedActionType** is **2**, **11**, **RedActionValue** is 0~63.

CAR/TrafficPolicing

This table contains information about traffic policing.

XML structure

```
<TrafficPolicing>
  <Policing>
    <Direction></Direction>
    <Type></Type>
    <Value></Value>
    <CIR></CIR>
    <CBS></CBS>
    <EBS></EBS>
    <PIR></PIR>
  </Policing>
</TrafficPolicing>
```

Table description

Item	Description
Feature name	CAR
Table name	TrafficPolicing
Table type	Multi-instance table
Row name	Policing
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound • **1**—Outbound	N/A
Type	Match type	Index	Enumeration : • **1**—IPv4Acl • **2**—IPv6Acl • **3**—Carl • **4**—Any	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, the value range is 2000 to 5999. When **Type** is **2**, the value range is 2000 to 3999. When **Type** is **3**, the value

Column name	Column description	Column type	Data type and restrictions	Remarks
				range is 1 to 199. When **Type** is **4**, this column can only be 0.
CIR	Committed information rate	N/A	Unsigned integer.	Required. The value range for this column varies by device model.
CBS	Committed burst size	N/A	Unsigned integer.	The default and the value range for this column vary by device model.
EBS	Excess burst size	N/A	Unsigned integer.	If **CBS** or **PIR** is not configured, **EBS** cannot be configured. The default and the value range for this column vary by device model.
PIR	Peak information rate	N/A	Unsigned integer.	The value range for this column varies by device model.

CAR/BandwithDistribute

This table contains information about CAR bandwith distribution.

XML structure

```
<CAR>
  <BandwithDistribute>
    <Distribute>
      <IfName></IfName>
      <UserprofileCAR></UserprofileCAR>
    </Distribute>
  </BandwithDistribute>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	BandwithDistribute
Table type	Multi-instance table
Row name	Distribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
UserprofileCAR	User-profile CAR	N/A	Enumeration: • **0**—Enable • **1**—Disable	N/A

CAR/MirroringGroups

This table contains information about CAR for mirroring groups.

XML structure

```
<CAR>
  <MirroringGroups>
    <MirroringGroup>
      <Chassis></Chassis>
      <slot></Slot>
      <Cpu></Cpu>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
    </MirroringGroup>
  </MirroringGroups>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	MirroringGoups
Table type	Multi-instance table
Row name	MirrorGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column bname	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Cpu	Cpu number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Direction	Application direction	Index	Enumeration: • inbound • outbound	N/A
CIR	Committed information rate	N/A	Unsigned integer	N/A
CBS	Committed burst size	N/A	Unsigned integer	N/A

Contents

CAR 1
CAR/CarLists 1
XML structure 1
Table description 2
Columns 2
CAR/CarPolicies 4
XML structure 4
Table description 4
Columns 5
CAR/Capability 10
XML structure 10
Table description 11
Columns 11
CAR/GlobalPolicies 12
XML structure 12
Table description 13
Columns 13
CAR/TrafficPolicing 18
XML structure 18
Table description 19
Columns 19
CAR/BandwithDistribute 20
XML structure 20
Table description 20
Columns 20
CAR/MirroringGroups 21
XML structure 21
Table description 21
Columns 21

CAR

CAR/CarLists

This table contains information about committed-access-rate list.

XML structure

```
<CAR>
  <CarLists>
    <List>
      <CarlID></CarlID>
      <Mac></Mac>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <DestIPRange>
        <DestIPStart></DestIPStart>
        <DestIPEnd></DestIPEnd>
      </DestIPRange>
      <SrcIPRange>
        <SrcIPStart></SrcIPStart>
        <SrcIPEnd></SrcIPEnd>
      </SrcIPRange>
      <DestIPSubnet>
        <DestSubnetIP></DestSubnetIP>
        <DestMaskLength></DestMaskLength>
      </DestIPSubnet>
      <SrcIPSubnet>
        <SrcSubnetIP></SrcSubnetIP>
        <SrcMaskLength></SrcMaskLength>
      </SrcIPSubnet>
      <SrcIPObjGroup></SrcIPObjGroup>
      <DestIPObjGroup></DestIPObjGroup>
      <Mode></Mode>
      <Trange></Trange>
    </List>
  </CarLists>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarLists
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CarlID	CAR list number	Index	Unsigned integer. Value range: 1 to 199.	N/A
Mac	Match the MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 **Dscp** for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **Exp** for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **IPPrecedence** for a rule
DestIPRange	Match destination IP by range.	Data structure	Members include: • **DestIPStart** • **DestIPEnd**	The two members must both be specified.
DestIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
DestIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. **DestIPEnd** must be bigger than **DestIPStart**.
SrcIPRange	Match source IP by range.	Data structure	Members include: • **SrcIPStart** • **SrcIPEnd**	The two members must both be specified.
SrcIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. **SrcIPEnd** must be bigger than **SrcIPStart**.
DestIPSubnet	Match destination IP by	Data structure	Members include: • DestSubnetIP	The two members must both be specified.

	subnet.		• DestMaskLength	
DestSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DestMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPSubnet	Match source IP by subnet.	Data structure	Members include: • SrcSubnetIP • SrcMaskLength	The two members must both be specified.
SrcSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
SrcMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPObjGroup	Match source IP by object group.	N/A	String case insensitive. Length: 1 to 63 characters.	The object group name cannot contain '?'. The character '\r\n' in object group name can't be treated as escape character.
DestIPObjGroup	Match destination IP by object group.	N/A	String case insensitive. Length: 1 to 63 characters.	The object group name can't contain '?'. The character '\r\n' in object group name can't be treated as escape character.
Mode	Match Mode.	N/A	Enumeration: • **1**—PerAddress. • **2**—SharedBandwidth.	When the **Mode** column is 1, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment doesn't share the remaining bandwidth. When the **Mode** column is 2, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment shares the remaining bandwidth.
Trange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters.	The time range name cannot be **all** and the '**?' should not be used.** The character '\r\n' in time range name can't be treated as escape character.

CAR/CarPolicies

This table contains information about committed-access-rate policy.

XML structure

```
<CAR>
  <CarPolicies>
    <Policy>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <BandwithUnit></BandwithUnit>
      <Name></Name>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <IfName></IfName>
    </Policy>
  </CarPolicies>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarPolicies

Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration : • **1—IPv4Acl** • **2—IPv6Acl** • **3—Carl** • **4—Any**	N/A
Value	Match type value	Index	Unsigned integer.	N/A
BandwithUnit	Specify the bandwidth unit	N/A	Enumeration: • **2**—**kbps** • **3**—**percent**.	N/A
Name	Aggregate CAR policy name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType** • **GreenActionValue**	N/A
GreenActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark--dscp--pass • **3**—remark--precedence--pass • **4**—remark--mpls--exp--pass	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue	precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, drop the packet. When **GreenActionType** is **10**, remark local precedence of the packet and send it. When **GreenActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **GreenActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **GreenActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **GreenActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **19**, continue to process

Column name	Column description	Column type	Data type and restrictions	Remarks
				the packet using the next CAR policy.
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **GreenActionType** is **1, 10** or **19**, **GreenActionValue** is invalid. When **GreenActionType** is **6**, **7**, **15**, **16**, **GreenActionValue** is 0~1. When **GreenActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **GreenActionValue** is 0~7. When **GreenActionType** is **2**, **11**, **GreenActionValue** is 0~63.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType** • **YellowActionValue**	N/A
YellowActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, drop the packet. When **YellowActionType** is **10**, remark local precedence of the packet and send it. When **YellowActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **12**, remark IP

Column name	Column description	Column type	Data type and restrictions	Remarks
				precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **YellowActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **YellowActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **YellowActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **19**, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **YellowActionType** is **1, 10** or **19**, **YellowActionValue** is invalid. When **YellowActionType** is **6**, **7**, **15**, **16**, **YellowActionValue** is 0~1. When **YellowActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **YellowActionValue** is 0~7. When **YellowActionType** is **2**, **11**, **YellowActionValue** is 0~63.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType** • **RedActionValue**	N/A
RedActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue	When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, drop the packet. When **RedActionType** is **10**, remark local precedence of the packet and send it. When **RedActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **RedActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **RedActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **RedActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				19, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **RedActionType** is **1, 10** or **19**, **RedActionValue** is invalid. When **RedActionType** is **6**, **7**, **15**, **16**, **RedActionValue** is 0~1. When **RedActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **RedActionValue** is 0~7. When **RedActionType** is **2**, **11**, **RedActionValue** is 0~63.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

CAR/Capability

This table contains capability information about committed-access-rate.

XML structure

```
<CAR>
  <Capability>
    <MQCTokenPara></MQCTokenPara>
    <CIRMin></CIRMin>
    <CIRMax></CIRMax>
    <CIRGranularity></CIRGranularity>
    <CBSMin></CBSMin>
    <CBSMax></CBSMax>
    <CBSGranularity></CBSGranularity>
```

```
    <EBSMin></EBSMin>
    <EBSMax></EBSMax>
    <EBSGranularity></EBSGranularity>
    <PIRMin></PIRMin>
    <PIRMax></PIRMax>
    <PIRGranularity></PIRGranularity>
  </Capability>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MQCTokenPara	Token bucket capability	N/A	Each bit represents a type as follows: • **1**—CBS • **2**—EBS • **4**—PIR	The value of this column depends on the device model.
CIRMin	Minimum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CIRMax	Maximum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CIRGranularity	Granularity of CIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CBSMin	Minimum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
CBSMax	Maximum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
CBSGranularity	Granularity of CBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBSMin	Minimum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBSMax	Maximum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBSGranularity	Granularity of EBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
PIRMin	Minimum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
PIRMax	Maximum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRGranularity	Granularity of PIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.

CAR/GlobalPolicies

This table contains information about global committed access rate (CAR) policies.

XML structure

```
<CAR>
  <GlobalPolicies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
```

```
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </Policy>
  </GlobalPolicies>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	GlobalPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Global CAR policy name	Index	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
Type	CAR type	N/A	Enumeration : • **1**—Aggregate CAR. • **2**—Hierarchical CAR.	Required.
CIR	Committed information rate	N/A	Unsigned integer.	Required.
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	If **CBS** or **PIR** is not configured, **EBS** cannot be configured.
PIR	Peak information	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	rate			
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType** • **GreenActionValue**	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, drop the packet. When **GreenActionType** is **10**, remark local precedence of the packet and send it. When **GreenActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **GreenActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **15**, remark CLP bit of the ATM packet and continue to process it

Column name	Column description	Column type	Data type and restrictions	Remarks
				using the next CAR policy. When **GreenActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **GreenActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **GreenActionType** is **19**, continue to process the packet using the next CAR policy.
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **GreenActionType** is **1, 10** or **19**, **GreenActionValue** is invalid. When **GreenActionType** is **6**, **7**, **15**, **16**, **GreenActionValue** is 0~1. When **GreenActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **GreenActionValue** is 0~7. When **GreenActionType** is **2**, **11**, **GreenActionValue** is 0~63.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType** • **YellowActionValue**	YellowActionValue is required when GreenActionType is not 1, 10 or 19.
YellowActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-conti	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the

Column name	Column description	Column type	Data type and restrictions	Remarks
			nue • **15**—remark-atm-clp-continue. • **16**—remark-fr-de-continue. • **17**—remark-local-prec-continue. • **19**—continue.	FR packet and send it. When **YellowActionType** is **8**, drop the packet. When **YellowActionType** is **10**, remark local precedence of the packet and send it. When **YellowActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **YellowActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **15**, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When **YellowActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **YellowActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **YellowActionType** is **19**, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **YellowActionType** is **1, 10** or **19**, **YellowActionValue** is invalid. When **YellowActionType** is **6**, **7**, **15**, **16**, **YellowActionValue** is 0~1. When **YellowActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **YellowActionValue** is 0~7.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When **YellowActionType** is **2**, **11**, **YellowActionValue** is 0~63.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType** • **RedActionValue**	RedActionValue is required when GreenActionType is not 1, 10 or 19.
RedActionType	Action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass • **3**—remark-precedence-pass • **4**—remark-mpls-exp-pass • **5**—remark-dot1p-pass • **6**—remark-atm-clp-pass • **7**—remark-fr-de-pass • **8**—remark-local-prec-pass • **10**—discard • **11**—remark-dscp-continue • **12**—remark-precedence-continue • **13**—remark-mpls-exp-continue • **14**—remark-dot1p-continue • **15**—remark-atm-clp-continue • **16**—remark-fr-de-continue • **17**—remark-local-prec-continue. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, drop the packet. When **RedActionType** is **10**, remark local precedence of the packet and send it. When **RedActionType** is **11**, remark DSCP value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **12**, remark IP precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **13**, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When **RedActionType** is **14**, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When **RedActionType** is **15**, remark CLP bit of the

Column name	Column description	Column type	Data type and restrictions	Remarks
				ATM packet and continue to process it using the next CAR policy. When **RedActionType** is **16**, remark DE bit of the FR packet and continue to process it using the next CAR policy. When **RedActionType** is **17**, remark local precedence of the packet and continue to process it using the next CAR policy. When **RedActionType** is **19**, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When **RedActionType** is **1, 10** or **19**, **RedActionValue** is invalid. When **RedActionType** is **6**, **7**, **15**, **16**, **RedActionValue** is 0~1. When **RedActionType** is **3**, **4**, **5**, **8**, **12**, **13**, **14**, **17**, **RedActionValue** is 0~7. When **RedActionType** is **2**, **11**, **RedActionValue** is 0~63.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} − 1.	N/A

CAR/TrafficPolicing

This table contains information about traffic policing.

XML structure

```
<TrafficPolicing>
```

```
  <Policing>
    <Direction></Direction>
    <Type></Type>
    <Value></Value>
    <CIR></CIR>
    <CBS></CBS>
    <EBS></EBS>
    <PIR></PIR>
  </Policing>
</TrafficPolicing>
```

Table description

Item	Description
Feature name	CAR
Table name	TrafficPolicing
Table type	Multi-instance table
Row name	Policing
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration : • **1**—IPv4Acl • **2**—IPv6Acl • **3**—Carl • **4**—Any	N/A
Value	Match type value	Index	Unsigned integer.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		Value range: 0 to $2^{64} - 1$.	
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

CAR/BandwithDistribute

This table contains information about CAR bandwith distribution.

XML structure

```
<CAR>
  <BandwithDistribute>
    <Distribute>
      <IfName></IfName>
      <UserprofileCAR></UserprofileCAR>
    </Distribute>
  </BandwithDistribute>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	BandwithDistribute
Table type	Multi-instance table
Row name	Distribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserprofileCAR	User-profile CAR	N/A	Enumeration: • **0**—Enable • **1**—Disable	N/A

CAR/MirroringGroups

This table contains information about CAR for mirroring groups.

XML structure

```
<CAR>
  <MirroringGroups>
    <MirroringGroup>
      <Chassis></Chassis>
      <Slot></Slot>
      <Cpu></Cpu>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
    </MirroringGroup>
  </MirroringGroups>
</CAR>
```

Table description

Item	**Description**
Feature name	Car
Table name	MirroringGroups
Table type	Multi-instance table
Row name	MirroringGroup
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Cpu	Cpu number	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **inbound.** • **outbound.**	N/A
CIR	Committed information rate	N/A	Unsigned integer	N/A
CBS	Committed burst size	N/A	Unsigned integer	N/A

Contents

CAR 1
CAR 1

CAR

CAR

Message	Explanation
PIR can't be smaller than CIR. PIR的值不能小于CIR。	Configure a CAR action, PIR can't be smaller than CIR. 配置流量监管动作，峰值速率不能小于承诺信息速率。
The end address should be larger than the start address. 结束地址值应该大于起始地址值。	Configure a CAR list, The end address should be larger than the start address. 配置CAR列表，IP地址段终止地址必须大于IP地址段起始地址。
The number of IP addresses in the IP address range exceeds %u. IP地址的数量超出了个数为%u的限制。	Configure a CAR list, The number of IP addresses in the IP address range has max number. 配置CAR列表，IP地址段数量存在上限。
Total UNI bandwidth can't be greater than NNI bandwidth. 下行接口总带宽不能超过上行接口带宽。	Total UNI bandwidth can't be greater than NNI bandwidth. 配置带宽保证组，下行接口总带宽不能超过上行接口带宽。
Please remove UNI configuration of this interface first. 请先删除下行接口配置。	Del if CAR, remove UNI configuration of this interface first. 删除接口CAR配置时需要保证此接口不是带宽保证组的下行口。
The maximum number of CAR policies that can be configured has been reached. CAR策略的数目已经达到最大值。	The maximum number of CAR policies that can be configured has been reached. 接口下配置流量监管的数量存在上限。
CIR or PIR must be configured in the same unit (percentage or kbps) as it was previously configured. 必须与之前配置的CIR或者PIR配置相同单位（percentage or kbps）	CIR or PIR must be configured in the same unit (percentage or kbps) as it was previously configured. 接口下配置流量监管的单位需要保持一致。
Percentage-based CAR can be only used on interface. 百分比CAR只能被应用到接口。	Percentage-based CAR can be only used on interface. 百分比CAR只能被应用到接口。

Contents

CB 1
CB/StreamIdentifications 1
XML structure 1
Table description 1
Columns 2
CB/StreamIdentifications/StreamInfos 2
XML structure 2
Table description 2
Columns 2

CB

CB/StreamIdentifications

This table provides CB configuration data.

XML structure

```
<CB>
  <StreamIdentifications>
    <MaxStreamCounts></MaxStreamCounts>
    <StreamInfos>
      <StreamInfo>
        <StreamId></StreamId>
        <MacAddresses>
          <DstMacAddress></DstMacAddress>
          <SrcMacAddress></SourMacAddress>
        </MacAddresses>
        <VlanTag>
          <VlanPriority></VlanPriority>
          <VlanId></VlanId>
        </VlanTag>
        <EthType></EthType>
      </StreamInfo>
    </StreamInfos>
  </StreamIdentifications>
</CB>
```

Table description

Item	Description
Feature name	CB
Table name	StreamIdentifications
Table type	Single-instance table
Row name	StreamInfos
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StreamInfos	There is one streaminfos Instance Table	Sublist	N/A	For more information, see the CB/ StreamIdentifications / StreamInfos table.

CB/StreamIdentifications/StreamInfos

This table provides CB/StreamIdentifications/StreamInfos configuration data.

XML structure

See the XML structure of CB/StreamIdentifications/

Table description

Item	Description
Feature name	CB
Table name	StreamInfos
Table type	Multi-instance table
Row name	StreamInfos
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StreamId	Stream ID	Index	Unsigned integer 32	N/A
MacAddresses	Group of MAC addresses	Data structure	Members include: • DesMacAddress • SourMacAddress	N/A
DstMacAddress	Number of destination MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
SrcMacAddress	Number of source MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast,

Column name	Column description	Column type	Data type and restrictions	Remarks
				all-zero, or all-F MAC address.
VlanTag	Group of VLAN tags	Data structure	Members include: • VlanPriority • VlanId	N/A
VlanPriority	VLAN priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
VlanId	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
EthType	Ethernet type	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.

Contents

CB 2
CB/StreamIdentifications 2
XML structure 2
Table description 2
Columns 3
CB/StreamIdentifications/StreamInfos 3
XML structure 3
Table description 3
Columns 3

CB

CB/StreamIdentifications

This table provides CB configuration data.

XML structure

```
<CB>
  <StreamIdentifications>
    <MaxStreamCounts></MaxStreamCounts>
    <StreamInfos>
      <StreamInfo>
        <StreamId></StreamId>
        <MacAddresses>
          <DstMacAddress></DstMacAddress>
          <SrcMacAddress></SrcMacAddress>
        </MacAddresses>
        <VlanTag>
          <VlanPriority></VlanPriority>
          <VlanId></VlanId>
        </VlanTag>
        <EthType></EthType>
      </StreamInfo>
    </StreamInfos>
  </StreamIdentifications>
</CB>
```

Table description

Item	Description
Feature name	CB
Table name	StreamIdentifications
Table type	Single-instance table
Row name	StreamInfos
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxStreamCounts	The maxinumber of streams	N/A	Unsigned integer 32	N/A
StreamInfos	There is one streaminfos Instance Table	Sublist	N/A	For more information, see the CB/ StreamIdentifications / StreamInfos table.

CB/StreamIdentifications/StreamInfos

This table provides CB/StreamIdentifications/StreamInfos configuration data.

XML structure

See the XML structure of CB/StreamIdentifications/

Table description

Item	Description
Feature name	CB
Table name	StreamInfos
Table type	Multi-instance table
Row name	StreamInfos
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StreamId	Stream ID	Index	Unsigned integer 32	N/A
MacAddresses	Group of MAC addresses	Data structure	Members include: • DesMacAddress • SourMacAddress	N/A
DstMacAddress	Number of destination MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcMacAddress	Number of source MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
VlanTag	Group of VLAN tags	Data structure	Members include: • VlanPriority • VlanId	N/A
VlanPriority	VLAN priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
VlanId	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
EthType	Ethernet type	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.

Contents

CCdefense 1
CCdefense/MovePolicyRule 1
XML structure 1
Table description 1
Columns 1

CCdefense

CCdefense/MovePolicyRule

This table is used to number the rules in a CC attack defense policy.

XML structure

```
<CCdefense>
  <MovePolicyRule>
    <Move>
      <PolicyName></PolicyName>
      <RuleId></RuleId>
      <NextRuleId></NextRuleId>
    </Move>
  </MovePolicyRule>
</CCdefense>
```

Table description

Item	Description
Feature name	CCdefense
Table name	MovePolicyRule
Table type	Single-instance table
Row name	Move
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleId	Rule ID	Index	Unsigned integer. Value range: 1 to 64.	Single value.
NextRuleId	ID of the next rule	N/A	Unsigned integer. Value range: 1 to 64.	Single value.

Contents

CCdefense 1
CCdefense/Policies 1
XML structure 1
Table description 1
Columns 1
CCdefense/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
CCdefense/CcOnWafPolicy 4
XML structure 4
Table description 4
Columns 4

CCdefense

CCdefense/Policies

This table contains Challenge Collapsar (CC) attack defense policy information.

XML structure

```
<CCdefense>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <Frequency></Frequency>
      <ExceptionIPv4List>
        <Ipv4address></Ipv4address>
      </ExceptionIPv4List>
      <ExceptionIPv6List>
        <Ipv6address></Ipv6address>
      </ExceptionIPv6List>
    </Policy>
  </Policies>
</CCdefense>
```

Table description

Item	Description
Feature name	CCdefense
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Description	Description of the policy	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Frequency	Value of the frequency	N/A	Unsigned integer. Value range: 10 to 720.	Default is 300.
Ipv4address	Source IPv4 address	N/A	String, decimal notation. Length: 1 to 15 characters.	N/A
Ipv6address	Source IPv6 address	N/A	Hexadecimal string, colon-separated. Length: 1 to 45 characters.	N/A

CCdefense/RuleInPolicy

This table contains information about the rules in a CC attack defense policy.

XML structure

```
<CCdefense>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <RequestMethod></RequestMethod>
      <SrcIpType></SrcIpType>
      <RequestRate></RequestRate>
      <RequestConcentration></RequestConcentration>
      <RequestNumber></RequestNumber>
      <Action></Action>
      <BlockTime></BlockTime>
      <LoggingEnable></LoggingEnable>
      <DestIPv4List>
        <DestIpv4Address></DestIpv4Address>
      </DestIPv4List>
      <DestIPv6List>
        <DestIpv6Address></DestIpv6Address>
      </DestIPv6List>
      <DestPortList>
        <DestPort></DestPort>
      </DestPortList>
      <UriStringList>
        <UriString></UriString>
      </UriStringList>
    </Rule>
  </RuleInPolicy>
</CCdefense>
```

Table description

Item	Description
Feature name	CCdefense
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleID	RuleID	Index	Unsigned integer. Value range: 1 to 64.	N/A
RuleName	Rule Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
RequestMethod	Request method name	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcIpType	Host type	N/A	Enumeration: • **0**—Convention. • **1**—X-Forwarded-For.	Default is 0.
RequestRate	Request rate	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RequestConcentration	Request concentration	N/A	Unsigned Integer. Value range: 0 to 100.	N/A
RequestNumber	Request number	N/A	Unsigned Integer. Value range: 10 to 65535.	N/A
Action	Actions for the rule in policy	N/A	Enumeration: • **1**—Permit. • **2**—Block.	N/A
BlockTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 0 to 86400.	N/A
LoggingEnable	logging switch	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Default is 0.
DestIpv4Address	Destination IPv6 address	N/A	String, decimal notation. Length: 1 to 15 characters.	N/A
DestIpv6Address	Destination IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 45 characters.	
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
UriString	URI string	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

CCdefense/CcOnWafPolicy

This table contains information about a CC attack defense policy used by a Waf policy.

XML structure

```
<CCdefense>
  <CCOnWafPolicy>
    <Policy>
      <WafPolicyName></WafPolicyName>
      <CCPolicyName></CCPolicyName>
     </Policy>
  </CCOnWafPolicy>
</CCdefense>
```

Table description

Item	Description
Feature name	CCdefense
Table name	CcOnWafPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WafPolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CCPolicyName	Name of the CC policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Contents

CCdefense 1
CCdefense/Policies 1
XML structure 1
Table description 1
Columns 1
CCdefense/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
CCdefense/CcOnWafPolicy 4
XML structure 4
Table description 4
Columns 4

CCdefense

CCdefense/Policies

This table contains Challenge Collapsar (CC) attack defense policy information.

XML structure

```
<CCdefense>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <Frequency></Frequency>
      <ExceptionIPv4List>
        <Ipv4address></Ipv4address>
      </ExceptionIPv4List>
      <ExceptionIPv6List>
        <Ipv6address></Ipv6address>
      </ExceptionIPv6List>
    </Policy>
  </Policies>
</CCdefense>
```

Table description

Item	Description
Feature name	CC defense
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Description	Description of	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the policy		Length: 1 to 255 characters.	
Frequency	Value of the frequency	N/A	Unsigned integer. Value range: 10 to 720.	Default is 300.
Ipv4address	Source IPv4 address	N/A	String, decimal notation. Length: 1 to 15 characters.	N/A
Ipv6address	Source IPv6 address	N/A	Hexadecimal string, colon-separated. Length: 1 to 45 characters.	N/A

CCdefense/RuleInPolicy

This table contains information about the rules in a CC attack defense policy.

XML structure

```
<CCdefense>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <RequestMethod></RequestMethod>
      <SrcIpType></SrcIpType>
      <RequestRate></RequestRate>
      <RequestConcentration></RequestConcentration>
      <RequestNumber></RequestNumber>
      <Action></Action>
      <BlockTime></BlockTime>
      <LoggingEnable></LoggingEnable>
     <DestIPv4List>
        <DestIpv4Address></DestIpv4Address>
      </DestIPv4List>
      <DestIPv6List>
        <DestIpv6Address></DestIpv6Address>
      </DestIPv6List>
      <DestPortList>
        <DestPort></DestPort>
      </DestPortList>
      <UriStringList>
        <UriString></UriString>
      </UriStringList>
    </Rule>
  </RuleInPolicy>
```

```
</CCdefense>
```

Table description

Item	Description
Feature name	CCdefense
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleID	RuleID	Index	Unsigned integer. Value range: 0 to 64.	N/A
RuleName	Rule Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
RequestMethod	Request method name	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcIpType	Host type	N/A	Enumeration: • **0**—Convention. • **1**—X-Forwarded-For.	Default is 0.
RequestRate	Request rate	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RequestConcentration	Request concentration	N/A	Unsigned Integer. Value range: 0 to 100.	N/A
RequestNumber	Request number	N/A	Unsigned Integer. Value range: 10 to 65535.	N/A
Action	Actions for the rule in policy	N/A	Enumeration: • **1**—Permit. • **2**—Block.	Default is 1.
BlockTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 0 to 86400.	Default is 300.
LoggingEnable	logging switch	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Default is 0.
DestIpv4Addres	Destination	N/A	String, decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
s	IPv6 address		Length: 1 to 15 characters.	
DestIpv6Address	Destination IPv6 address	N/A	Hexadecimal string, colon-separated. Length: 1 to 45 characters.	N/A
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
UriString	URI string	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

CCdefense/CcOnWafPolicy

This table contains information about a CC attack defense policy used by a WAF policy..

XML structure

```
<CCdefense>
  <CCOnWafPolicy>
    <Policy>
      <WafPolicyName></WafPolicyName>
      <CCPolicyName></CCPolicyName>
     </Policy>
  </CCOnWafPolicy>
</CCdefense>
```

Table description

Item	Description
Feature name	CC defense
Table name	CcOnWafPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WafPolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CCPolicyName	Name of the CC policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Contents

CELLULAR 1
CELLULAR/CellularVerificationEnable 1
XML structure 1
Table description 1
Columns 1

CELLULAR

CELLULAR/CellularVerificationEnable

This table is used to enable or disable pin verification in a specific cellular interface.

XML structure

```
<Cellular>
  <CellularVerificationEnable>
    <VerificationEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <PinCode></PinCode>
    </VerificationEnable>
  </CellularVerificationEnable>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularVerificationEnable
Table type	Multi-instance table
Row name	VerificationEnable
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable pin verification	N/A	Boolean: • **false**—**Disable** • **true**—Enable	N/A
PinCode	Pin Code	N/A	String of digits Length: 4 to 6	Pin code may be required, It is determined by the device.

Contents

CELLULAR 1
CELLULAR/CellularMode 1
XML structure 1
Table description 1
Columns 1
CELLULAR/CellularApnProfile 2
XML structure 2
Table description 2
Columns 3
CELLULAR/CellularApplyProfile 3
XML structure 3
Table description 4
Columns 4
CELLULAR/CellularProfile 4
XML structure 4
Table description 5
Columns 5

CELLULAR

CELLULAR/CellularMode

This table contains the information about network connection mode.

XML structure

```
<Cellular>
  <CellularMode>
    <Mode>
      <IfIndex></IfIndex>
      <ModeType></ModeType>
    </Mode>
  </CellularMode>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularMode
Table type	Multi-instance table
Row name	Mode
Restrictions	This table supports interface types: Cellular interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	network connection mode	N/A	Enumeration: • 1—1XRTT. • 2—EVDO. • 3—HYBRID. • 4—GSMONLY. • 5—GSMPREFER. • 6—WCDMAONLY. • 7—WCDMAPREFER. • 8—TDONLY. • 9—TDPREFER. • 10—LTEONLY. • 11—AUTO. • 12—NRONLY.	Which mode is supported depends on the device. The default ModeType depends on the modem model.

CELLULAR/CellularApnProfile

This table contains the information about network cellular apn-profile.

XML structure

```
<Cellular>
  <CellularApnProfile>
    <ApnProfile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <Apn></Apn>
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </ApnProfile>
  </CellularApnProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApnProfile
Table type	Multi-instance table
Row name	ApnProfile
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String. case-sensitive. Length: 1 to 31 characters.	N/A
ProfileType	Access point type	N/A	Enumeration: • **0**—dynamic. • **1**—static.	When the ProfileType is dynamic, apn is not needed, otherwise apn is required.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.	Only when the ProfileType is static, the Apn is required.
AuthType	Specifies the authentication mode	N/A	Enumeration: • **1**—pap. • **2**—chap. • **3**—pap and chap	When choosing the AuthType, UserName and PassWord is required.
UserName	User name	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A
PassWord	Password string	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A

CELLULAR/CellularApplyProfile

This table contains the information about cellular apply profile to an interface.

XML structure

```
<Cellular>
  <CellularApplyProfile>
    <ApplyProfile>
      <IfIndex></IfIndex>
      <MainProfile></MainProfile>
      <BackupProfile></BackupProfile>
    </ApplyProfile>
  </CellularApplyProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
MainProfile	Main parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	Configure the main apn profile first.
BackupProfile	Backup parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	N/A

CELLULAR/CellularProfile

This table contains the information about network cellular profile.

XML structure

```
<Cellular>
  <CellularProfile>
    <Profile>
      <IfIndex></IfIndex>
      <ProfileNum></ProfileNum>
      <ProfileType></ProfileType>
      <Apn></Apn>
```

```
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </Profile>
  </CellularProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	This table supports interface types: Cellular interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ProfileNum	Modem parameter number	Index	Unsigned integer Value range:1 to 255.	N/A
ProfileType	Access point type	N/A	Enumeration: • **0**—dynamic. • **1**—static.	When the ProfileType is dynamic, apn is not needed, otherwise apn is required.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.	Only when the ProfileType is static, the Apn is required.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthType	Specifies the authentication mode	N/A	Enumeration: • **0**—none. • **1**—pap. • **2**— chap • **3**— pap and chap	When AuthType is none, UserName is not required, otherwise UserName is required.
UserName	User name	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A
PassWord	Password string	N/A	String. case-sensitive. Length: 1 to 32 characters.	PassWord can not be returned when you get data.

Contents

CELLULAR 1
- CELLULAR/CellularMode 1
  - XML structure 1
  - Table description 1
  - Columns 1
- CELLULAR/CellularVerificationDis 2
  - XML structure 2
  - Table description 3
  - Columns 3
- CELLULAR/CellularApnProfile 3
  - XML structure 4
  - Table description 4
  - Columns 4
- CELLULAR/CellularApplyProfile 5
  - XML structure 5
  - Table description 5
  - Columns 5
- CELLULAR/CellularProfile 6
  - XML structure 6
  - Table description 6
  - Columns 7
- CELLULAR/CellularModem 7
  - XML structure 7
  - Table description 8
  - Columns 8

CELLULAR

CELLULAR/CellularMode

This table contains the information about network connection mode.

XML structure

```
<Cellular>
  <CellularMode>
    <Mode>
      <IfIndex></IfIndex>
      <ModeType></ModeType>
      <ModeSupport></ModeSupport>
    </Mode>
  </CellularMode>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularMode
Table type	Multi-instance table
Row name	Mode
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Network connection mode	N/A	Enumeration: • **0**—Unknown. • **1**—CDMA-1x RTT. • **2**—CDMA-EVDO. • **3**—Hybrid. • **4**—GSM. • **5**—GSM-Preference. • **6**—WCDMA. • **7**—WCD-Preference. • **8**—TD-SCDMA. • **9**—TD-Preference. • **10**—LTE. • **11**—Auto. • **12**—NR.	Some devices get the ModeType is unknown, when they don't have SIM/UIM card.
ModeSupport	The modem support mode	N/A	Unsigned integer.	ModeSupport is bitmap. Only be used to get the support network connection mode. Auto: 1 CDMA-1x RTT: 1 << 1 CDMA-EVDO: 1 << 2 Hybrid: 1 << 3 GSM: 1 << 4 GSM-Preference: 1<<5 WCDMA: 1<<6 WCD-Preference: 1<<7 TD-SCDMA: 1 <<8 TD-Preference: 1<<9 LTE: 1<<10 NR: 1<<16

CELLULAR/CellularVerificationDis

This table contains the information about pin verification.

XML structure

```
<Cellular>
  <CellularVerificationDis>
    <VerificationDis>
      <IfIndex></IfIndex>
      <Enable></Enable>
```

```
      <UimStatus></UimStatus>
      <RemainNum></RemainNum>
    </VerificationDis>
  </CellularVerificationDis>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularVerificationDis
Table type	Multi-instance table
Row name	VerificationDis
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable pin verification	N/A	Boolean: • **false**—Disable • true—Enable	N/A
UimStatus	PIN status	N/A	Unsigned integer.	N/A
RemainNum	Remaining retries available for entering the PIN or PUK.	N/A	Unsigned integer.	N/A

CELLULAR/CellularApnProfile

This table contains the information about network cellular apn-profile.

XML structure

```
<Cellular>
  <CellularApnProfile>
    <ApnProfile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <Apn></Apn>
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </ApnProfile>
  </CellularApnProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApnProfile
Table type	Multi-instance table
Row name	ApnProfile
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name	Index	String. case-sensitive. Length: 1 to 31 characters.
ProfileType	Access point type	N/A	Enumeration: • **0**—dynamic. • **1**—static.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.
AuthType	Specifies the authentication mode	N/A	Enumeration: • **1**—pap. • **2**—chap. • **3**—pap and chap
UserName	User name	N/A	String. case-sensitive. Length: 1 to 80 characters.
PassWord	Password string	N/A	String. case-sensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 32 characters.

CELLULAR/CellularApplyProfile

This table contains the information about cellular apply profile to an interface.

XML structure

```
<Cellular>
  <CellularApplyProfile>
    <ApplyProfile>
      <IfIndex></IfIndex>
      <MainProfile></MainProfile>
      <BackupProfile></BackupProfile>
    </ApplyProfile>
  </CellularApplyProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
MainProfile	Main parameter	N/A	String. case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile		Length: 1 to 31 characters.	
BackupProfile	Backup parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	N/A

CELLULAR/CellularProfile

This table contains the information about network cellular profile.

XML structure

```
<Cellular>
  <CellularProfile>
    <Profile>
      <IfIndex></IfIndex>
      <ProfileNum></ProfileNum>
      <ProfileType></ProfileType>
      <Apn></Apn>
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </Profile>
  </CellularProfile>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ProfileNum	Modem parameter number	Index	Unsigned integer Value range:1 to 255.	N/A
ProfileType	Access point type	N/A	Enumeration: • **0**—dynamic. • **1**—static.	When the ProfileType is dynamic, apn is not needed, otherwise apn is required.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.	Only when the ProfileType is static, the Apn is required.
AuthType	Specifies the authentication mode	N/A	Enumeration: • **0**—none. • **1**—pap. • **2**—chap • **3**—pap and chap	When AuthType is none, UserName is not required, otherwise UserName is required.
UserName	User name	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A
PassWord	Password string	N/A	String. case-sensitive. Length: 1 to 32 characters.	PassWord can not be returned when you get data.

CELLULAR/CellularModem

This table contains information about call connection information for a modem.

XML structure

```
<Cellular>
  <CellularModem>
    <Modem>
      <IfIndex></IfIndex>
```

```
      <RSSI></RSSI>
      <RSRP></RSRP>
      <SNR></SNR>
      <TechSeleted></TechSeleted>
      <MCC></MCC>
      <MNC></MNC>
      <SIMStatus></SIMStatus>
      <MNName></MNName>
    </Modem>
  </CellularModem>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularModem
Table type	Multi-instance table
Row name	Modem
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
RSSI	Received Signal Strength Indication.	N/A	Integer.	N/A
RSRP	Reference Signal Receiving Power.	N/A	Integer.	N/A
SNR	Signal Noise Ratio	N/A	Integer.	N/A
TechSeleted	Network type in use.	N/A	Enumeration: • **0**—No Service. • **1**—2G.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—3G. • **3**—LTE. • **4**—5G.	
MCC	Mobile Country Code.	N/A	Unsigned integer.	N/A
MNC	Mobile Network Code.	N/A	Unsigned integer.	N/A
SIMStatus	SIM status.	N/A	Enumeration: • **0**—OK. • **1**—Locked. • **2**—Not insert. • **3**—Unknown.	N/A
MNName	Mobile Network Name	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

Contents

Comware 7 Cellular NETCONF XML API Error Message Reference 1
Cellular/CellularVerify 1
Cellular/UnLock 2
Cellular/CellularVerificationEnable 2
Cellular/CellularMode 3
Cellular/CellularVerificationDis 4
Cellular/CellularProfile 4
Cellular/CellularApnProfile 5
Cellular/CellularApplyProfile 5
Cellular/CellularModemReboot 5

Comware 7 Cellular NETCONF XML API Error Message Reference

Cellular/CellularVerify

Message	Explanation
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。
CELLULAR is not configured. CELLULAR口未配置。	The cellular need to be configured. 需要配置cellular接口。
UIM card has been locked. Please verify PIN first. UIM卡锁定，请先解锁。	UIM card has been locked. UIM卡被锁定。
SIM card has been locked. Please verify PIN first. SIM卡锁定，请先解锁。	SIM card has been locked. SIM卡被锁定。
Please enable PIN verification first. 请先使能PIN认证功能	Need to be enable PIN verification. 需要使能PIN认证。
Failed to change the PIN, and the number of retries remaining is x. 改变PIN码失败剩余次数x次。	The SIM card will be locked after a certain number of failed to change the PIN 更改PIN失败x次后SIM卡会被锁定。
Failed to change the PIN. 改变PIN码失败。	Failed to change the PIN. 改变PIN码失败。
PIN has been locked. Please use PUK to unlock PIN. PIN锁定，请先使用PUK解锁。	PIN has been locked. PIN被锁定。
3G Modem has no PIN verification requirement. 3G上网卡没有PIN认证需求。	It does not need to be enable PIN verification. 不需要PIN认证。
Failed to verify PIN, and the number of retries remaining is x. 认证PIN失败剩余次数x次。	The SIM card will be locked after a certain number of failed to verify PIN 认证PIN失败x次后SIM卡会被锁定。
Failed to verify PIN. 认证PIN失败。	PIN Code is error. PIN码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	No 3G/4G modem on this interface. 3G/4G Modem不存在。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。

3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。

Cellular/UnLock

Message	Explanation
Operation failed because there is no PIN unlocking requirement. 操作失败，没有PIN码解锁请求。	3G modem has no PIN unlocking requirement. 3G Modem没有PIN码解锁要求。
Failed to unlock the PIN, and the number of retries remaining is x. 解锁失败，剩余解锁次数x。.	The SIM card will be locked after a certain number of failed to unlock the PIN 解锁PIN失败x次后SIM卡会被锁定。
Failed to unlock the PIN. PIN码解锁失败。	PIN Code is error. PIN码错误。
PIN Code is invalid. PIN码不合法。	PIN Code is error. PIN码错误。
PUK Code is invalid. PUK码不合法。	PUK Code is error. PUK码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be userd on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularVerificationEnable

Message	Explanation
UIM card has been locked. Please verify PIN first. UIM卡锁定，请先解锁。	UIM card has been locked. UIM卡被锁定。
SIM card has been locked. Please verify PIN first. SIM卡锁定，请先解锁。	SIM card has been locked. SIM卡锁定。
PIN has been locked. Please use PUK to unlock PIN.	PIN has been locked.

PIN锁定，请先使用PUK解锁。	PIN码被锁定。
PIN is not required. 不需要PIN码。	No need to enter a PIN. 不需要输入PIN码。
PIN is required. 需要PIN码。	need to enter a PIN. 需要输入PIN码。
Failed to enable PIN verification, and the number of retries remaining is x. 开启PIN认证失败，剩余次数：x次。	The SIM card will be locked after a certain number of failed to enable PIN verification. 开启认证PIN失败x次后，SIM卡会被锁定。
Failed to disable PIN verification, and the number of retries remaining is x. 关闭PIN认证失败，剩余次数：x次。	The SIM card will be locked after a certain number of failed to disable PIN verification. 关闭认证PIN失败x次后，SIM卡会被锁定。
Failed to enable PIN verification. 开启PIN认证失败。	Failed to enable PIN verification. 开启PIN认证失败。
Failed to disable PIN verification. 关闭PIN认证失败。	Failed to disable PIN verification. 关闭PIN认证失败。
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
PIN Code is invalid. PIN码不合法。	PIN Code is error. PIN码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can’t be userd on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularMode

Message	Explanation
Failed to get the network connection mode. 获取网络连接模式失败。	Failed to get the network connection mode. 获取网络连接模式失败。
Don't support the mode. 不支持此连接模式。	Don't support the mode. 不支持此连接模式。
No 3G/4G modem on this interface.	The operation can’t be userd on the interface which has not a

3G/4G Modem不存在。	3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularVerificationDis

Message	Explanation
Failed to get pin verification. 获取PIN认证失败。	Failed to get pin verification. 获取PIN认证失败。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can’t be userd on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularProfile

Message	Explanation
Failed to create a parameter profile of 3G/4G Modem. 创建3G/4G Modem参数模板失败。	Failed to create a parameter profile of 3G/4G Modem. 创建3G/4G Modem参数模板失败。
Failed to delete a parameter profile of 3G/4G Modem. 删除3G/4G Modem参数模板失败。	Failed to delete a parameter profile of 3G/4G Modem. 删除3G/4G Modem参数模板失败。
The configuration doesn't meet the requirements.	The configuration parameter is incomplete.

不符合配置要求。	配置参数不全。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be userd on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Anther command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularApnProfile

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
The apn profile has been applied by interface, delete the applying first. 该参数模板已被接口应用，请先删除应用。	The apn profile has been applied by interface. 模板已在其他接口上使用。

Cellular/CellularApplyProfile

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
Please configure the apn profile first. 请先配置参数模板。	This message means apn profile not be configured. apn profile模板不存在。

Cellular/CellularModemReboot

Message	Explanation
Cellular feature is not enabled. CELLULAR特性未启动。	This message means cellular not be configured. 没有cellular特性。
Failed to reboot 3G/4G Modem. 3G/4G Modem重启失败。	3G/4G Modem reboot failed. 3G/4G Modem重启失败。

Contents

CFD 1

CFD/Y1731Statistics 1
XML structure 1
Table description 2
Columns 2
CFD/Y1731Statistics/DmTwoways 3
XML structure 3
Table description 3
Columns 3
CFD/Y1731Statistics/DmTwoways/MepIDs 3
XML structure 3
Table description 3
Columns 4
CFD/Y1731Statistics/Slms 4
XML structure 4
Table description 4
Columns 5
CFD/Y1731Statistics/Slms/MepIDs 5
XML structure 5
Table description 5
Columns 5
CFD/Y1731Statistics/Dlms 6
XML structure 6
Table description 6
Columns 6
CFD/Y1731Statistics/Dlms/MepIDs 7
XML structure 7
Table description 7
Columns 7

CFD

CFD/Y1731Statistics

This table contains CFD Statistics information.

XML structure

```
<CFD>
  <Y1731Statistics>
    <DmTwoways>
      <DmTwoway>
        <ServiceInstance></ServiceInstance>
        <MepIDs>
          <MepID>
            <MepID></MepID>
            <DelayStatistics>
              <TestIndex></TestIndex>
              <Delay></Delay>
              <DelayVar></DelayVar>
            </DelayStatistics>
            <AverageDelay></AverageDelay>
            <AverageDelayVar></AverageDelayVar>
          </MepID>
        </MepIDs>
      </DmTwoway>
    </DmTwoways>
    <Slms>
      <Slm>
        <ServiceInstance></ServiceInstance>
        <MepIDs>
          <MepID>
            <MepID></MepID>
            <LossStatistics>
              <TestIndex></TestIndex>
              <FarEndLoss></FarEndLoss>
              <FarEndLossRate></FarEndLossRate>
              <NearEndLoss></NearEndLoss>
              <NearEndLossRate></NearEndLossRate>
            </LossStatistics>
            <FarEndLossAverage></FarEndLossAverage>
            <FarEndLossAverageRate></FarEndLossAverageRate>
            <NearEndLossAverage></NearEndLossAverage>
            <NearEndLossAverageRate></NearEndLossAverageRate>
          </MepID>
        </MepIDs>
```

```
    </Slm>
  </Slms>
  <Dlms>
    <Dlm>
      <ServiceInstance></ServiceInstance>
      <MepIDs>
        <MepID>
          <MepID></MepID>
          <LossStatistics>
            <TestIndex></TestIndex>
            <FarEndLoss></FarEndLoss>
            <FarEndLossRate></FarEndLossRate>
            <NearEndLoss></NearEndLoss>
            <NearEndLossRate></NearEndLossRate>
          </LossStatistics>
          <FarEndLossAverage></FarEndLossAverage>
          <FarEndLossAverageRate></FarEndLossAverageRate>
          <NearEndLossAverage></NearEndLossAverage>
          <NearEndLossAverageRate></NearEndLossAverageRate>
        </MepID>
      </MepIDs>
    </Dlm>
  </Dlms>
 </Y1731Statistics>
</CFD>
```

Table description

Item	Description
Feature name	CFD
Table name	Y1731Statistics
Table type	Single-instance table
Row name	N/A
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
DmTwoways	DmTwoways table	Sublist	N/A
Slms	Slms table	Sublist	N/A
Dlms	Dlms table	Sublist	N/A

CFD/Y1731Statistics/DmTwoways

This table contains two-way DM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	DmTwoways
Table type	Multi-instance table
Row name	DmTwoway
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/DmTwoways/MepIDs

This table contains two-way DM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	Index	Unsigned short. **Value range:1 to 8191**.
DelayStatistics	N/A	Data structure	Members include: • TestIndex. • Delay. • DelayVar.
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
Delay	Specify delay time in us	N/A	Unsigned integer: **Length: 64 bits.**
DelayVar	Specify delay time variation in us	N/A	Unsigned integer: **Length: 64 bits.**
AverageDelay	Specify average delay time in us	N/A	Unsigned integer: **Length: 64 bits.**
AverageDelayVar	Specify average delay time variation in us	N/A	Unsigned integer: **Length: 64 bits.**

CFD/Y1731Statistics/Slms

This table contains SLM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	Slms
Table type	Multi-instance table
Row name	Slm
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/Slms/MepIDs

This table contains SLM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	Index	Unsigned short. **Value range:1 to 8191**.
LossStatistics	N/A	Data structure	Members include: • TestIndex. • FarEndLoss • NearEndLoss • FarEndLossRate • NearEndLossRate
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
FarEndLoss	Specify packet loss on the target MEP	N/A	Unsigned integer: **Length: 32 bits**
NearEndLoss	Specify packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**

Column name	Column description	Column type	Data type and restrictions
FarEndLossRate	Specify packet loss rate on the target MEP	N/A	String
NearEndLossRate	Specify packet loss rate on the source MEP	N/A	String
FarEndLossAverage	Specify average packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**
NearEndLossAverage	Specify average packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossAverageRate	Specify average packet loss rate on the target MEP	N/A	String
NearEndLossAverageRate	Specify average packet loss rate on the source MEP	N/A	String

CFD/Y1731Statistics/Dlms

This table contains DLM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	Dlms
Table type	Multi-instance table
Row name	Dlm
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/Dlms/MepIDs

This table contains DLM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	index	Unsigned short. **Value range:1 to 8191**.
LossStatistics	N/A	Data structure	Members include: • TestIndex. • FarEndLoss • NearEndLoss • FarEndLossRate • NearEndLossRate
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
FarEndLoss	Specify packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**
NearEndLoss	Specify packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossRate	Specify packet loss rate on the target MEP	N/A	String
NearEndLossRate	Specify packet loss rate on the source MEP	N/A	String
FarEndLossAverage	Specify average packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**

Column name	Column description	Column type	Data type and restrictions
NearEndLossAverage	Specify average packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossAverageRate	Specify average packet loss rate on the target MEP	N/A	String
NearEndLossAverageRate	Specify average packet loss rate on the source MEP	N/A	String

Contents

CMTNLMGR 1
Cmtnlmgr/CloudUnbindingCode 1
XML structure 1
Table description 1
Columns 1
Cmtnlmgr/UpDateDevVersion 1
XML structure 2
Table description 2
Columns 2

CMTNLMGR

Cmtnlmgr/CloudUnbindingCode

This table is used to send the verification code for device unbinding to the Oasis server.

XML structure

```
<Cmtnlmgr>
  <CloudUnbindingCode>
    <Code></Code>
  </CloudUnbindingCode>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudUnbindingCode
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Code	Specify the verification code obtained from the Oasis server	N/A	A case-sensitive string of 16.	N/A

Cmtnlmgr/UpDateDevVersion

This table is used to upgrade the device software version.

XML structure

```
<Cmtnlmgr>
  <UpDateDevVersion>
    <UpdateAction></UpdateAction>
  </UpDateDevVersion>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	UpDateDevVersion
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpdateAction	Specify the software version upgrade mode.	N/A	Unsigned integer. Value range: 0 to 2.	N/A

Contents

CMTNLMGR 1

Cmtnlmgr/CloudDomainName 1
XML structure 1
Table description 1
Columns 1
Cmtnlmgr/CloudBackupDomain 2
XML structure 2
Table description 2
Columns 3
Cmtnlmgr/CloudPort 3
XML structure 3
Table description 3
Columns 4
Cmtnlmgr/CloudBackupDomainExt 4
XML structure 4
Table description 4
Columns 4
Cmtnlmgr/CloudPassword 5
XML structure 5
Table description 5
Columns 6
Cmtnlmgr/CloudToken 6
XML structure 6
Table description 6
Columns 6
Cmtnlmgr/KeepAlive 7
XML structure 7
Table description 7
Columns 7

CMTNLMGR

Cmtnlmgr/CloudDomainName

This table contains information about cloud domains.

XML structure

```
<Cmtnlmgr>
  <CloudDomainName>
    <DomainName></DomainName>
    <Port></Port>
    <VrfName></VrfName>
    <SrcIPAddr></SrcIPAddr>
    <AddressType></AddressType>
  </CloudDomainName>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudDomainName
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the cloud domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with the AddressType field.
Port	Cloud server port	N/A	Unsigned integer. Value range: 0 to 65535.	If you set the port to 0, the device will use Cmtnlmgr/Cloud Port or default port as the cloud

				server port.
VrfName	Name of the VPN	N/A	String. Length: 1 to 31 characters.	N/A
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field.
AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

CmtnImgr/CloudBackupDomain

This table contains information about cloud backup domains. This table will become obsolete. As a best practice, use the new table CloudBackupDomainExt.

XML structure

```
<Cmtnlmgr>
  <CloudBackupDomain>
    <Domain>
      <DomainName></DomainName>
      <VrfName></VrfName>
      <SrcIPAddr></SrcIPAddr>
      <AddressType></AddressType>
    </Domain>
  </CloudBackupDomain>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudBackupDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the backup cloud domain	Index	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with the AddressType field.
VrfName	Name of the VPN	N/A	String. Length: 1 to 31 characters.	N/A
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field.
AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

CmtnImgr/CloudPort

This table contains information about cloud server port.

XML structure

```
<Cmtnlmgr>
  <CloudPort>
    <Port></Port>
  </CloudPort>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudPort
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Cloud server port.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 19443.	N/A

CmtnImgr/CloudBackupDomainExt

This table contains extended information about cloud backup domains.

XML structure

```
<Cmtnlmgr>
  <CloudBackupDomainExt>
    <Domain>
      <DomainName></DomainName>
      <Port></Port>
      <VrfName></VrfName>
      <SrcIPAddr></SrcIPAddr>
      <AddressType></AddressType>
    </Domain>
  </CloudBackupDomainExt>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudBackupDomainExt
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the backup cloud domain.	Index	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with

				the AddressType field.
Port	Cloud server port	Index	Unsigned integer. Value range: 0 to 65535.	If you set the port to 0, the device will use Cmtnlmgr/Cloud Port or default port as the cloud server port.
VrfName	Name of the VPN	N/A	String. Length: 1 to 31 characters.	N/A
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field.
AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

Cmtnlmgr/CloudPassword

This table contains cloud server password information.

XML structure

```
<Cmtnlmgr>
  <CloudPassword>
    <PasswordType></PasswordType>
    <Password></Password>
  </CloudPassword>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudPassword
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordType	Password type.	N/A	Enumeration. • 1—Plaintext. • 2—Ciphertext.	N/A
Password	Cloud server password.	N/A	String, case-sensitive. Length: • 1 to 63 characters for plaintext password. • 1 to 117 characters for ciphertext password.	N/A

CmtnImgr/CloudToken

This table contains cloud server token information.

XML structure

```
<Cmtnlmgr>
  <CloudToken>
    <TokenType></TokenType>
    <Token></Token>
  </CloudToken>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudToken
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TokenType	Token type.	N/A	Enumeration. • 1—Plaintext. • 2—Ciphertext.	N/A

Token	Cloud server token.	N/A	String, case-sensitive. Length: • 1 to 63 characters for plaintext token. • 1 to 117 characters for ciphertext token.	N/A

Cmtnlmgr/KeepAlive

This table contains cloud server keepalive configuration information.

XML structure

```
<Cmtnlmgr>
  <KeepAlive>
    <KeepAliveInterval></KeepAliveInterval>
    <KeepAliveCount></KeepAliveCount>
  </KeepAlive>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	KeepAlive
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAliveInterval	Keepalive sending interval	N/A	Unsigned integer. Value range: 10 to 600. Default: 180.	N/A
KeepAliveCount	Number of keepalive packets that can be sent to the cloud server	N/A	Unsigned integer. Value range: 2 to 100. Default: 3.	N/A

Contents

CMTNLMGR 1

Cmtnlmgr/CloudAccount 1
XML structure 1
Table description 1
Columns 1
Cmtnlmgr/CloudConnect 1
XML structure 2
Table description 2
Columns 2
Cmtnlmgr/CloudDomainName 2
XML structure 2
Table description 3
Columns 3
Cmtnlmgr/CloudBackupDomain 4
XML structure 4
Table description 4
Columns 4
Cmtnlmgr/CloudPort 5
XML structure 5
Table description 5
Columns 5
Cmtnlmgr/UpdateStatus 5
XML structure 6
Table description 6
Columns 6
Cmtnlmgr/VersionInfo 6
XML structure 6
Table description 7
Columns 7
Cmtnlmgr/CloudBackupDomainExt 7
XML structure 7
Table description 8
Columns 8
Cmtnlmgr/CloudPassword 9
XML structure 9
Table description 9
Columns 9
Cmtnlmgr/CloudToken 9
XML structure 9
Table description 10
Columns 10
Cmtnlmgr/KeepAlive 10
XML structure 10
Table description 10
Columns 11

CMTNLMGR

Cmtnlmgr/CloudAccount

This table contains information about cloud accounts.

XML structure

```
<Cmtnlmgr>
  <CloudAccount>
    <CloudAccountEntry>
      <CloudAccountName></CloudAccountName>
      <CloudConnectionState></CloudConnectionState>
    </CloudAccountEntry>
  </CloudAccount>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudAccount
Table type	Single-instance table
Row name	CloudAccountEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CloudAccountName	Name of the cloud account.	Index	String, case-sensitive. Length: 1 to 128 characters.	N/A
CloudConnectionState	Connection state of the cloud.	N/A	Enumeration. • **1**—Online • **2**—Offline	N/A

Cmtnlmgr/CloudConnect

This table contains connection information for the cloud.

XML structure

```
<Cmtnlmgr>
  <CloudConnect>
    <CloudConnectEntry>
      <LastConnectTime></LastConnectTime>
      <LastSyncTime></LastSyncTime>
      <ConnectState></ConnectState>
    </CloudConnectEntry>
  </CloudConnect>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudConnect
Table type	Single-instance table
Row name	CloudConnectEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LastConnectTime	Last connection time of the device.	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
LastSyncTime	Last synchronization time of the device.	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
ConnectState	Connection state of the cloud	N/A	Enumeration. • 1—Online • 2—Offline	N/A

CmtnImgr/CloudDomainName

This table contains information about cloud domains.

XML structure

```
<Cmtnlmgr>
  <CloudDomainName>
    <DomainName></DomainName>
    <Port></Port>
    <VrfName></VrfName>
```

```
    <SrcIPAddr></SrcIPAddr>
    <AddressType></AddressType>
  </CloudDomainName>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudDomainName
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the cloud domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with the AddressType field.
Port	Cloud server port	N/A	Unsigned integer. Value range: 0 to 65535.	In the get operation, 0 means that the server uses Cmtnlmgr/CloudPort if the Cmtnlmgr/CloudPort is configured. If Cmtnlmgr/CloudPort is not configured, the server uses the default port.
VrfName	Name of the VPN	N/A	String. Length: 0 to 31 characters.	0 represents public vrf.
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field. If the value for this field is 0.0.0.0 or ::, the source address is automatically selected by the system.

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

Cmtnlmgr/CloudBackupDomain

This table contains information about cloud backup domains. This table will become obsolete. As a best practice, use the new table CloudBackupDomainExt.

XML structure

```
<Cmtnlmgr>
  <CloudBackupDomain>
    <Domain>
      <DomainName></DomainName>
      <VrfName></VrfName>
      <SrcIPAddr></SrcIPAddr>
      <AddressType></AddressType>
    </Domain>
  </CloudBackupDomain>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudBackupDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the backup cloud domain	Index	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with the AddressType field. If the value for this field is 0.0.0.0 or ::, the source address is automatically selected by the system.

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN	N/A	String. Length: 0 to 31 characters.	0 represents public vrf.
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field.
AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

CmtnImgr/CloudPort

This table contains information about cloud server port.

XML structure

```
<Cmtnlmgr>
  <CloudPort>
    <Port></Port>
  </CloudPort>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudPort
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Cloud server port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

CmtnImgr/UpdateStatus

This table contains device update device information.

XML structure

```
<Cmtnlmgr>
  <UpdateStatus>
    <CurDevUpdateStatus></CurDevUpdateStatus>
  </UpdateStatus>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	UpdateStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CurDevUpdateStatus	Device update state.	N/A	Unsigned integer. Value range: 0 to 11. • **0**—Downloading • **1**—Updating • **2**—Update complete • **3**—Insufficient space • **4**—Download failed • **5**—Update failed • **6**—Save configuration failed • **7**—Reboot failed • **8**—Time space not enough • **9**—Other error • **10**—Lvzhou_updating • **11**—Not updating	N/A

CmtnlmgrVersionInfo

This table contains information about the new and current device software versions

XML structure

```
<Cmtnlmgr>
```

```
  <VersionInfo>
    <NewSoftWareVersion></NewSoftWareVersion>
    <CurSoftWareVersion></CurSoftWareVersion>
  </VersionInfo>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	VersionInfo
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NewSoftWareVersion	New version.	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
CurSoftWareVersion	Current version.	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

CmtnImgr/CloudBackupDomainExt

This table contains extended information about cloud backup domains.

XML structure

```
<Cmtnlmgr>
  <CloudBackupDomainExt>
    <Domain>
      <DomainName></DomainName>
      <Port></Port>
      <VrfName></VrfName>
      <SrcIPAddr></SrcIPAddr>
      <AddressType></AddressType>
    </Domain>
  </CloudBackupDomainExt>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudBackupDomainExt
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the backup cloud domain	Index	String, case-insensitive. Length: 1 to 253 characters.	If domain name is an address, the type of the address must be consistent with the AddressType field. If the value for this field is 0.0.0.0 or ::, the source address is automatically selected by the system.
Port	Cloud server port	Index	Unsigned integer. Value range: 0 to 65535.	In the get operation, 0 means that the server uses Cmtnlmgr/Cloud Port if the Cmtnlmgr/Cloud Port is configured. If Cmtnlmgr/Cloud Port is not configured, the server uses the default port.
VrfName	Name of the VPN	N/A	String. Length: 0 to 31 characters.	0 represents the public VRF.
SrcIPAddr	Source IPv4 or IPv6 address	N/A	String. IPv4: dotted decimal notation. IPv6: colon-separated notation.	The type of the source address must be consistent with the AddressType field.

AddressType	Cloud server address type	N/A	Enumeration: • **0**—IPv4 address type • **1**—IPv6 address type	The default value is 0.

Cmtnlmgr/CloudPassword

This table contains cloud server password information.

XML structure

```
<Cmtnlmgr>
  <CloudPassword>
    <PasswordType></PasswordType>
  </CloudPassword>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudPassword
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordType	Password type	N/A	Enumeration. • 1—Plaintext. • 2—Ciphertext.	N/A

Cmtnlmgr/CloudToken

This table contains cloud server token information.

XML structure

```
<Cmtnlmgr>
  <CloudToken>
    <TokenType></TokenType>
  </CloudToken>
```

```
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudToken
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TokenType	Token type	N/A	Enumeration. • 2—Ciphertext.	N/A

CmtnImgr/KeepAlive

This table contains cloud server keepalive configuration information.

XML structure

```
<Cmtnlmgr>
  <KeepAlive>
    <KeepAliveInterval></KeepAliveInterval>
    <KeepAliveCount></KeepAliveCount>
  </KeepAlive>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	KeepAlive
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAliveInterval	Keepalive sending interval	N/A	Unsigned integer. Value range: 10 to 600.	N/A
KeepAliveCount	Number of keepalive packets that can be sent to the cloud server	N/A	Unsigned integer. Value range: 2 to 100.	N/A

Contents

CMTNLMGR 1
Cmtnlmgr/CloudDomainName 1
Cmtnlmgr/CloudBackupDomain 1
Cmtnlmgr/CloudBackupDomainExt 1
Cmtnlmgr/CloudPassword 2
Cmtnlmgr/CloudToken 2

CMTNLMGR

Cmtnlmgr/CloudDomainName

Message	Explanation
The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。	The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。
The number of ports has reached the limit. 该服务器端口号数量已达到上限。	The number of ports has reached the limit. 该服务器端口号数量已达到上限。
The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致	The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致
Invalid Ip Address. IP地址不合法。	Invalid Ip Address. IP地址不合法。
Domain name not issued. 域名未下发。	Domain name not issued. 域名未下发。

Cmtnlmgr/CloudBackupDomain

Message	Explanation
The number of backup cloud servers has reached the limit. 备服务器数量已达到上限。	The number of backup cloud servers has reached the limit. 备服务器数量已达到上限。
The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。	The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。
The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致	The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致
Invalid Ip Address. IP地址不合法。	Invalid Ip Address. IP地址不合法。

Cmtnlmgr/CloudBackupDomainExt

Message	Explanation
The number of backup cloud servers has reached the limit. 备服务器数量已达到上限。	The number of backup cloud servers has reached the limit. 备服务器数量已达到上限。

The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。	The configuration conflicts with that of other cloud servers. 配置与其他云服务器冲突。
The number of ports has reached the limit. 该服务器端口号数量已达到上限。	The number of ports has reached the limit. 该服务器端口号数量已达到上限。
The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致	The type of address specified in the domain name field or the type of the source address is inconsistent with the AddderssType field. 域名或源地址与地址类型不一致
Invalid Ip Address. IP地址不合法。	Invalid Ip Address. IP地址不合法。

CmtnImgr/CloudPassword

Message	Explanation
The password type and password must be configured together. 密码类型和密码必须同时配置。	Invalid configuration. Please edit the configuration by following the guidance. 无效配置。请按照配置说明修改
Invalid ciphertext password. 密文密码不合法。	Invalid ciphertext password. 非法的密文密码。
Invalid plaintext password length. 明文密码长度不合法。	Invalid configuration. Please edit the configuration by following the guidance. 无效配置。请按照配置说明修改

CmtnImgr/CloudToken

Message	Explanation
The token type and token must be configured together. 令牌类型和令牌必须同时配置。	Invalid configuration. Please edit the configuration by following the guidance. 无效配置。请按照配置说明修改
Invalid ciphertext token. 密文令牌不合法。	Invalid ciphertext token. 非法的密文令牌。
Invalid plaintext token length. 明文令牌长度不合法。	Invalid configuration. Please edit the configuration by following the guidance. 无效配置。请按照配置说明修改

Contents

Collaboration/ClearInactivePorts 1
XML structure 1
Table description 1
Columns 1

Collaboration/ClearInactivePorts

This table remove ineffective ports from all collaboration groups

XML structure

```
<Collaboration>
  <ClearInactivePorts>
    <Clear></Clear>
  </ClearInactivePorts>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	ClearInactivePorts
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Remove ineffective ports from all collaboration groups	N/A	This column must be empty.

Contents

Collaboration 1
Collaboration/Global 1
XML structure 1
Table description 1
Columns 1
Collaboration/Groups 1
XML structure 1
Table description 2
Columns 2
Collaboration/Interfaces 2
XML structure 2
Table description 3
Columns 3

Collaboration

Collaboration/Global

This table contains Collaboration group global information.

XML structure

```
<Collaboration>
  <Global>
    <Enable></Enable>
  </Global>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether Collaboration group is enabled globally.	N/A	Boolean: • **true**—Enabled. (default). • **false**—Disabled.

Collaboration/Groups

This table contains information about Collaboration group.

XML structure

```
<Collaboration>
  <Groups>
    <Group>
```

```
      <ID></ID>
      <UpDelay></UpDelay>
    </Group>
  </Groups>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The maximum collaboration group ID varies by device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Collaboration group ID.	Index	Unsigned integer `Length: 32 bits.`	The maximum collaboration group ID varies by device model.
UpDelay	Updelay timer in seconds	N/A	Unsigned integer. • **Value range:** 0 to 3600. • Default: 0.	The up delay is the time that the interfaces in the collaboration group wait before they come up when the device restarts.

Collaboration/Interfaces

This table contains information about port of Collaboration group.

XML structure

```
<Collaboration>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ID></ID>
    </Interface>
  </Interfaces>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports Layer 2/3 Ethernet interface, Layer 2/3 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ID	Collaboration group ID.	N/A	Unsigned integer. • Default: 0.	The maximum collaboration group ID varies by device model..

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>

Contents

Collaboration 1
Collaboration/Global 1
XML structure 1
Table description 1
Columns 1
Collaboration/Groups 1
XML structure 1
Table description 2
Columns 2
Collaboration/Interfaces 3
XML structure 3
Table description 3
Columns 3

Collaboration

Collaboration/Global

This table contains Collaboration group global information.

XML structure

```
<Collaboration>
  <Global>
    <Enable></Enable>
    <MaxGroupId></MaxGroupId>
  </Global>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether Collaboration group is enabled globally.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MaxGroupId	The max Collaboration group id	N/A	Unsigned integer `Length: 32 bits.`

Collaboration/Groups

This table contains information about Collaboration group.

XML structure

```
<Collaboration>
  <Groups>
```

```
    <Group>
      <ID></ID>
      <Status></Status>
      <UpDelay></UpDelay>
      <LastUpTime></LastUpTime>
      <LastDownTime></LastDownTime>
    </Group>
  </Groups>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Collaboration group ID.	Index	Unsigned integer `Length: 32 bits.`	The maximum collaboration group ID varies by device model.
Status	The status of Collaboration group	N/A	Unsigned integer. Length: 8 bits. Enumeration: • **0**—N/A. • **1**—DOWN. • **2**—UP • **3**—UP-Pending.	N/A
UpDelay	Updelay timer in seconds	N/A	Unsigned integer. • **Value range:** 0 to 3600. • Default: 0.	The up delay is the time that the interfaces in the collaboration group wait before they come up when the device restarts.
LastUpTime	Group last up time	N/A	DateTime.	N/A
LastDownTime	Group last down time	N/A	DateTime.	N/A

Collaboration/Interfaces

This table contains information about port of Collaboration group.

XML structure

```
<Collaboration>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ID></ID>
      <Status></Status>
    </Interface>
  </Interfaces>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ID	Collaboration group ID.	N/A	Unsigned integer `Length: 32 bits.`	The maximum collaboration group ID varies by device model.
Status	The status of ports	N/A	Unsigned integer. Length: 8 bits. Enumeration: • **0**—UP. • **1**—DOWN. • **2**—Collaboration-down • **3**—Not available	

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>

Contents

Configuration 1

Configuration/Files 1
XML structure 1
Table description 1
Columns 1
Configuration/MDCOrContextFiles 2
XML structure 2
Table description 2
Columns 2
Configuration/ManualBackups 3
XML structure 3
Table description 3
Columns 3
Configuration/ManualRollbacks 3
XML structure 4
Table description 4
Columns 4
Configuration/ResetSavedConfiguration 4
XML structure 4
Table description 5
Columns 5

Configuration

Configuration/Files

This table contains configuration file information.

XML structure

```
<Configuration>
  <Files>
    <File>
      <Name></Name>
      <NextMain></NextMain>
      <NextBackup></NextBackup>
    </File>
  </Files>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Configuration file must have the suffix .cfg, and must already exist in the root directory of storage medium.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full path and filename	Index	String. Length: 1 to 255 characters.	Examples: • flash:/startup.cfg • chassis3#slot1#flash:/main.cfg
NextMain	Whether the configuration file is the main next-startup configuration file	N/A	Boolean: • true. • false.	N/A
NextBackup	Whether the configuration file is the backup next-startup	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	configuration file			

Configuration/MDCOrContextFiles

This table contains information about an MDC or a context.

XML structure

```
<Configuration>
  <MDCOrContextFiles>
    <MDCOrContextFile>
      <MDCOrContextID></MDCOrContextID>
      <Name></Name>
      <Save></Save>
      <Overwrite></Overwrite>
    </MDCOrContextFile>
  </MDCOrContextFiles>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	MDCOrContextFiles
Table type	Multi-instance table
Row name	MDCOrContextFile
Restrictions	On the default MDC or context, all MDCs or contexts can be operated. On a non-default MDC or context, only the current MDC or context can be operated.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCOrContextID	MDC or context index	Index	Unsigned integer.	N/A
Name	Full path and filename	Index	String. Length: 1 to 300 characters. This directory must be the root directory of the active MPU.	Example: • chassis3#slot1#flash:/main.cfg • flash:/startup.cfg • main.cfg

Column name	Column description	Column type	Data type and restrictions	Remarks
			The filename (without the chassiN#slotN# field) cannot exceed 255 characters.	
Save	Save configuration	N/A	This column must be empty.	N/A
Overwrite	Whether to overwrite the configuration file if it has already existed	N/A	Boolean: • true. • false.	This column must coexist with the **Save** column.

Configuration/ManualBackups

This table archives the running configuration to a configuration file.

XML structure

```
<Configuration>
  <ManualBackups>
    <ManualBackup></ManualBackup>
  </ManualBackups>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ManualBackups
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ManualBackup	Archive the running configuration to a configuration file	N/A	This column must be empty.

Configuration/ManualRollbacks

This table replaces the running configuration with a configuration file.

XML structure

```
<Configuration>
  <ManualRollbacks>
    <ManualRollback></ManualRollback>
    <RollbackName></RollbackName>
    <Time></Time>
    <Date></Date>
  </ManualRollbacks>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ManualRollbacks
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ManualRollback	Replace the running configuration with a configuration file	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
RollbackName	Replacement configuration file name	N/A	String. Length: 1 to 255 characters.
Time	Replacement time	N/A	Format: hh:mm. Value range: 00:00 to 23:59.
Date	Replacement date	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.

Configuration/ResetSavedConfiguration

This table resets the next-startup configuration, which can be the main next-startup configuration, backup next-startup configuration, or both.

XML structure

```
<Configuration>
  <ResetSavedConfiguration>
    <ConfigurationType></ConfigurationType>
```

```
    <KeepConfigurationFile></KeepConfigurationFile>
  </ResetSavedConfiguration>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ResetSavedConfiguration
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConfigurationType	Next-startup configuration file type	N/A	Enumeration string: • All. • Main. • Backup.
KeepConfiguration File	Whether the next-startup configuration file is retained or deleted	N/A	Boolean: • **true**—Retained. • **false**—Deleted.

Contents

Configuration 1

Configuration/System 1
XML structure 1
Table description 1
Columns 1
Configuration/ArchiveLocal 1
XML structure 1
Table description 2
Columns 2
Configuration/ArchiveServer 2
XML structure 2
Table description 3
Columns 3
Configuration/ReplaceServer 4
XML structure 4
Table description 4
Columns 5
Configuration/ExclusiveLock 5
XML structure 5
Table description 6
Columns 6

Configuration

Configuration/System

This table contains configuration information.

XML structure

```
<Configuration>
  <System>
    <Encryption></Encryption>
  </System>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	System
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Encryption	Encryption mode	N/A	Enumeration: • 0—Unencrypted • 1—Private-key encryption • 2—Public-key encryption

Configuration/ArchiveLocal

This table contains configuration local archivel information.

XML structure

```
<Configuration>
  <ArchiveLocal>
    <Interval></Interval>
    <Count></Count>
```

```
    <DirPath></DirPath>
    <Prefix></Prefix>
  </ArchiveLocal>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ArchiveLocal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Time interval to automatic backup.	N/A	Unsigned integer. Value range: 0、10 to 525600.
Count	Save the maximum number of backup files locally.	N/A	Unsigned integer. Value range: 1 to 10.
DirPath	Local save path.	N/A	String. Length: 1 to 63 characters.
Prefix	Local save file prefix.	N/A	String. Length: 1 to 30 characters.

Configuration/ArchiveServer

This table contains configuration server archive information.

XML structure

```
<Configuration>
  <ArchiveServer>
    <ArchiveHost>
      <ServerType></ServerType>
      <AddressType></AddressType>
      <Address></Address>
      <VRF></VRF>
      <Interval></Interval>
      <UserName></UserName>
      <Password></Password>
      <Port></Port>
```

```
      <DirPath></DirPath>
      <Prefix></Prefix>
    </ArchiveHost>
  </ArchiveServer>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ArchiveServer
Table type	Multi-instance table
Row name	ArchiveHost
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerType	Type of the server.	Index	Enumeration: • 1—FTP • 2—TFTP	N/A
AddressType	Type of the address.	N/A	Enumeration: • 1—IPV4 • 2—IPV6	N/A
Address	Address of the remote manage.	Index	String. Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	N/A
Interval	Time interval to automatic backup.	N/A	Unsigned integer. Value range: 0、10 to 525600.	N/A
UserName	User name.	N/A	String. Length: 1 to 63 characters.	N/A
Password	Password.	N/A	String. Length: 1 to 63 characters.	N/A
Port	Port Number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DirPath	Server save path.	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
Prefix	Server save file prefix.	N/A	String. Length: 1 to 30 characters.	N/A

Configuration/ReplaceServer

This table contains configuration server replace information.

XML structure

```
<Configuration>
  <ReplaceServer>
    <ReplaceHost>
      <ServerType></ServerType>
      <AddressType></AddressType>
      <Address></Address>
      <VRF></VRF>
      <UserName></UserName>
      <Password></Password>
      <Port></Port>
      <DirPath></DirPath>
      <RollbackName></RollbackName>
    </ReplaceHost>
  </ReplaceServer>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ReplaceServer
Table type	Multi-instance table
Row name	ReplaceHost
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerType	Type of the server.	Index	Enumeration: • 1—FTP • 2—TFTP • 3—SCP	N/A
AddressType	Type of the address.	N/A	Enumeration: • 1—IPV4 • 2—IPV6	N/A
Address	Address of the remote manage.	Index	String. Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	N/A
UserName	User name.	N/A	String. Length: 1 to 63 characters.	N/A
Password	Password.	N/A	String. Length: 1 to 63 characters.	N/A
Port	Port Number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DirPath	Server save path.	N/A	String. Length: 1 to 63 characters.	N/A
RollbackName	Server Rollback.	N/A	String. Length: 1 to 255 characters.	N/A

Configuration/ExclusiveLock

This table contains system configuration exclusive lock information.

XML structure

```
<Configuration>
  <ExclusiveLock>
    <LockInfo>
      <LockType></LockType>
      <LockUser></LockUser>
    </LockInfo>
  </ExclusiveLock>
```

```
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ExclusiveLock
Table type	Multi-instance table
Row name	LockInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LockType	Type of the lock	Index	Enumeration: • **0**—Session. • **1**—User.	The session type is not supported.
LockUser	Username of the lock	N/A	String. Length: 1 to 55 characters.	N/A

Contents

Configuration 1

Configuration/System 1
XML structure 1
Table description 1
Columns 1
Configuration/Files 1
XML structure 1
Table description 2
Columns 2
Configuration/MDCOrContextFiles 2
XML structure 2
Table description 3
Columns 3
Configuration/ArchiveLocal 3
XML structure 4
Table description 4
Columns 4
Configuration/ArchiveServer 4
XML structure 4
Table description 5
Columns 5
Configuration/ReplaceServer 6
XML structure 6
Table description 6
Columns 7
Configuration/ExclusiveLock 7
XML structure 7
Table description 8
Columns 8

Configuration

Configuration/System

This table contains configuration information.

XML structure

```
<Configuration>
  <System>
    <Encryption></Encryption>
  </System>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	System
Table type	Single-instance
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Encryption	Encryption mode.	N/A	Enumeration: • 0—Unencrypted • 1—Private-key encryption • 2—Public-key encryption

Configuration/Files

This table contains configuration file information.

XML structure

```
<Configuration>
  <Files>
    <File>
      <Name></Name>
      <Running></Running>
      <NextMain></NextMain>
```

```
      <NextBackup></NextBackup>
    </File>
  </Files>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Configuration file must have the suffix .cfg, and must already exist in the root directory of storage medium.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Full path and filename. Example: • flash:/startup.cfg • chassis3#slot1#flash:/main.cfg	Index	String. Length: 1 to 255 characters.
Running	Whether the configuration file is the current startup configuration file.	N/A	Boolean: • true • false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: • true • false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: • true • false

Configuration/MDCOrContextFiles

This table contains configuration file information for an MDC or a context.

XML structure

```
<Configuration>
  <MDCOrContextFiles>
    <MDCOrContextFile>
      <MDCOrContextID></MDCOrContextID>
      <Name></Name>
```

```
      <Running></Running>
      <NextMain></NextMain>
      <NextBackup></NextBackup>
    </MDCOrContextFile>
  </MDCOrContextFiles>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	MDCOrContextFiles
Table type	Multi-instance table
Row name	MDCOrContextFile
Restrictions	On the default MDC or context, information about all MDCs or contexts can be queried. On a non-default MDC or context, only information about the current MDC or context can be queried.

Columns

Column name	Column description	Column type	Data type and restrictions
MDCOrContextID	MDC or context index	Index	Unsigned integer.
Name	Full path and filename. Example: • flash:/startup.cfg • chassis3#slot1#flash:/main.cfg	Index	String. Length: 1 to 300 characters.
Running	Whether the configuration file is the current startup configuration file.	N/A	Boolean: • true • false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: • true • false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: • true • false

Configuration/ArchiveLocal

This table contains configuration local archivel information.

XML structure

```
<Configuration>
  <ArchiveLocal>
    <Interval></Interval>
    <Count></Count>
    <DirPath></DirPath>
    <Prefix></Prefix>
  </ArchiveLocal>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ArchiveLocal
Table type	Single-instance
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Time interval to automatic backup.	N/A	Unsigned integer. Value range: 0、10 to 525600.
Count	Save the maximum number of backup files locally.	N/A	Unsigned integer. Value range: 1 to 10.
DirPath	Local save path.	N/A	String. Length: 1 to 63 characters.
Prefix	Local save file prefix.	N/A	String. Length: 1 to 30 characters.

Configuration/ArchiveServer

This table contains configuration server archive information.

XML structure

```
<Configuration>
  <ArchiveServer>
    <ArchiveHost>
      <ServerType></ServerType>
      <AddressType></AddressType>
      <Address></Address>
```

```
      <VRF></VRF>
      <Interval></Interval>
      <UserName></UserName>
      <Password></Password>
      <Port></Port>
      <DirPath></DirPath>
      <Prefix></Prefix>
    </ArchiveHost>
  </ArchiveServer>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ArchiveServer
Table type	Multi-instance table
Row name	ArchiveHost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerType	Type of the server.	Index	Enumeration: • 1—FTP • 2—TFTP • 3—SCP	N/A
AddressType	Type of the address.	N/A	Enumeration: • 1—IPV4 • 2—IPV6	N/A
Address	Address of the remote manage.	Index	String. Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	N/A
Interval	Time interval to automatic backup.	N/A	Unsigned integer. Value range: 0、10 to 525600.	N/A
UserName	User name.	N/A	String. Length: 1 to 63 characters.	N/A
Password	Password.	N/A	String. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Port	Port Number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DirPath	Server save path.	N/A	String. Length: 1 to 63 characters.	N/A
Prefix	Server save file prefix.	N/A	String. Length: 1 to 30 characters.	N/A

Configuration/ReplaceServer

This table contains configuration server replace information.

XML structure

```
<Configuration>
  <ReplaceServer>
    <ReplaceHost>
      <ServerType></ServerType>
      <AddressType></AddressType>
      <Address></Address>
      <VRF></VRF>
      <UserName></UserName>
      <Password></Password>
      <Port></Port>
      <DirPath></DirPath>
      <RollbackName></RollbackName>
    </ReplaceHost>
  </ReplaceServer>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ReplaceServer
Table type	Multi-instance table
Row name	ReplaceHost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerType	Type of the server.	Index	Enumeration: • 1—FTP • 2—TFTP	N/A
AddressType	Type of the address.	N/A	Enumeration: • 1—IPV4 • 2—IPV6	N/A
Address	Address of the remote manage.	Index	String. Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	N/A
UserName	User name.	N/A	String. Length: 1 to 63 characters.	N/A
Password	Password.	N/A	String. Length: 1 to 63 characters.	N/A
Port	Port Number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DirPath	Server save path.	N/A	String. Length: 1 to 63 characters.	N/A
RollbackName	Server Rollback.	N/A	String. Length: 1 to 255 characters.	N/A

Configuration/ExclusiveLock

This table contains system configuration exclusive lock information.

XML structure

```
<Configuration>
  <ExclusiveLock>
    <LockInfo>
      <LockType></LockType>
      <LockUser></LockUser>
      <LockTime></LockTime>
      <UnlockTime></UnlockTime>
    </LockInfo>
  </ExclusiveLock>
```

```
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	ExclusiveLock
Table type	Multi-instance table
Row name	LockInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LockType	Type of the lock	Index	Enumeration: • **0**—Session. • **1**—User.	The session type is not supported.
LockUser	Username of the lock	N/A	String. Length: 1 to 55 characters.	N/A
LockTime	Time when the configuration was locked	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	If the configuration is not locked, this column is not returned.
UnlockTime	Time when the configuration was unlocked	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	If the configuration is locked, this column is not returned.

Contents

Configuration 2
Configuration/Files 2

Configuration

Configuration/Files

Message	Explanation
The file name is invalid or the file is not in the root directory! 文件名称不合法或者文件不在主用主控板存储介质的根目录下.	Startup configuration file must be in the root directory. 文件名有非法字符或者文件不在主用主控板存储介质的根目录下.
The file does not exist or is not as the same as the file on the active MPU. 文件不存在或者备用主控板的文件与主用主控板的文件不同.	Startup configuration file must be the same on all boards. 主用主控板和备用控制板的启动配置文件保持完全相同。
Please specify one or both of the NextMain and NextBackup columns. 未配置NextMain或NextBackup列.	Please specify the main next-startup configuration file or the backup next-startup configuration file. 请配置NextMain或NextBackup配置文件。

Contents

Configuration event stream 1
SaveEvent event 1
XML structure for event subscription 1
XML structure for event report 1
ConfigurationEvent event 2
XML structure for event subscription 2
XML structure for event report 2

Configuration event stream

SaveEvent event

This event is used to report configuration saving operations.

XML structure for event subscription

```
<SaveEvent>
</SaveEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Configuration</stream>
    <filter type="subtree">
      <SaveEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
      </SaveEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Configuration
Event name	SaveEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Configuration:1.0
Support for extended query	No

XML structure for event report

```
<SaveEvent>
  <FileName>
  </FileName>
</SaveEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SaveEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
    <FileName>flash:/123.cfg</FileName>
  </SaveEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
FileName	File path and name	String. Length: 1 to 511 characters.

ConfigurationEvent event

This event is used to report configuration change information.

XML structure for event subscription

```
<ConfigurationEvent>
</ConfigurationEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Configuration</stream>
    <filter type="subtree">
      <ConfigurationEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
      </ConfigurationEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Configuration
Event name	ConfigurationEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Configuration:1.0
Support for extended query	No

XML structure for event report

```
<ConfigurationEvent>
  <User></User>
  <IpAddress></IpAddress>
  <ConfigSource></ConfigSource>
  <ConfigResult></ConfigResult>
  <Context></Context>
</ConfigurationEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ConfigurationEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
    <User>**</User>
    <IpAddress>**</IpAddress>
    <ConfigSource>CLI</ConfigSource>
    <ConfigResult>Success</ConfigResult>
    <Context>[system]:display this</Context>
  </ConfigurationEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
User	User-name of the configuration operator	String. Length: 1 to 255 characters.	If the user logged in through, for example, a console port, the value of this field is ****
IpAddress	IP address of the configuration operator	String. Length: 1 to 255 characters.	If the user logged in through, for example, a console port, the value of this field is ****
ConfigSource	Source of the configuration	String. Length: 1 to 255 characters.	The device supports only the CLI in the current software version.
ConfigResult	Configuration result	String. Length: 1 to 255 characters.	The values include **Success** and **Failed**.
Context	Executed command and the view of the command	String. Length: 1 to 1023 characters.	N/A

Contents

Context 1
Context/ClearRebootInfo 1
XML structure 1
Table description 1
Columns 1

Context

Context/ClearRebootInfo

This table clears Context reboot information.

XML structure

```
<Context>
  <ClearRebootInfo>
    <ContextID></ContextID>
  </ClearRebootInfo>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ClearRebootInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
ContextID	Context index	Index

Contents

Context 1

Context/ContextInformations 1
XML structure 1
Table description 1
Columns 1
Context/Resources/Disks 2
XML structure 3
Table description 3
Columns 3
Context/Resources/Memories 4
XML structure 4
Table description 4
Columns 5
Context/Resources/CPUs 5
XML structure 5
Table description 5
Columns 6
Context/Resource/Throughputs 6
XML structure 6
Table description 6
Columns 7
Context/Resource/ObjectPolicyRules 7
XML structure 7
Table description 7
Columns 8
Context/Resource/Sessions 8
XML structure 8
Table description 8
Columns 9
Context/Allocations 9
XML structure 9
Table description 9
Columns 10
Context/LocationBladeControllerTeams(discard) 10
XML structure 10
Table description 11
Columns 11
Context/Resource/SSLVPNs 11
XML structure 11
Table description 12
Columns 12

Context

Context/ContextInformations

This table is used to configure contexts for a device and show context's state.

XML structure

```
<Context>
  <ContextInformations>
    <ContextInformation>
      <ContextID></ContextID>
      <Name></Name>
      <State></State>
      <Description></Description>
      <Mode></Mode>
      <Belongto></Belongto>
      <BladeControllerTeam></BladeControllerTeam>
    </ContextInformation>
  </ContextInformations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ContextInformations
Table type	Multi-instance table
Row name	ContextInformation
Restrictions	firewall card:to start or stop a context should act in mdc the context belongedto ;Other actions only support default MDC. centralized firewall and packaging firewall:Only support default Context.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	0 means the system assigns the lowest ID number

Column name	Column description	Column type	Data type and restrictions	Remarks
				among the available IDs to the Context.
Name	Full name of an context	N/A	String. Length: 1 to 15 characters.	firewall card: There is no default context. centralized firewall and packaging firewall:The name of default context is Admin
State	State of the MDC	N/A	Enumeration: 1: start 2: stop	start—Start the context. stop—Stop the context.
Description	Description of context	N/A	String. Length: 1 to 255 characters.	N/A
Belongto	Name of context's parentMDC	N/A	String. Length: 1 to 15 characters.	firewall card: Name of context's parentMDC. centralized firewall and packaging firewall:not support
Mode	Vlan mode of a context.	N/A	Enumeration: 1: VLAN shared 2: VLAN unshared	VLAN shared:Vlans can be allocated to different context sharely. VLAN unshared:4k vlans belongto the context unsharely. Default : mode is VLAN SHARED, firewall card and centralized firewall: the mode can't be customized packaging firewall: the mode can be customized.
BladeControllerTeam	BladeControllerTeam ID	N/A	Unsigned integer. Value range: 1 to 256.	Location: Authorize the context to use the resource of BladeControllerTeams.

Context/Resources/Disks

This table contains disk infomation.

XML structure

```
<Context>
  <Resources>
    <Disks>
      <Disk>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	firewall card: Only can be configurated in default MDC. centralized firewall and packaging firewall:Disk resource of user contexts can be configurated by the default context, while disk resource of default context can't be configurated.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedR	reserve resources of	N/A	Unsigned integer.	Not support yet.

Column name	Column description	Column type	Data type and restrictions	Remarks
atio	disk(%)		Value range: 0 to 100.	
QuotaRatio	The total limit resources of disk.(%)	N/A	Positive integer. Value range: 1 to 100.	The default value is 100.

Context/Resources/Memories

This table contains memory infomation.

XML structure

```
<Context>
  <Resources>
    <Memories>
      <Memory>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	firewall card: Only can be configurated in default MDC. centralized firewall and packaging firewall:Memory resource of user contexts can be configurated by the default context, while memory resource of default context can’t be configurated.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	The default value is 100.

Context/Resources/CPUs

This table contains cpu infomation.

XML structure

```
<Context>
  <Resources>
    <CPUs>
      <CPU>
        <ContextID></ContextID>
        <Weight></Weight>
      </CPU>
    </CPUs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	firewall card: Only can be configurated in default MDC.

	centralized firewall and packaging firewall:CPU resource of user contexts can be configurated by the default context, while CPU resource of default context can't be configurated.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Weight	CPU weight-maximum of available resources of CPU. UNITS : weight	N/A	Positive integer. Value range:1-10	Limit maxmum of cpu resource. Default:Each context has a CPU weight of 10.

Context/Resource/Throughputs

This table contains infomation of throughputs.

XML structure

```
<Context>
 <Resources>
   <Throughputs>
     <Throughput>
      <ContextID></ContextID>
       <ThroughputValue>
         <Unit></Unit>
         <Value></Value>
       </ThroughputValue>
     </Throughput>
   </Throughputs>
 </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default context supports.

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
ThroughputValue	Throughputs value	Data structure	Members include: • Unit. • Value.	“Unit” should be configed together with “value”
Unit	Unit of throughput	N/A	Enumeration: • 1: Kbps • 2: pps • 3: Mbps • 4: Gbps	N/A
Value	Value of throughput	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A

Context/Resource/ObjectPolicyRules

This table contains infomation of Object Policy Rules.

XML structure

```
<Context>
  <Resources>
    <ObjectPolicyRules>
      <ObjectPolicyRule>
        <ContextID></ContextID>
        <Max></Max>
      </ObjectPolicyRule>
    </ObjectPolicyRules>
</Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ObjectPolicyRules
Table type	Multi-instance table
Row name	ObjectPolicyRule
Restrictions	Only the default context supports.

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
Max	Maxnum of ObjectPolicyRules	N/A	Positive integer.	The value range depends on the device model.

Context/Resource/Sessions

This table contains infomation of sessions.

XML structure

```
<Context>
  <Resources>
    <Sessions>
      <Session>
        <ContextID></ContextID>
        <MaxNum></MaxNum>
        <MaxRate></MaxRate>
      </Session>
    </Sessions>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default context supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxNum	Maxnum of sessions	N/A	Positive integer.	N/A
MaxRate	Maxnum of transfer rate:1/s	N/A	Positive integer.	N/A

Context/Allocations

This table contains physical interface.

XML structure

```
<Context>
  <Allocations>
    <Allocation>
      <ContextID></ContextID>
      <UnsharedInterfaceList></UnsharedInterfaceList>
      <SharedInterfaceList></SharedInterfaceList>
      <VLAN></VLAN>
    </Allocation>
  </Allocations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	firewall card : only support MDC. centralized firewall and packaging firewall:Only support default Context.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	N/A	Unsigned integer.	N/A
UnsharedInterfaceList	List of unshared interfaces	N/A	String.	firewall card :not support centralized firewall and packaging firewall:allocate unshared interfaces. Different interfaces combinations(a sigle interface or interface list)are separated by comma‘,’,interface lists are separated by ‘to ‘(There is a apace on both sides of the word ‘to’). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48
SharedInterfaceList	List of shared interfaces	N/A	String.	firewall card :not support centralized firewall and packaging firewall:allocate shared interfaces. Different interfaces combinations(a sigle interface or interface list)are separated by comma‘,’,interface lists are separated by ‘ to’(There is a apace on both sides of the word ‘to’). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48
VLAN	Vlan list	N/A	Numeric string separated by comma and minus,end of which can’t be comma or minux,can’t contain blank. Such as: 1,2,3,5-8,10-20	N/A

Context/LocationBladeControllerTeams(discard)

This table contains location state of a BladeControllerTeam.

XML structure

```
<Context>
  <LocationBladeControllerTeams>
    <LocationBCT>
```

```
      <ContextID></ContextID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBCT>
  </LocationBladeControllerTeams>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBCT
Restrictions	firewall card: query all contexts' infomation in the default MDC. centralized firewall and packaging firewall:query all contexts' infomation in the default Context.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1to 256.	
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the context to use the resource of BladeControllerTeams. the default context is authorized to use resource of all the bladecontrollerteams

Context/Resource/SSLVPNs

This table contains infomation about SSL VPNs.

XML structure

```
<Context>
  <Resources>
    <SSLVPNs>
      <SSLVPN>
        <ContextID></ContextID>
```

```
      <MaxUserNum></MaxUserNum>
    </SSLVPN>
  </SSLVPNs>
 </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	SSLVPNs
Table type	Multi-instance table
Row name	SSLVPN
Restrictions	Only the default context supports SSL VPN.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxUserNum	Maximum number of SSL VPN users	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A

Contents

Context 1

Context/ContextInformations 1
XML structure 1
Table description 1
Columns 1
Context/Resources/Disks 3
XML structure 3
Table description 3
Columns 4
Context/Resources/Memories 4
XML structure 4
Table description 5
Columns 5
Context/Resources/CPUs 6
XML structure 6
Table description 6
Columns 6
Context/Resource/Throughputs 7
XML structure 7
Table description 7
Columns 8
Context/Resource/ObjectPolicyRules 8
XML structure 8
Table description 8
Columns 9
Context/Resource/Sessions 9
XML structure 9
Table description 9
Columns 9
Context/InterfaceAllocations 10
XML structure 10
Table description 10
Columns 10
Context/VLANAllocations 11
XML structure 11
Table description 11
Columns 11
Context/Capabilities 12
XML structure 12
Table description 12
Columns 12
Context/LocationBladeControllerTeams(discard) 13
XML structure 13
Table description 13
Columns 13
Context/Resource/SSLVPNs 14
XML structure 14
Table description 14
Columns 14
Context/RebootInfos 14
XML structure 14
Table description 15
Columns 15

Context

Context/ContextInformations

This table is used to configure contexts for a device and show context's state.

XML structure

```
<Context>
  <ContextInformations>
    <ContextInformation>
      <ContextID></ContextID>
      <Name></Name>
      <Description></Description>
      <Belongto></Belongto>
      <Mode></Mode>
      <Status></Status>
      <BladeControllerTeam></BladeControllerTeam>
    </ContextInformation>
  </ContextInformations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ContextInformations
Table type	Multi-instance table
Row name	ContextInformation
Restrictions	firewall card:query contexts' infomation in mdc the context belongedto ; query all contexts' information in the default MDC. centralized firewall and packaging firewall:query all contexts' information in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Name	Full name of an Context	N/A	String. Length: 1 to 15 characters.	firewall card:There is no default context.

Column name	Column description	Column type	Data type and restrictions	Remarks
				centralized firewall and packaging firewall:The name of default context is Admin
Description	Description of context	N/A	String. Length: 1 to 255 characters.	N/A
Belongto	Name of context's parentMDC	N/A	String. Length: 1 to 15 characters.	firewall card: Name of context's parentMDC. centralized firewall and packaging firewall:blank
Mode	Vlan mode of a context.	N/A	Enumeration: 1: VLAN shared 2: VLAN unshared	VLAN shared:Vlans can be allocated to different context sharely. VLAN unshared:4k vlans belongto the context unsharely. Default : mode is VLAN SHARED, firewall card and centralized firewall: the mode can't be customized packaging firewall: the mode can be customized.
Status	Status of the context	N/A	Enumeration: • 1: inactive • 2: starting • 3: active • 4: stopping • 5: updating	• inactive—The context is stopped or not started yet. • starting—The device is executing the context start command to start the context. • active—The context is operating correctly. • stopping—The device is executing the undo context start command to stop the context. • updating—The context is updating.
BladeControll	BladeControllerT	N/A	Unsigned integer.	Location: Authorize

Column name	Column description	Column type	Data type and restrictions	Remarks
erTeam	eam ID		Value range: 0 to 256.	the context to use the resource of BladeControllerTeams. 0 means the context dose not location bladecontrollerteam

Context/Resources/Disks

This table contains disk infomation.

XML structure

```
<Context>
  <Resources>
    <Disks>
      <Disk>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Partition></Partition>
        <Quota></Quota>
        <Reserved></Reserved>
        <Used></Used>
        <Available></Available>
      </Disk>
    </Disks>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	firewall card:query contexts'disk resource in mdc the context belonged to ; query all contexts' disk resource in the default MDC.

	centralized firewall and packaging firewall:query all contexts' disk resource in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Partition	Instance name of disk resource	Index	String. Length: 1 to 31 characters.	N/A
Quota	The total limit resources of disk(KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maxmum of disk resource.
Reserved	reserve resources of disk(KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the context doesn't have reserve resource of disk.
Used	Current usage of disk resources(KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of disk(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used)and idle resource of disk.

Context/Resources/Memories

This table contains memory infomation.

XML structure

```
<Context>
  <Resources>
    <Memories>
      <Memory>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Quota></Quota>
        <Reserved></Reserved>
```

```
      <Used></Used>
      <Available></Available>
    </Memory>
  </Memories>
 </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	firewall card:query contexts' memory resource in mdc the context belonged to ; query all contexts' memory resource in the default MDC. centralized firewall and packaging firewall:query all contexts' memory resource in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Quota	The total limit resources of memory(KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maxmum of memory resource.
Reserved	reserve resources of memory(KB)	N/A	Unsigned integer.	Limit minimum of memory resource. 0 means the context doesn't have reserve resource of memory.
Used	Current usage of memory resources(KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of memory(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used)and idle resource of memory.

Context/Resources/CPUs

This table contains cpu infomation.

XML structure

```
<Context>
  <Resources>
    <CPUs>
      <CPU>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Weight></Weight>
        <Usage></Usage>
      </CPU>
    </CPUs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	firewall card:query contexts' cpu resource in mdc the context belonged to ; query all contexts' cpu resource in the default MDC. centralized firewall and packaging firewall:query all contexts' cpu resource in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	resource		Value range: 0 to 65535.	
Weight	CPU weight-maximum of available resources of CPU(weight)	N/A	Positive integer. Value range:1-10	Limit maxmum of cpu resource. Default:Each context has a CPU weight of 10.
Usage	Current usage of CPUresources(%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Context/Resource/Throughputs

This table contains infomation of throughputs.

XML structure

```
<Context>
<Resources>
   <Throughputs>
     <Throughput>
       <ContextID></ContextID>
       <ThroughputValue>
         <Unit></Unit>
         <Value></Value>
       </ThroughputValue>
     </Throughput>
   </Throughputs>
</Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
ThroughputValue	Throughputs value	Data structure	Members include: • Unit. • Value.	N/A
Unit	Unit of throughput	N/A	Enumeration: • 1: Kbps • 2: pps • 3: Mbps • 4: Gbps	N/A
Value	Value of throughput	N/A	Unsigned integer. Value range: 1000 to 100000000.	0 means no restrictions

Context/Resource/ObjectPolicyRules

This table contains infomation of Object Policy Rules.

XML structure

```
<Context>
<Resources>
   <ObjectPolicyRules>
     <ObjectPolicyRule>
       <ContextID></ContextID>
       <Max></Max>
     </ObjectPolicyRule>
   </ObjectPolicyRules>
</Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ObjectPolicyRules
Table type	Multi-instance table
Row name	ObjectPolicyRule
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
Max	Maxnum of ObjectPolicyRules	N/A	Positive integer.	The value range depends on the device model. 0 means no restrictions

Context/Resource/Sessions

This table contains infomation of sessions.

XML structure

```
<Context>
<Resources>
   <Sessions>
     <Session>
       <ContextID></ContextID>
       <MaxNum></MaxNum>
       <MaxRate></MaxRate>
     </Session>
   </Sessions>
</Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxNum	Maxnum of sessions	N/A	Positive integer.	0 means no restrictions
MaxRate	Maxnum of	N/A	Positive integer.	0 means no restrictions

Column name	Column description	Column type	Data type and restrictions	Remarks
	transfer rate:1/s			

Context/InterfaceAllocations

This table contains physical interface.

XML structure

```
<Context>
  <InterfaceAllocations>
    <InterfaceAllocation>
      <IfName></IfName>
      <ContextID></ContextID>
      <AllocType></AllocType>
    </InterfaceAllocation>
  </InterfaceAllocations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	InterfaceAllocations
Table type	Multi-instance table
Row name	Interface
Restrictions	Default Context can query thel contexts' information of all te interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
ContextID	Context ID	Index	Unsigned integer.	N/A
AllocType	Interface assignment type	N/A	Enumeration: • 0: Invalid • 1: The interface has not been allocated. • 2: The allocation type is shared.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3: The allocation type is exclusive.	

Context/VLANAllocations

This table contains informations of vlans.

XML structure

```
<Context>
  <VLANAllocations>
    <VLANAllocation>
      <VLANID></VLANID>
      <ContextID></ContextID>
      <ContextIDList></ContextIDList>
    </VLANAllocation>
  </VLANAllocations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	VLANAllocations
Table type	Multi-instance table
Row name	VLANAllocation
Restrictions	Default Context can query thel contexts' information of all te vlans.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	Vlan Index	Index	Positive integer.	firewall card :There is not default context. centralized firewall and packaging firewall:the default Context's ID is 1.
ContextID	Context ID	N/A	Unsigned integer.	The minimal Context ID of the VLAN
ContextIDList	Context ID List	N/A	String. Length: 1to 65535	Example: 2,3,5-8,10-20. Available Context IDs are in the ContextID column in

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. It is a comma-separated list of Context ID items. An item can be an individual Context ID or a Context ID range. Use a hyphen (-) to separate the start and end Context IDs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	the Context/ContextInformations table.

Context/Capabilities

This table contains capability information of context.

XML structure

```
<Context>
   <Capabilitys>
      <BelongtoSupport></BelongtoSupport>
      <ModeSupport></ModeSupport>
   </Capabilitys>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Capabilities
Table type	Multi-instance table
Row name	N/A
Restrictions	Only support the default context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BelongtoSupport	Check whether belongto can be configured.	N/A	Boolean: • true • false	N/A
ModeSupport	Check whether vlan mode can be configured.	N/A	Boolean: • true • false	N/A

Context/LocationBladeControllerTeams(discard)

This table contains location state of a BladeControllerTeam.

XML structure

```
<Context>
  <LocationBladeControllerTeams>
    <LocationBCT>
      <ContextID></ContextID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBCT>
  </LocationBladeControllerTeams>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBCT
Restrictions	firewall card: query all contexts' infomation in the default MDC. centralized firewall and packaging firewall:query all contexts' infomation in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
BladeControllerTeam	BladeControllerTeam ID	N/A	Unsigned integer. Value range: 1to 256.	
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the context to use the resource of BladeControllerTeams. the default context is authorized to use resource of all the bladecontrollerteams

Context/Resource/SSLVPNs

This table contains infomation about SSL VPNs.

XML structure

```
<Context>
  <Resources>
    <SSLVPNs>
      <SSLVPN>
        <ContextID></ContextID>
        <MaxUserNum></MaxUserNum>
      </SSLVPN>
    </SSLVPNs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	SSLVPNs
Table type	Multi-instance table
Row name	SSLVPN
Restrictions	Only the default context supports SSL VPN.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxUserNum	Maximum number of SSL VPN users	N/A	Unsigned integer. Value range: 1 to 1048575.	0 means no limit on the number of SSL VPN users.

Context/RebootInfos

This table contains reboot information of Context.

XML structure

```
<Context>
  <RebootInfos>
    <RebootInfo>
```

```
    <ContextID></ContextID>
    <Index></Index>
    <Time></Time>
    <Reason></Reason>
    <Detail></Detail>
   </RebootInfo>
  </RebootInfos>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	RebootInfos
Table type	Multi-instance table
Row name	RebootInfo
Restrictions	Default Context can query information of all Context. Non-default Context can only query the current Context's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	The value range depends on the device model.
`Index`	Index of reboot information	Index	Unsigned integer. Value range: 1 to 20.	N/A
`Time`	Time of reboot information	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
`Reason`	Time of reboot information	N/A	String. Length: 1 to 256 characters.	N/A
Detail	Detail of reboot information	N/A	String. Length: 1 to 256 characters.	N/A

Contents

Context 1
Context/ContextInformations 1
Context/Resources/Disks 2
Context/Resources/Memories 2
Context/Resources/CPUs 2
Context/LocationBladeControllerTeams(discard) 3
Context/Allocation 3

Context

Context/ContextInformations

Message	Explanation
Not enough resources available for this context. 资源不足，操作失败。	Not enough resources available for this context. 资源不足，操作失败。
Number of contexts exceeded the limit. 创建Context失败，因为创建的Context数目已经达到上限。	Number of contexts exceeded the limit. 创建Context失败，因为创建的Context数目已经达到上限。
Another context is using the ID. 另外一个Context正在使用该ID。	Another context is using the ID when creating a context. Please switch a new one. 当创建context时，另外一个Context正在使用该ID。请换一个新的id。
The name is already exists. 该名称已经存在。	The name is already exists when creating a new context. 当创建context时，该名称已经存在。
Operation failed. The context is already started. 设置Context归属于某个MDC失败，因为Context已经启动。	Operation failed. The context is already started. 设置Context归属于某个MDC失败，因为Context已经启动。
The MDC is not authorized to use the blade controller team. " 设置Context归属于某个MDC失败，因为指定MDC并没有进驻该Context已经进驻的安全引擎组。	The MDC is not authorized to use the blade controller team. 设置Context归属于某个MDC失败，因为指定MDC并没有进驻该Context已经进驻的安全引擎组。
The context doesn't belong to the MDC. 启动Context失败，因为该Context并不属于当前MDC。	The context doesn't belong to the MDC. 启动Context失败，因为该Context并不属于当前MDC。
This context has been assigned to another blade controller team. 该Context已经进驻其他安全引擎组。	This context has been assigned to another blade controller team. 该Context已经进驻其他安全引擎组。
Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。	Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。
Context is busy. Please try again later. Context正在忙，请稍后重试。	The context is starting or stopping. Please try again later if need do some set operations. Context正在启动或者停止，如果要做配置操作请稍后重试。
The context name and ID must identify the same context. 输入的Context名称有误，请输入与ID对应的名称。	The context name and ID must identify the same context. 输入的Context名称有误，请输入与ID对应的名称。
The mode is wrong. Please input the right mode according to the context ID. 输入的mode值有误，请输入与ID对应的mode值。	The mode is wrong. Please input the right mode according to the context ID. 输入的Vlan mode值有误，请输入与ID对应的Vlan mode值。
Invalid context ID or context name.	Invalid context ID or context name.

输入了无效的Context ID 或者名称。	输入了无效的Context ID 或者名称。
The default context can't be deleted. 不允许删除缺省Context。	The default context can't be deleted. 不允许删除缺省Context。
The default context can't be deleted. 不允许删除缺省Context。	The default context can't be deleted. 不允许删除缺省Context。

Context/Resources/Disks

Message	Explanation
Not enough disk space available. 磁盘资源不足。	Not enough disk space available when limit the disk space. Please set the limit bigger. 磁盘资源不足， 请设置大一点的磁盘空间。
The context is not authorized to use this blade controller. Context没有进驻该安全引擎。	The context is not authorized to use this blade controller. So it cannot be limited the disk resource. Context没有进驻该安全引擎，所以不能设置磁盘资源。
Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。	Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。
Context is busy. Please try again later. Context正在忙，请稍后重试。	The context is starting or stopping. Please try again later if need do some set operations. Context正在启动或者停止，如果要做配置操作请稍后重试。

Context/Resources/Memories

Message	Explanation
The context is not authorized to use this blade controller. Context没有进驻该安全引擎。	The context is not authorized to use this blade controller. So it cannot be limited the memory resource. Context没有进驻该安全引擎，所以不能设置内存资源。
Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。	Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。
Context is busy. Please try again later. Context正在忙，请稍后重试。	The context is starting or stopping. Please try again later if need do some set operations. Context正在启动或者停止，如果要做配置操作请稍后重试。

Context/Resources/CPUs

Message	Explanation
Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。	Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。

Context is busy. Please try again later. Context正在忙，请稍后重试。	The context is starting or stopping. Please try again later if need do some set operations. Context正在启动或者停止，如果要做配置操作请稍后重试。

Context/LocationBladeControllerTeams(discard)

Message	Explanation
Authorization failed. Invalid blade-controller-team ID. 操作失败，该安全引擎组ID无效。	Authorization failed. Invalid blade-controller-team ID. 操作失败，该安全引擎组ID无效。
This context has been assigned to another blade controller team. 该Context已经进驻其他安全引擎组。	This context has been assigned to another blade controller team. 该Context已经进驻其他安全引擎组。
The MDC this context belongs to is not authorized to use the blade controller team. 该Context的归属MDC没有进驻该安全引擎组。	The MDC this context belongs to is not authorized to use the blade controller team. 该Context的归属MDC没有进驻该安全引擎组。
Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。	Restoring context configuration. Please try again later. Context正在配置恢复，请稍候。
Context is busy. Please try again later. Context正在忙，请稍后重试。	The context is starting or stopping. Please try again later if need do some set operations. Context正在启动或者停止，如果要做配置操作请稍后重试。

Context/Allocation

Message	Explanation
Some interfaces are duplicated. 接口列表中包含重复的接口。	Some interfaces are duplicated. 接口列表中包含重复的接口。
Some VLANs are used by another context. VLAN列表中有VLAN已经被分配到其它Context。	Some VLANs are used by another context. VLAN列表中有VLAN已经被分配到其它Context。
Some interfaces name are invalid. 接口列表中包含非法的接口名。	Some interfaces name are invalid. 接口列表中包含非法的接口名。
Some interfaces have been allocated as other mode. 接口列表中有接口已经被分配为其它模式，分配模式冲突。	Some interfaces have been allocated as other mode. 接口列表中有接口已经被分配为其它模式，分配模式冲突。
Some type of interfaces can not be allocated to a context exclusively. 接口列表中有接口已经被分配为其它模式，分配模式冲突。	Some type of interfaces can not be allocated to a context exclusively. 接口列表中有接口已经被分配为其它模式，分配模式冲突。
Layer-2 Ethernet interface can not be allocated to a VLAN-shared context exclusively. 二层接口不能独占分配给VLAN-shared Context。	Layer-2 Ethernet interface can not be allocated to a VLAN-shared context exclusively. 二层接口不能独占分配给VLAN-shared Context。

Layer-2 Ethernet interface can not be allocated to a VLAN-unshared context in sharing mode. 二层接口不能共享分配给VLAN-unshared Context。	Layer-2 Ethernet interface can not be allocated to a VLAN-unshared context in sharing mode. 二层接口不能共享分配给VLAN-unshared Context。
Subinterfaces can not be allocated exclusively. 接口列表中包含的子接口不能再被独占分配。	Subinterfaces can not be allocated exclusively. 接口列表中包含的子接口不能再被独占分配。
Some interfaces' sub interface has been allocated. 接口列表中有接口的子接口已经被分配，接口不能再被分配。	Some interfaces' sub interface has been allocated. 接口列表中有接口的子接口已经被分配，接口不能再被分配。
Some interfaces' aggregate interface has been allocated. 接口列表中有聚合成员口的聚合口已经被分配，聚合成员口不能再被分配。	Some interfaces' aggregate interface has been allocated. 接口列表中有聚合成员口的聚合口已经被分配，聚合成员口不能再被分配。
Some interfaces' member interface has been allocated. 接口列表中有聚合口的成员口已经被分配，聚合口不能再被分配。	Some interfaces' member interface has been allocated. 接口列表中有聚合口的成员口已经被分配，聚合口不能再被分配。
Failed to allocate nonexistent VLANs. 无法分配不存在的VLAN。	Failed to allocate nonexistent VLANs. 无法分配不存在的VLAN。
Default VLAN can not be allocated. 默认VLAN不能被分配	Default VLAN can not be allocated. 默认VLAN不能被分配
Failed to allocate VLANs because some of them are configured as port PVIDs. VLAN分配失败，其中部分由于已配置成端口PVID	Failed to allocate VLANs because some of them are configured as port PVIDs. VLAN分配失败，其中部分由于已配置成端口PVID
Failed to allocate VLANs because some of them have VLAN interfaces. VLAN分配失败，其中部分由于已存在对应的VLAN接口	Failed to allocate VLANs because some of them have VLAN interfaces. VLAN分配失败，其中部分由于已存在对应的VLAN接口
VLAN interface can not be allocated to a VLAN-unshared context in sharing mode. VLAN分配失败，VLAN接口不能共享分配给VLAN-unshared Context	VLAN interface can not be allocated to a VLAN-unshared context in sharing mode. VLAN分配失败，VLAN接口不能共享分配给VLAN-unshared Context
Failed to allocate the interfaces in sharing mode because some of them are members of Reth groups. 指定的接口中包含冗余组的成员接口，冗余组成员接口不能被共享分配。	Failed to allocate the interfaces in sharing mode because some of them are members of Reth groups. 指定的接口中包含冗余组的成员接口，冗余组成员接口不能被共享分配。
Failed to allocate the interfaces in sharing mode because some of them are members of aggregation groups. 指定的接口中包含聚合组的成员接口，聚合组成员接口不能被共享分配。	Failed to allocate the interfaces in sharing mode because some of them are members of aggregation groups. 指定的接口中包含聚合组的成员接口，聚合组成员接口不能被共享分配。

Contents

CP 1
CP/ClearPolicyStats 1
XML structure 1
Table description 1
Columns 1
CP/ClearAllPolicyStats 1
XML structure 2
Table description 2
Columns 2
CP/ClearPolicies 2
XML structure 2
Table description 3
Columns 3
CP/ClearAllPolicies 3
XML structure 3
Table description 3
Columns 4

CP

CP/ClearPolicyStats

This table is used to clear statistics for the caching policy.

XML structure

```
<CP>
  <ClearPolicyStats>
    <ClearPolicyStat>
      <Name></Name>
      <Clear></Clear>
    </ClearPolicyStat>
  </ClearPolicyStats>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	ClearPolicyStats
Table type	Multi-instance table
Row name	ClearPolicyStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the caching policy.	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Clear	Clears statistics for the specified policy.	N/A	This column must be empty.	N/A

CP/ClearAllPolicyStats

This table is used to clear statistics for all caching policies.

XML structure

```
<CP>
  <ClearAllPolicyStats>
    <Clear></Clear>
  </ClearAllPolicyStats>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	ClearAllPolicyStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears statistics for all caching policies.	N/A	This column must be empty.	N/A

CP/ClearPolicies

This table is used to clear the caching policy.

XML structure

```
<CP>
  <ClearPolicies>
    <ClearPolicy>
      <Name></Name>
      <Clear></Clear>
    </ClearPolicy>
  </ClearPolicies>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	ClearPolicies
Table type	Multi-instance table
Row name	ClearPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the caching policy.	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Clear	Clears files the specified policy.	N/A	This column must be empty.	N/A

CP/ClearAllPolicies

This table is used to clear all caching policies.

XML structure

```
<CP>
  <ClearAllPolicies>
    <Clear></Clear>
  </ClearAllPolicies>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	ClearAllPolicies
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears files for all caching policies.	N/A	This column must be empty.	N/A

Contents

CP 1
CP/Policys 1
XML structure 1
Table description 1
Columns 1
CP/HTTPMatchRules 2
XML structure 2
Table description 2
Columns 3

CP

CP/Policys

This table contains information about a caching policy.

XML structure

```
<CP>
  <Policys>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Size></Size>
      <FileSize></FileSize>
      <DefaultAgeTime></DefaultAgeTime>
    </Policy>
  </Policys>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	Policys
Table type	Multi-instance table
Row name	Policy
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the caching policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the caching policy.	N/A	Enumeration: • **0**—HTTP.	This column is required. Once created, this column cannot be changed..
Size	Size of the caching policy.	N/A	Unsigned integer. Value range: 8 to 64.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: MB. By default, the value is 64M.	
FileSize	Maximum total size of the files that can be cached.	N/A	Unsigned integer. Value range: 1 to 4096. Unit: KB. By default, the value is 2048KB.	N/A
DefaultAgeTime	Default aging time of the caching policy.	N/A	Unsigned integer. Value range: 1 to 1440. Unit: Minute. By default, the value is 60.	N/A

CP/HTTPMatchRules

This table contains information about an HTTP match rule.

XML structure

```
<CP>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Policy></Policy>
      <ID></ID>
      <Type></Type>
      <URI></URI>
    </HTTPMatchRule>
  </HTTPMatchRules>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—URI.	N/A
URI	Regular expression matched the URI.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is URI (0).

Contents

CP 1
CP/Policys 1
XML structure 1
Table description 1
Columns 1
CP/HTTPMatchRules 2
XML structure 2
Table description 2
Columns 3
CP/PolicyStats 3
XML structure 3
Table description 3
Columns 4
CP/HTTPWebCaches 4
XML structure 4
Table description 4
Columns 5

CP

CP/Policys

This table contains information about a caching policy.

XML structure

```
<CP>
  <Policys>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Size></Size>
      <FileSize></FileSize>
      <DefaultAgeTime></DefaultAgeTime>
    </Policy>
  </Policys>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	Policys
Table type	Multi-instance table
Row name	Policy

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the caching policy.	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the caching policy.	N/A	Enumeration: • **0**—HTTP.	This column is required. Once created, this column cannot be changed.
Size	Size of the caching policy.	N/A	Unsigned integer. Value range: 8 to 64.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: MB.	
FileSize	Maximum total size of the files that can be cached.	N/A	Unsigned integer. Value range: 1 to 4096. Unit: KB.	N/A
DefaultAgeTime	Default aging time of the caching policy.	N/A	Unsigned integer. Value range: 1 to 1440. Unit: minutes.	N/A

CP/HTTPMatchRules

This table contains information about an HTTP match rule.

XML structure

```
<CP>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Policy></Policy>
      <ID></ID>
      <Type></Type>
      <URI></URI>
    </HTTPMatchRule>
  </HTTPMatchRules>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • **0**—URI.	N/A
URI	Regular expression used for URI matching.	N/A	String. Length: 1 to 255 characters.	This column can be configured only if the type is URI (**0**).

CP/PolicyStats

This table contains statistics about the caching Policy.

XML structure

```
<CP>
  <PolicyStats>
    <PolicyStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <MatchedReqs></MatchedReqs>
    </PolicyStat>
  </PolicyStats>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	PolicyStats
Table type	Multi-instance table
Row name	PolicyStat

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the caching policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	Member ID of the device in the IRF fabric.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot number of the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	CPU number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
MatchedReqs	Number of matches	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

CP/HTTPWebCaches

This table contains statistics information about usage of web cache.

XML structure

```
<CP>
  <HTTPWebCaches>
    <HTTPWebCache>
      <CachePolicyName></CachePolicyName>
      <TotalCacheSize></TotalCacheSize>
      <UseCacheSize></UseCacheSize>
    <HTTPWebCache>
  </HTTPWebCaches>
</CP>
```

Table description

Item	Description
Feature name	CP
Table name	HTTPWebCaches
Table type	Multi-instance table
Row name	HTTPWebCache

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CachePolicyName	Name of the caching policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
TotalCacheSize	Total cache size of the caching policy	N/A	Unsigned integer. Value range:8 to 64. Unit: MB.	N/A
UseCacheSize	Use cache size of the caching policy	N/A	Unsigned integer. Value range: 0 to 4096. Unit: KB.	N/A

Contents

CP 1

CP/Policys 1
CP/HTTPMatchRules 1

CP

CP/Policys

Message	Explanation
The cache policy name has been used by another cache policy. 缓存策略名称与已存在的其他类型缓存策略重名。	The cache policy name has been used by another cache policy. 缓存策略名称与已存在的其他类型缓存策略重名。

CP/HTTPMatchRules

Message	Explanation
The URI already exists. URI已存在。	The URI already exists. URI 已存在。

Contents

CPDR 1
CPDR/DRGroups 1
XML structure 1
Table description 1
Columns 1
CPDR/TriggerEventReport 2
XML structure 2
Table description 2
Columns 2
CPDR/BatchBackup 3
XML structure 3
Table description 3
Columns 3

CPDR

CPDR/DRGroups

This table contains information about setting disaster recovery group role.

XML structure

```
<CPDR>
  <DRGroups>
    <Group>
      <GroupName></GroupName>
      <Role></Role>
      <Priority></Priority>
      <HeartStatus></HeartStatus >
      <Sequence></Sequence>
    </Group>
  </DRGroups>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	DRGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CP disaster recovery group.	Index	String,case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
Role	Role of the CP disaster recovery group.	N/A	Enumeration: • 0—init. • 1—master. • 2—slave.	N/A.
Priority	Priority of the CP disaster recovery group.	N/A	Unsigned integer.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
HeartStatus	Heartbeat status of the CPDR group.	N/A.	Enumeration: • 0—Unknown • 1—connected. • 2—disconnected.	N/A
Sequence	Sequence number used to identify the response message	N/A	Unsigned integer.	N/A.

CPDR/TriggerEventReport

This table notify BRAS-VM to report event.

XML structure

```
<CPDR>
  <TriggerEventReport>
    <CUConnect></CUConnect>
    <BrasStatus></BrasStatus>
  </TriggerEventReport>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	TriggerEventReport
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CUConnect	Report CU connect status	N/A	Boolean: • true—Enable. • false—Disable(default).	N/A
BrasStatus	Report BRAS-VM status	N/A	Boolean: • true—Enable. • false—Disable(default).	N/A

CPDR/BatchBackup

This table contains information about CPDR group batch backup.

XML structure

```
<CPDR>
  <BatchBackup>
   <BatchGroup>
    <GroupName></GroupName>
    <BatchUpList></BatchUpList>
   </BatchGroup>
  </BatchBackup>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	BatchBackup
Table type	Multi-instance table
Row name	BatchGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CPDR group for batch backup.	Index	String,case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
BatchUpList	UP list of the CPDR group for batch backup.	N/A	Number string. It is a comma-separated list of UP ID items. An item can be an individual UP ID or a UP ID range. Use a hyphen (-) to separate the start and end UP IDs of a range (start <= end). The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a CPDR group does not have a UP list.	Example: 1024,1025,1028,1030-1038.

Contents

CPDR 1
CPDR/DRGroups 1
XML structure 1
Table description 1
Columns 1
CPDR/PoolList 2
XML structure 2
Table description 3
Columns 3

CPDR

CPDR/DRGroups

This table contains the information to configure a CP disaster recovery group.

XML structure

```
<CPDR>
  <DRGroups>
    <Group>
      <GroupName></GroupName>
      <UPlist></UPlist>
      <Mode></Mode>
      <Role></Role>
      <GroupId></GroupId>
      <RadiusSrvIfIndex></RadiusSrvIfIndex>
      <WebAuthSrvIfIndex></WebAuthSrvIfIndex>
      <BlockUpList></BlockUpList>
    </Group>
  </DRGroups>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	DRGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CP disaster recovery group.	Index	String,case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
UPlist	UP list of the CP disaster recovery group.	N/A	Number string. It is a comma-separated list of UP Id items. An item can be an	Example: 1024,1025,1028,1030-1038.

Column name	Column description	Column type	Data type and restrictions	Remarks
			individual UP Id or a UP Id range. Use a hyphen (-) to separate the start and end UP Id of a range (start <= end). The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a CP disaster revovery group does not have a UP list.	
Mode	Backup mode of the CP disaster recovery group.	N/A	Enumeration: • **0**—hot. • **1**—cold.	N/A
Role	Role of the CPDR group.	N/A	Enumeration: • 0—init. • 1—master. • 2—slave.	N/A
GroupId	ID of the CPDR group.	N/A	Unsigned integer. Value range: 1 to 256.	N/A
RadiusSrvIfIndex	Index of the interface connecting to the RADIUS sever	N/A	Unsigned integer.	Currently, only loopback interfaces are supported.
WebAuthSrvIfIndex	Index of the interface connecting to the Web authentication sever	N/A	Unsigned integer.	Currently, only loopback interfaces are supported.
BlockUpList	Blocked UP list of the CPDR group.	N/A	Number string. It is a comma-separated list of UP ID items. An item can be an individual UP ID or a UP ID range. Use a hyphen (-) to separate the start and end UP IDs of a range (start <= end). The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a CPDR group does not have a UP list.	Example: 1024,1025,1028,1030-1038.

CPDR/PoolList

This table contains the information of CPDR pool list.

XML structure

```
<CPDR>
  <PoolList>
```

```
    <Pool>
      <GroupName></GroupName>
      <Family></Family>
      <PoolName></PoolName>
    </Pool>
  </PoolList>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	PoolList
Table type	Multi-instance table
Row name	Pool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CP disaster recovery group.	Index	String,case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
Family	Address family.	Index	Enumeration: • **1**—ipv4. • **2**—ipv6.	N/A
PoolName	Name of the pool.	Index	String,case-sensitive. Length: 1 to 63 characters.	N/A

Contents

CPDR 1
CPDR/DRGroups 1
XML structure 1
Table description 1
Columns 1
CPDR/PoolList 2
XML structure 2
Table description 3
Columns 3

CPDR

CPDR/DRGroups

This table contains the information to configure a CP disaster recovery group.

XML structure

```
<CPDR>
  <DRGroups>
    <Group>
      <GroupName></GroupName>
      <UPlist></UPlist>
      <Mode></Mode>
      <Role></Role>
      <GroupId></GroupId>
      <RadiusSrvIfIndex></RadiusSrvIfIndex>
      <WebAuthSrvIfIndex></WebAuthSrvIfIndex>
      <BlockUpList></BlockUpList>
    </Group>
  </DRGroups>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	DRGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CP disaster recovery group.	Index	String, case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
UPlist	UP list of the CP disaster recovery group.	N/A	Number string. It is a comma-separated list of UP Id items. An item can be an individual UP Id or a UP Id range. Use a hyphen (-) to	Example: 1024,1025,1028,1030-1038.

Column name	Column description	Column type	Data type and restrictions	Remarks
			separate the start and end UP Id of a range (start <= end). The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a CP disaster revovery group does not have a UP list.	
Mode	Backup mode of the CP disaster recovery group.	N/A	Enumeration: • **0**—hot. • **1**—cold.	N/A
Role	Role of the CPDR group.	N/A	Enumeration: • 0—init. • 1—master. • 2—slave.	N/A
GroupId	ID of the CPDR group.	N/A	Unsigned integer. Value range: 1 to 256.	N/A
RadiusSrvIfIndex	Index of the interface connecting to the RADIUS sever	N/A	Unsigned integer.	Currently, only loopback interfaces are supported.
WebAuthSrvIfIndex	Index of the interface connecting to the Web authentication sever	N/A	Unsigned integer.	Currently, only loopback interfaces are supported.
BlockUpList	Blocked UP list of the CPDR group.	N/A	Number string. It is a comma-separated list of UP ID items. An item can be an individual UP ID or a UP ID range. Use a hyphen (-) to separate the start and end UP IDs of a range (start <= end). The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a CPDR group does not have a UP list.	Example: 1024,1025,1028,1030-1038.

CPDR/PoolList

This table contains the information of CPDR pool list.

XML structure

```
<CPDR>
  <PoolList>
    <Pool>
```

```
      <GroupName></GroupName>
      <Family></Family>
      <PoolName></PoolName>
    </Pool>
  </PoolList>
</CPDR>
```

Table description

Item	Description
Feature name	CPDR
Table name	PoolList
Table type	Multi-instance table
Row name	Pool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the CP disaster recovery group.	Index	String, case-sensitive. Length: 1 to 31 characters.	The group name cannot contain the following characters: \r\n\\ | / : * ? " < > @.
Family	Address family.	Index	Enumeration: • **1**—ipv4. • **2**—ipv6.	N/A
PoolName	Name of the pool.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A

Contents

CPDR 1

CPDR/DRGroups 1

CPDR

CPDR/DRGroups

Message	Explanation
Operation failed. 操作失败。	Operation failed. 操作失败。
The CPDR group is not in Normal state. 灾备组处于非正常状态。	The specified CPDR group is not in Normal state. 灾备组处于非正常状态。
Some of the specified UPs have been assigned to other CPDR groups. 部分UP已分配到其它灾备组。	Some of the specified UPs have been assigned to other CPDR groups. 部分UP已分配到其它灾备组。
Some of the specified UPs do not exist in the CPDR group. 部分UP在当前CP灾备组下不存在	Some of the specified UPs do not exist in the CPDR group. 部分UP在当前CP灾备组下不存在
Online users exist on some of the UPs in the CPDR group. 灾备组中部分UP存在上线用户。	There are online users on some of the UPs in the specified CPDR group. 指定灾备组中部分UP存在上线用户。
Online users exist on some of the specified UPs. 指定UP存在上线用户。	There are online users on some of the specified UPs. 指定UP上存在上线用户。
IP address should be specified in the presence of VPN instance. 配置VPN实例时必须指定IP地址。	IP address is required when VPN instance name is specified for create/merge/replace operation. create/merge/replace操作若指定VPN实例名称则必须同时指定IP地址。
Both IP address and VPN instance need to be issued simultaneously. 必须同时指定IP地址和VPN实例。	Both IP address and VPN instance are required for delete/remove operation. delete/remove操作需要同时指定IP地址和VPN实例名称。
The VPN instance does not exist. VPN实例不存在。	The VPN instance does not exist. VPN实例不存在。

Contents

CPDR event stream 1
CPDR event 1
XML structure for event subscription 1
XML structure for event report 1
CUConnect event 2
XML structure for event subscription 2
XML structure for event report 3
CPDRBrasStatus event 3
XML structure for event subscription 3
XML structure for event report 4

CPDR event stream

CPDR event

This event is used to report CPDR group role switchover information.

XML structure for event subscription

```
<CPDREvent>
</CPDREvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>CPDR</stream>
    <filter type="subtree">
      <CPDREvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
      </CPDREvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	CPDR
Event name	CPDREvent
Event namespace	http://www.h3c.com/netconf/event:1.0/CPDR:1.0
Support for extended query	No

XML structure for event report

```
<CPDREvent>
  <GroupName></GroupName>
  <Event></Event>
  <sequence></sequence>
</CPDREvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPDREvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
    <GroupName>aaa</GroupName>
    <Event>1</Event>
    <sequence>1</sequence>
  </CPDREvent>
```

```
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
GroupName	Name of the CPDR group.	String,case-sensitive. Length: 1 to 31 characters.	No
Event	Switchover event.	Enumeration: • 0—completed. • 1—CPDR group does not exist. • 2—not enough resource.	No
Sequence	Sequence number of the response message.	Unsigned integer.	The sequence number is the same as that of the role action.

CUConnect event

This event is used to report CU connection information.

XML structure for event subscription

```
<CUConnectEvent>
</CUConnectEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>CPDR</stream>
    <filter type="subtree">
      <CUConnectEvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
      </CUConnectEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	CPDR
Event name	CUConnectEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/CPDR:1.0
Support for extended query	No

XML structure for event report

```
<CUConnectEvent>
  <GroupName></GroupName>
  <UPid></UPid>
  <Status></Status>
</CUConnectEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CUConnectEvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
    <GroupName>aaa</GroupName>
    <UPid>1024</UPid>
    <Status>1</Status>
  </CUConnectEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
GroupName	Name of the CPDR group.	String,case-sensitive. Length: 1 to 31 characters.	No
UPid	UP identifier.	Unsigned integer. Value range: 1024 to 1279.	No
Status	Connection state of CP and UP.	Enumeration: • **0**—local-disconnected. • **1**—local-connected. • **2**—peer-disconnected. • **3**—peer-connected. • **4**—peer-unknown.	No

CPDRBrasStatus event

This event is used to report CPDR BRAS status information.

XML structure for event subscription

```
<CPDRBrasStatusEvent>
</CPDRBrasStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>CPDR</stream>
    <filter type="subtree">
```

```
    <CPDRBrasStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
    </CPDRBrasStatusEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	CPDR
Event name	CPDRBrasStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/CPDR:1.0
Support for extended query	No

XML structure for event report

```
<CPDRBrasStatusEvent>
  <Status></Status>
</CPDRBrasStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPDRBrasStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/CPDR:1.0">
    <Status>1</Status>
  </CPDRBrasStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Status	Status of the BRAS-VM	Enumeration: • **1**—stable. • **2**—unstable.	No

Contents

Cudetect 1
CudetectAction 1
XML structure 1
Table description 1
Columns 1

Cudetect

CudetectAction

This table is used to send information for CP-UP connectivity detection.

XML structure

```
<CudetectAction>
  <CudetectMessage>
     <Up></Up>
  </CudetectMessage>
</CudetectAction>
```

Table description

Item	Description
Feature name	CudetectAction
Table name	CudetectMessage
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Column name
`Up`	`UP ID`	Unsigned integer. Value range: 1024 to 2047.	• No	`Up`

Contents

Cudetect 1
Cudetect event 1
XML structure for event subscription 1
XML structure for event report 2

Cudetect

Cudetect event

This table is used to report status information about the tunnels between a CP and UP for CP-UP connectivity detection.

XML structure for event subscription

```
<CudetectEvent>
  <CudetectInfo>
    <Up></Up>
  </CudetectInfo>
</CudetectEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Cudetect</stream>
    <filter type="subtree">
      <CudetectEvent xmlns="http://www.h3c.com/netconf/event:1.0/Cudetect:1.0">
        <CudetectInfo>
          <Up>1024</Up>
        </CudetectInfo>
      </CudetectEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Cudetect
Event name	CudetectEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Cudetect:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Up	UP ID	Unsigned integer. Value range: 1024 to 2047.	No

XML structure for event report

```
<CudetectEvent>
  <CudetectInfo>
    <NetconfTunnel>
      <State></State>
      <FailReason></FailReason>
    </NetconfTunnel>
    <CuspTunnel>
      <State></State>
      <FailReason></FailReason>
    </CuspTunnel>
    <ProtocolTunnel>
      <State></State>
      <FailReason></FailReason>
    </ProtocolTunnel>
  </CudetectInfo>
</CudetectEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CudetectEvent xmlns="http://www.h3c.com/netconf/event:1.0/Cudetect:1.0">
    <CudetectInfo>
      <NetconfTunnel>
        <State>1</State>
        <FailReason></FailReason>
      </NetconfTunnel>
      <CuspTunnel>
        <State>2</State>
        <FailReason>16</FailReason>
      </CuspTunnel>
      <ProtocolTunnel>
        <State>3</State>
        <FailReason>1</FailReason>
      </ProtocolTunnel>
    </CudetectInfo>
  </CudetectEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
NetconfTunnel	Status information about the NETCONF tunnel between the	Members include: • State. • FailReason.	No

Column name	Column description	Data type and restrictions	Support for extended queries
	CP and UP		
State	State of the NETCONF tunnel between the CP and UP	Enumeration: • **1**—OK. • **2**—NOK. • **3**—NA.	No
FailReason	Failure reason of the NETCONF tunnel between the CP and UP	Unsigned integer: • 1—Please check the inner communication of the CP. • 2—Please check the route to destination IP on CP. • 4—Please configure the source IP of the NETCONF connetion *connetion-name* to an interface on CP. • 8—Please check network configuration between CP and UP. • 16—Please bind a connection to the UP. • 32—Please configure the source IP of the NETCONF connetion *connetion-name* on CP. • 64—Please configure the destination IP of the NETCONF connetion *connetion-name* on CP. • 128—Please configure the username and password of the NETCONF connetion *connetion-name* on CP. • 256—Please check the username and password on CP.	No
CuspTunnel	Status information of the CUSP tunnel between the CP and UP	Members include: • State. • FailReason.	No
State	State of the CUSP tunnel between the CP and UP	Enumeration: • **1**—OK. • **2**—NOK. • **3**—NA.	No
FailReason	Failure reason of the CUSP tunnel between the CP and UP	Unsigned integer: • 1—Please check the inner communication of the CP. • 2—Please check the route to destination IP on CP. • 4—Please configure the listening IP to an interface on CP. • 8—Please check network configuration between CP and UP. • 16—Please configure the CUSP controller on CP. • 32—Please configure the listening	No

Column name	Column description	Data type and restrictions	Support for extended queries
		IP on CP. • 64—Please configure the CUSP agent on CP. • 128—Please configure the CUSP agent IP on CP. • 256—Please check the IP version of the listening IP and CUSP agent IP on CP. • 512—Please configure the VPN instance on CP. • 1024—Cannot check the UP configuration because of the disconnection of the CU NETCONF tunnel. • 2048—Please configure the CUSP agent on UP. • 4096—Please configure the local address on UP. • 8192—Please configure the controller address on UP. • 16384—Please check the IP version of the local address and controller address on UP. • 32768—Please check the listening IP on CP and the controller address on UP. • 65536—Please check the agent IP on CP and the local address on UP.	
ProtocolTunnel	Status information of the protocol tunnel between the CP and UP	Members include: • State. • FailReason.	No
State	State of the protocol tunnel between the CP and UP	Enumeration: • **1**—OK. • **2**—NOK. • **3**—NA.	No
FailReason	Failure reason of the protocol tunnel between the CP and UP	Unsigned integer: • 1—Please check the inner communication of the CP. • 2—Please configure the protocol tunnel on CP. • 4—Please check the abnomal state of the CUSP tunnel between CP and UP. • 8—Please check the listening IP of the CUSP controller and the source IP of the protocol tunnel on CP. • 16—Please check the agent IP of the CUSP controller and the destination IP of the protocol tunnel on CP. • 32—Cannot check the configuration of the protocol tunnel on UP because of the disconnection of the	No

Column name	Column description	Data type and restrictions	Support for extended queries
		CU NETCONF tunnel. • 64—Please configure the protocol tunnel on UP. • 128—Please check the local address of the CUSP agent and the source IP of the protocol tunnel on UP. • 256—Please check the controller address of the CUSP agent and the destination IP of the protocol tunnel on UP. • 512—Please check the source IP of the protocol tunnel on CP and the destination IP of the protocol tunnel on UP. 1024—Please check the destination IP of the protocol tunnel on CP and the source IP of the protocol tunnel on UP. • 2048—Please check the VXLAN ID of the protocol tunnel between CP and UP.	

Contents

cups-vbng-sci 1

cups-vbng-sci/state-control-interfaces 1
XML structure 1
Table description 1
Columns 2
cups-vbng-sci/state-control-interfaces/state-control-interface 2
Table description 2
Columns 2
cups-vbng-sci/state-control-interfaces/state-control-interface/connections 3
Table description 3
Columns 4
cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection 4
Table description 4
Columns 4

cups-vbng-sci

cups-vbng-sci/state-control-interfaces

This table contains the state control interfaces information on the user plane.

XML structure

```
<cups-vbng-sci>
  <state-control-interfaces>
    <state-control-interface>
      <name></name>
      <up-ip-address></up-ip-address>
      <vpn-instance-name></vpn-instance-name>
      <ssl-policy-name></ssl-policy-name>
      <bfd-template-name></bfd-template-name>
      <interval></interval>
      <timeout-count></timeout-count>
      <KeychainName></KeychainName>
      <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
      <FirstConnectionDelayTime></FirstConnectionDelayTime>
      <connections>
        <connection>
          <cp-ip-address></cp-ip-address>
        </connection>
      </connections>
    </state-control-interface>
  </state-control-interfaces>
</cups-vbng-sci>
```

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	state-control-interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state-control-interface	State-control-interface table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface table.

cups-vbng-sci/state-control-interfaces/state-control-interface

This table contains the state control interface information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	state-control-interface
Table type	Multi-instance table
Row name	state-control-interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	CUSP channel name	Index	String. Length: 1 to 31 characters.	N/A
up-ip-address	IP address on the user plane of CUSP	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
vpn-instance-name	VPN instance name on the user plane of CUSP	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
ssl-policy-name	SSL policy name on the user plane of CUSP	N/A	String, case insensitive. Length: 1 to 31 characters.	Not case sensitive.
bfd-template-name	BFD session template name	N/A	String. Length: 0 to 63 characters.	If using the default template, the length of

Column name	Column description	Column type	Data type and restrictions	Remarks
	on the user plane of CUSP			characters is 0.
interval	CUSP connection heartbeat interval	N/A	Unsigned integer. Value range: 0 to 120, in seconds. Default: 30.	The value of 0 means that the heartbeat keep-alive is turned off.
timeout-count	CUSP connection heartbeat timeout count	N/A	Unsigned integer. Value range: 4 to 10. Default: 4.	N/A
KeychainName	Keychain authentication name on the control plane of CUSP	N/A	String, case insensitive. Length: 1 to 63 characters.	case sensitive.
DisconnectionEntryAgingTime	UCM and DHCP entries age after the cusp connection is disconnected	N/A	Unsigned integer. Value range: 5 to 1440, in minutes.	N/A
FirstConnectionDelayTime	CUSP client delay the first connection after device startup.	N/A	Unsigned integer. Value range: 1 to 60, in minutes.	N/A
connections	Connections table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface/connections table.

cups-vbng-sci/state-control-interfaces/state-control-interface/connections

This table contains the connections information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	connections
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
connection	Connection table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection table.

cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection

This table contains the connection information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	connection
Table type	Multi-instance table
Row name	connection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
cp-ip-address	IP address on the control plane of CUSP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.

Contents

cups-vbng-sci 1

cups-vbng-sci/state-control-interfaces 1
XML structure 1
Table description 1
Columns 2
cups-vbng-sci/state-control-interfaces/state-control-interface 2
Table description 2
Columns 2
cups-vbng-sci/state-control-interfaces/state-control-interface/connections 3
Table description 3
Columns 4
cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection 4
Table description 4
Columns 4

cups-vbng-sci

cups-vbng-sci/state-control-interfaces

This table contains the state control interfaces information on the user plane.

XML structure

```
<cups-vbng-sci>
  <state-control-interfaces>
    <state-control-interface>
      <name></name>
      <up-ip-address></up-ip-address>
      <vpn-instance-name></vpn-instance-name>
      <ssl-policy-name></ssl-policy-name>
      <bfd-template-name></bfd-template-name>
      <interval></interval>
      <timeout-count></timeout-count>
      <KeychainName></KeychainName>
      <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
      <FirstConnectionDelayTime></FirstConnectionDelayTime>
      <connections>
        <connection>
          <cp-ip-address></cp-ip-address>
          <ControlTunnelState></ControlTunnelState>
        </connection>
      </connections>
    </state-control-interface>
  </state-control-interfaces>
</cups-vbng-sci>
```

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	state-control-interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state-control-interface	State-control-interface table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface table.

cups-vbng-sci/state-control-interfaces/state-control-interface

This table contains the state control interface information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	state-control-interface
Table type	Multi-instance table
Row name	state-control-interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	CUSP channel name	Index	String. Length: 1 to 31 characters.	N/A
up-ip-address	IP address on the user plane of CUSP	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
vpn-instance-name	VPN instance name on the user plane of CUSP	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
ssl-policy-name	SSL policy name on the user plane of CUSP	N/A	String, case insensitive. Length: 1 to 31 characters.	Not case sensitive.
bfd-template-name	BFD session template name on the user plane of CUSP	N/A	String. Length: 0 to 63 characters.	If using the default template, the length of characters is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
interval	CUSP connection heartbeat interval	N/A	Unsigned integer. Value range: 0 to 120, in seconds.	The value of 0 means that the heartbeat keep-alive is turned off.
timeout-count	CUSP connection heartbeat timeout count	N/A	Unsigned integer. Value range: 4 to 10.	N/A
KeychainName	Keychain authentication name on the control plane of CUSP	N/A	String, case insensitive. Length: 1 to 63 characters.	case sensitive.
DisconnectionEntryAgingTime	UCM and DHCP entries age after the cusp connection is disconnected	N/A	Unsigned integer. Value range: 5 to 1440, in minutes.	N/A
FirstConnectionDelayTime	CUSP client delay the first connection after device startup.	N/A	Unsigned integer. Value range: 1 to 60, in minutes.	N/A
connections	Connections table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface/connections table.

cups-vbng-sci/state-control-interfaces/state-control-interface/connections

This table contains the connections information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	connections
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
connection	Connection table	Sublist	N/A	For more information, see the cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection table.

cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection

This table contains the connection information on the user plane.

Table description

Item	Description
Feature name	cups-vbng-sci
Table name	connection
Table type	Multi-instance table
Row name	connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
cp-ip-address	IP address on the control plane of CUSP	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
ControlTunnelState	Control tunnel state	N/A	Enumeration: • 0—Inactive. • 1—Active.	N/A

Contents

cups-vbng-sci 1
cups-vbng-sci/state-control-interfaces/state-control-interface 1
cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection 1

cups-vbng-sci

cups-vbng-sci/state-control-interfaces/state-control-interface

Message	Explanation
Failed to send configuration. 发送配置失败。	Please try again later. 请稍后重试。
The process is busy. 进程繁忙。	Please try again later. 请稍后重试。
The device supports only one CUSP agent. 设备仅支持配置一个cusp代理。	Please delete current CUSP agent first. 请先删除原有 CUSP 代理，再重新配置。
BFD not supported. 不支持BFD功能。	
Invalid IP address. 配置无效的IP地址。	Please configure IPv4 or IPv6 unicast address. 请配置 IPv4 或 IPv6 单播地址。
Can’t set VPN instance name only. 不支持单独修改VPN实例名。	Please set IP address together. 请和IP地址一同修改。

cups-vbng-sci/state-control-interfaces/state-control-interface/connections/connection

Message	Explanation
Controller address is full. 控制器地址已配满。	Please undo one first. 请先删除再配置。
Invalid IP address. 配置无效的IP地址。	Please configure IPv4 or IPv6 unicast address. 请配置 IPv4 或 IPv6 单播地址。

Contents

CUSP 1
CUSP/ClearAll 1
XML structure 1
Table description 1
Columns 1
CUSP/ClearAgents 1
XML structure 1
Table description 2
Columns 2

CUSP

CUSP/ClearAll

This table contains information about clearing the statistics for all agents that the control plane permits.

XML structure

```
<CUSP>
  <ClearAll>
    <ClearStatistics></ClearStatistics>
  </ClearAll>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP
Table name	ClearAll
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ClearStatistics	Clears all agents' packet statistics.	N/A	This column must be empty.

CUSP/ClearAgents

This table contains information about clearing the statistics for the specified agent that the control plane permits.

XML structure

```
<CUSP>
  <ClearAgents>
    <ClearAgent>
      <Name></Name>
      <ClearStatistics></ClearStatistics>
    </ClearAgent>
```

```
  </ClearAgents>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP
Table name	ClearAgents
Table type	Multi-instance table
Row name	ClearAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the permitted agent on the control plane	Index	String. Length: 1 to 31 characters.
ClearStatistics	Clears the specified agent' packet statistics.	N/A	This column must be empty..

Contents

CUSP 1
CUSP/Controller 1
XML structure 1
Table description 1
Columns 2
CUSP/Controller/Base 2
Table description 2
Columns 2
CUSP/Controller/PermitAgents 3
Table description 3
Columns 3
CUSP/ConnectAgents 4
XML structure 4
Table description 4
Columns 5
CUSP/ConnectAgents/ConnectAgent 5
Table description 5
Columns 5

CUSP

CUSP/Controller

This table contains the information of the control plane.

XML structure

```
<CUSP>
  <Controller>
    <ControllerEnable></ControllerEnable>
    <Base>
      <IpAddress></IpAddress>
      <VRF></VRF>
      <SSLPolicyName></SSLPolicyName>
      <BFDTemplate></BFDTemplate>
      <Interval></Interval>
      <TimeoutCount></TimeoutCount>
      <KeychainName></KeychainName>
      <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
    </Base>
    <PermitAgents>
      <PermitAgent>
        <CPAgentName></CPAgentName>
        <IpAddress></IpAddress>
      </PermitAgent>
    </PermitAgents>
  </Controller>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP
Table name	Controller
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControllerEnable	Whether enable the CUSP controller function	N/A	Boolean: • true • false(Default)	N/A
Base	Configuration base information on the controller	Subtable	N/A	For more information, see the CUSP/Controller/Base table.
PermitAgents	Configuration information about the agents that the control plane permits	Subtable	N/A	For more information, see the CUSP/Controller/Permit Agents table.

CUSP/Controller/Base

This table contains the basic information of the control plane.

Table description

Item	Description
Feature name	CUSP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address on the control plane of CUSP	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
VRF	Name of the VRF instance on the control plane	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
SSLPolicyNa	SSL policy name on the control	N/A	String, case insensitive.	Case insensitive.

Column name	Column description	Column type	Data type and restrictions	Remarks
me	plane of CUSP		Length: 1 to 31 characters.	
BFDTemplate	BFD session template name on the control plane of CUSP	N/A	String. Length: 0 to 63 characters.	If using the default template, the length of characters is 0.
EchoInterval	CUSP connections heartbeat interval	N/A	Unsigned integer. Value range: 0 to 120, in seconds. Default: 30.	The value of 0 means that the heartbeat keep-alive is turned off.
TimeoutCount	CUSP connections heartbeat timeout count	N/A	Unsigned integer. Value range: 4 to 10. Default: 4.	N/A
KeychainName	Keychain authentication name on the control plane of CUSP	N/A	String, case insensitive. Length: 1 to 63 characters.	case sensitive.
DisconnectionEntryAgingTime	UCM and DHCP entries age after the cusp connection is disconnected	N/A	Unsigned integer. Value range: 5 to 1440, in minutes.	N/A

CUSP/Controller/PermitAgents

This table contains information about the agents that the control plane permits.

Table description

Item	Description
Feature name	CUSP
Table name	PermitAgents
Table type	Multi-instance table
Row name	PermitAgent
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CPAgentName	Name of the permitted agent on the control	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	plane			
IpAddress	IP address of the permitted agent on the control plane	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.

CUSP/ConnectAgents

This table contains information about the agents that the control plane connects.

XML structure

```
<CUSP>
  <ConnectAgents>
    <ConnectAgent>
      <UPID></UPID>
      <CPAgentName></CPAgentName>
      <state-control-interfaces>
        <state-control-interface>
          <name></name>
          <up-ip-address></up-ip-address>
          <vpn-instance-name></vpn-instance-name>
          <ssl-policy-name></ssl-policy-name>
          <bfd-template-name></bfd-template-name>
          <interval></interval>
          <timeout-count></timeout-count>
          <KeychainName></KeychainName>
          <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
          <FirstConnectionDelayTime></FirstConnectionDelayTime>
          <connections>
            <connection>
              <cp-ip-address></cp-ip-address>
            </connection>
          </connections>
        </state-control-interface>
      </state-control-interfaces>
    </ConnectAgent>
  </ConnectAgents>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP

Item	Description
Table name	ConnectAgents
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectAgent	ConnectAgent table	Sublist	N/A	For more information, see the CUSP/ConnectAgents/ConnectAgent table.

CUSP/ConnectAgents/ConnectAgent

This table contains the configuration information on the user plane.

Table description

Item	Description
Feature name	CUSP
Table name	ConnectAgent
Table type	Multi-instance table
Row name	ConnectAgent
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPID	User plane ID	Index	Unsigned integer.	N/A
CPAgentName	Agent name on the control plane	N/A	String. Length: 1 to 31 characters.	N/A
state-control-interfaces	Configuration information on the user plane	Subtable	N/A	For more information, see the cups-vbng-sci/state-control-interfaces table.

Contents

CUSP 1
CUSP/Controller 1
XML structure 1
Table description 1
Columns 1
CUSP/Controller/Base 2
Table description 2
Columns 2
CUSP/Controller/PermitAgents 3
Table description 3
Columns 3
CUSP/ConnectAgents 3
XML structure 4
Table description 4
Columns 5
CUSP/ConnectAgents/ConnectAgent 5
Table description 5
Columns 5

CUSP

CUSP/Controller

This table contains the information of the control plane.

XML structure

```
<CUSP>
  <Controller>
    <ControllerEnable></ControllerEnable>
    <Base>
      <IpAddress></IpAddress>
      <VRF></VRF>
      <SSLPolicyName></SSLPolicyName>
      <BFDTemplate></BFDTemplate>
      <Interval></Interval>
      <TimeoutCount></TimeoutCount>
      <KeychainName></KeychainName>
      <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
    </Base>
    <PermitAgents>
      <PermitAgent>
        <CPAgentName></CPAgentName>
        <IpAddress></IpAddress>
      </PermitAgent>
    </PermitAgents>
  </Controller>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP
Table name	Controller
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControllerEnable	Whether enable the CUSP	N/A	Boolean: • true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	controller function		• false	
Base	Configuration base information on the controller	Subtable	N/A	For more information, see the CUSP/Controller/Base table.
PermitAgents	Configuration information about the agents that the control plane permits	Subtable	N/A	For more information, see the CUSP/Controller/Permit Agents table.

CUSP/Controller/Base

This table contains the basic information of the control plane.

Table description

Item	Description
Feature name	CUSP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address on the control plane of CUSP	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
VRF	Name of the VRF instance on the control plane	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
SSLPolicyName	SSL policy name on the control plane of CUSP	N/A	String, case insensitive. Length: 1 to 31 characters.	Not case sensitive.
BFDTemplate	BFD session template name on the control plane of CUSP	N/A	String. Length: 0 to 63 characters.	If using the default template, the length of characters is 0.
EchoInterval	CUSP connections heartbeat interval	N/A	Unsigned integer. Value range: 0 to 120, in seconds.	The value of 0 means that the heartbeat keep-alive is turned off.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeoutCount	CUSP connections heartbeat timeout count	N/A	Unsigned integer. Value range: 4 to 10.	N/A
KeychainName	Keychain authentication name on the control plane of CUSP	N/A	String, case insensitive. Length: 1 to 63 characters.	case sensitive.
DisconnectionEntryAgingTime	UCM and DHCP entries age after the cusp connection is disconnected	N/A	Unsigned integer. Value range: 5 to 1440, in minutes.	N/A

CUSP/Controller/PermitAgents

This table contains information about the agents that the control plane permits.

Table description

Item	Description
Feature name	CUSP
Table name	PermitAgents
Table type	Multi-instance table
Row name	PermitAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CPAgentName	Name of the permitted agent on the control plane	Index	String. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the permitted agent on the control plane	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.

CUSP/ConnectAgents

This table contains information about the agents that the control plane connects.

XML structure

```
<CUSP>
  <ConnectAgents>
    <ConnectAgent>
      <UPID></UPID>
      <CPAgentName></CPAgentName>
      <UPAddress></UPAddress>
      <UPVersion></UPVersion>
      <UPVendorID></UPVendorID>
      <LocalConnectState></LocalConnectState>
      <PeerConnectState></PeerConnectState>
      <ControlTunnelState></ControlTunnelState>
      <SentBytes></SentBytes>
      <ReceivedBytes></ReceivedBytes>
      <state-control-interfaces>
        <state-control-interface>
          <name></name>
          <up-ip-address></up-ip-address>
          <vpn-instance-name></vpn-instance-name>
          <ssl-policy-name></ssl-policy-name>
          <bfd-template-name></bfd-template-name>
          <interval></interval>
          <timeout-count></timeout-count>
          <KeychainName></KeychainName>
          <DisconnectionEntryAgingTime></DisconnectionEntryAgingTime>
          <FirstConnectionDelayTime></FirstConnectionDelayTime>
          <connections>
            <connection>
              <cp-ip-address></cp-ip-address>
            </connection>
          </connections>
        </state-control-interface>
      </state-control-interfaces>
    </ConnectAgent>
  </ConnectAgents>
</CUSP>
```

Table description

Item	Description
Feature name	CUSP
Table name	ConnectAgents
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectAgent	ConnectAgent table	Sublist	N/A	For more information, see the CUSP/ConnectAgents/ConnectAgent table.

CUSP/ConnectAgents/ConnectAgent

This table contains the agent connection information on the user plane.

Table description

Item	Description
Feature name	CUSP
Table name	ConnectAgent
Table type	Multi-instance table
Row name	ConnectAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPID	User plane ID	Index	Unsigned integer.	N/A
CPAgentName	Agent name on the control plane	N/A	String. Length: 1 to 31 characters.	N/A
UPAddress	IP address on the user plane of CUSP	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. 0.0.0.0 is an invalid value.
UPVersion	Version number on the user plane of CUSP	N/A	Unsigned integer.	N/A
UPVendorID	Vendor ID on the user plane of CUSP	N/A	Unsigned integer.	N/A
LocalConnectState	CUSP connection state on local controller.	N/A	Enumeration: • 0—Disconnected. • 1—Connected.	N/A
PeerConnectState	CUSP connection state on peer controller.	N/A	Enumeration: • 0—Unknown. • 1—Connected. • 2—Disconnected.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlTunnelState	Control tunnel state	N/A	Enumeration: • 0—Inactive. • 1—Active.	N/A
SentBytes	Statistics of sent bytes	N/A	Unsigned integer.	N/A
ReceivedBytes	Statistics of received bytes	N/A	Unsigned integer.	N/A
state-control-interfaces	State-control-interfaces table	Subtable	N/A	For more information, see the cups-vbng-sci/state-control-interfaces table.

Contents

CUSP 2
CUSP/Controller/Base 2
CUSP/Controller/PermitAgents 2
CUSP/ConnectAgents/ConnectAgent 2
CUSP/ClearAgents 3

CUSP

CUSP/Controller/Base

Message	Explanation
CUSP controller is disable. 未开启CUSP控制器功能。	Please enable CUSP controller first. 请先开启CUSP控制器功能。
BFD not supported. 不支持BFD功能。	
Invalid IP address. 配置无效的IP地址。	Please configure IPv4 or IPv6 unicast address. 请配置 IPv4 或 IPv6 单播地址。
Can’t set VPN instance name only. 不支持单独修改VPN实例名。	Please set IP address together. 请和IP地址一同修改。

CUSP/Controller/PermitAgents

Message	Explanation
CUSP controller is disable. 未开启CUSP控制器功能。	Please enable CUSP controller first. 请先开启CUSP控制器功能。
Maximum number of agents already reached. CUSP代理配置数量已经达到最大规格限制。	Please delete some CUSP agent. 请先删除部分CUSP代理，再下发新配置。
Invalid IP address. 配置无效的IP地址。	Please configure IPv4 or IPv6 unicast address. 请配置 IPv4 或 IPv6 单播地址。
This IP address overlaps with another CUSP agent. CUSP代理IP地址已经存在。	Please assign other IP address. 请指定其它的IP地址。

CUSP/ConnectAgents/ConnectAgent

Message	Explanation
The specified CUSP agent doesn`t exist. 指定的CUSP代理不存在。	Please create the specified CUSP agent. 请先配置CUSP代理。
Not configure IP address of CUSP agent. 未配置CUSP代理的IP地址。	Please specify the agent IP address first. 请先配置CUSP代理的IP地址。
The specified UP supports only one CUSP agent. 指定的UP仅支持一个CUSP代理。	Please release old CUSP agent. 请先去绑定原有的CUSP代理。

CUSP/ClearAgents

Message	Explanation
The specified CUSP agent doesn`t exist. 指定的CUSP代理不存在。	Please create the specified CUSP agent. 请先配置CUSP代理。

Contents

CustomLog 1
CustomLog/LogHost 1
XML structure 1
Table description 2
Columns 2
CustomLog/LogAttribute 5
XML structure 5
Table description 6
Columns 6

CustomLog

CustomLog/LogHost

This table contains custom log hosts information.

XML structure

```
<CustomLog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <OutputLog>
        <CmccSessionlog></CmccSessionlog>
        <CmccUserlog></CmccUserlog>
        <TelecomSessionlog></TelecomSessionlog>
        <TelecomUserlog></TelecomUserlog>
        <UnicomSessionlog></UnicomSessionlog>
        <UnicomUserlog></UnicomUserlog>
        <Sessionlog></Sessionlog>
        <PacketFilterlog></PacketFilterlog>
        <ATKlog></ATKlog>
        <AFTlog></AFTlog>
        <DPIAuditlog></DPIAuditlog>
        <DPIUfltlog></DPIUfltlog>
        <DPINetSharelog></DPINetSharelog>
        <SCDlog></SCDlog>
        <DPIIPSlog></DPIIPSlog>
        <DPIIPReputationlog></DPIIPReputationlog>
        <DPIWAFlog></DPIWAFlog>
        <DPISandboxlog></DPISandboxlog>
        <DPIAVClog></DPIAVClog>
        <DPITerminallog></DPITerminallog>
        <DPIAVlog></DPIAVlog>
        <TACCSAPlog></TACCSAPlog>
        <LBDNSProxylog></LBDNSProxylog>
        <LBOutboundlog></LBOutboundlog>
        <DPIDGAlog></DPIDGAlog>
      </OutputLog>
    </Host>
  </LogHosts>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to four log hosts.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Host name: Case-insensitive string. Host name length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	Index	Unsigned integer. Value range: 1 to 65535. Default: 514.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputLog	Type of logs to be sent to the log host	Data structure	Members include: • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUfltlog • DPINetSharelog • SCDlog • DPIIPReputationlog • DPIWAFlog • DPISandboxlog • DPIAVClog • DPITerminallog • DPIAVlog • LBDNSProxylog • LBOutboundlog	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ATKlog	Enabling status of outputting ATK logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIUfltlog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPINetShareLog	Enabling status of outputting DPI netshare control logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SCDlog	Enabling status of outputting server connection detection logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIIPSlog	Enabling status of outputting DPI IPS logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIIPReputati	Enabling status	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
onlog	of outputting DPI IPReputation logs to the log host		• **true**—Enabled. • **false**—Disabled.	
DPIWAFlog	Enabling status of outputting DPI WAF logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPISandboxlog	Enabling status of outputting DPI Sandbox logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAVClog	Enabling status of outputting DPI AVC logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPITerminallog	Enabling status of outputting DPI terminal logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAVlog	Enabling status of outputting DPI anti-virus logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (Default).	N/A
TACCSAPlog	Enabling status of outputting CSAP TAC logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (Default).	N/A
DPIDGAlog	Enabling status of outputting DPI DGA logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (Default).	N/A

CustomLog/LogAttribute

This table contains global attributes about custom log.

XML structure

```
<CustomLog>
  <LogAttribute>
    <LogFormat></LogFormat>
    <Timestamp></Timestamp>
    <SourceInterface></SourceInterface>
    <SessionLogFormat></SessionLogFormat>
    <PacketFilterLogFormat></PacketFilterLogFormat>
    <ATKLogFormat></ATKLogFormat>
    <AFTLogFormat></AFTLogFormat>
    <DPIAuditLogFormat></DPIAuditLogFormat>
    <DPIUfltLogFormat></DPIUfltLogFormat>
```

```
    <DPINetShareLogFormat></DPINetShareLogFormat>
    <SCDLogFormat></SCDLogFormat>
    <DPIIPSLogFormat></DPIIPSLogFormat>
    <DPIIPSUpdateLogFormat></DPIIPSUpdateLogFormat>
    <DPIIPReputationLogFormat></DPIIPReputationLogFormat>
    <DPIWAFLogFormat></DPIWAFLogFormat>
    <DPISandboxLogFormat></DPISandboxLogFormat>
    <DPIAVCLogFormat></DPIAVCLogFormat>
    <DPITerminalFormat></DPITerminalFormat>
    <DPIAVLogFormat></DPIAVLogFormat>
    <TACCSAPFormat></TACCSAPFormat>
    <LBDNSProxyLogFormat></LBDNSProxyLogFormat>
    <LBOutboundLogFormat></LBOutboundLogFormat>
    <DPIDGALogFormat></DPIDGALogFormat>
  </LogAttribute>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogFormat	Format for outputting NAT444 custom logs	N/A	Enumeration: • 0—Output NAT444 logs with Unicom format. • 1—Output NAT444 logs with Telecom format. • 2—Output NAT444 logs with CMCC format. • 3—Do not output NAT444 logs. (Default).	N/A
Timestamp	Timestamp type of NAT444 custom log	N/A	Enumeration: • 0—Greenwich Mean Time(GMT). (Default) • 1—Local time of device.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceInterface	Name of source Interface address for output custom NAT444 logs	N/A	String Length: 2 to 47 characters.	Example: Ethernet0/0/0 Only interfaces that support IP address configuration can be specified.
SessionLogFormat	Format for outputting session custom logs	N/A	Enumeration: • 0—Output standard H3C format session logs. • 1—Do not output session logs (Default).	N/A
PacketFilterLogFormat	Format for outputting packet filter custom logs	N/A	Enumeration: • 0—Output standard H3C format packet filter logs. • 1—Do not output packet filter logs (Default).	N/A
ATKLogFormat	Format for outputting ATK custom logs	N/A	Enumeration: • 0—Output standard H3C format ATK logs. • 1—Do not output ATK logs (Default).	N/A
AFTLogFormat	Format for outputting AFT custom logs	N/A	Enumeration: • 0—Output standard H3C format AFT logs. • 1—Do not output AFT logs (Default).	N/A
DPIAuditLogFormat	Format for outputting DPI audit custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI audit logs. • 1—Do not output DPI audit logs (Default).	N/A
DPIUfltLogFormat	Format for outputting DPI URL filter custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI URL filter logs. • 1—Do not output DPI URL filter logs (Default).	N/A
DPINetShareLogFormat	Format for outputting DPI netshare control logs	N/A	Enumeration: • 0—Output standard H3C format DPI netshare control logs. • 1—Do not output DPI netshare control logs (default).	N/A
SCDLogFormat	Format for outputting server connection detection logs	N/A	Enumeration: • 0—Output standard H3C format server connection detection logs. • 1—Do not output server connection detection logs (default).	N/A
DPIIPSLogFormat	Format for outputting DPI	N/A	Enumeration: • 0—Output standard H3C	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPS custom logs		format DPI IPS logs. • 1—Do not output DPI IPS logs (default). • 2—Output SGCC format DPI IPS logs.	
DPIIPSUpdateLogFormat	Format for outputting DPI IPS signature update logs	N/A	Enumeration: • 0—Output SGCC format DPI IPS signature update logs. • 1—Do not output DPI IPS signature update logs (default).	N/A
DPIIPReputationLogFormat	Format for outputting DPI IPReputation logs	N/A	Enumeration: • 0—Output standard H3C format DPI IPReputation logs. • 1—Do not output DPI IPReputation logs (default).	N/A
DPIWAFLogFormat	Format for outputting DPI WAF logs	N/A	Enumeration: • 0—Output standard H3C format DPI WAF logs. • 1—Do not output DPI WAF logs (default).	N/A
DPISandboxLogFormat	Format for outputting DPI Sandbox logs	N/A	Enumeration: • 0—Output standard H3C format DPI Sandbox logs. • 1—Do not output DPI Sandbox logs (default).	N/A
DPIAVCLogFormat	Format for outputting DPI AVC custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI bandwidth management logs. • 1—Do not output DPI bandwidth management logs (default).	N/A
DPITerminalLogFormat	Format for outputting DPI terminal logs	N/A	Enumeration: • 0—Output standard H3C format DPI terminal logs. • 1—Do not output DPI terminal logs (default).	N/A
DPIAVLogFormat	Format for outputting DPI anti-virus custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI anti-virus logs. • 1—Do not output DPI anti-virus logs (default).	N/A
TACCSAPFormat	Format for outputting CSAP TAC logs	N/A	Enumeration: • 0—Output standard H3C format CSAP TAC logs. • 1—Do not output CSAP TAC logs (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LBDNSProxyLogFormat	Format for outputting load balance dns proxy logs	N/A	Enumeration: • 0—Output standard H3C format load balance dns proxy logs. 1—Do not output load balance dns proxy logs (default).	N/A
LBOutboundLogFormat	Format for outputting load balance outbound logs	N/A	Enumeration: • 0—Output standard H3C format load balance outbound logs. 1—Do not output load balance outbound logs (default).	N/A
DPIDGALogFormat	Format for outputting DPI DGA logs	N/A	Enumeration: • 0—Output standard H3C format DPI DGA logs. • 1—Do not output DPI DGA logs (default).	N/A

Contents

CustomLog 1
CustomLog/LogHost 1
XML structure 1
Table description 2
Columns 2
CustomLog/LogAttribute 5
XML structure 5
Table description 6
Columns 6

CustomLog

CustomLog/LogHost

This table contains custom log hosts information.

XML structure

```
<CustomLog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <OutputLog>
        <CmccSessionlog></CmccSessionlog>
        <CmccUserlog></CmccUserlog>
        <TelecomSessionlog></TelecomSessionlog>
        <TelecomUserlog></TelecomUserlog>
        <UnicomSessionlog></UnicomSessionlog>
        <UnicomUserlog></UnicomUserlog>
        <Sessionlog></Sessionlog>
        <PacketFilterlog></PacketFilterlog>
        <ATKlog></ATKlog>
        <AFTlog></AFTlog>
        <DPIAuditlog></DPIAuditlog>
        <DPIUfltlog></DPIUfltlog>
        <DPINetSharelog></DPINetSharelog>
        <SCDlog></SCDlog>
        <DPIIPSlog></DPIIPSlog>
        <DPIIPReputationlog></DPIIPReputationlog>
        <DPIWAFlog></DPIWAFlog>
        <DPISandboxlog></DPISandboxlog>
        <DPIAVClog></DPIAVClog>
        <DPITerminallog></DPITerminallog>
        <DPIAVlog></DPIAVlog>
        <TACCSAPlog></TACCSAPlog>
        <LBDNSProxylog></LBDNSProxylog>
        <LBOutboundlog></LBOutboundlog>
        <DPIDGAlog></DPIDGAlog>
    </OutputLog>
    </Host>
  </LogHosts>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to four log hosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Host name: Case-insensitive string. Host name length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputLog	Type of logs to be sent to the log host	Data structure	Members include: • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUfltlog • DPINetSharelog • SCDlog • DPIIPReputationlog • DPIWAFlog • DPISandboxlog • DPIAVClog • DPITerminallog • DPIAVlog • LBDNSProxylog • LBOutboundlog	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ATKlog	Enabling status of outputting attack defense logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIUfltlog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPINetSharelog	Enabling status of outputting DPI netshare control logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SCDlog	Enabling status of outputting server connection detection logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIIPSlog	Enabling status of outputting DPI IPS logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DPIIPReputationlog	Enabling status of outputting DPI IPReputation logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIWAFlog	Enabling status of outputting DPI WAF logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPISandboxlog	Enabling status of outputting DPI Sandbox logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAVClog	Enabling status of outputting DPI AVC logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPITerminallog	Enabling status of outputting DPI terminal logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIAVlog	Enabling status of outputting DPI anti-virus logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TACCSAPlog	Enabling status of outputting CSAP TAC logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
DPIDGAlog	Enabling status of outputting DPI DGA logs to the log host	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

CustomLog/LogAttribute

This table contains global attributes about custom log.

XML structure

```
<CustomLog>
  <LogAttribute>
    <LogFormat></LogFormat>
    <Timestamp></Timestamp>
    <SourceInterface></SourceInterface>
    <SessionLogFormat></SessionLogFormat>
    <PacketFilterLogFormat></PacketFilterLogFormat>
    <ATKLogFormat></ATKLogFormat>
    <AFTLogFormat></AFTLogFormat>
    <DPIAuditLogFormat></DPIAuditLogFormat>
```

```
    <DPIUfltLogFormat></DPIUfltLogFormat>
    <DPINetShareLogFormat></DPINetShareLogFormat>
    <SCDLogFormat></SCDLogFormat>
    <DPIIPSLogFormat></DPIIPSLogFormat>
    <DPIIPSUpdateLogFormat></DPIIPSUpdateLogFormat>
    <DPIIPReputationLogFormat></DPIIPReputationLogFormat>
    <DPIWAFLogFormat></DPIWAFLogFormat>
    <DPISandboxLogFormat></DPISandboxLogFormat>
    <DPIAVCLogFormat></DPIAVCLogFormat>
    <DPITerminalFormat></DPITerminalFormat>
    <DPIAVFormat></DPIAVFormat>
    <TACCSAPFormat></TACCSAPFormat>
    <LBDNSProxyLogFormat></LBDNSProxyLogFormat>
    <LBOutboundLogFormat></LBOutboundLogFormat>
    <DPIDGALogFormat></DPIDGALogFormat>
  </LogAttribute>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogFormat	The format for outputting NAT444 custom logs	N/A	Enumeration: • 0—Output NAT444 logs with Unicom format. • 1—Output NAT444 logs with Telecom format. • 2—Output NAT444 logs with CMCC format. • 3—Do not output NAT444 logs.	N/A
Timestamp	The timestamp type of NAT444 custom log	N/A	Enumeration: • 0—Greenwich Mean Time (GMT). • 1—Local time of device.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceInterface	The name of source Interface for output custom NAT444 logs	N/A	String Length: 2 to 47 characters.	Example: Ethernet0/0/0 Only interfaces that support IP address configuration can be specified.
SessionLogFormat	Format for outputting session custom logs	N/A	Enumeration: • 0—Output standard H3C format session logs. • 1—Do not output session logs.	N/A
PacketFilterLogFormat	Format for outputting packet filter custom logs	N/A	Enumeration: • 0—Output standard H3C format packet filter logs. • 1—Do not output packet filter logs.	N/A
ATKLogFormat	Format for outputting ATK custom logs	N/A	Enumeration: • 0—Output standard H3C format ATK logs. • 1—Do not output ATK logs.	N/A
AFTLogFormat	Format for outputting AFT custom logs	N/A	Enumeration: • 0—Output standard H3C format AFT logs. • 1—Do not output AFT logs.	N/A
DPIAuditLogFormat	Format for outputting DPI audit custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI audit logs. • 1—Do not output DPI audit logs.	N/A
DPIUfltLogFormat	Format for outputting DPI URL filter custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI URL filter logs. • 1—Do not output DPI url filter logs.	N/A
DPINetShareLogFormat	Format for outputting DPI netshare control logs	N/A	Enumeration: • 0—Output standard H3C format DPI netshare control logs. • 1—Do not output DPI netshare control logs.	N/A
SCDLogFormat	Format for outputting server connection detection logs	N/A	Enumeration: • 0—Output standard H3C format server connection detection logs. • 1—Do not output server connection detection logs.	N/A
DPIIPSLogFormat	Format for outputting DPI IPS custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI IPS logs.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Do not output DPI IPS logs. • 2—Output SGCC format DPI IPS logs.	
DPIIPSUpdateLogFormat	Format for outputting DPI IPS signature update logs	N/A	Enumeration: • 0—Output SGCC format DPI IPS signature update logs. • 1—Do not output DPI IPS signature update logs.	N/A
DPIIPReputationLogFormat	Format for outputting DPI IPReputation logs	N/A	Enumeration: • 0—Output standard H3C format DPI IPReputation logs. • 1—Do not output DPI IPReputation logs.	N/A
DPIWAFLogFormat	Format for outputting DPI WAF logs	N/A	Enumeration: • 0—Output standard H3C format DPI WAF logs. • 1—Do not output DPI WAF logs (default).	N/A
DPISandboxLogFormat	Format for outputting DPI Sandbox logs	N/A	Enumeration: • 0—Output standard H3C format DPI Sandbox logs. • 1—Do not output DPI Sandbox logs (default).	N/A
DPIAVCLogFormat	Format for outputting DPI AVC custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI bandwidth management logs. • 1—Do not output DPI bandwidth management logs (default).	N/A
DPITerminalLogFormat	Format for outputting DPI terminal logs	N/A	Enumeration: • 0—Output standard H3C format DPI terminal logs. • 1—Do not output DPI terminal logs (default).	N/A
DPIAVLogFormat	Format for outputting DPI anti-virus custom logs	N/A	Enumeration: • 0—Output standard H3C format DPI anti-virus logs. • 1—Do not output DPI anti-virus logs.	N/A
TACCSAPFormat	Format for outputting CSAP TAC logs	N/A	Enumeration: • 0—Output standard H3C format CSAP TAC logs. • 1—Do not output CSAP TAC logs (default).	N/A
LBDNSProxyLogFormat	Format for outputting load	N/A	Enumeration: • 0—Output standard H3C	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	balance dns proxy logs		format load balance dns proxy logs. 1—Do not output load balance dns proxy logs (default).	
LBOutboundLogFormat	Format for outputting load balance outbound logs	N/A	Enumeration: • 0—Output standard H3C format load balance outbound logs. 1—Do not output load balance outbound logs (default).	N/A
DPIDGALogFormat	Format for outputting DPI DGA logs	N/A	Enumeration: • 0—Output standard H3C format DPI DGA logs. • 1—Do not output DPI DGA logs.	N/A

Contents

CWMP 1
CWMP/Configuration 1
XML structure 1
Table description 1
Columns 1
CWMP/Base 3
XML structure 3
Table description 3
Columns 3

CWMP

CWMP/Configuration

This table contains information about the CWMP Global Settings.

XML structure

```
<CWMP>
  <Configuration>
    <Status></Status>
    <ACS>
      <URL></URL>
      <UserName></UserName>
      <Password></Password>
    </ACS>
    <CPE>
      <UserName></UserName>
      <Password></Password>
      <ConnectInterface></ConnectInterface>
      <InformPeriodicStatus></InformPeriodicStatus>
      <InformPeriodicInterval></InformPeriodicInterval>
    </CPE>
  </Configuration >
</CWMP>
```

Table description

Item	Description
Feature name	CWMP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Status	Status of the CWMP	N/A	Enumeration: • **enable**. • **disable**(default).

Column name	Column description	Column type	Data type and restrictions
ACS	ACS Settings	Data structure	Members include: • URL. • UserName. • Password.
URL	Status of the log buffer	N/A	String. Length: 8 to 255 characters. Must match the following formats: http://*host*[:*port*]/*path* or https://*host*[:*port*]/*path*
UserName	User name to access ACS	N/A	String. Length: 1 to 255 characters.
Password	Password to access ACS	N/A	String. Length: 1 to 255 characters. Only support password in plain text.
CPE	CPE Settings	Data structure	Members include: • UserName. • Password. • ConnectInterface. • InformPeriodicStatus. • InformPeriodicInterval.
UserName	User name to access CPE	N/A	String. Length: 1 to 255 characters. Case-sensitive and contains no comma(,),equal(=),double quotation marks(“) ,
Password	Password to access CPE	N/A	String. Length: 1 to 255 characters. Only support password in plain text.
ConnectInterface	CPE use this interface to send packets	N/A	String. Length: 2 to 47 characters.
InformPeriodicStatus	Enable or disable the periodic Inform feature of the CPE.	N/A	Enumeration: • **enable**. • **disable**(default).
InformPeriodicInterval	Configure the periodic Inform interval of the CPE.	N/A	Unsigned integer. Value range: 10 to 86400.

CWMP/Base

This table contains information about the CWMP Basic Settings.

XML structure

```
<CWMP>
  <Base>
    <WorkingMode></WorkingMode>
  </Base>
</CWMP>
```

Table description

Item	Description
Feature name	CWMP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
WorkingMode	Working mode of CWMP	N/A	Enumeration: • **general** • **telecom** • **unicom** The default value depends on device customization.

Contents

CWMP 1
CWMP/Configuration 1
XML structure 1
Table description 1
Columns 1
CWMP/Base 2
XML structure 2
Table description 2
Columns 3

CWMP

CWMP/Configuration

This table contains information about the CWMP Global Settings.

XML structure

```
<CWMP>
  <Configuration>
    <Status></Status>
    <ACS>
      <URL></URL>
      <UserName></UserName>
    </ACS>
    <CPE>
      <UserName></UserName>
      <ConnectInterface></ConnectInterface>
      <InformPeriodicStatus></InformPeriodicStatus>
      <InformPeriodicInterval></InformPeriodicInterval>
    </CPE>
  </Configuration>
</CWMP>
```

Table description

Item	Description
Feature name	CWMP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Status	Status of the CWMP	N/A	Enumeration: • **enable**. • **disable**(default).
ACS	ACS Settings	Data structure	Members include: • URL. • UserName.

Column name	Column description	Column type	Data type and restrictions
URL	Status of the log buffer	N/A	String. Length: 8 to 255 characters.
UserName	User name to access ACS	N/A	String. Length: 1 to 255 characters.
CPE	CPE Settings	Data structure	Members include: • UserName. • ConnectInterface. • InformPeriodicStatus. • InformPeriodicInterval.
UserName	User name to access CPE	N/A	String. Length: 1 to 255 characters.
ConnectInterface	CPE use this interface to send packets	N/A	String. Length: 2 to 47 characters.
InformPeriodicStatus	Enable or disable the periodic Inform feature of the CPE.	N/A	Enumeration: • **enable**. • **disable**(default).
InformPeriodicInterval	Configure the periodic Inform interval of the CPE.	N/A	Unsigned integer. Value range: 10 to 86400.

CWMP/Base

This table contains information about the CWMP Basic Settings.

XML structure

```
<CWMP>
  <Base>
    <WorkingMode></WorkingMode>
  </Base>
</CWMP>
```

Table description

Item	Description
Feature name	CWMP

Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
WorkingMode	Working mode of CWMP	N/A	Enumeration: • **general** • **telecom** • **unicom** The default value depends on device customization.

Contents

CWMP 2
CWMP/Configuration 2

CWMP

CWMP/Configuration

Message	Explanation
Failed to enable CWMP. CWMP启动失败。	Failed to start CWMP. 启动 CWMP 服务失败。
Please enable CWMP first. 请先使能CWMP。	First enable CWMP to do the replace, remove and delete operation. 请先使能CWMP，再做replace、remove或delete操作。
Please check that CWMP is enabled and the operations do not include disabling CWMP. CWMP未使能或者包含了关闭CWMP操作导致失败。	When CWMP is set to disable, it is forbidden to set other parameters. CWMP未使能时，不能设置CWMP相关参数。
The specified interface is not supported. 指定的接口不支持。	The specified interface type is not supported. 设备不支持制定接口类型。

Contents

DaeProxy 1
DaeProxy/DaeProxyService 1
XML structure 1
Table description 1
Columns 1
DaeProxy/DaeProxyClients 1
XML structure 2
Table description 2
Columns 2

DaeProxy

DaeProxy/DaeProxyService

The status table of the RADIUS Dynamic Authorization Extensions (DAE) proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyService>
    <Status></Status>
    <ServerPort></ServerPort>
  </DaeProxyService>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the RADIUS DAE proxy service.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.
ServerPort	UDP port number of the RADIUS DAE server feature.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

DaeProxy/DaeProxyClients

Client information table of the RADIUS DAE proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyClients>
    <DaeProxyClient>
      <IpType></IpType>
      <IpAddress></IpAddress>
       <Key></Key>
    </DaeProxyClient>
  </DaeProxyClients>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyClients
Table type	Multi-instance table
Row name	DaeProxyClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of the DAE client IP address.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6	**Only support IPv4 at present.**
IpAddress	IP address of the DAE client.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	**If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1.** **If the IpType value is 1, this column represents the IPv6 address of the client. For example, `2001:12::1:2`.**
Key	Shared key of the RADIUS packets exchanged between the DAE server and client.	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase	**The shared key is in plain text.**

Column name	Column description	Column type	Data type and restrictions	Remarks
			letters, lowercase letters, and special characters.	

Contents

DaeProxy 1
DaeProxy/DaeProxyService 1
XML structure 1
Table description 1
Columns 1
DaeProxy/DaeProxyClients 1
XML structure 2
Table description 2
Columns 2
DaeProxy/Statistic 3
XML structure 3
Table description 3
Columns 3

DaeProxy

DaeProxy/DaeProxyService

The status table of the RADIUS Dynamic Authorization Extensions (DAE) proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyService>
    <Status></Status>
    <ServerPort></ServerPort>
  </DaeProxyService>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the RADIUS DAE proxy service.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.
ServerPort	UDP port number of the RADIUS DAE server feature.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

DaeProxy/DaeProxyClients

Client information table of the RADIUS DAE proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyClients>
    <DaeProxyClient>
      <IpType></IpType>
      <IpAddress></IpAddress>
       <Key></Key>
    </DaeProxyClient>
  </DaeProxyClients>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyClients
Table type	Multi-instance table
Row name	DaeProxyClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of the DAE client IP address.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	Only support IPv4 at present.
IpAddress	IP address of the DAE client.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	**If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1.** If the IpType value is 1, this column represents the IPv6 address of the client. For example, `2001:12::1:2`.
Key	Shared key of the RADIUS packets exchanged between the DAE server and client.	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and	The shared key is in plain text.

Column name	Column description	Column type	Data type and restrictions	Remarks
			special characters.	

DaeProxy/Statistic

RADIUS DAE proxy statistics table.

XML structure

```
<DaeProxy>
  <Statistic>
    <DmReq></DmReq>
    <DmAck></DmAck>
    <DmNak></DmNak>
    <CoaReq></CoaReq>
    <CoaAck></CoaAck>
    <CoaNak></CoaNak>
    <ReTrans></ReTrans>
    <FindNasFail></FindNasFail>
    <SendToNasFail></SendToNasFail>
  </Statistic>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	Statistic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DmReq	Number of DM request packets.	N/A	Unsigned integer.
DmAck	Number of DM ACK packets.	N/A	Unsigned integer.
DmNak	Number of DM NAK packets.	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
CoaReq	Number of CoA request packets.	N/A	Unsigned integer.
CoaAck	Number of CoA ACK packets.	N/A	Unsigned integer.
CoaNak	Number of CoA NAK packets.	N/A	Unsigned integer.
ReTrans	Number of packets that the DAE client retransmits to the DAE server.	N/A	Unsigned integer.
FindNasFail	Number of packets for which the device can't locate the DAE server.	N/A	Unsigned integer.
SendToNasFail	Number of packets failed to send to the DAE server.	N/A	Unsigned integer.

Contents

DaeProxy 2
DaeProxy/DaeProxyService 2
DaeProxy/DaeProxyClients 2

DaeProxy

DaeProxy/DaeProxyService

Message	Explanation
Can't set the DAE listening port when disabling RADIUS DAE proxy. " 关闭RADIUS DAE代理功能的同时不能设置DAE服务器的监听端口。	Can't set the DAE listening port when disabling RADIUS DAE proxy. " 关闭RADIUS DAE代理功能的同时不能设置DAE服务器的监听端口。
Can't set the DAE listening port when RADIUS DAE proxy is disabled. RADIUS DAE代理功能处于关闭状态时不能设置DAE服务器的监听端口。	Can't set the DAE listening port when RADIUS DAE proxy is disabled. RADIUS DAE代理功能处于关闭状态时不能设置DAE服务器的监听端口。

DaeProxy/DaeProxyClients

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Contents

DFILTER 1
DFILTER/Policy 1
XML structure 1
Table description 1
Columns 1
DFILTER/PolicyInProfile 1
XML structure 2
Table description 2
Columns 2
DFILTER/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
DFILTER/KGroup 4
XML structure 4
Table description 4
Columns 4
DFILTER/PatternInKGroup 4
XML structure 4
Table description 5
Columns 5
DFILTER/PrePatternInKGroup 5
XML structure 5
Table description 6
Columns 6

DFILTER

DFILTER/Policy

This table contains data filter policie information.

XML structure

```
<DFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the data filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the data filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PolicyInProfile

This table contains data filter policies applied to the profile.

XML structure

```
<DFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

DFILTER/RuleInPolicy

This table contains the information of rules in a data filter policy.

XML structure

```
<DFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <KGroupName></KGroupName>
      <Application></Application>
      <Direction></Direction>
```

```
      <Action></Action>
      <Logging></Logging>
    </Rule>
  </RuleInPolicy>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupName	Name of the keyword-group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: • 1—HTTP • 2—FTP • 4—SMTP • 8—IMAP • 16—POP3 • 32—NFS • 64—SMB • 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: • 0—upload • 1—download • 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: • 0—drop • 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: • true • false	N/A

DFILTER/KGroup

This table contains data filter keyword group information.

XML structure

```
<DFILTER>
  <KGroups>
    <KGroup>
      <KGroupName></KGroupName>
      <KGroupDescription></KGroupDescription>
    </KGroup>
  </KGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	KGroups
Table type	Multi-instance table
Row name	KGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupDescription	Description of the keyword group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PatternInKGroup

This table contains information about user-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PatternInKGroups>
```

```
    <PatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
      <PatternType></PatternType>
      <PatternValue></PatternValue>
    </PatternInKGroup>
  </PatternInKGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PatternInKGroups
Table type	Multi-instance table
Row name	PatternInKGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the user-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternType	Type of the user-defined pattern	N/A	Enumeration: • 0—Text. • 1—Regex.	N/A
PatternValue	Value of the user-defined pattern	N/A	String. Length: 3 to 245 characters.	N/A

DFILTER/PrePatternInKGroup

This table contains information about pre-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PrePatternInKGroups>
    <PrePatternInKGroup>
      <KGroupName></KGroupName>
```

```
      <PatternName></PatternName>
    </PrePatternInKGroup>
  </PrePatternInKGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PrePatternInKGroups
Table type	Multi-instance table
Row name	PrePatternInKGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pre-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	The pattern name includes bank-card-number,credit-card-number,id-card-number and phone-number

Contents

DFILTER 1
DFILTER/Policy 1
XML structure 1
Table description 1
Columns 1
DFILTER/PolicyInProfile 1
XML structure 1
Table description 2
Columns 2
DFILTER/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
DFILTER/KGroup 3
XML structure 4
Table description 4
Columns 4
DFILTER/PatternInKGroup 4
XML structure 4
Table description 5
Columns 5
DFILTER/PrePatternInKGroup 5
XML structure 5
Table description 6
Columns 6

DFILTER

DFILTER/Policy

This table contains data filter policie information.

XML structure

```
<DFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the data filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the data filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PolicyInProfile

This table contains data filter policies applied to the profile.

XML structure

```
<DFILTER>
```

```
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

DFILTER/RuleInPolicy

This table contains information about rules in a data filter policy.

XML structure

```
<DFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <KGroupName></KGroupName>
      <Application></Application>
      <Direction></Direction>
      <Action></Action>
      <Logging></Logging>
    </Rule>
  </RuleInPolicy>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupName	Name of the keyword-group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: • 1—HTTP • 2—FTP • 4—SMTP • 8—IMAP • 16—POP3 • 32—NFS • 64—SMB • 128—RTMP	Examples: • 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: • 0—upload. • 1—download • 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: • 0—drop. • 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: • true. • false.	N/A

DFILTER/KGroup

This table contains data filter keyword groups information.

XML structure

```
<DFILTER>
  <KGroups>
    <KGroup>
      <KGroupName></KGroupName>
      <KGroupDescription></KGroupDescription>
    </KGroup>
  </KGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	KGroups
Table type	Multi-instance table
Row name	KGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupDescription	Description of the keyword group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PatternInKGroup

This table contains information about user-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PatternInKGroups>
    <PatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
      <PatternType></PatternType>
      <PatternValue></PatternValue>
    </PatternInKGroup>
  </PatternInKGroups>
```

```
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PatternInKGroups
Table type	Multi-instance table
Row name	PatternInKGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the user-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternType	Type of the user-defined pattern	N/A	Enumeration: • 0—Text. • 1—Regex.	N/A
PatternValue	Value of the user-defined pattern	N/A	String. Length: 3 to 245 characters.	N/A

DFILTER/PrePatternInKGroup

This table contains information about pre-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PrePatternInKGroups>
    <PrePatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
    </PrePatternInKGroup>
  </PrePatternInKGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PrePatternInKGroups
Table type	Multi-instance table
Row name	PrePatternInKGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pre-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	The pattern name includes bank-card-number,credit-card-number,id-card-number and phone-number

Contents

DFILTER 1
DFILTER/Policy 1
DFILTER/RuleInPolicy 1
DFILTER/KGroup 1

DFILTER

DFILTER/Policy

Message	Explanation
The signature file is updating. Please try again later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
The default policy cannot be created. 默认策略不允许创建。	The default policy cannot be created. 默认策略不允许创建。
The default policy cannot be deleted. 默认策略不允许删除。	The default policy cannot be deleted. 默认策略不允许删除。
The default policy cannot be modified. 默认策略不允许修改。	The default policy cannot be modified. 默认策略不允许修改。
The policy is being used by a DPI application profile and cannot be deleted. 策略已被某个App-profile引用，不能被删除。	A policy cannot be deleted when it is being used by a DPI application profile. 不能删除被引用的策略。

DFILTER/RuleInPolicy

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
Maximum number of rules has already reached. 策略下的规则数目已达到上限。	The maximum number of rules has already reached. 可配置的规则数已达上限。

DFILTER/KGroup

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
The default keyword group cannot be created. 默认关键字组不允许创建。	The default keyword group cannot be created. 默认关键字组不允许创建。
The default keyword group cannot be deleted. 默认关键字组不允许删除。	The default keyword group cannot be deleted. 默认关键字组不允许删除。
The default keyword group cannot be used by a non-default policy. 默认关键字组不允许被非默认策略引用。	The default keyword group cannot be used by a non-default policy. 默认关键字组不允许被非默认策略引用。
The default keyword group cannot be modified.	The default keyword group cannot be modified.

默认关键字组不允许修改。	默认关键字组不允许修改。
The keyword group is being used by a rule and cannot be deleted. 关键字组已被某个规则引用，不能被删除。	A keyword group cannot be deleted when it is used by a rule. 不能删除被引用的关键字组。
Maximum number of patterns has already reached. 关键字组下的关键字数目已达到上限。	The maximum number of patterns has already reached. 可配置的关键字数已达上限。
Invalid regular pattern expression. 无效的正则表达式。	The regular pattern is not valid. 配置的正则表达式不合法。

Contents

DDNS 1
DDNS/DDNSPolicy 1
XML structure 1
Table description 1
Columns 1
DDNS/DDNSIfApply 4
XML structure 4
Table description 4
Columns 5

DDNS

DDNS/DDNSPolicy

This table contains DNS policy configuration information.

XML structure

```
<DDNS>
  <DDNSPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <URL></URL>
      <IntervalDay></IntervalDay>
      <IntervalHour></IntervalHour>
      <IntervalMinute></IntervalMinute>
      <Username></Username>
      <Password></Password>
      <Method></Method>
      <SSLClientPolicy></SSLClientPolicy>
    </Policy>
  </DDNSPolicy>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A
URL	URL address	N/A	String, case	The URL addresses configured for update requests depend

Column name	Column description	Column type	Data type and restrictions	Remarks
	for DDNS update requests		sensitive. Length: 1 to 240 characters.	on the DDNS servers. Common DDNS server URL address format are shown in following table. DDNS server: URL addresses for DDNS update requests www.3322.org: http://members.3322.org/dyndns/update?system=dyndns&hostname=<h>&myip=<a> DYNDNS: http://members.dyndns.org/nic/update?system=dyndns&hostname=<h>&myip=<a> DYNS: http://www.dyns.cx/postscript.php?host=<h>&ip=<a> ZONEEDIT: http://dynamic.zoneedit.com/auth/dynamic.html?host=<h>&dnsto=<a> TZO: http://cgi.tzo.com/webclient/signedon.html?TZOName=<h>IPAddress=<a> EASYDNS: http://members.easydns.com/dyn/ez-ipupdate.php?action=edit&myip=<a>&host_id=<h> HEIPV6TB: http://dyn.dns.he.net/nic/update?hostname=<h>&myip=<a> CHANGE-IP: http://nic.changeip.com/nic/update?hostname=<h>&offline=1 NO-IP: http://dynupdate.no-ip.com/nic/update?hostname=<h>&myip=<a> DHS: http://members.dhs.org/nic/hosts?domain=dyn.dhs.org&hostname=<h>&hostscmd=edit&hostscmdstage=2&type=1&ip=<a> HP: https://*server-name*/nic/update?group=*group-name*&myip=<a> ODS: ods://update.ods.org GNUDIP: gnudip://*server-name* PeanutHull: oray://phservice2.oray.net No username or password is included in the URL address. To configure the username and password, use the username command and the password command. HP and GNUDIP are common DDNS update protocols. The *server-name* parameter is the domain name or IP address of the service provider's server using one of the update protocols. The URL address for an update request can start with: http://—The HTTP-based DDNS server. https://—The HTTPS-based DDNS server. ods://—The TCP-based ODS server. gnudip://—The TCP-based GNUDIP server. oray://—The TCP-based DDNS server. members.3322.org and phservice2.oray.net are the domain names of DDNS servers. The domain names of PeanutHull DDNS servers can be phservice2.oray.net,

Column name	Column description	Column type	Data type and restrictions	Remarks
				phddns60.oray.net, client.oray.net, ph031.oray.net, and so on. Determine the domain name in the URL according to the actual situation. The port number in the URL address is optional. If no port number is specified, the default port number is used. HTTP uses port 80, HTTPS uses port 443, and the PeanutHull server uses port 6060. The system automatically performs the following operations: Fills <h> with the FQDN that is specified when the DDNS policy is applied to the interface. Fills <a> with the primary IP address of the interface to which the DDNS policy is applied. You might also manually specify an FQDN and an IP address in <h> and <a>, respectively. After that, the FQDN that is specified when the DDNS policy is applied becomes ineffective. However, manual configuration of <h> and <a> is not recommended. You cannot specify an FQDN and IP address in the URL address for contacting the PeanutHull server. Alternatively, you can specify an FQDN when applying the DDNS policy to an interface. The system automatically uses the primary IP address of the interface to which the DDNS policy is applied as the IP address for DDNS update. To avoid misinterpretation, do not include colons (:), at signs (@), and question marks (?) in your login ID or password, even if you can do so. If you use the url command multiple times with different URL addresses, the most recent configuration takes effect.
IntervalDay	Interval for sending DDNS update requests after DDNS update is enabled (Day)	N/A	Unsigned integer. Value range: 0 to 365 days. Default: 0.	It must be configured together with the IntervalHour column and IntervalMinute column. If you set the interval to 0, the device does not periodically initiate DDNS update request. However, it initiates a DDNS update request in either of the following situations: • When the primary IP address of the interface changes. • When the link state of the interface changes from down to up.
IntervalHour	Interval for sending DDNS update requests after DDNS update is enabled (Hour)	N/A	Unsigned integer. Value range: 0 to 23 hours. Default: 1.	It must be configured together with the IntervalDay column and IntervalMinute column.
IntervalMinute	Interval for sending DDNS update requests after DDNS update is enabled (minute)	N/A	Unsigned integer. Value range: 0 to 59 minutes. Default: 0.	It must be configured together with the IntervalDay column and IntervalHour column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Username	Username to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Password	Password to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	Support for configuring in plain text only.
Method	Transmission method for sending DDNS update requests to HTTP/HTTPS-based DDNS servers	N/A	Enumeration: • **0**—Http-get (default). • **1**—Http-post.	N/A
SSLClient Policy	Associate a specific SSL client policy with a DDNS policy	N/A	String, case insensitive. Length: 1 to 31 characters.	The SSL client policy is effective only for HTTPS-based DDNS update requests.

DDNS/DDNSIfApply

This table contains DDNS policy applying configuration information.

XML structure

```
<DDNS>
  <DDNSIfApply>
    <IfApply>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <FQDN></FQDN>
    </IfApply>
  </DDNSIfApply>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS

Table name	DDNSIfApply
Table type	Multi-instance table
Row name	IfApply
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A
FQDN	Type of the DNS server IP address	N/A	String, case insensitive. Length: 1 to 253 characters.	Specifies the FQDN to replace <h> in the URL for DDNS update. It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Contents

DDNS 1
DDNS/DDNSPolicy 1
XML structure 1
Table description 1
Columns 1
DDNS/DDNSIfApply 4
XML structure 4
Table description 5
Columns 5

DDNS

DDNS/DDNSPolicy

This table contains DNS policy configuration information.

XML structure

```
<DDNS>
  <DDNSPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <URL></URL>
      <IntervalDay></IntervalDay>
      <IntervalHour></IntervalHour>
      <IntervalMinute></IntervalMinute>
      <Username></Username>
      <Password></Password>
      <Method></Method>
      <SSLClientPolicy></SSLClientPolicy>
    </Policy>
  </DDNSPolicy>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A
URL	URL address for DDNS update	N/A	String, case sensitive. Length: 1 to	The URL addresses configured for update requests depend on the DDNS servers. Common DDNS server URL address format are shown in following table.

Column name	Column description	Column type	Data type and restrictions	Remarks
	requests		240 characters.	

DDNS server	URL addresses for DDNS update requests
www.3322.org	http://members.3322.org/dyndns/update?system=dyndns&hostname=<h>&myip=<a>
DYNDNS	http://members.dyndns.org/nic/update?system=dyndns&hostname=<h>&myip=<a>
DYNS	http://www.dyns.cx/postscript.php?host=<h>&ip=<a>
ZONEEDIT	http://dynamic.zoneedit.com/auth/dynamic.html?host=<h>&dnsto=<a>
TZO	http://cgi.tzo.com/webclient/signedon.html?TZOName=<h>IPAddress=<a>
EASYDNS	http://members.easydns.com/dyn/ez-ipupdate.php?action=edit&myip=<a>&host_id=<h>
HEIPV6TB	http://dyn.dns.he.net/nic/update?hostname=<h>&myip=<a>
CHANGE-IP	http://nic.changeip.com/nic/update?hostname=<h>&offline=1
NO-IP	http://dynupdate.no-ip.com/nic/update?hostname=<h>&myip=<a>
DHS	http://members.dhs.org/nic/hosts?domain=dyn.dhs.org&hostname=<h>&hostscmd=edit&hostscmdstage=2&type=1&ip=<a>
HP	https://*server-name*/nic/update?group=*group-name*&myip=<a>
ODS	ods://update.ods.org
GNUDIP	gnudip://*server-name*
PeanutHull	oray://phservice2.oray.net

No username or password is included in the URL address. To configure the username and password, use the username command and the password command.

HP and GNUDIP are common DDNS update protocols. The *server-name* parameter is the domain name or IP address of the service provider's server using one of the update protocols.

The URL address for an update request can start with:

http://—The HTTP-based DDNS server.

https://—The HTTPS-based DDNS server.

ods://—The TCP-based ODS server.

gnudip://—The TCP-based GNUDIP server.

oray://—The TCP-based DDNS server.

members.3322.org and phservice2.oray.net are the domain names of DDNS servers. The domain names of PeanutHull DDNS servers can be phservice2.oray.net, phddns60.oray.net, client.oray.net, ph031.oray.net, and so on. Determine the domain name in the URL according to the

Column name	Column description	Column type	Data type and restrictions	Remarks
				actual situation. The port number in the URL address is optional. If no port number is specified, the default port number is used. HTTP uses port 80, HTTPS uses port 443, and the PeanutHull server uses port 6060. The system automatically performs the following operations: Fills <h> with the FQDN that is specified when the DDNS policy is applied to the interface. Fills <a> with the primary IP address of the interface to which the DDNS policy is applied. You might also manually specify an FQDN and an IP address in <h> and <a>, respectively. After that, the FQDN that is specified when the DDNS policy is applied becomes ineffective. However, manual configuration of <h> and <a> is not recommended. You cannot specify an FQDN and IP address in the URL address for contacting the PeanutHull server. Alternatively, you can specify an FQDN when applying the DDNS policy to an interface. The system automatically uses the primary IP address of the interface to which the DDNS policy is applied as the IP address for DDNS update. To avoid misinterpretation, do not include colons (:), at signs (@), and question marks (?) in your login ID or password, even if you can do so. If you use the url command multiple times with different URL addresses, the most recent configuration takes effect.
IntervalDay	Interval for sending DDNS update requests after DDNS update is enabled (Day)	N/A	Unsigned integer. Value range: 0 to 365 days.	It must be configured together with the IntervalHour column and IntervalMinute column. If you set the interval to 0, the device does not periodically initiate DDNS update request. However, it initiates a DDNS update request in either of the following situations: • When the primary IP address of the interface changes. • When the link state of the interface changes from down to up.
IntervalHour	Interval for sending DDNS update requests after DDNS update is enabled (Hour)	N/A	Unsigned integer. Value range: 0 to 23 hours.	It must be configured together with the IntervalDay column and IntervalMinute column.
IntervalMinute	Interval for sending DDNS update requests after DDNS update is enabled (minute)	N/A	Unsigned integer. Value range: 0 to 59 minutes.	It must be configured together with the IntervalDay column and IntervalHour column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Username	Username to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Password	Password to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Method	Transmission method for sending DDNS update requests to HTTP/HTTPS-based DDNS servers	N/A	Enumeration: • **0**—Http-get • **1**—Http-post.	N/A
SSLClient Policy	Associate a specific SSL client policy with a DDNS policy	N/A	String, case insensitive. Length: 1 to 31 characters.	The SSL client policy is effective only for HTTPS-based DDNS update requests.

DDNS/DDNSIfApply

This table contains DDNS policy applying configuration information.

XML structure

```
<DDNS>
  <DDNSIfApply>
    <IfApply>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <IfName></IfName>
      <FQDN></FQDN>
    </IfApply>
  </DDNSIfApply>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSIfApply
Table type	Multi-instance table
Row name	IfApply
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
FQDN	Type of the DNS server IP address	N/A	String, case insensitive. Length: 1 to 253 characters.	Specifies the FQDN to replace <h> in the URL for DDNS update. It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Contents

DDNS 1
DDNS/DDNSPolicy 1
DDNS/DDNSIfApply 1

DDNS

DDNS/DDNSPolicy

Message	Explanation
The URL can't include the username or password. Enter the username and password in the corresponding fields. 服务器地址中不能包含登录用户名和登录密码，请在登录用户名和登录密码中填写。	The URL can't include the username or password. Enter the username and password in the corresponding fields , please modify configuration under guidance. 服务器地址中不能包含登录用户名和登录密码，请在登录用户名和登录密码中填写，请按照配置说明修改
Maximum number of DDNS policies already reached. 动态DNS策略个数超过上限。	Maximum number of DDNS policies already reached. Please check configuration or specifications 动态DNS策略个数超过上限。请检查配置或者设备规格
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 当前配置不符合配置要求，请按照配置说明修改

DDNS/DDNSIfApply

Message	Explanation
Maximum number of DDNS policies applied on the interface already reached. 在该接口上应用的动态DNS策略个数超过上限。	Maximum number of DDNS policies applied on the interface already reached .Please check configuration or specifications 在该接口上应用的动态DNS策略个数超过上限。 请检查配置或者设备规格
Failed to apply the DDNS policy. 应用动态DNS策略失败。	Failed to apply the DDNS policy, please modify configuration under guidance. 应用动态DNS策略失败，请按照配置说明修改

Contents

DDR 1
DDR/DiaGroupRule 1
XML structure 1
Table description 1
Columns 1
DDR/Bundle 2
XML structure 2
Table description 2
Columns 3
DDR/IfDiaGroup 3
XML structure 3
Table description 3
Columns 4
DDR/DDRAutodial 4
XML structure 4
Table description 5
Columns 5
DDR/DDRIdle 5
XML structure 5
Table description 6
Columns 6
DDR/DDRCircularEnable 7
XML structure 7
Table description 7
Columns 7
DDR/DDRDialNumber 8
XML structure 8
Table description 8
Columns 9

DDR

DDR/DiaGroupRule

This table contains dialer-group rule information.

XML structure

```
<DDR>
  <DiaGroupRule>
    <GroupRule>
      <GroupNumber></GroupNumber>
      <IpProtocol></IpProtocol>
      <IpPermit></IpPermit>
      <AclNum></AclNum>
      <AclName></AclName>
    </GroupRule>
  </DiaGroupRule>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DiaGroupRule
Table type	Multi-instance table
Row name	GroupRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Dialer-group rule *group-number*	Index	Unsigned integer. Value range: 1 to 255	N/A
IpProtocol	Dialer-group rule ip protocol	Index	Enumeration: • **0**—IPv4 protocol • **1**—IPv6 protocol	N/A
IpPermit	Denies or permits	N/A	Boolean:	IpPermit AclNum

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets of the specified protocol		• **false** • true	AclName are mutually exclusive relationship. When executing the create, merge, replace operation must and only be use one of IpPermit, AclNum, AclName. When performing the delete, remove operation, one of IpPermit, AclNum or AclName don't need.
AclNum	Specifies an ACL by its number	N/A	Unsigned integer. Value range: 2000 to 3999	N/A
AclName	Specifies an ACL by its name	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter *a* to *z* or *A* to *Z*. The ACL name cannot be **all** in any combination of upper- and lower-case letters.

DDR/Bundle

This table contains the dialer bundle enable of DDR information.

XML structure

```
<DDR>
  <Bundle>
    <DiaBundle>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </DiaBundle>
  </Bundle>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	Bundle
Table type	Multi-instance table

Row name	DiaBundle
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using bundle DDR, use it to enable bundle DDR on a dialer interface.	N/A	Boolean: • **true** • **false (default)**	N/A

DDR/IfDiaGroup

This table contains the dialer group of DDR information.

XML structure

```
<DDR>
  <IfDiaGroup>
    <DiaGroup>
      <IfIndex></IfIndex>
      <Num></Num>
    </DiaGroup>
  </IfDiaGroup>
</DDR>
```

Table description

Item	Description
Feature name	DDR

Table name	IfDiaGroup
Table type	Multi-instance table
Row name	DiaGroup
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	Specifies a dialer groupby its number in the range of 1 to 255. Before the assignment, you must enable bundle DDR or traditional DDR.	N/A	Unsigned interger. Value range:1 to 255.	N/A

DDR/DDRAutodial

This table contains the information about using **dialer timer autodial** to set the auto-dial timer.

XML structure

```
<DDR>
  <DDRAutodial>
    <Autodial>
      <IfIndex></IfIndex>
      <Time></Time>
    </Autodial>
  </DDRAutodial>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRAutodial
Table type	Multi-instance table
Row name	Autodial
Restrictions	This table supports interface types: am interface bri interface/subinterface asy interface aux interface serial interface dialer interface ethchannel interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	Time of auto-dial	N/A	Unsigned integer. Value range: 1 to 604800. Default: 300.	Specifies the interval between auto-dial attempts.

DDR/DDRIdle

This table contains the information about using **dialer timer idle** to set the link idle-timeout timer.

XML structure

```
<DDR>
```

```
  <DDRIdle>
    <Idle>
      <IfIndex></IfIndex>
      <Time></Time>
      <Direct></Direct>
   </Idle>
  </DDRIdle>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRIdle
Table type	Multi-instance table
Row name	Idle
Restrictions	This table supports interface types: am interface bri interface/subinterface asy interface aux interface serial interface dialer interface ethchannel interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	link idle-timeout timer	N/A	Unsigned integer. Value range: 0 to 65535. Default: 120.	Specifies the link idle-timeout timer value.

Column name	Column description	Column type	Data type and restrictions	Remarks
Direct	Direct of interesting packets timer	N/A	Unsigned integer. • 1—OUT. • 2—IN. • 3—INOUT.	Specifies the Direct of interesting packets timer.

DDR/DDRCircularEnable

This table contains the information about using **dialer circular enable** to enable traditional DDR on a dialup interface.

XML structure

```
<DDR>
  <DDRCircularEnable>
    <CircularEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </CircularEnable>
  </DDRCircularEnable>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRCircularEnable
Table type	Multi-instance table
Row name	CircularEnable
Restrictions	This table supports interface types: Dialup interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using traditional DDR, use it to enable traditional DDR on the dialup interface.	N/A	Boolean: • **true** • **false (default)**	N/A

DDR/DDRDialNumber

This table contains the information about using **dialer number** to configure a dial string for placing calls to a single remote site.

XML structure

```
<DDR>
  <DDRDialNumber>
    <DialNumber>
      <IfIndex></IfIndex>
      <Num></Num>
      <AutoDial></AutoDial>
    </DialNumber>
  </DDRDialNumber>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRDialNumber
Table type	Multi-instance table
Row name	DialNumber
Restrictions	This table supports interface types: Dialup interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	A dial string for calling a remote site	N/A	String,case-insensitiv. Length: 1 to 30 characters.	Specifies a dial string for calling a remote site, a case-insensitive string of 1 to 30 characters.
AutoDial	Automatically dial the remote site	N/A	Unsigned integer. • **0**—NOTAUTO**(default)**. • **1**—AUTO	Enables the interface to automatically dial the remote site by using the specified dial string at specified intervals. The interval is set in the dialer timer autodial command and defaults to 300 seconds.

Contents

DDR 1
DDR/DiaGroupRule 1
XML structure 1
Table description 1
Columns 1
DDR/Bundle 2
XML structure 2
Table description 2
Columns 2
DDR/IfDiaGroup 3
XML structure 3
Table description 3
Columns 3
DDR/DDRAutodial 4
XML structure 4
Table description 4
Columns 5
DDR/DDRIdle 5
XML structure 5
Table description 5
Columns 6
DDR/DDRCircularEnable 6
XML structure 6
Table description 7
Columns 7
DDR/DDRDialNumber 7
XML structure 7
Table description 8
Columns 8

DDR

DDR/DiaGroupRule

This table contains dialer-group rule information.

XML structure

```
<DDR>
  <DiaGroupRule>
    <GroupRule>
      <GroupNumber></GroupNumber>
      <IpProtocol></IpProtocol>
      <IpPermit></IpPermit>
      <AclNum></AclNum>
      <AclName></AclName>
    </GroupRule>
  </DiaGroupRule>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DiaGroupRule
Table type	Multi-instance table
Row name	GroupRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	Dialer-group rule group-number	Index	Unsigned integer. Value range: 1 to 255
IpProtocol	Dialer-group rule ip protocol	Index	Enumeration: • **0**—IPv4 protocol • **1**—IPv6 protocol
IpPermit	Denies or permits packets of the specified protocol	N/A	Boolean: • **false**

Column name	Column description	Column type	Data type and restrictions
AclNum	Specifies an ACL by its number	N/A	• **true** Unsigned integer. Value range: 2000 to 3999
AclName	Specifies an ACL by its name	N/A	String, case insensitive. Length: 1 to 63 characters.

DDR/Bundle

This table contains the dialer bundle enable of DDR information.

XML structure

```
<DDR>
  <Bundle>
    <DiaBundle>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </DiaBundle>
  </Bundle>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	Bundle
Table type	Multi-instance table
Row name	DiaBundle
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using bundle DDR, use it to enable bundle DDR on a dialer interface.	N/A	Boolean: • **true** • **false**	N/A

DDR/IfDiaGroup

This table contains the dialer group of DDR information.

XML structure

```
<DDR>
  <IfDiaGroup>
    <DiaGroup>
      <IfIndex></IfIndex>
      <Num></Num>
    </DiaGroup>
  </IfDiaGroup>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	IfDiaGroup
Table type	Multi-instance table
Row name	DiaGroup
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	Specifies a dialer groupby its number in the range of 1 to 255. Before the assignment, you must create the dialer group.	N/A	Unsigned interger. Value range:1 to 255.	N/A

DDR/DDRAutodial

This table contains the information about using **dialer timer autodial** to set the auto-dial timer.

XML structure

```
<DDR>
  <DDRAutodial>
    <Autodial>
      <IfIndex></IfIndex>
      <Time></Time>
    </Autodial>
  </DDRAutodial>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRAutodial
Table type	Multi-instance table
Row name	Autodial
Restrictions	This table supports interface types: am interface bri interface/subinterface

			asy interface aux interface serial interface dialer interface ethchannel interface	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	Time of uto-dial.	N/A	Unsigned integer. Value range: 1 to 604800.	N/A

DDR/DDRIdle

This table contains the information about using **dialer timer idle** to set the link idle-timeout timer.

XML structure

```
<DDR>
  <DDRIdle>
    <Idle>
      <IfIndex></IfIndex>
      <Time></Time>
      <Direct></Direct>
   </Idle>
  </DDRIdle>
</DDR>
```

Table description

Item	Description
Feature name	DDR

Table name	DDRIdle
Table type	Multi-instance table
Row name	Idle
Restrictions	This table supports interface types: am interface bri interface/subinterface asy interface aux interface serial interface dialer interface ethchannel interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	link idle-timeout timer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Direct	Direct of interesting packets timer	N/A	Unsigned integer. • 1—OUT. • 2—IN. • 3—INOUT.	N/A

DDR/DDRCircularEnable

This table contains the information about using dialer circular enable to enable traditional DDR on a dialup interface.

XML structure

```
<DDR>
  <DDRCircularEnable>
    <CircularEnable>
      <IfIndex></IfIndex>
```

```
    <Enable></Enable>
  </CircularEnable>
 </DDRCircularEnable>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRCircularEnable
Table type	Multi-instance table
Row name	CircularEnable
Restrictions	This table supports interface types: Dialup interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using traditional DDR, use it to enable traditional DDR on the dialup interface.	N/A	Boolean: • **true** • **false**	N/A

DDR/DDRDialNumber

This table contains the information about using **dialer number** to configure a dial string for placing calls to a single remote site.

XML structure

```
<DDR>
  <DDRDialNumber>
```

```
    <DialNumber>
      <IfIndex></IfIndex>
      <Num></Num>
      <AutoDial></AutoDial>
    </DialNumber>
  </DDRDialNumber>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DDRDialNumber
Table type	Multi-instance table
Row name	DialNumber
Restrictions	This table supports interface types: Dialup interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	A dial string for calling a remote site	N/A	String,case-insensitiv. Length: 1 to 30 characters.	N/A
AutoDial	Automatically dial the remote site	N/A	Unsigned integer. • **0**—NOTAUTO • **1**—AUTO.	N/A

Contents

Comware 7 DDR NETCONF XML API Error Message Reference ····· 1
DDR/DDRDialNumber ····· 1
DDR/DiaGroupRule ····· 1
DDR/DDRAutodial ····· 1
DDR/DDRIdle ····· 1
DDR/IfDiaGroup ····· 1

Comware 7 DDR NETCONF XML API Error Message Reference

DDR/DDRDialNumber

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
Enable DDR first. DDR未使能。	This message means DDR not be configured. 没有DDR特性。

DDR/DiaGroupRule

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
Invalid Acl Name. 非法的ACL名称。	Invalid Acl Name. 非法的ACL名称。

DDR/DDRAutodial

Message	Explanation
Enable DDR first. DDR未使能。	This message means DDR not be configured. 没有DDR特性。

DDR/DDRIdle

Message	Explanation
Enable DDR first. DDR未使能。	This message means DDR not be configured. 没有DDR特性。

DDR/IfDiaGroup

Message	Explanation
Enable DDR first. DDR未使能。	This message means DDR not be configured. 没有DDR特性。

Contents

Deception 1

Deception/Switch 1
XML structure 1
Table description 1
Columns 1
Deception/Decoy 1
XML structure 1
Table description 2
Columns 2
Deception/GlobalCfg 2
XML structure 2
Table description 3
Columns 3
Deception/AllowListIPv4Objs 3
XML structure 3
Table description 4
Columns 4
Deception/DecoyIPv4Objs 4
XML structure 4
Table description 5
Columns 5
Deception/DetectIPv4Objs 5
XML structure 5
Table description 6
Columns 6

Deception

Deception/Switch

This table contains deception switch configuration.

XML structure

```
<Deception>
  <Switch>
    <Enable></Enable>
  </Switch>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Deception switch.	N/A	Boolean: • true. • false (default).	N/A

Deception/Decoy

This table contains decoy server configuration.

XML structure

```
<Deception>
  <Decoy>
    <RemoteIP></RemoteIP>
    <RemotePort></RemotePort>
```

```
    <LocalIP></LocalIP>
    <VrfName></VrfName>
  </Decoy>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	Decoy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteIP	IP address of the decoy server	N/A	String, dotted decimal notation.	Required.
RemotePort	Service port number of the decoy server	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalIP	IP address of the device to communicate with the decoy server	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case sensitive. Length: 0 to 31 characters.	An empty string represents the public network.

Deception/GlobalCfg

This table contains global deception configuration.

XML structure

```
<Deception>
  <GlobalCfg>
    <StrictMode></StrictMode>
    <IPDetectRate></IPDetectRate>
    <ARPReqThreshold></ARPReqThreshold>
  </GlobalCfg>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeceptionMode	Strict deception mode	N/A	Boolean: • true—Enable. • false—Disable(default).	N/A
IPDetectRate	Rate of scanning online IPs	N/A	Unsigned integer. Value range: 10 to 512.	Default: 30 packets per second.
ARPReqThreshold	ARP scan threshold	N/A	Unsigned integer. Value range: 1 to 20000.	Default: 10 packets per 10 seconds.

Deception/AllowListIPv4Objs

This table contains IPv4 deception allowlist object configuration.

XML structure

```
<Deception>
  <AllowListIPv4Objs>
    <IPv4Obj>
     <ID></ID>
     <Type></Type>
     <IPv4Addr></IPv4Addr>
     <IPv4Mask></IPv4Mask>
     <VrfName></VrfName>
    </IPv4Obj>
  </AllowListIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	WhiteListIPv4Objs
Table type	Multi-instance table
Row name	IPv4Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of an IPv4 allowlist object	Index	Unsigned integer. Value range: 0 to 50.	Value 0 indicates an automatically assigned ID.
Type	Object type	N/A	• **0**—Source (default). • **1**—Destination.	N/A
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Deception/DecoyIPv4Objs

This table contains IPv4 decoy object configuration.

XML structure

```
<Deception>
  <DecoyIPv4Objs>
    <IPv4Obj>
     <ID></ID>
     <IPv4Addr></IPv4Addr>
     <IPv4Mask></IPv4Mask>
     <VrfName></VrfName>
    </IPv4Obj>
  </DecoyIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	DecoyIPv4Objs
Table type	Multi-instance table
Row name	IPv4Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of an IPv4 decoy object	Index	Unsigned integer. Value range: 0 to 50.	Value 0 indicates an automatically assigned ID.
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Deception/DetectIPv4Objs

This table contains IPv4 detected object configuration.

XML structure

```
<Deception>
  <DetectIPv4Objs>
    <IPv4Obj>
      <ID></ID>
      <IPv4Addr></IPv4Addr>
      <IPv4Mask></IPv4Mask>
      <VrfName></VrfName>
    </IPv4Obj>
  </DetectIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	DetectIPv4Objs
Table type	Multi-instance table
Row name	IPv4Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of an IPv4 detected object	Index	Unsigned integer. Value range: 0 to 50.	Value 0 indicates an automatically assigned ID.
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Contents

Deception 1

Deception/Switch 1
XML structure 1
Table description 1
Columns 1
Deception/Decoy 1
XML structure 1
Table description 2
Columns 2
Deception/GlobalCfg 2
XML structure 2
Table description 3
Columns 3
Deception/AllowListIPv4Objs 3
XML structure 3
Table description 3
Columns 4
Deception/DecoyIPv4Objs 4
XML structure 4
Table description 4
Columns 5
Deception/DetectIPv4Objs 5
XML structure 5
Table description 5
Columns 6

Deception

Deception/Switch

This table contains deception switch configuration.

XML structure

```
<Deception>
  <Switch>
    <Enable></Enable>
  </Switch>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Deception switch.	N/A	Boolean: • true. • false.	N/A

Deception/Decoy

This table contains decoy server configuration.

XML structure

```
<Deception>
  <Decoy>
    <RemoteIP></RemoteIP>
    <RemotePort></RemotePort>
    <LocalIP></LocalIP>
```

```
    <VrfName></VrfName>
  </Decoy>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	Decoy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteIP	IP address of the decoy server	N/A	String, dotted decimal notation.	Required.
RemotePort	Service port number of the decoy server	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalIP	IP address of the device to communicate with the decoy server	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case sensitive. Length: 0 to 31 characters.	An empty string represents the public network.

Deception/GlobalCfg

This table contains global deception configuration.

XML structure

```
<Deception>
  <GlobalCfg>
    <DeceptionMode></DeceptionMode>
    <IPDetectRate></IPDetectRate>
    <ARPReqThreshold></ARPReqThreshold>
  </GlobalCfg>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeceptionMode	Strict deception mode	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
IPDetectRate	Rate of scanning online IPs	N/A	Unsigned integer. Value range: 10 to 512.	N/A
ARPReqThreshold	ARP scan threshold	N/A	Unsigned integer. Value range: 1 to 20000.	N/A

Deception/AllowListIPv4Objs

This table contains IPv4 deception allowlist object configuration.

XML structure

```
<Deception>
  <AllowListIPv4Objs>
    <IPv4Obj>
     <ID></ID>
     <Type></Type>
     <IPv4Addr></IPv4Addr>
     <IPv4Mask></IPv4Mask>
     <VrfName></VrfName>
    </IPv4Obj>
  </AllowListIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception

Item	Description
Table name	WhiteListIPv4Objs
Table type	Multi-instance table
Row name	IPv4Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	IPv4 deception allowlist object	Index	Unsigned integer. Value range: 1 to 50.	N/A
Type	Object type	N/A	• **0**—Source. • **1**—Destination.	N/A
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case sensitive. Length: 0 to 31 characters.	An empty string represents the public network.

Deception/DecoyIPv4Objs

This table contains IPv4 decoy object configuration.

XML structure

```
<Deception>
  <DecoyIPv4Objs>
    <IPv4Obj>
     <ID></ID>
     <IPv4Addr></IPv4Addr>
     <IPv4Mask></IPv4Mask>
     <VrfName></VrfName>
    </IPv4Obj>
  </DecoyIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	DecoyIPv4Objs

Item	Description
Table type	Multi-instance table
Row name	IPv4Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the IPv4 decoy object	Index	Unsigned integer. Value range: 1 to 50.	N/A
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case sensitive. Length: 0 to 31 characters.	An empty string represents the public network.

Deception/DetectIPv4Objs

This table contains IPv4 detected object configuration.

XML structure

```
<Deception>
  <DetectIPv4Objs>
    <IPv4Obj>
      <ID></ID>
      <IPv4Addr></IPv4Addr>
      <IPv4Mask></IPv4Mask>
      <VrfName></VrfName>
      <IsRef></IsRef>
    </IPv4Obj>
  </DetectIPv4Objs>
</Deception>
```

Table description

Item	Description
Feature name	Deception
Table name	DetectIPv4Objs
Table type	Multi-instance table
Row name	IPv4Obj

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of an IPv4 detected object	Index	Unsigned integer. Value range: 1 to 50.	N/A
IPv4Addr	IPv4 subnet address	N/A	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	N/A
VrfName	VRF name	N/A	String, case sensitive. Length: 0 to 31 characters.	An empty string represents the public network.
IsRef	Referenced or not	N/A	Boolean: • **true**—Used. • **false**—Unused.	N/A

Contents

DetNetIp 1
DetNetIp/Base 1
XML structure 1
Table description 1
Columns 1
DetNetIp/FlowInfos 1
XML structure 1
Table description 2
Columns 2
DetNetIp/Paths 3
XML structure 3
Table description 4
Columns 4
DetNetIp/Paths/Ingress 5
XML structure 5
Table description 5
Columns 5
DetNetIp/Paths/Egress 5
XML structure 6
Table description 6
Columns 6
DetNetIp/Paths/FlowLists 6
XML structure 6
Table description 6
Columns 7
DetNetIp/Paths/TimeSlotLists 7
XML structure 7
Table description 7
Columns 7

DetNetIp

DetNetIp/Base

This table contains DetNetIp Base configuration data.

XML structure

```
<DetNetIp>
  <Base>
    <Enable></Enable>
  </Base>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the Base table	N/A	Boolean: • **true** • **false**	N/A

DetNetIp/FlowInfos

This table contains DetNetIp/FlowInfos configuration data.

XML structure

```
<DetNetIp>
  <FlowInfos>
    <FlowInfo>
      <FlowId></FlowId>
```

```
      <DstIp>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <PrefixLength></PrefixLength>
      </DstIp>
      <SrcIp>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <PrefixLength></PrefixLength>
      </SrcIp>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <Protocol></Protocol>
      <Dscp></Dscp>
    </FlowInfo>
  </FlowInfos>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	FlowInfos
Table type	Multi-instance table
Row name	FlowInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow ID	Index	Unsigned integer.	N/A
DstIp	Deationation IP address	Data structure	Members include: • AddressType • IpAddress • PrefixLength	N/A
AddressType	IP address type	N/A	Enumeration: • IPv4 • IPv6	N/A
IpAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated.	
PrefixLength	Subnet mask length of the destination IP address	N/A	Unsigned integer. Value range: 1 to 128.	When DstIp address type is IPv4, the value range is 1 to 32. When DstPAddr address type is IPv6, the value range is 1 to 128.
SrcIp	Source IP address	Data structure	Members include: • AddressType • IpAddress • PrefixLength	N/A
AddressType	IP address type	N/A	Enumeration: • IPv4 • IPv6	N/A
IpAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
PrefixLength	Subnet mask length of the destination IP address	N/A	Unsigned integer. Value range: 1 to 128.	When SrcIp address type is IPv4, the value range is 1 to 32. When DstPAddr address type is IPv6, the value range is 1 to 128.
SrcPort	Port number for the source protocol	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Port number for the destination protocol	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Protocol	Protocol type	N/A	Unsigned short. Value range: 0 to 255.	N/A
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A

DetNetIp/Paths

This table provides DetNetIp/Paths configuration data..

XML structure

```
<DetNetIp>
  <Paths>
    <Path>
      <PathId></PathId>
      <Type></Type>
```

```
      <Ingress>
        <SrcIfName></SrcIfName>
      </Ingress>
      <Egress>
        <Srv6>
          <color></color>
          <endpoint></endpoint>
        </Srv6>
      </Egress>
      <FlowLists>
        <FlowList>
          <FlowId></FlowId>
        </FlowList>
      </FlowLists>
      <TimeSlotLists>
        <TimeSlotList>
          <Hop></Hop>
          <TimeSlot></TimeSlot>
        </TimeSlotList>
      </TimeSlotLists>
    </Path>
  </Paths>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	Paths
Table type	Multi-instance table,multi-level table
Row name	Path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathId	Path ID	index	Unsigned integer 32	N/A
Type	Path type	N/A	Enumeration: • Srv6	N/A
Ingress	Ingress instance table	Sublist	N/A	For more information, see the DetNetIp/Path/Ingress

Column name	Column description	Column type	Data type and restrictions	Remarks
				List table.
Egress	Egress instance table	Sublist	N/A	For more information, see the DetNetIp/Path/Egress table.
FlowLists	There is one FlowLists Instance Table	Sublist	N/A	For more information, see the DetNetIp/Path/FlowLists table.
TimeSlotLists	TimeSlotList instance table	Sublist	N/A	For more information, see the DetNetIp/Path/TimeSlotList table.

DetNetIp/Paths/Ingress

This table provides DetNetIp/Path/Ingress configuration data.

XML structure

See the XML structure of DetNetIp/Paths/Path/Ingress

Table description

Item	Description
Feature name	DetNetIp
Table name	Ingress
Table type	Single-instance table, multi-level table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIfName	Source interface name	N/A	String Length: 2 to 47 characters	N/A

DetNetIp/Paths/Egress

This table provides DetNetIp/Paths/Path/Egress configuration data..

XML structure

See the XML structure of DetNetIp/Paths/Path/Egress

Table description

Item	Description
Feature name	DetNetIp
Table name	Egress
Table type	Single-instance table, multi-level table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Srv6	Srv6	Data structure	Members include: • color • endpoint	N/A
color	Color value of the Srv6 policy	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	Endpoint of the Srv6 policy	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

DetNetIp/Paths/FlowLists

This table provides DetNetIp/Paths/Path/FlowLists configuration data..

XML structure

See the XML structure of DetNetIp/Paths/Path/FlowLists

Table description

Item	Description
Feature name	DetNetIp
Table name	FlowLists
Table type	Multi-instance table, multi-level table
Row name	FlowList
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow number	Index	Unsigned integer.	N/A

DetNetIp/Paths/TimeSlotLists

This table provides DetNetIp/Paths/Path/TimeSlotLists configuration data.

XML structure

See the XML structure of DetNetIp/Paths/Path/TimeSlotLists

Table description

Item	Description
Feature name	DetNetIp
Table name	TimeSlotLists
Table type	Multi-instance table, multi-level table
Row name	TimeSlotList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Hop	Hop number	Index	Unsigned short.	N/A
TimeSlot	TimeSlot value	N/A	Unsigned int.	N/A

Contents

DetNetIp 2

DetNetIp/Base 2
- XML structure 2
- Table description 2
- Columns 2

DetNetIp/FlowInfos 2
- XML structure 2
- Table description 3
- Columns 3

DetNetIp/Paths 4
- XML structure 4
- Table description 5
- Columns 5

DetNetIp/Paths/Ingress 6
- XML structure 6
- Table description 6
- Columns 6

DetNetIp/Paths/Egress 6
- XML structure 6
- Table description 7
- Columns 7

DetNetIp/Paths/FlowLists 7
- XML structure 7
- Table description 7
- Columns 8

DetNetIp/Paths/TimeSlotLists 8
- XML structure 8
- Table description 8
- Columns 8

DetNetIp/IfCapbilitys 8
- XML structure 8
- Table description 9
- Columns 9

DetNetIp

DetNetIp/Base

This table contains DetNetIp Base information.

XML structure

```
<DetNetIp>
  <Base>
    <Enable></Enable>
    <MaxFlowCounts></MaxFlowCounts>
  </Base>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the Base table	N/A	Boolean: • **true** • **false**	N/A
MaxFlowCounts	Max number of Flows	N/A	Unsigned integer.	N/A

DetNetIp/FlowInfos

This table contains DetNetIp/FlowInfos Flow information

XML structure

```
<DetNetIp>
  <FlowInfos>
    <FlowInfo>
```

```
      <FlowId></FlowId>
      <DstIp>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <PrefixLength></PrefixLength>
      </DstIp>
      <SrcIp>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <PrefixLength></PrefixLength>
      </SrcIp>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <Protocol></Protocol>
      <Dscp></Dscp>
    </FlowInfo>
  </FlowInfos>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	FlowInfos
Table type	Multi-instance table
Row name	FlowInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow ID	Index	Unsigned integer.	N/A
DstIp	Deationation IP address	Data structure	Members include: • AddressType • IpAddress • PrefixLength	N/A
AddressType	IP address type	N/A	Enumeration: • IPv4 • IPv6	N/A
IpAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string colon-separated.,	N/A
PrefixLength	Subnet mask	N/A	Unsigned integer.	When DstIp address

Column name	Column description	Column type	Data type and restrictions	Remarks
	length of the destination IP address		Value range: 1 to 128.	type is IPv4, the value range is 1 to 32. When DstPAddr address type is IPv6, the value range is 1 to 128.
SrcIp	Source IP address	Data structure	Members include: • AddressType • IpAddress • PrefixLength	N/A
AddressType	IP address type	N/A	Enumeration: • IPv4 • IPv6	N/A
IpAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
PrefixLength	Subnet mask length of the destination IP address	N/A	Unsigned integer. Value range: 1 to 128.	When SrcIp address type is IPv4, the value range is 1 to 32. When DstPAddr address type is IPv6, the value range is 1 to 128.
SrcPort	Port number for the source protocol	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Port number for the destination protocol	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Protocol	Protocol type	N/A	Unsigned short. Value range: 0 to 255.	N/A
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A

DetNetIp/Paths

This table provides DetNetIp/Paths information.

XML structure

```
<DetNetIp>
  <Paths>
    <Path>
      <PathId></PathId>
      <Type></Type>
      <Ingress>
        <SrcIfName></SrcIfName>
```

```
      </Ingress>
      <Egress>
        <Srv6>
          <color></color>
          <endpoint></endpoint>
        </Srv6>
      </Egress>
      <FlowLists>
        <FlowList>
          <FlowId></FlowId>
        </FlowList>
      </FlowLists>
      <TimeSlotLists>
        <TimeSlotList>
          <Hop></Hop>
          <TimeSlot></TimeSlot>
        </TimeSlotList>
      </TimeSlotLists>
    </Path>
  </Paths>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetNetIp
Table name	Paths
Table type	Multi-instance table. multi-level table
Row name	Path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathId	Path ID	index	Unsigned integer 32	N/A
Type	Path type	N/A	Enumeration: • Srv6	N/A
Ingress	Ingress instance table	Sublist	N/A	For more information, see the DetNetIp/Path/Ingress List table.
Egress	Egress instance table	Sublist	N/A	For more information, see the DetNetIp/Path/Egress table.

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowLists	There is one FlowLists Instance Table	Sublist	N/A	For more information, see the DetNetIp/Path/FlowLists table.
TimeSlotLists	TimeSlotList instance table	Sublist	N/A	For more information, see the DetNetIp/Path/TimeSlotList table.

DetNetIp/Paths/Ingress

This table provides DetNetIp/Path/Ingress information.

XML structure

See the XML structure of DetNetIp/Paths/Path/Ingress

Table description

Item	Description
Feature name	DetNetIp
Table name	Ingress
Table type	Single-instance table, multi-level table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIfName	Source interface name	N/A	String Length: 2 to 47 characters	N/A

DetNetIp/Paths/Egress

This table provides DetNetIp/Paths/Path/Egress information.

XML structure

See the XML structure of DetNetIp/Paths/Path/Egress

Table description

Item	Description
Feature name	DetNetIp
Table name	Egress
Table type	Single-instance table, multi-level table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Srv6	Srv6	Data structure	Members include: • color • endpoint	N/A
color	Color value of the Srv6 policy	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	Endpoint of the Srv6 policy	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

DetNetIp/Paths/FlowLists

This table provides DetNetIp/Path/FlowLists information

XML structure

See the XML structure of DetNetIp/Paths/Path/FlowLists

Table description

Item	Description
Feature name	DetNetIp
Table name	FlowLists
Table type	Multi-instance table, multi-level table
Row name	FlowList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow number	Index	Unsigned integer.	N/A

DetNetIp/Paths/TimeSlotLists

This table provides DetNetIp/Paths/TimeSlotLists information.

XML structure

See the XML structure of DetNetIp/Paths/Path/TimeSlotLists

Table description

Item	Description
Feature name	DetNetIp
Table name	TimeSlotLists
Table type	Multi-instance table, multi-level table
Row name	TimeSlotList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Hop	Hop number	Index	Unsigned short.	N/A
TimeSlot	TimeSlot value	N/A	Unsigned int.	N/A

DetNetIp/IfCapbilitys

This table contains DetNetIp capability information.

XML structure

```
<DetNetIp>
  <IfCapbilitys>
    <IfCapbility>
      <IfName></IfName>
      <DetBandwidth></DetBandwidth>
      <QueueNumber></QueueNumber>
```

```
      <QueueDuration></QueueDuration>
    </IfCapbility>
  </IfCapbilitys>
</DetNetIp>
```

Table description

Item	Description
Feature name	DetnetIp
Table name	IfCapbilitys
Table type	Multi-instance table
Row name	IfCapbility
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface.	Index	String • Length: 2 to 47 characters	N/A
DetBandwidth	Bandwidth of Deterministic flow.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
QueueNumber	Deterministic queue number of an interface.	NA	Unsigned integer.	N/A
QueueDuration	Duration of an queue	NA	Unsigned integer. Value range: 0 to 1000, in microseconds	N/A

Contents

DetNetOAM 1
DetNetOAM/Global 1
XML structure 1
Table description 1
Columns 1
DetNetOAM/Instances 1
XML structure 1
Table description 2
Columns 2
DetNetOAM/Instances/Flow 2
XML structure 3
Table description 3
Columns 3
DetNetOAM/StartInstances 3
XML structure 3
Table description 4
Columns 4

DetNetOAM

DetNetOAM/Global

This table contains global configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <Global>
    <Enable></Enable>
  </Global>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of DetNetOAM	N/A	Boolean: • true. • false (Default)	N/A

DetNetOAM/Instances

This table contains instance configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
```

```
      <BindingPathID></BindingPathID>
      <Period></Period>
      <Flow>
        <SourceIP></SourceIP>
        <DestinationIP></DestinationIP>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
        <Dscp></Dscp>
      </Flow>
    </Instance>
  </Instances>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of an detnetoam instance	Index	String. Length: 1 to 31 characters	N/A
BindingPathID	Binding ID of detnet path	N/A	Unsigned integer.	N/A
Period	Statistics polling period	N/A	Enumeration: • 10 • 60 (default) • 600	Unit is seconds.
Flow	Flow information	Subtable	N/A	N/A

DetNetOAM/Instances/Flow

This table contains flow simulation configuration parameters about DetNetOAM.

XML structure

See the XML structure of DetNetOAM/Instances.

Table description

Item	Description
Feature name	DetNetOAM
Table name	Flow
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	Source IP address of the flow	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DestinationIP	Destination IP address of the flow	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Dscp	Differentiated Services Code Point	N/A	Unsigned integer. Value range: 0 to 63. Default: 63.	N/A

DetNetOAM/StartInstances

This table contains instance configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <StartInstances>
```

```
    <StartInstance>
      <InstanceName></InstanceName>
      <Enable></Enable>
    </StartInstance>
  </StartInstances>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	StartInstances
Table type	Multi-instance table
Row name	StartInstance
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of a detnetoam instance	Index	String. Length: 1 to 31 characters	N/A
Enable	Enabling status of measurement	N/A	Boolean: • true. • false. (Default)	N/A

Contents

DetNetOAM 1
DetNetOAM/Global 1
XML structure 1
Table description 1
Columns 1
DetNetOAM/Instances 1
XML structure 1
Table description 2
Columns 2
DetNetOAM/Instances/Flow 2
XML structure 3
Table description 3
Columns 3
DetNetOAM/StartInstances 3
XML structure 3
Table description 4
Columns 4

DetNetOAM

DetNetOAM/Global

This table contains global configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <Global>
    <Enable></Enable>
  </Global>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of DetNetOAM	N/A	Boolean: • true. • false	N/A

DetNetOAM/Instances

This table contains instance configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
```

```
      <BindingPathID></BindingPathID>
      <Period></Period>
      <Flow>
        <SourceIP></SourceIP>
        <DestinationIP></DestinationIP>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
        <Dscp></Dscp>
      </Flow>
    </Instance>
  </Instances>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of a detnetoam instance	Index	String. Length: 1 to 31 characters	N/A
BindingPathID	Binding ID of detnet path	N/A	Unsigned integer.	N/A
Period	Statistics polling period	N/A	Enumeration: • 10 • 60 • 600	Unit is seconds.
Flow	Flow information	Subtable	N/A	N/A

DetNetOAM/Instances/Flow

This table contains flow simulation configuration parameters about DetNetOAM.

XML structure

See the XML structure of DetNetOAM/Instances.

Table description

Item	Description
Feature name	DetNetOAM
Table name	Flow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	Source IP address of the flow	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DestinationIP	Destination IP address of the flow	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Dscp	Differentiated Services Code Point	N/A	Unsigned integer. Value range: 0 to 63.	N/A

DetNetOAM/StartInstances

This table contains instance configuration parameters about DetNetOAM.

XML structure

```
<DetNetOAM>
  <StartInstances>
    <StartInstance>
      <InstanceName></InstanceName>
```

```
      <Enable></Enable>
    </StartInstance>
  </StartInstances>
</DetNetOAM>
```

Table description

Item	Description
Feature name	DetNetOAM
Table name	StartInstances
Table type	Multi-instance table
Row name	StartInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of a detnetoam instance	Index	String. Length: 1 to 31 characters	N/A
Enable	Enabling status of measurement	N/A	Boolean: • true. • false .	N/A

Contents

DetNetOAM ····· 1
DetNetOAM/Global ····· 1
DetNetOAM/Instances ····· 1
DetNetOAM/Instances/Flow ····· 1
DetNetOAM/StartInstances/ ····· 2

DetNetOAM

DetNetOAM/Global

Message	Explanation
"DetNetOAM is not enabled." DetNetOAM未使能。	DetNetOAM is not enabled. DetNetOAM 未使能。

DetNetOAM/Instances

Message	Explanation
"Instance name can't contain spaces. " 实例名中不能包含空格符号。	"Instance name can't contain spaces. " 实例名中不能包含空格符号。
"The path ID is already bound by another instance." 配置冲突，路径ID已经绑定其它实例。	"The path ID is already bound by another instance. " 配置冲突，路径ID已经绑定其它实例。
"Operation failed. The instance has been enabled." 实例已使能，不允许修改配置。	You cannot edit the configuration of an enabled instance. “实例已使能，不允许修改配置。”

DetNetOAM/Instances/Flow

Message	Explanation
"IP address is invalid. " IP地址无效。	"IP address is invalid. " IP地址无效。
" The source and destination IP addresses must be configured together. " 配置源IP地址和目的IP地址必须同时下发。	" The source and destination IP addresses must be configured together. " 配置源IP地址和目的IP地址必须同时下发。
“The source and destination port must be configured.” 源端口和目的端口必须配置。	“The source and destination port must be configured.” 源端口和目的端口必须配置。
“The address family does not match the configured source and destination IP addresses.” 地址簇类型与源或者目的地址不匹配。	“The address family does not match the configured source and destination IP addresses.” 地址簇类型与源或者目的地址不匹配。

DetNetOAM/StartInstances/

Message	Explanation
"Operation failed due to lack of measured flow setting. ” 配置失败，因为缺少Flow参数。	"Operation failed due to lack of measured flow setting. ” 配置失败，因为缺少Flow参数。
"Operation failed due to lack of path ID. ” 配置失败，因为缺少绑定PathID参数。	"Operation failed due to lack of path ID. ” 配置失败，因为缺少绑定PathID参数。
"Maximum number of enabled instances has already been reached. ” 实例使能个数已经达到上限。	"Maximum number of enabled instances has already been reached. ” 实例使能个数已经达到上限。

Contents

MeasureReports event 1
XML structure for event subscription 1
XML structure for event report 1

MeasureReports event

This event is used to report DetNetOAM measure information when the measure information is updated.

XML structure for event subscription

```
<MeasureReports>
  <MeasureReport>
    <PathID></PathID>
  </MeasureReport>
</MeasureReports>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DetNetOAM</stream>
    <filter type="subtree">
      <MeasureReports xmlns="http://www.h3c.com/netconf/event:1.0/DetNetOAM:1.0">
        <MeasureReport>
          <PathID>10</PathID>
        </MeasureReport>
      </MeasureReports>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DetNetOAM
Event name	MeasureReports
Event namespace	http://www.h3c.com/netconf/event:1.0/DetNetOAM:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
PathID	Path ID	Unsigned integer.	N/A

XML structure for event report

```
<MeasureReports>
```

```
  <MeasureReport>
    <PathID></PathID>
    <PathHop></PathHop>
    <PeriodID></PeriodID>
    <MaxOffset></MaxOffset>
    <MinOffset></MinOffset>
    <AvgOffset></AvgOffset>
  </MeasureReport>
</MeasureReports>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-05-07T09:30:11</eventTime>
  <MeasureReports xmlns="http://www.h3c.com/netconf/event:1.0/DetNetOAM:1.0">
    <MeasureReport>
      <PathID>10</PathID>
      <PathHop>3</PathHop>
      <PeriodID>165191579</PeriodID>
      <MaxOffset>4</MaxOffset>
      <MinOffset>1</MinOffset>
      <AvgOffset>2</AvgOffset>
    </MeasureReport>
  </MeasureReports>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
PathID	Path ID	Unsigned integer.	N/A
PathHop	Number of hops on the specified path	Unsigned integer. Value range: 1 to 256.	N/A
PeriodID	Period ID	Unsigned integer. Length: 32 bits.	N/A
MaxOffset	Maximum time slot offset between two adjacent nodes.	Unsigned integer. Value range: 0 to 14.	For the first node, it is the deviation from the incoming device to the outgoing device.
MinOffset	Minimum time slot offset between two adjacent nodes	Unsigned integer. Value range: 0 to 14.	For the first node, it is the deviation from the incoming device to the outgoing device.
AvgOffset	Average time slot offset between two adjacent nodes	Unsigned integer. Value range: 0 to 14.	For the first node, it is the deviation from the incoming device to the outgoing device.

Contents

Device 1

Device/Base 1
XML structure 1
Table description 1
Columns 1
Device/Transceivers 1
XML structure 1
Table description 2
Columns 2
Device/RebootDev 2
XML structure 2
Table description 3
Columns 3
Device/RebootDev/Chassises 3
XML structure 3
Table description 3
Columns 4
Device/Reboot/Chassises/Slots 4
XML structure 4
Table description 4
Columns 4
Device/PowerSupplyOnOffs 4
XML structure 4
Table description 5
Columns 5
Device/SwitchCardModes 5
XML structure 5
Table description 6
Columns 6

Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <LocalTime></LocalTime>
    <RestoreFactoryDefault/>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
LocalTime	System time on the device.	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
RestoreFactoryDefault	Restore the factory-default configuration for the device.	This column must be empty.

Device/Transceivers

This table contains information about ITU channels supported on the transceiver that is connected to this interface.

XML structure

```
<Device>
  <Transceivers>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <ActiveITUChannel></ActiveITUChannel>
    </Interface>
  </Transceivers>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TransceiversITUChannels
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
ActiveITUChannel	The index of the specified ITU channel	N/A	Unsigned integer. Value range:1 to 4294967295.	The value depends on the device model.

Device/RebootDev

This table contains device reboot information.

XML structure

```
<Device>
  <RebootDev>
    <Reboot></Reboot>
    <Chassises>
      <Chassis>
        <ChassisID></ChassisID>
        <Reboot></Reboot>
        <Slots>
          <Slot>
            <SlotID></SlotID>
            <Reboot></Reboot>
```

```
        </Slot>
      </Slots>
    </Chassis>
  </Chassises>
 </RebootDev>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	RebootDev
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reboot	Device reboot operation	N/A	N/A	This column must be empty.

Device/RebootDev/Chassises

This table contains chassis reboot information.

XML structure

See the XML structure of RebootDev.

Table description

Item	Description
Feature name	Device
Table name	Chassises
Table type	Multi-instance table
Row name	Chassis
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the member device	Index	Unsigned integer. Value range:0 to 65535.	N/A
Reboot	Reboot operation	N/A	N/A	This column must be empty.

Device/Reboot/Chassises/Slots

This table contains slot reboot information.

XML structure

See the XML structure of RebootDev.

Table description

Item	Description
Feature name	Device
Table name	Slots
Table type	Multi-instance table
Row name	Slot
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Slot ID	Index	Unsigned integer. Value range:0 to 65535.	N/A
Reboot	Reboot operation	N/A	N/A	This column must be empty.

Device/PowerSupplyOnOffs

This table contains information about power supply on/off.

XML structure

```
<Device>
```

```
  <PowerSupplyOnOffs>
    <PowerSupplyOnOff>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Operate></Operate>
    </PowerSupplyOnOff>
  </PowerSupplyOnOffs>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PowerSupplyOnOffs
Table type	Multi-instance table
Row name	PowerSupplyOnOff
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member device	Index	Unsigned integer. Value range: 0 to 65535	N/A
Slot	Slot ID	Index	Unsigned integer. Value range:0 to 65535.	N/A
SubSlot	Subslot ID	Index	Unsigned integer	N/A

Operate	Power supply on/off	N/A	• Boolean:
			  • true.
			  • false.
				N/A

Device/SwitchCardModes

This table describes the actions that can be performed to the card mode.

XML structure

```
<Device>
  <SwitchCardModes>
    <SwitchCardMode>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
```

```
      <Mode></Mode>
    </SwitchCardMode>
  </SwitchCardModes>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SwitchCardModes
Table type	Single-instance table
Row name	SwitchCardMode
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	Subslot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	The operating mode for the specified interface card	N/A	String. Length: 1 to 16 characters.	Available operating modes depend on the interface card type, accoding to Device/Subcards table in data namespace. This operation is supported only on the default MDC. Whether the new operating mode takes effect immediately depends on the device model. If the new operating mode does not take effect immediately, you must perform one of the following tasks to activate

Column name	Column description	Column type	Data type and restrictions	Remarks
				the new operating mode: ● Hot swap the interface card if the interface card supports hot swapping. ● Restart the device.

Contents

Device 1

Device/Base 1
XML structure 1
Table description 1
Columns 1
Device/SummerTime 2
XML structure 2
Table description 3
Columns 3
Device/FailoverGroups 6
XML structure 6
Table description 6
Columns 7
Device/TemperatureSensors 7
XML structure 7
Table description 8
Columns 8
Device/FanDirections 9
XML structure 9
Table description 9
Columns 10
Device/TransceiverMonitor 10
XML structure 10
Table description 10
Columns 11
Device/PowerSupplyPolicys 11
XML structure 11
Table description 11
Columns 12
Device/SwitchFabricIsolates 12
XML structure 12
Table description 12
Columns 12
Device/NetworkClockLPUPortStatus 13
XML structure 13
Table description 13
Columns 13

Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <HostName></HostName>
    <ClockProtocol>
      <Protocol></Protocol>
      <MDCID></MDCID>
    </ClockProtocol>
    <TimeZone>
      <Zone></Zone>
      <ZoneName></ZoneName>
    </TimeZone>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Device name	N/A	String. Length: 1 to 64 characters.	N/A
ClockProtocol	System time source	Data structure	Members include: • Protocol. • MDCID.	This data structure is supported only on the default MDC.
Protocol	Time protocol	N/A	Enumeration:	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**-None. • **3**-NTP. • **4**-PTP. • **5**-Interface. • **6**-GNSS.	Those methods that are supported depend on the device model.
MDCID	ID of the MDC used as the time source	N/A	Unsigned integer. Value range: 1 to 65535.	Supported and required on an MDC-supported device that uses NTP or PTP.
TimeZone	Time zone and its name	Data structure	Members include: • Zone. • ZoneName.	N/A
Zone	Time zone	N/A	String. Use one of the following formats: • **Z** for the UTC. • +HH:MM:SS for east time zone. • -HH:MM:SS for west time zone. Value ranges: • **HH**—0 to 23. • **MM**—0 to 59. • **SS**—0 to 59.	MM and SS are optional.
ZoneName	Time zone name	N/A	String. Length: 0 to 32 characters.	N/A

Device/SummerTime

This table contains summer-time information.

XML structure

```
<Device>
  <SummerTime>
    <Name></Name>
    <AddTime></AddTime>
    <DateBased>
      <BeginMonth></BeginMonth>
      <BeginDay></BeginDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndDay></EndDay>
      <EndHour></EndHour>
```

```
      <EndMinute></EndMinute>
      <EndSecond></EndSecond>
    </DateBased>
    <WeekBased>
      <BeginMonth></BeginMonth>
      <BeginWeek></BeginWeek>
      <BeginWeekDay></BeginWeekDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndWeek></EndWeek>
      <EndWeekDay></EndWeekDay>
      <EndHour></EndHour>
      <EndMinute></EndMinute>
      <EndSecond></EndSecond>
    </WeekBased>
  </SummerTime>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SummerTime
Table type	Single-instance table
Row name	N/A
Restrictions	Group DateBased and WeekBased are two configuration ways. Only one way can take effect at the same time. All the members of one group should be included when tack configuration action. New configuration will replace the existing one.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name for the daylight saving. time.	N/A	String. Length: 1 to 32 characters.	N/A
AddTime	The time to be added to the standard time.	N/A	String. Format: • HH:MM:SS	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59. • **SS**—0 to 59.

Column name	Column description	Column type	Data type and restrictions	Remarks
DateBased	Daylight saving time configuration based on date.	Data Structure	Members include: • BeginMonth • BeginDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndDay • EndHour • EndMinute • EndSecond	N/A
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginDay	Begin day.	N/A	Unsigned integer. • Value range: 1 to 31.	N/A
BeginHour	Begin hour.	N/A	Unsigned integer. • Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndDay	End day.	N/A	Unsigned integer. Value range: 1 to 31.	N/A
EndHour	End hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
WeekBased	Daylight saving time configuration based on week.	Data Structure	Members include: • BeginMonth • BeginWeek • BeginWeekDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndWeek • EndWeekDay • EndHour • EndMinute • EndSecond	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginWeek	Begin week of the month.	N/A	Enumeration: • **1**—The first week • **2**—The second week • **3**—The third week • **4**—The fourth week • 5—The fifth week • 6—The last week	Non-existent weeks of the month are treated as the last week.
BeginWeekDay	Begin day of week.	N/A	Enumeration: • 0—Sunday • **1**—Monday • **2**—Tuesday • **3**—Wednesday • **4**—Thursday • **5**—Friday • **6**—Saturday	N/A
BeginHour	Begin hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndWeek	End week of the month.	N/A	Enumeration: • **1**—The first week • **2**—The second week • **3**—The third week • **4**—The fourth week • 5—The fifth week • 6—The last week	Non-existent weeks of the month are treated as the last week.
EndWeekDay	End day of week.	N/A	Enumeration: • 0—Sunday • **1**—Monday • **2**—Tuesday • **3**—Wednesday • **4**—Thursday • **5**—Friday • **6**—Saturday	N/A
EndHour	End hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Device/FailoverGroups

This table contains failover group information.

XML structure

```
<Device>
  <FailoverGroups>
    <FailoverGroup>
      <ID></ID>
      <Name></Name>
      <PrimaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </PrimaryNode>
      <SecondaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </SecondaryNode>
    </FailoverGroup>
  </FailoverGroups>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroups
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Failover group id	index	Unsigned integer. Value range: 0 to 31.	N/A
Name	Failover group name	N/A	String. Length: 1 to 63 characters.	N/A
PrimaryNode	Primary node of the failover group.	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SecondaryNode	Secondarynode of the failover group.	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Device/TemperatureSensors

This table contains temperature sensor alarm settings.

XML structure

```
<Device>
  <TemperatureSensors>
    <Sensor>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SensorType></SensorType>
```

```
      <SensorIndex></SensorIndex>
      <LowerLimit></LowerLimit>
      <WarningLimit></WarningLimit>
      <AlarmLimit></AlarmLimit>
    </Sensor>
  </TemperatureSensors>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TemperatureSensors
Table type	Multi-instance table
Row name	Sensor
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SensorType	Type of the temperature sensor	Index	Enumeration: • 0-Inflow • 1-Outflow • 2- Hotspot	N/A
SensorIndex	Resource ID of the temperature sensor.	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowerLimit	Low-temperature threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set
WarningLimit	High-temperature warning threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set
AlarmLimit	High-temperature alarming threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set

Device/FanDirections

This table contains fan directions settings.

XML structure

```
<Device>
  <FanDirections>
    <Fan>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
    </Fan>
  </FanDirections>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FanDirections
Table type	Multi-instance table

Item	Description
Row name	Fan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Direction	Direction of the fan	N/A	Enumeration: • 1-power-to-port • 2-port-to-power	N/A

Device/TransceiverMonitor

This table contains transceiver monitoring information.

XML structure

```
<Device>
  <TransceiverMonitor>
    <State></State>
    <Interval></Interval>
  </TransceiverMonitor>
</Device>
```

Table description

Item	**Description**
Feature name	Device
Table name	TransceiverMonitor
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Transceiver monitoring enabling status	N/A	Enumeration: • **enable**—Transceiver monitoring is enabled**.** • **disable**—Transceiver monitoring is disabled.	N/A
Interval	Monitoring interval in seconds	N/A	Unsigned integer. Value range: 300 to 3600. The default is 600.	N/A

Device/PowerSupplyPolicys

This table contains information about power supply policies.

XML structure

```
<Device>
  <PowerSupplyPolicys>
    <PowerSupplyPolicy>
      <Chassis></Chassis>
      <Enable></Enable>
    </PowerSupplyPolicy>
  </PowerSupplyPolicys>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PowerSupplyPolicys
Table type	Multi-instance table
Row name	PowerSupplyPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member device	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Enable	Power supply policy enabling status	N/A	Boolean: • true. • false.	N/A

Device/SwitchFabricIsolates

This table contains switching fabric module isolation information.

XML structure

```
<Device>
  <SwitchFabricIsolates>
    <SwitchFabricIsolate>
      <Chassis></Chassis>
      <Slot></Slot>
      <Isolate></Isolate>
    </SwitchFabricIsolate>
  </SwitchFabricIsolates>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SwitchFabricIsolates
Table type	Multi-instance table
Row name	SwitchFabricIsolate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member device	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
Isolate	Isolation state	N/A	Boolean: • true. • false.	N/A

Device/NetworkClockLPUPortStatus

This table contains line clock input port status information.

XML structure

```
<Device>
  <NetworkClockLPUPortStatus>
    <LPUPortStatus>
      <Port></Port>
      <Priority></Priority>
      <SSMLevel></SSMLevel>
      <ForceSSM></ForceSSM>
    </LPUPortStatus>
  </NetworkClockLPUPortStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	NetworkClockLPUPortStatus
Table type	Multi-instance table
Row name	LPUPortStatus
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Interface index	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Priority	Assign a priority to a network clock source	N/A	Unsigned integer. Value range: 0 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default is 255).	
SSMLevel	Specify the clock source quality level in the SSM	N/A	Enumeration: • PRC • SSU-A • SSU-B • SEC • DNU • Unknown (default).	N/A
ForceSSM	Set network-clock source SSM extract flag	N/A	Enumeration: • On(default) • Off.	N/A

Contents

Device 1

Device/Base 1
XML structure 1
Table description 1
Columns 2
Device/PhysicalEntities 3
XML structure 3
Table description 4
Columns 4
Device/ExtPhysicalEntities 6
XML structure 6
Table description 7
Columns 7
Device/Transceivers 10
XML structure 10
Table description 11
Columns 11
Device/TransceiversChannels 17
XML structure 17
Table description 17
Columns 17
Device/TransceiversITUChannels 18
XML structure 18
Table description 18
Columns 19
Device/CPUs 19
XML structure 19
Table description 20
Columns 20
Device/SummerTime 20
XML structure 20
Table description 21
Columns 21
Device/Boards 24
XML structure 24
Table description 24
Columns 25
Device/Blades 26
XML structure 26
Table description 26
Columns 26
Device/PEXes 27
XML structure 27
Table description 27
Columns 27
Device/BladeCapabilities 28
XML structure 28
Table description 28
Columns 28
Device/PEXCapabilities 28
XML structure 28
Table description 29
Columns 29
Device/MDCs 29
XML structure 29
Table description 29
Columns 30

Device/FailoverGroupCapabilities 30
XML structure 30
Table description 30
Columns 30
Device/FailoverGroups 31
XML structure 31
Table description 31
Columns 31
Device/Subcards 32
XML structure 32
Table description 33
Columns 33
Device/TemperatureSensors 33
XML structure 33
Table description 34
Columns 34
Device/SystemStableStatus 35
XML structure 35
Table description 35
Columns 36
Device/BoardStableStatus 36
XML structure 36
Table description 36
Columns 37
Device/NetworkClockChassisStatus 37
XML structure 37
Table description 38
Columns 38
Device/NetworkClockSrcStatus 39
XML structure 39
Table description 39
Columns 40
Device/NetworkClockLPUPortStatus 40
XML structure 40
Table description 41
Columns 41
Device/FanDirections 42
XML structure 42
Table description 42
Columns 42
Device/TransceiverMonitor 43
XML structure 43
Table description 43
Columns 43
Device/Chassis 44
XML structure 44
Table description 44
Columns 44
Device/Chassises 45
XML structure 45
Table description 46
Columns 46
Device/PowerSupplyPolicys 47
XML structure 47
Table description 47
Columns 47
Device/SwitchFabricIsolates 48
XML structure 48
Table description 48
Columns 48
Device/Fans 49
XML structure 49

Table description ····· 49
Columns ····· 49
Device/PowerSupplys ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 51

Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <Uptime></Uptime>
    <HostName></HostName>
     <HostDescription></HostDescription>
     <HostOid></HostOid>
     <MinChassisNum></MinChassisNum>
     <MaxChassisNum></MaxChassisNum>
     <MinSlotNum></MinSlotNum>
     <MaxSlotNum></MaxSlotNum>
     <MinCPUIDNum></MinCPUIDNum>
    <MaxCPUIDNum></MaxCPUIDNum>
    <LocalTime></LocalTime>
    <ClockProtocol>
      <Protocol></Protocol>
      <MDCID></MDCID>
    </ClockProtocol>
    <TimeZone>
      <Zone></Zone>
      <ZoneName></ZoneName>
    </TimeZone>
    <BridgeMAC></BridgeMAC>
    <LocalBridgeMAC></LocalBridgeMAC>
    <VendorName></VendorName>
    <HardwareArchitecture></HardwareArchitecture>
    <DeviceType></DeviceType>
    <SystemPower></SystemPower>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Uptime	Time that elapsed after the device started up, in seconds	N/A	Unsigned integer.	N/A
HostName	Device name	N/A	String. Length: 1 to 64 characters.	N/A
HostDescription	Device description	N/A	String. Length: 0 to 255 characters.	N/A
HostOid	System object ID (OID)of the Device	N/A	String, dotted decimal notation.	N/A
MinChassisNum	Minimum number of the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxChassisNum	Maximum number of the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MinSlotNum	Minimum number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxSlotNum	Maximum number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MinCPUIDNum	Minimum ID of the CPU	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxCPUIDNum	Maximum ID of the CPU	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ClockProtocol	System time source	Data structure	Members include: • Protocol. • MDCID.	This data structure is supported only on the default MDC.
Protocol	Time protocol	N/A	Enumeration: • **2**-None. • **3**-NTP. • **4**-PTP. • **5**-Interface. • **6**-GNSS.	Required. Those methods that are supported depend on the device model.
MDCID	ID of the MDC used as the time source	N/A	Unsigned integer. Value range: 1 to 65535.	Supported and required on an MDC-supported device that uses NTP or PTP.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalTime	System time on the device	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeZone	Time zone and its name	Data structure	Members include: • Zone. • ZoneName.	N/A
Zone	Time zone.	N/A	String. Use one of the following formats: • **Z** for the UTC. • +HH:MM:SS for east time zone. • –HH:MM:SS for west time zone. Value ranges: • **HH**-0 to 23. • **MM**-0 to 59. • **SS**-0 to 59.	MM and SS are optional.
ZoneName	Time zone name	N/A	String. Length: 0 to 32 characters.	If the value of this column is null, the zone name is the default zone name **UTC**.
BridgeMAC	Bridge MAC Address	N/A	MacAddress	N/A
LocalBridgeMAC	Local Bridge MAC Address	N/A	MacAddress	N/A
VendorName	Vendor name	N/A	String. Length: 1 to 256 characters.	N/A
HardwareArchitecture	Hardware Architecture	N/A	Enumeration: • **1**-Modular. **2**-Fixed-port.	N/A
DeviceType	Device Type	N/A	Enumeration: • **0**-Other. • **1**-Switch. **2**-Router.	N/A
SystemPower	Total system power, in watts.	N/A	Unsigned integer.	Value 0 is invalid.

Device/PhysicalEntities

This table contains basic information about an entity.

XML structure

```
<Device>
```

```
  <PhysicalEntities>
    <Entity>
      <PhysicalIndex></PhysicalIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Description></Description>
      <VendorType></VendorType>
      <ContainedIn></ContainedIn>
      <Class></Class>
      <ParentRelPos></ParentRelPos>
      <Name></Name>
      <HardwareRev></HardwareRev>
      <FirmwareRev></FirmwareRev>
      <SoftwareRev></SoftwareRev>
      <SerialNumber></SerialNumber>
      <MfgName></MfgName>
      <Model></Model>
      <Alias></Alias>
      <AssetID></AssetID>
      <FRU></FRU>
      <MfgDate></MfgDate>
      <Uris></Uris>
      <ChassisName></ChassisName>
    </Entity>
  </PhysicalEntities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PhysicalEntities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index	Index	Unsigned integer.	
Chassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number of the entity	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	Subslot number of the entity	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
Description	Entity description	N/A	String. Length: 0 to 255 characters.	N/A
VendorType	Vendor type (OID)of the entity	N/A	String, dotted decimal notation.	N/A
ContainedIn	Position of the entity	N/A	Unsigned integer.	N/A
Class	Entity type	N/A	Enumeration. • **1**-Others. • **2**-Unknown. • **3**-Frame. • **4**-Backplane. • **5**-Slot or subslot. • **6**-Power supply. • **7**-Fan. • **8**-Sensor. • **9**-Module. It might indicates a card, a subcard, or, for example, a flash memory. • **10**-Port. • **11**-IRF fabric. • **12**-CPU.	N/A
ParentRelPos	Position of the entity's parent node	N/A	Signed integer. Minimum: –1.	N/A
Name	Entity name	N/A	String. Length: 0 to 255 characters.	N/A
HardwareRev	Hardware version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
FirmwareRev	Firmware version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
SoftwareRev	Software version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
SerialNumber	Serial number of the entity	N/A	String. Length: 0 to 32 characters.	N/A
MfgName	Manufacturer name of the entity	N/A	String. Length: 0 to 32 characters.	N/A
Model	Entity model	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 255 characters.	
Alias	Alias of the entity	N/A	String. Length: 0 to 32 characters.	N/A
AssetID	Asset ID of the entity	N/A	String. Length: 0 to 32 characters.	N/A
FRU	Whether the entity is a field replaceable unit	N/A	Enumeration: • **True**-Supports. • **False**-Does not support.	N/A
MfgDate	Manufacture time of the entity	N/A	Format: YYYY-MM-DDTHH:MM:SS.	N/A
Uris	CLEI code	N/A	String. Length: 0 to 32 characters.	N/A
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.	Only fcc and lcc are supported.

Device/ExtPhysicalEntities

This table contains extended information about an entity.

XML structure

```
<Device>
  <ExtPhysicalEntities>
    <Entity>
      <PhysicalIndex></PhysicalIndex>
      <AdminState></AdminState>
      <OperState></OperState>
      <StandbyState></StandbyState>
      <AlarmLight></AlarmLight>
      <CpuUsage ></CpuUsage>
      <CpuUsageThreshold></CpuUsageThreshold>
      <MemUsage></MemUsage>
      <MemUsageThreshold></MemUsageThreshold>
      <MemSize></MemSize>
      <Uptime></Uptime>
      <Temperature></Temperature>
      <TemperatureThreshold></TemperatureThreshold>
      <Voltage></Voltage>
      <VoltageLowThreshold></VoltageLowThreshold>
      <VoltageHighThreshold></VoltageHighThreshold>
      <TemperatureCriticalThreshold></TemperatureCriticalThreshold>
      <MAC></MAC>
      <ErrorStatus></ErrorStatus>
```

```
      <CpuMaxUsage></CpuMaxUsage>
      <TemperatureLowThreshold></TemperatureLowThreshold>
      <TemperatureShutdownThreshold></TemperatureShutdownThreshold>
      <PhyMemSize></PhyMemSize>
      <CpuFrequency></CpuFrequency>
      <FristUsedDate></FristUsedDate>
      <CpuAvgUsage></CpuAvgUsage>
      <MemAvgUsage></MemAvgUsage>
      <MemType></MemType>
      <ChassisName></ChassisName>
    </Entity>
  </ExtPhysicalEntities >
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	ExtPhysicalEntities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PhysicalIndex	Entity index	Index	Unsigned integer.
AdminState	Management status	N/A	Enumeration: • **1**-Unsupported. • **2**-Disabled. • **3**-Shut down. • **4**-Enabled.
OperState	Operation status	N/A	Enumeration: • **1**-Unsupported. • **2**-Unusable. • **3**-Usable. • **4**-Dangerous, cannot be used.
StandbyState	Standby status	N/A	Enumeration: • **1**-Unsupported. • **2**-Hot standby. • **3**-Cold standby. • **4**-In service.
AlarmLight	Alarm LED status	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
CpuUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
CpuUsageThreshold	CPU usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100
MemUsage	Memory usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemUsageThreshold	Memory usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100
MemSize	Memory size (bytes)	N/A	Unsigned integer.
Uptime	Time that elapsed after the entity started up (seconds)	N/A	Unsigned integer.
Temperature	Temperature of the entity (°C)	N/A	Signed integer.
TemperatureThreshold	High-temperature threshold (°C)	N/A	Signed integer.
Voltage	Voltage of the entity (V)	N/A	Unsigned integer.
VoltageLowThreshold	Low-voltage threshold (V)	N/A	Unsigned integer.
VoltageHighThreshold	High-voltage threshold (V)	N/A	Unsigned integer.
TemperatureCriticalThreshold	Critical high-voltage threshold (°C)	N/A	Signed integer.
MAC	MAC address of the entity	N/A	String. Format: HH-HH-HH-HH-HH-HH

Column name	Column description	Column type	Data type and restrictions
ErrorStatus	Error status of the entity	N/A	Unsigned integer, greater than 0. Commonly used states: • **1**-Not supported. • **2**-Normal. • **3**-Power-on self test failure. • **4**-The entity is absent. • **11**-POE error. • **21**-Stack error. • **22**-IRF port is blocked. • **23**-IRF port failed. • **31**-SFP receiving error. • **32**-SFP sending error. • **33**-SFP error in both direction. • **41**-Fan error. • **51**-PSU error. • **61**-RPS error. • **71**-Module is faulty. • **81**-Sensor error. • **91**-Hardware is faulty.
CpuMaxUsage	Maximum CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
TemperatureLowThreshold	Low temperature threshold (°C)	N/A	Signed integer.
TemperatureShutdownThreshold	Shutdown temperature threshold (°C)	N/A	Signed integer.
PhyMemSize	Physical memory size (bytes)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1
CpuFrequency	CPU frequency (Hz)	N/A	Unsigned integer.
FristUsedDate	Time when the entity was used for the first time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
CpuAvgUsage	Average CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemAvgUsage	Average memory usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemType	Memory type	N/A	String. Length: 0 to 32 characters.
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Device/Transceivers

This table contains power information about a transceiver module.

XML structure

```
<Device>
  <Transceivers>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <HardwareType></HardwareType>
      <TransceiverType></TransceiverType>
      <WaveLength></WaveLength>
      <VendorName></VendorName>
      <SerialNumber></SerialNumber>
      <FiberDiameterType></FiberDiameterType>
      <TransferDistance></TransferDistance>
      <Diagnostic></Diagnostic>
      <CurRxPower></CurRxPower>
      <MaxRxPower></MaxRxPower>
      <MinRxPower></MinRxPower>
      <CurTxPower></CurTxPower>
      <MaxTxPower></MaxTxPower>
      <MinTxPower></MinTxPower>
      <Temperature></Temperature>
      <Voltage></Voltage>
      <BiasCurrent></BiasCurrent>
      <TemperatureHiAlarm></TemperatureHiAlarm>
      <TemperatureLoAlarm></TemperatureLoAlarm>
      <TemperatureHiWarn></TemperatureHiWarn>
      <TemperatureLoWarn></TemperatureLoWarn>
      <VccHiAlarm></VccHiAlarm>
      <VccLoAlarm></VccLoAlarm>
      <VccHiWarn></VccHiWarn>
      <VccLoWarn></VccLoWarn>
      <BiasHiAlarm></BiasHiAlarm>
      <BiasLoAlarm></BiasLoAlarm>
      <BiasHiWarn></BiasHiWarn>
      <BiasLoWarn></BiasLoWarn>
      <PwrOutHiAlarm></PwrOutHiAlarm>
      <PwrOutLoAlarm></PwrOutLoAlarm>
      <PwrOutHiWarn></PwrOutHiWarn>
      <PwrOutLoWarn></PwrOutLoWarn>
      <RcvPwrHiAlarm></RcvPwrHiAlarm>
      <RcvPwrLoAlarm></RcvPwrLoAlarm>
      <RcvPwrHiWarn></RcvPwrHiWarn>
      <RcvPwrLoWarn></RcvPwrLoWarn>
```

```
      <TransceiverErrors></TransceiverErrors>
      <VendorOUI></VendorOUI>
      <RevisionNumber></RevisionNumber>
      <Frequency></Frequency>
      <ActiveITUChannel></ActiveITUChannel>
      <CurWaveErr></CurWaveErr>
      <WaveErrHiAlarm></WaveErrHiAlarm>
      <WaveErrLoAlarm></WaveErrLoAlarm>
      <CurFreqErr></CurFreqErr>
      <FreqErrHiAlarm></FreqErrHiAlarm>
      <FreqErrLoAlarm></FreqErrLoAlarm>
      <PartNumber></PartNumber>
      <ProductCode></ProductCode>
      <TransceiverSpeed></TransceiverSpeed>
    </Interface>
  </Transceivers>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Transceiver
Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for interfaces that support a transceiver

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *Ifmgr NETCONF XML API Configuration Reference*.
Name	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
HardwareType	Hardware type	N/A	String. Length: 0 to 63 characters.	For example, SM indicates single mode.
TransceiverType	Transceiver	N/A	String.	For example, SFP,

Column name	Column description	Column type	Data type and restrictions	Remarks
	type		Length: 0 to 63 characters.	XFP, and GBIC.
WaveLength	Wave length (nm)	N/A	Integer.	N/A
VendorName	Vendor name	N/A	String. Length: 0 to 63 characters.	N/A
SerialNumber	Serial number	N/A	String. Length: 0 to 63 characters.	N/A
FiberDiameterType	Fiber diameter type	N/A	Unsigned integer. Commonly used values: • **1**-Fiber, 9 µm. • **2**-Fiber, 50 µm. • **3**-Fiber, 62.5 µm. • **4**-Copper. • **65535**-Unknown.	N/A
TransferDistance	Maximum transmission distance (meters)	N/A	Integer.	N/A
Diagnostic	Diagnostic function	N/A	Unsigned integer: • **1**-Enabled. • **2**-Disabled.	N/A
CurRxPower	Current received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MaxRxPower	Maximum received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MinRxPower	Minimum received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
CurTxPower	Current transmitted optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MaxTxPower	Maximum transmitted optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MinTxPower	Minimum transmitted optical power (hundredths	N/A	Integer.	2147483647 means the device doesn't support this feature.

Column name	Column description	Column type	Data type and restrictions	Remarks
	of dBm)			
Temperature	Temperature (°C)	N/A	Integer.	N/A
Voltage	Voltage (one hundredth of a volt)	N/A	Integer.	N/A
BiasCurrent	Current (one hundredth of an mA)	N/A	Integer.	N/A
TemperatureHiAlarm	Transceiver temperature high alarm threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureLoAlarm	Transceiver temperature low alarm threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureHiWarn	Transceiver temperature high warning threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureLoWarn	Transceiver temperature low warning threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
VccHiAlarm	Transceiver VCC high alarm threshold (hundreds of microvolts)	N/A	Integer.	N/A
VccLoAlarm	Transceiver VCC low alarm threshold (hundreds of microvolts)	N/A	Integer.	N/A
VccHiWarn	Transceiver VCC high warning threshold (hundreds of microvolts)	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VccLoWarn	Transceiver VCC low warning threshold (hundreds of microvolts)	N/A	Integer.	N/A
BiasHiAlarm	Transceiver bias high alarm threshold (microamps)	N/A	Integer.	N/A
BiasLoAlarm	Transceiver bias low alarm threshold (microamps)	N/A	Integer.	N/A
BiasHiWarn	Transceiver bias high warning threshold (microamps)	N/A	Integer.	N/A
BiasLoWarn	Transceiver bias low warning threshold (microamps)	N/A	Integer.	N/A
PwrOutHiAlarm	Transceiver transmit power high alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutLoAlarm	Transceiver transmit power low alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutHiWarn	Transceiver transmit power high warning threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutLoWarn	Transceiver transmit power low warning thresholdt (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrHiAlarm	Transceiver receive power	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	high alarm threshold (tenths of microwatts)			
RcvPwrLoAlarm	Transceiver receive power low alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrHiWarn	Transceiver receive power high warning threshold (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrLoWarn	Transceiver receive power low warning threshold (tenths of microwattss)	N/A	Integer.	N/A
TransceiverErrors	Bitmask indicating transceiver errors	N/A	1: xcvrIOError(0) 2: xcvrChecksum(1) 3: xcvrTypeAndPortConfigMismatch(2) 4: xcvrTypeNotSupported(3) 5: wisLocalFault(4) 6: rcvOpticalPowerFault(5) 7: pmapmdReceiverLocalFault(6) 8: pcsReceiveLocalFault(7) 9: phyXSReceiveLocalFault(8) 10: laserBiasCurrentFault(9) 11: laserTemperatureFault(10) 12: laserOutputPowerFault(11) 13: txFault(12) 14: pmapmdTransmitterLocalFault(13) 15: pcsTransmitLocalFault(14) 16: phyXSTransmitLocalFault(15) 17: rxLossOfSignal(16) 18:tecError(17) 19:wavelengthUnlocked (18) 20:txIsNotReadyDueToTuning (19)	N/A
VendorOUI	Vendor OUI of	N/A	String. HHHHHH	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the interface		Length: 6 characters. For example, 78a714.	
RevisionNumber	Revision number of the interface	N/A	String. Length: 0 to 63 characters.	N/A
Frequency	Frequency(hundredths of THz)	N/A	Integer.	N/A
ActiveITUChannel	Index of the current ITU channel	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
CurWaveErr	Current wave length error(thousandths of nm)	N/A	Integer.	N/A
WaveErrHiAlarm	High wave length error alarm threshold (thousandths of nm)	N/A	Integer.	N/A
WaveErrLoAlarm	Low wave length error alarm threshold (thousandths of nm)	N/A	Integer.	N/A
CurFreqErr	Current frequency error(tenths of GHz)	N/A	Integer.	N/A
FreqErrHiAlarm	High frequency error alarm threshold (tenths of GHz)	N/A	Integer.	N/A
FreqErrLoAlarm	Low frequency error alarm threshold (tenths of GHz)	N/A	Integer.	N/A
PartNumber	Part number	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
ProductCode	Product code	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
TransceiverSpeed	The transceiver speed info(MB)	N/A	Integer.	N/A

Device/TransceiversChannels

This table provides statistics for transceiver modules with multiple channels.

XML structure

```
<Device>
  <TransceiversChannels>
    <Interface>
      <IfIndex></IfIndex>
      <ChannelIndex></ChannelIndex>
      <ChannelCurTXPower></ChannelCurTXPower>
      <ChannelCurRXPower></ChannelCurRXPower>
      <ChannelTemperature></ChannelTemperature>
      <ChannelBiasCurrent></ChannelBiasCurrent>
    </Interface>
  </TransceiversChannels>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TransceiversChannels
Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for interfaces that support a transceiver module

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column is available in some versions. For more information, see the XSD document for your product. For information about IfIndex, see "Appendix" in *Ifmgr NETCONF XML API Configuration Reference*.
ChannelIndex	Optical channel index	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ChannelCurT	Current	N/A	Integer.	2147483647

Column name	Column description	Column type	Data type and restrictions	Remarks
XPower	transmitted optical power of the channel (hundredths of dBm)			means the device doesn't support this feature.
ChannelCurRXPower	Current received optical power of the channel (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
ChannelTemperature	Temperature of the channel (°C)	N/A	Integer.	Some versions support current temperature. For relevant information, see the XSD document of your product.2147483647 means the device doesn't support this feature.
ChannelBiasCurrent	Current of the channel (one hundredth of an mA)	N/A	Integer.	2147483647 means the device doesn't support this feature.

Device/TransceiversITUChannels

This table contains information about ITU channels supported on the transceiver that is connected to this interface.

XML structure

```
<Device>
  <TransceiversITUChannels>
    <Interface>
      <IfIndex></IfIndex>
      <ITUChannelIndex></ITUChannelIndex>
      <ITUChannelFrequency></ITUChannelFrequency>
      <ITUChannelWaveLength></ITUChannelWaveLength>
    </Interface>
  </TransceiversITUChannels>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TransceiversITUChannels

Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for ITU channels supported on the transceiver that is connected to this interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
ITUChannelIndex	The index of the specified ITU channel	Index	Unsigned integer. Value range:1 to 4294967295.	N/A
ITUChannelFrequency	The frequency of the specified ITU channel (hundredths of THz)	N/A	Integer.	N/A
ITUChannelWaveLength	The wave length of the specified ITU channel (thousandths of nm)	N/A	Integer.	N/A

Device/CPUs

This table contains usage information about the logical CPUs.

XML structure

```
<Device>
  <CPUs>
    <CPU>
      <PhysicalIndex></PhysicalIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CPUUsage></CPUUsage>
      <ChassisName></ChassisName>
    </CPU>
  </CPUs>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions
PhysicalIndex	Entity index	Index	Unsigned integer.
Chassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Device/SummerTime

This table contains summer-time information.

XML structure

```
<Device>
  <SummerTime>
    <Name></Name>
    <AddTime></AddTime>
    <DateBased>
      <BeginMonth></BeginMonth>
      <BeginDay></BeginDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
```

```
      <EndDay></EndDay>
      <EndHour></EndHour>
      <EndMinute></EndMinute>
      <EndSecond></EndSecond>
    </DateBased>
    <WeekBased>
      <BeginMonth></BeginMonth>
      <BeginWeek></BeginWeek>
      <BeginWeekDay></BeginWeekDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndWeek></EndWeek>
      <EndWeekDay></EndWeekDay>
      <EndHour></EndHour>
      <EndMinute></EndMinute>
      <EndSecond></EndSecond>
    </WeekBased>
  </SummerTime>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SummerTime
Table type	Single-instance table
Row name	N/A
Restrictions	Group DateBased and WeekBased are two configuration ways. Only one way can take effect at the same time.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name for the daylight saving time.	N/A	String. Length: 1 to 32 characters.	N/A
AddTime	The time to be added to the standard time.	N/A	String. Formats: • HH:MM:SS	Value ranges: • **HH**-0 to 23. • **MM**-0 to 59. • **SS**-0 to 59.

Column name	Column description	Column type	Data type and restrictions	Remarks
DateBased	Daylight saving time configuration based on date.	Data Structure	Members include: • BeginMonth • BeginDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndDay • EndHour • EndMinute • EndSecond	N/A
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginDay	Begin day.	N/A	Unsigned integer. • Value range: 1 to 31.	N/A
BeginHour	Begin hour.	N/A	Unsigned integer. • Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndDay	End day.	N/A	Unsigned integer. Value range: 1 to 31.	N/A
EndHour	End hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
WeekBased	Daylight saving time configuration based on week.	Data Structure	Members include: • BeginMonth • BeginWeek • BeginWeekDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndWeek • EndWeekDay • EndHour • EndMinute • EndSecond	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginWeek	Begin week of the month.	N/A	Enumeration: • **1**-The first week • **2**-The second week • **3**-The third week • **4**-The fourth week • 5-The fifth week • 6-The last week	Non-existent weeks of the month are treated as the last week.
BeginWeekDay	Begin day of week.	N/A	Enumeration: • 0-Sunday • **1**-Monday • **2**-Tuesday • **3**-Wednesday • **4**-Thursday • **5**-Friday • **6**-Saturday	N/A
BeginHour	Begin hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndWeek	End week of the month.	N/A	Enumeration: • **1**-The first week • **2**-The second week • **3**-The third week • **4**-The fourth week • 5-The fifth week • 6-The last week	Non-existent weeks of the month are treated as the last week.
EndWeekDay	End day of week.	N/A	Enumeration: • 0-Sunday • **1**-Monday • **2**-Tuesday • **3**-Wednesday • **4**-Thursday • **5**-Friday • **6**-Saturday	N/A
EndHour	End hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Device/Boards

This table contains board information.

XML structure

```
<Device>
  <Boards>
    <Board>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <PhysicalIndex></PhysicalIndex>
      <Status></Status>
      <Role></Role>
      <BelongtoCurMDC></BelongtoCurMDC>
      <Uptime></Uptime>
      <TotalPower></TotalPower>
      <NominalPower></NominalPower>
      <ResidualPower></ResidualPower>
      <ChassisName></ChassisName>
     </Board>
  </Boards>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Boards
Table type	Multi-instance table
Row name	Board
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	0 represent main CPU of current board.
PhysicalIndex	Entity index.	N/A	Unsigned integer.	The index is 0 when board is absent.
Status	Status of the device node.	N/A	Enumeration: • 1-Absent • **2**-Normal • **3**-Fault	N/A
Role	Role of the device node.	N/A	Enumeration: • 1-`Unknown` • **2**-`ActiveMPU` • **3**-`StandbyMPU` • **4**-`LPU`	Role is Unknown when status is Absent or Fault.
BelongtoCurMDC	Whether the device node belongs to the current MDC	N/A	Boolean: • true • false	An MPU belongs to all MDCs. If you reclaim an LPU from the default MDC, the LPU does not belong to the default MDC.
Uptime	Time that elapsed after the device started up, in seconds	N/A	Unsigned integer.	N/A
TotalPower	Total power of the card, in watts.	N/A	Unsigned integer.	Value 0 is invalid.
NominalPower	Nominal power of the card, in watts.	N/A	Unsigned integer.	N/A
Residual Power	Remaining power of the card, in watts.	N/A	Unsigned integer.	N/A
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.	Only fcc and lcc are supported.

Device/Blades

This table contains blade information.

XML structure

```
<Device>
  <Blades>
    <Blade>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Model></Model>
    </Blade>
  </Blades>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Blades
Table type	Multi-instance table
Row name	blade
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Position of the device Node.	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
Model	Device model of blade board.	N/A	String. Length: 1 to 63 characters.

Device/PEXes

This table contains PEX board information.

XML structure

```
<Device>
  <PEXes>
    <PEX>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Model></Model>
    </PEX>
  </PEXes>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PEXes
Table type	Multi-instance table
Row name	PEX
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Position of the device Node.	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
Model	Device model of PEX board.	N/A	String. Length: 1 to 63 characters.

Device/BladeCapabilities

This table contains capabilities of blade board.

XML structure

```
<Device>
  <BladeCapabilities>
    <Blade>
      <Model></Model>
    </Blade>
  </BladeCapabilities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	BladeCapabilities
Table type	Multi-instance table
Row name	Blade
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Model	Device model of blade board.	Index	String. Length: 1 to 63 characters.

Device/PEXCapabilities

This table contains capabilities of PEX board.

XML structure

```
<Device>
  <PEXCapabilities>
    <PEX>
```

```
      <Model></Model>
    </PEX>
  </PEXCapabilities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PEXCapabilities
Table type	Multi-instance table
Row name	PEX
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Model	Device model of PEX board.	Index	String. Length: 1 to 63 characters.

Device/MDCs

XML structure

```
<Device>
  <MDCs>
    <MDCType></MDCType>
    <MDCID></MDCID>
  </MDCs>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	MDCs
Table type	Single -instance table
Row name	N/A

Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
MDCType	Type of Virtualization.	N/A	Enumeration: • **1**-MDC • **2**-Context
MDCID	MDC identifier.	N/A	Unsigned integer. Value range: 1 to 65535.

Device/FailoverGroupCapabilities

This table contains capabilities of failover group.

XML structure

```
<Device>
  <FailoverGroupCapabilities>
    <FailoverGroupSupport></FailoverGroupSupport>
  </FailoverGroupCapabilities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroupCapabilities
Table type	Single -instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
FailoverGroupSupport	Is support failover group.	N/A	Boolean: • true • false

Device/FailoverGroups

This table contains failover group information.

XML structure

```
<Device>
  <FailoverGroups>
    <FailoverGroup>
      <ID></ID>
      <Name></Name>
      <PrimaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </PrimaryNode>
      <SecondaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </SecondaryNode>
      <State></State>
    </FailoverGroup>
  </FailoverGroups>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroups
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Failover group id	index	Unsigned integer. Value range: 0 to 31.
Name	Failover group name	N/A	String. Length: 1 to 63 characters.
PrimaryNode	Primary node of the	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	failover group.		• Chassis • Slot • CPUID
Chassis	Chassis ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
SecondaryNode	Secondarynode of the failover group.	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.
State	State of the failover group.	N/A	Enumeration: • 1-Initial • **2**-Primary • **3**-Secondary

Device/Subcards

This table contains subcard information.

XML structure

```
<Device>
  <Subcards>
    <Subcard>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SubSlot></SubSlot>
      <PhysicalIndex></PhysicalIndex>
      <Status></Status>
      <SupportModes></SupportModes>
    </Subcard>
  </Subcards>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Subcards
Table type	Multi-instance table
Row name	Subcard
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
SubSlot	Subslot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Physical index of the subslot	N/A	Unsigned integer. Value range: 0 to 65535.
Status	Status of the subcard	N/A	Enumeration: • SubcardRemoved-The subcard has been removed. • SubcardNormal-The subcard is operating correctly. • SubcardFault-The subcard is fault.
SupportModes	Available operating modes for the specified interface card	N/A	Available operating modes depend on the interface card type.Each mode is separated by comma “,”, such as [‘e1’,’t1’,’oc-3’].

Device/TemperatureSensors

This table contains the temperature sensor information.

XML structure

```
<Device>
  <TemperatureSensors>
    <Sensor>
```

```
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SensorType></SensorType>
      <SensorIndex></SensorIndex>
      <SensorStatus></SensorStatus>
      <CurrentTemperature></CurrentTemperature>
      <LowerLimit></LowerLimit >
      <WarningLimit></WarningLimit >
      <AlarmLimit></AlarmLimit>
      <ShutdownLimit></ShutdownLimit>
      <ChassisName></ChassisName>
    </Sensor>
  </TemperatureSensors>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TemperatureSensors
Table type	Multi-instance table
Row name	Sensor
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
SensorType	Type of the temperature sensor.	Index	Enumeration: • 0-inflow • 1-outflow • 2-Hotspot
SensorIndex	Resource ID of the temperature sensor.	Index	Unsigned integer. Value range: 0 to 65535.
SensorStatus	Status of the temperature sensor	N/A	Enumeration: • TemperatureNormal-The temperature is normal. • TemperatureLower-The temperature

Column name	Column description	Column type	Data type and restrictions
			dropped to or below the low-temperature threshold. • TemperatureWarnning-The temperature increased to or above the high-temperature warning threshold. • TemperatureAlarm-The temperature increased to or above the high-temperature alarming threshold. • TemperatureShutdown-The temperature increased to or above the high-temperature shutdown threshold.
CurrentTemperature	Current temperature (°C)	N/A	Short
LowerLimit	Lower limit temperature (°C)	N/A	Short
WarningLimit	Warnning limit temperature (°C)	N/A	Short
AlarmLimit	Alarm limit temperature (°C)	N/A	Short
ShutdownLimit	Shutdown limit temperature (°C)	N/A	Short
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Device/SystemStableStatus

This table contains system stability and status information.

XML structure

```
<Device>
  <SystemStableStatus>
    <SystemStatus></SystemStatus>
    <Redundancy></Redundancy>
  </SystemStableStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SystemStableStatus
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
SystemStatus	System status	N/A	Enumeration: • Stable • Not ready
Redundancy	System redundancy status	N/A	Enumeration: • Stable • No redundancy • Not ready

Device/BoardStableStatus

This table contains stability and status information for cards or member devices

XML structure

```
<Device>
  <BoardStableStatus>
    <StableState>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPU></CPU>
      <Role></Role>
      <Status></Status>
      <ChassisName></ChassisName>
    </StableState>
  </BoardStableStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	BoardStableStatus
Table type	Multi-instance table
Row name	StableState
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPU	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
Role	Role of the card or member device	N/A	Enumeration: • Active • Standby • Other
Status	Status of the card or member device	N/A	Enumeration: • Stable • Board inserted • Kernel initiating • Service starting • Service stopping • HA Batch backup • Interface data batch backup • Service module data batch backup • MDC starting • MDC stopping • Context starting • Context stopping
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Device/NetworkClockChassisStatus

This table contains network clock monitoring module status information.

XML structure

```
<Device>
  <NetworkClockChassisStatus>
    <ChassisStatus>
      <Chassis></Chassis>
      <Mode></Mode>
      <LockMode></LockMode>
      <SSMOutputLevel></SSMOutputLevel>
      <ControlEnable></ControlEnable>
      <ReferenceType></ReferenceType>
      <ReferenceIndex></ReferenceIndex>
```

```
    </ChassisStatus>
  </NetworkClockChassisStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	NetworkClockChassisStatus
Table type	Multi-instance table
Row name	ChassisStatus
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Work mode	N/A	Enumeration: • Auto • Manual	N/A
LockMode	Phase lock status	N/A	Enumeration: • Freerun • Locked • Holdover • Pre-Locked • Pre-Locked2 • Lost • Unknown	N/A
SSMOutputLevel	Signal quality level of the clock source in the SSM	N/A	Enumeration: • PRC • SSU-A • SSU-B • SEC • DNU • Unknown	N/A
ControlEnable	SSM control enabling status	N/A	Enumeration: • On • Off	N/A
ReferenceType	Reference type	N/A	Enumeration: • SrcClkmIndex • InterfaceIndex	Used with ReferenceIndex When there is no selected clock source, this column is empty.
Referenc	Reference index	N/A	Unsigned integer.	When ReferenceType is

Column name	Column description	Column type	Data type and restrictions	Remarks
eIndex			Value range: 0 to 65535.	SrcClkmIndex, this field represents an enumeration, which might be: • BITS0 • BITS1 • PTP Otherwise it represents an interface index. When there is no selected clock source, this column is empty.

Device/NetworkClockSrcStatus

This table contains clock source status information.

XML structure

```
<Device>
  <NetworkClockSrcStatus>
    <SrcStatus>
      <Chassis></Chassis>
      <ClockSource></ClockSource>
      <State></State>
      <Priority></Priority>
      <SSMLevel></SSMLevel>
      <ForceSSM></ForceSSM>
      <SABit></SABit>
      <Frequency></Frequency>
    </SrcStatus>
  </NetworkClockSrcStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	NetworkClockSrcStatus
Table type	Multi-instance table
Row name	SrcStatus
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
ClockSource	Clock source	Index	Enumeration: • BITS0 • BITS1 • PTP
State	Clock state	N/A	Enumeration: • N/A • Normal • Lost
Priority	Clock priority	N/A	Unsigned integer. Value range: 0 to 255.
SSMLevel	Clock source quality level in the SSM	N/A	Enumeration: • PRC • SSU-A • SSU-B • SEC • DNU • Unknown
ForceSSM	Whether or not get the SSM level	N/A	Enumeration: • On • Off
SABit	Sa bit used by BITS to transmit the SSM	N/A	Enumeration: • N/A • sa4 • sa5 • sa6 • sa7 • sa8
Frequency	Frequency of the BITs clock	N/A	Enumeration: • N/A • 2Mbps • 2MHz

Device/NetworkClockLPUPortStatus

This table contains line clock input port status information.

XML structure

```
<Device>
  <NetworkClockLPUPortStatus>
    <LPUPortStatus>
```

```
      <Port></Port>
      <Chassis></Chassis>
      <State></State>
      <Priority></Priority>
      <SSMLevel></SSMLevel>
      <ForceSSM></ForceSSM>
      <LPUPort></LPUPort>
    </LPUPortStatus>
  </NetworkClockLPUPortStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	NetworkClockLPUPortStatus
Table type	Multi-instance table
Row name	LPUPortStatus
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Port	Interface index	Index	Unsigned integer. Value range: 0 to 65535.
Chassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.
State	Clock state	N/A	Enumeration: • N/A • Normal • Lost
Priority	Clock priority	N/A	Unsigned integer. Value range: 0 to 255.
SSMLevel	Signal quality level of the line clock input port in the SSM	N/A	Enumeration: • PRC • SSU-A • SSU-B • SEC • DNU • Unknown
ForceSSM	Whether or not get the SSM level	N/A	Enumeration: • On • Off
LPUPort	Whether or not the line	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
	clock input port is up		• Yes • No • N/A

Device/FanDirections

This table contains fan directions settings.

XML structure

```
<Device>
  <FanDirections>
    <Fan>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
      <DefaultDirection></DefaultDirection>
    </Fan>
  </FanDirections>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FanDirections
Table type	Multi-instance table
Row name	Fan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
Direction	Direction of the fan	N/A	Enumeration: • 1-power-to-port • 2-port-to-power
DefaultDirection	Default direction of the fan	N/A	Enumeration: • 1-power-to-port • 2-port-to-power

Device/TransceiverMonitor

This table contains transceiver monitoring information.

XML structure

```
<Device>
  <TransceiverMonitor>
    <State></State>
    <Interval></Interval>
  </TransceiverMonitor>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TransceiverMonitor
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Transceiver monitoring enabling status	N/A	Enumeration: • **enable**—Tansceiver monitoring is enabled**.** • **disable**—Transceiver monitoring is disabled.	N/A
Interval	Monitoring interval in seconds	N/A	Unsigned integer. Value range: 300 to 3600.	N/A

Device/Chassis

This table contains chassis information.

XML structure

```
<Device>
 <Chassis>
   <Chassis>
      <GlobalID></GlobalID>
      <Type></Type>
      <DisplayID></DisplayID>
      <Name></Name>
      <SlotNumber></SlotNumber>
      <AdminStatus></AdminStatus>
      <TotalPower></TotalPower>
      <NominalPower></NominalPower>
      <ResidualPower></ResidualPower>
   </Chassis>
 </Chassis>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Chassis
Table type	Multi-instance table
Row name	Chassis
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Column name
GlobalID	Global chassis number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Chassis type.	N/A	Enumeration: • 1—None • 2—LCC • 3—FCC	In a cluster, this object indicates the chassis type, LCC or FCC. For cluster-incapa

				ble devices, this object returns 1 (None).
DisplayID	Numeric chassis number.	N/A	Unsigned integer. Value range: 0 to 65535.	LCCs and FCCs are numbered separately in a cluster. For cluster-incapable devices, this object returns the global chassis number.
Name	Chassis description.	N/A	String. Length: 0 to 63 characters.	For LCCs and cluster-incapable devices, this object equals the numeric chassis number. For FCCs, this object equals the chassis type plus the numeric chassis number.
SlotNumber	Number of slots in the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdminStatus	Chassis status.	N/A	Enumeration: • 1—Normal • 2—Faulty • 3—Other	N/A
TotalPower	Total power of the chassis, in watts.	N/A	Unsigned integer.	Value 0 is invalid.
NominalPower	Nominal power of the chassis, in watts.	N/A	Unsigned integer.	N/A
ResidualPower	Remaining power of the chassis, in watts.	N/A	Unsigned integer.	N/A

Device/Chassises

This table contains chassis information.

XML structure

```
<Device>
 <Chassises>
   <Chassis>
      <GlobalID></GlobalID>
      <Type></Type>
      <DisplayID></DisplayID>
      <Name></Name>
      <SlotNumber></SlotNumber>
      <AdminStatus></AdminStatus>
```

```
      <TotalPower></TotalPower>
      <NominalPower></NominalPower>
      <ResidualPower></ResidualPower>
    </Chassis>
  </Chassises>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Chassises
Table type	Multi-instance table
Row name	Chassises
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Column name
GlobalID	Global chassis number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Chassis type.	N/A	Enumeration: • 1—None • 2—LCC • 3—FCC	In a cluster, this object indicates the chassis type, LCC or FCC. For cluster-incapable devices, this object returns 1 (None).
DisplayID	Chassis number.	N/A	Unsigned integer. Value range: 0 to 65535.	LCCs and FCCs are numbered separately in a cluster. For cluster-incapable devices, this object returns the global chassis number.
Name	Chassis description.	N/A	String. Length: 0 to 63 characters.	For LCCs and cluster-incapable devices, this object equals the numeric chassis number. For FCCs, this object equals the chassis type plus the numeric chassis number.

SlotNumber	Number of slots in the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdminStatus	Chassis status.	N/A	Enumeration: • 1—Normal • 2—Faulty • 3—Other	N/A
TotalPower	Total power of the chassis, in watts.	N/A	Unsigned integer.	Value 0 is invalid.
NominalPower	Nominal power of the chassis, in watts.	N/A	Unsigned integer.	N/A
ResidualPower	Remaining power of the chassis, in watts.	N/A	Unsigned integer.	N/A

Device/PowerSupplyPolicys

This table contains information about power supply policies.

XML structure

```
<Device>
  <PowerSupplyPolicys>
    <PowerSupplyPolicy>
      <Chassis></Chassis>
      <Enable></Enable>
    </PowerSupplyPolicy>
  </PowerSupplyPolicys>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PowerSupplyPolicys
Table type	Multi-instance table
Row name	PowerSupplyPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device		Value range: 0 to 65535.	

Enable	Power supply policy enabling status	N/A	• Boolean:
			  • **true.**
			  • **false.**
				N/A

Device/SwitchFabricIsolates

This table contains switching fabric module isolation information.

XML structure

```
<Device>
  <SwitchFabricIsolates>
    <SwitchFabricIsolate>
      <Chassis></Chassis>
      <Slot></Slot>
      <Isolate></Isolate>
    </SwitchFabricIsolate>
  </SwitchFabricIsolates>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SwitchFabricIsolates
Table type	Multi-instance table
Row name	SwitchFabricIsolate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member device	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	Index	Unsigned integer. • Value range: 0 to 65535.	N/A

Isolate	Isolation status	N/A	• Boolean:
			  • **true.**
			  • **false.**
				N/A

Device/Fans

This table contains fan tray information.

XML structure

```
<Device>
  <Fans>
    <Fan>
      <Chassis></Chassis>
      <Slot></Slot>
      <Index></Index>
      <Status></Status>
      <Mode></Mode>
      <CurrentSpeed></CurrentSpeed>
      <MaxSpeed></MaxSpeed>
      <SpeedPercent></SpeedPercent>
    </Fan>
  </Fans>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Fans
Table type	Multi-instance table
Row name	Fan
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the membe device	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
Index	Fan tray ID	Index	Unsigned integer. Value range: 0 to 65535.
Status	Status of the fan tray	N/A	Enumeration: • **0**—Absent. • **1**—Normal. • **2**—Fault.
Mode	Configuration mode of the fan tray	N/A	Enumeration: • **1**—Auto. • **2**—Manual.
CurrentSpeed	Current speed of the fan tray	N/A	Unsigned integer.
MaxSpeed	Max speed of the fan tray	N/A	Unsigned integer.
SpeedPercent	Speed of the fan tray, as a percentage of the maximum speed	N/A	Unsigned integer.

Device/PowerSupplys

This table contains power supply information.

XML structure

```
<Device>
  <PowerSupplys>
    <PowerSupply>
      <Chassis></Chassis>
      <Slot></Slot>
      <Index></Index>
      <Type></Type>
      <Status></Status>
    </PowerSupply>
  </PowerSupplys>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PowerSupplys

Table type	Multi-instance table
Row name	PowerSupply
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member device	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.
Index	Power supply ID	Index	Unsigned integer. Value range: 0 to 65535.
Type	Type of power supply	N/A	Enumeration: • **1**—AC. • **2**—DC.
Status	Status of the power supply.	N/A	Enumeration: • **0**—Absent. • **1**—Normal. • **2**—Faulty.

Contents

Device 2

Device/SummerTime 2
Device/FailoverGroups 2
Device/Transceivers 3
Device/ PowerSupplyOnOffs 4

Device

Device/SummerTime

Message	Explanation
Unsupported parameter. 不支持此参数。	When modify the time protocol by netconf, check the parameters are not supported. 通过 netconf 配置时间协议时，检查到参数不支持。
Incomplete parameter. 参数输入不完整。	When modify the time protocol by netconf, check the parameters are incomplete. 通过netconf配置时间协议时，检查到参数不完整。
Please set clock protocol manual mode first. 请先将时间协议配置为手工模式。	If it’s not allowed to set system time, please set clock protocol manual mode first. 如果不被允许设置系统时间，需要先将时间协议配置为手工模式。
End time must be later than start time, and the time range determined can't be shorter than one day or longer than one year. 结束时间必须晚于起始时间，并且时间范围不得短于一天或长于一年。	The prompt when failed to set summer time. 设置夏令时失败时的提示。
Please choose either datebased or weekbased to configure the summertime. 请选择基于日期或者基于周的配置方式。	When setting summer time, date and week can only choose one, if both of them are not 0 , this prompt will be printed. 设置夏令时时，日期和周只能配置一个，如果日期和周的参数都不为0，则打印此提示。
The device does not support PTP. 当前设备不支持PTP协议。	When setting time source with PTP protocol, but the device doesn’t support PTP, this prompt will be printed. 设置设备通过PTP协议获取时间，但设备不支持PTP协议时，会打印此提示。
The device does not support GNSS. 当前设备不支持GNSS。	When setting time source with GNSS, but the device doesn’t support GNSS, this prompt will be printed. 设置设备通过GNSS获取时间，但设备不支持GNSS时，会打印此提示。
Invalid date 无效的日期	Setting summer time with begin time and end time, if check out that the begin time or the end time are not allowed, this prompt will be printed. 设置夏令时的起始和终止时间时，检查起始和终止时间不合法时，打印此提示。

Device/FailoverGroups

Message	Explanation
Failed to create the failover group. 创建备份组失败。	The prompt when failed to create the failover group. 创建备份组失败时的提示。
Number of failover groups exceeded the limit. 备份组个数达到最大值。	The prompt when the number of failover groups exceeded the limit. 创建备份组时，备份组个数达到最大值。

This member has been configured as the primary member for another failover group. Please specify another member. 这个节点已经指定为另一个备份组的主节点，请绑定其他节点。	When operate a member, if this member has been configured as the primary member for another failover group, this prompt will be printed. 对某一个节点进行操作时，如果这个节点已经被指定为另一个备份组的主节点，则打印此提示。
This member has been added with a different attribute to the group. To change the attribute, remove the member and add the member with the new attribute. 这个节点已配置为该备份组的另一属性。需要改变节点属性，请先移除该节点再以新的属性绑定。	When configuring attribute to a member, if this member has been added with a different attribute to the group, this prompt will be printed. 对某一节点配置属性时，如果已经配置为该备份组的另一属性，则打印此提示。
The attribute has been configured for another member in this failover group. 备份组的这个属性已经配置了另一节点。	When configuring attribute to a member, if this attribute has been added to a different member of the group, this prompt will be printed. 对某一节点配置属性时，如果该属性已经配置给了该备份组的另一节点，则打印此提示。
Main and Standby conflict. 主备节点冲突。	暂未使用
Operation failed. 操作失败。	When operate the failover group failed, and the reason is not clear, this prompt will be printed by default. 对备份组操作失败时，但又没有返回问题原因，则默认打印此提示。
The failovergroup name and ID must identify the same failovergroup. 输入的备份组名称有误，请输入与ID对应的名称。	When the name and ID is not matched to the failovergroup, this prompt will be printed. 如果获取的备份组名称和ID与备份组不匹配，则打印此提示。
Invalid failovergroup ID or Name. 输入的备份组ID或Name无效。	When the name and ID is invalid, this prompt will be printed. 创建备份组时，输入的备份组ID或Name无效，则打印此提示。

Device/Transceivers

The transceiver is absent. 可插拔光模块不在位。	When failed to set ITU channel num to the driver, the reason is the transceiver is absent. 设置ITU channel 通道号到驱动失败时，驱动返回失败原因为可插拔光模块不在位。
The transceiver does not support this function. 可插拔光模块不支持该功能。	When failed to set ITU channel num to the driver, the reason is the transceiver does not support this function. 设置ITU channel 通道号到驱动失败时，驱动返回失败原因为可插拔光模块不支持该功能。
The port has no transceiver information. 获取可插拔光模块信息失败。	When failed to set ITU channel num to the driver, the reason is the port has no transceiver information. 设置ITU channel 通道号到驱动失败时，驱动返回失败原因为获取可插拔光模块信息失败。
Operation failed. 操作失败。	When failed to set ITU channel num to the driver, and the reason does not given, this prompt will be printed by default. 设置ITU channel 通道号到驱动失败时，驱动没有返回失败原因，则默认打印此提示。

Device/ PowerSupplyOnOffs

Operation failed. 操作失败。	Operation failed. Reason: Power supply management is not enabled. 隔离单板需要先使能电源管理功能。

Contents

Device event stream 1

BoardEvent event 1
XML structure for event subscription 1
XML structure for event report 2
SubcardEvent event 3
XML structure for event subscription 3
XML structure for event report 4
TemperatureEvent event 5
XML structure for event subscription 5
XML structure for event report 6
SystemStableStatusEvent event 8
XML structure for event subscription 8
XML structure for event report 8
BoardStableStatusEvent event 9
XML structure for event subscription 9
XML structure for event report 10
PowerFailEvent event 11
XML structure for event subscription 11
XML structure for event report 12
PowerNormalEvent event 13
XML structure for event subscription 13
XML structure for event report 14
PowerRemoveEvent event 15
XML structure for event subscription 15
XML structure for event report 16
PowerIncompatibleEvent event 17
XML structure for event subscription 17
XML structure for event report 18
PowerInsertEvent event 19
XML structure for event subscription 19
XML structure for event report 20
FanEvent event 21
XML structure for event subscription 21
XML structure for event report 22

Device event stream

BoardEvent event

This event is used to report card or member device alarm information.

XML structure for event subscription

```
<BoardEvent>
  <Board>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Board>
</BoardEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <BoardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Board>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Board>
      </BoardEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	BoardEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity	Unsigned integer. Value range: 0 to	No

Column name	Column description	Data type and restrictions	Support for extended queries
	resides	65535.	
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<BoardEvent>
  <Board>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PhysicalIndex></PhysicalIndex>
    <BoardStatus></BoardStatus>
  </Board>
</BoardEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BoardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Board>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <PhysicalIndex>100</PhysicalIndex>
      <BoardStatus>BoardNormal</BoardStatus>
    </Board>
  </BoardEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index.	Unsigned integer.

Column name	Column description	Data type and restrictions
		Value range: 0 to 65535.
BoardStatus	Status of the card	Enumeration: • BoardRemoved-The card has been removed. • BoardNormal-The card is operating correctly. • BoardFault-The card is faulty.

SubcardEvent event

This event is used to report subcard alarm information.

XML structure for event subscription

```
<SubcardEvent>
  <Subcard>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <SubSlot></SubSlot>
  </Subcard>
</SubcardEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <SubcardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Subcard>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <SubSlot>1</SubSlot>
        </Subcard>
      </SubcardEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	SubcardEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0

Item	Description
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
SubSlot	Subslot number of the entity	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<SubcardEvent>
  <Subcard>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <SubSlot></SubSlot>
    <PhysicalIndex></PhysicalIndex>
    <SubcardStatus></SubcardStatus>
  </Subcard>
</SubcardEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SubcardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Subcard>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <SubSlot>1</SubSlot>
      <PhysicalIndex>100</PhysicalIndex>
      <SubcardStatus>SubcardRemoved</SubcardStatus>
    </Subcard>
  </SubcardEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
SubSlot	Subslot number of the entity	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index.	Unsigned integer. Value range: 0 to 65535.
SubcardStatus	Status of the subcard	Enumeration: • SubcardRemoved-The subcard has been removed. • SubcardNormal-The subcard is operating correctly. • SubcardFault-The subcard is fault.

TemperatureEvent event

This event is used to report temperature alarm information.

XML structure for event subscription

```
<TemperatureEvent>
  <Temperature>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Temperature>
</TemperatureEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <TemperatureEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Temperature>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
```

```
      </Temperature>
    </TemperatureEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	TemperatureEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<TemperatureEvent>
  <Temperature>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PhysicalIndex></PhysicalIndex>
    <SensorType></SensorType>
    <Status></Status>
    <CurrentTemperature></CurrentTemperature>
    <LowerLimitTemperature></LowerLimitTemperature>
    <WarnningLimitTemperature></WarnningLimitTemperature>
    <AlarmLimitTemperature></AlarmLimitTemperature>
    <ShutdownLimitTemperature></ShutdownLimitTemperature>
  </Temperature>
</TemperatureEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TemperatureEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
```

```
    <Temperature>
     <Chassis>0</Chassis>
     <Slot>0</Slot>
     <CPUID>0</CPUID>
     <PhysicalIndex>100</PhysicalIndex>
     <SensorType>Hotspot</SensorType>
     <Status>TemperatureWarnning</Status>
     <CurrentTemperature>73</CurrentTemperature>
     <LowerLimitTemperature>0</LowerLimitTemperature>
     <WarnningLimitTemperature>65</WarnningLimitTemperature>
     <AlarmLimitTemperature>75</AlarmLimitTemperature>
     <ShutdownLimitTemperature>90</ShutdownLimitTemperature>
    </Temperature>
  </TemperatureEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Physical index of the temperature sensor	Unsigned integer. Value range: 0 to 65535.
SensorType	Type of the temperature sensor	Enumeration: • inflow • outflow • Hotspot
Status	Status of the temperature sensor	Enumeration: • TemperatureNormal-The temperature is normal. • TemperatureLower-The temperature dropped to or below the low-temperature threshold. • TemperatureWarnning-The temperature increased to or above the high-temperature warning threshold. • TemperatureAlarm-The temperature increased to or above the high-temperature alarming threshold. TemperatureShutdown-The temperature increased to or above the high-temperature shutdown threshold
CurrentTemperature	Current Temperature(℃)	Short
LowerLimitTemperature	Lower Limit Temperature(℃)	Short
WarnningLimitTemperature	Warnning Limit	Short

Column name	Column description	Data type and restrictions
	Temperature(℃)	
AlarmLimitTemperature	Alarm Limit Temperature(℃)	Short
ShutdownLimitTemperature	Shutdown Limit Temperature(℃)	Short

SystemStableStatusEvent event

This event is used to report system stability and status information.

XML structure for event subscription

```
<SystemStableStatusEvent>
</SystemStableStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <SystemStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
      </SystemStableStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	SystemStableStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

None

XML structure for event report

```
<SystemStableStatusEvent>
  <SystemStatus></SystemStatus>
  <Redundancy></Redundancy>
</SystemStableStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SystemStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <SystemStatus>Stable</SystemStatus>
    <Redundancy>Stable</Redundancy>
  </SystemStableStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
SystemStatus	System stable status	Enumeration: • Stable • Not ready
Redundancy	Status of active/standby	Enumeration: • Stable • No redundance • Not ready

BoardStableStatusEvent event

This event is used to report card stability and status information.

XML structure for event subscription

```
<BoardStableStatusEvent>
  <BoardStableStatus>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    </BoardStableStatus>
</BoardStableStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <BoardStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <BoardStableStatus>
          <Chassis></Chassis>
          <Slot></Slot>
          <CPUID></CPUID>
          </BoardStableStatus>
      </BoardStableStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	BoardStableStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<BoardStableStatusEvent>
  <BoardStableStatus>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Role></Role>
    <Status></Status>
  </BoardStableStatus>
</BoardStableStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BoardStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <BoardStableStatus>
      <Chassis>1</Chassis>
      <Slot>1</Slot>
      <CPUID>0</CPUID>
      <Role>Standby</Role>
      <Status>Stable</Status>
    </BoardStableStatus>
  </BoardStableStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
Role	Role of the board	Enumeration: • Active • Standby • Other
Status	Status of the board	Enumeration: • Stable • Board inserted • Kernel initiating • Service starting • Service stopping • HA Batch backup • Interface data batch backup • MDC starting • MDC stopping • Context starting • Context stopping • Removed(Stable)

PowerFailEvent event

This event is used to report power supply failure information.

XML structure for event subscription

```
<PowerFailEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    </Power>
</PowerFailEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
```

```
    <filter type="subtree">
      <PowerFailEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Power>
          <Chassis>1</Chassis>
          <Slot>65535</Slot>
          <CPUID>65535</CPUID>
          <PowerID>1</PowerID>
          </Power>
      </PowerFailEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	PowerFailEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No
PowerID	ID of the power supply.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<PowerFailEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    <PhysicalIndex></PhysicalIndex>
  </Power>
</PowerFailEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PowerFailEvent xmlns="Device:1.0">
    <Power>
      <Chassis>1</Chassis>
      <Slot>65535</Slot>
      <CPUID>65535</CPUID>
      <PowerID>1</PowerID>
      <PhysicalIndex>1</PhysicalIndex>
    </Power>
  </PowerFailEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index	Unsigned integer. Value range: 0 to 65535.

PowerNormalEvent event

This event is used to report power supply recovery information.

XML structure for event subscription

```
<PowerNormalEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    </Power>
</PowerNormalEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
```

```
    <PowerNormalEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
      <Power>
        <Chassis>1</Chassis>
        <Slot>65535</Slot>
        <CPUID>65535</CPUID>
        <PowerID>1</PowerID>
        </Power>
    </PowerNormalEvent>
  </filter>
</create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	PowerNormalEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<PowerNormalEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    <PhysicalIndex></PhysicalIndex>
  </Power>
</PowerNormalEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```

```
  <PowerNormalEvent xmlns="Device:1.0">
    <Power>
      <Chassis>1</Chassis>
      <Slot>65535</Slot>
      <CPUID>65535</CPUID>
      <PowerID>1</PowerID>
      <PhysicalIndex>1</PhysicalIndex>
    </Power>
  </PowerNormalEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index.	Unsigned integer. Value range: 0 to 65535.

PowerRemoveEvent event

This event is used to report power supply removal information.

XML structure for event subscription

```
<PowerRemoveEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    </Power>
</PowerRemoveEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <PowerRemoveEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
```

```
      <Power>
        <Chassis>1</Chassis>
        <Slot>65535</Slot>
        <CPUID>65535</CPUID>
        <PowerID>1</PowerID>
        </Power>
    </PowerRemoveEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	PowerRemoveEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<PowerRemoveEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    <PhysicalIndex></PhysicalIndex>
  </Power>
</PowerRemoveEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PowerRemoveEvent xmlns="Device:1.0">
```

```
    <Power>
      <Chassis>1</Chassis>
      <Slot>65535</Slot>
      <CPUID>65535</CPUID>
      <PowerID>1</PowerID>
      <PhysicalIndex>1</PhysicalIndex>
    </Power>
  </PowerRemoveEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index	Unsigned integer. Value range: 0 to 65535.

PowerIncompatibleEvent event

This event is used to report power supply incompatibility information.

XML structure for event subscription

```
<PowerIncompatibleEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    </Power>
</PowerIncompatibleEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <PowerIncompatibleEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Power>
```

```
        <Chassis>1</Chassis>
        <Slot>65535</Slot>
        <CPUID>65535</CPUID>
        <PowerID>1</PowerID>
        </Power>
      </PowerIncompatibleEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	PowerIncompatibleEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<PowerIncompatibleEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    <PhysicalIndex></PhysicalIndex>
  </Power>
</PowerIncompatibleEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PowerIncompatibleEvent xmlns="Device:1.0">
    <Power>
```

```
      <Chassis>1</Chassis>
      <Slot>65535</Slot>
      <CPUID>65535</CPUID>
      <PowerID>1</PowerID>
      <PhysicalIndex>1</PhysicalIndex>
    </Power>
  </PowerIncompatibleEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index	Unsigned integer. Value range: 0 to 65535.

PowerInsertEvent event

This event is used to report power supply installation information.

XML structure for event subscription

```
<PowerInsertEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    </Power>
</PowerInsertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <PowerInsertEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Power>
          <Chassis>1</Chassis>
```

```
        <Slot>65535</Slot>
        <CPUID>65535</CPUID>
        <PowerID>1</PowerID>
        </Power>
      </PowerInsertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	PowerInsertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<PowerInsertEvent>
  <Power>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PowerID></PowerID>
    <PhysicalIndex></PhysicalIndex>
  </Power>
</PowerInsertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PowerInsertEvent xmlns="Device:1.0">
    <Power>
      <Chassis>1</Chassis>
```

```
      <Slot>65535</Slot>
      <CPUID>65535</CPUID>
      <PowerID>1</PowerID>
      <PhysicalIndex>1</PhysicalIndex>
    </Power>
  </PowerInsertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PowerID	ID of the power supply	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index	Unsigned integer. Value range: 0 to 65535.

FanEvent event

This event is used to report fan alarm information.

XML structure for event subscription

```
<FanEvent>
  <Fan>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Fan>
</FanEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Device</stream>
    <filter type="subtree">
      <FanEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Fan>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
```

```
        <CPUID>0</CPUID>
      </Fan>
    </FanEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	FanEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<FanEvent>
  <Fan>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PhysicalIndex></PhysicalIndex>
    <FanStatus></FanStatus>
  </Fan>
</FanEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <FanEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Fan>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
```

```
      <CPUID>0</CPUID>
      <PhysicalIndex>100</PhysicalIndex>
      <FanStatus>DEV_FANSTATUS_NORMAL</FanStatus>
    </Fan>
  </FanEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index	Unsigned integer. Value range: 0 to 65535.
FanStatus	Status of the fan	Enumeration: • DEV_FANSTATUS_ABSENT-The fan has been removed. • DEV_FANSTATUS_NORMAL-The fan is operating correctly. • DEV_FANSTATUS_FAIL-The fan is faulty. • DEV_FANSTATUS_DIRECTIONFAULT-The fan direction is faulty.

Contents

DGA 1
DGA/ServiceConfig 1
XML structure 1
Table description 1
Columns 1

DGA

DGA/ServiceConfig

This table contains DGA service configuration information.

XML structure

```
<DGA>
  <ServiceConfig>
    <ServiceEnable></ServiceEnable>
    <Action></Action>
    <Logging></Logging>
  </ServiceConfig>
</DGA>
```

Table description

Item	Description
Feature name	DGA
Table name	ServiceConfig
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceEnable	Enabling status of the DGA inspection feature	N/A	Boolean: • true. • false (default).	N/A
Action	Action for DGA matching traffic	N/A	Enumeration: • **0**—drop. • **1**—permit (default).	N/A
Logging	Whether to log the matching traffic	N/A	Boolean: • true. • false (default).	N/A

Contents

DGA 1
DGA/ServiceConfig 1
XML structure 1
Table description 1
Columns 1

DGA

DGA/ServiceConfig

This table contains DGA service configuration information.

XML structure

```
<DGA>
  <ServiceConfig>
    <ServiceEnable></ServiceEnable>
    <Action></Action>
    <Logging></Logging>
  </ServiceConfig>
</DGA>
```

Table description

Item	Description
Feature name	DGA
Table name	ServiceConfig
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceEnable	Enabling status of the DGA inspection feature	N/A	Boolean: • true • false	N/A
Action	Action for DGA matching traffic	N/A	Enumeration: • **0**—drop. • **1**—permit.	N/A
Logging	Whether to log the matching traffic	N/A	Boolean: • true • false	N/A

Contents

address-pool event stream 1

ama-register-to-controller event 1
XML structure for event subscription 1
XML structure for event report 1
ama-report-heart-beat-to-controller event 2
XML structure for event subscription 2
XML structure for event report 2
address-pool-status event 3
XML structure for event subscription 3
XML structure for event report 3
ama-report-address-got-to-controller-ipv4 event 5
XML structure for event subscription 5
XML structure for event report 6
ama-report-address-got-to-controller-ipv6 event 7
XML structure for event subscription 7
XML structure for event report 7
ama-report-address-recycled-to-controller-ipv4 event 8
XML structure for event subscription 8
XML structure for event report 9
ama-report-address-recycled-to-controller-ipv6 event 10
XML structure for event subscription 10
XML structure for event report 10
ama-report-lack-of-address-block event 11
XML structure for event subscription 11
XML structure for event report 12

address-pool event stream

ama-register-to-controller event

This event is used to notify controller that AMA registered successfully.

XML structure for event subscription

```
<ama-register-to-controller>
</ama-register-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-register-to-controller
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-register-to-controller>
   <device-id></device-id>
</ama-register-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-register-to-controller
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
   <device-id>5</device-id>
  </ama-register-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	AMA device id assigned	Unsigned Integer 32	

Column name	Column description	Data type and restrictions	Remarks
	by app	Value range: 0 to 4294967295.	

ama-report-heart-beat-to-controller event

This event is used to report heart beat to controller for AMA

Controller uses this to detect the inactive of AMA.

The period of heart beat is according to the configuration: flexbng-device-info /controller-send-configuration-to-ama/ device-keep-alive-interval.

.

XML structure for event subscription

```
<ama-report-heart-beat-to-controller>
</ama-report-heart-beat-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-heart-beat-to-controller
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-heart-beat-to-controller>
   <ama-id>5</ama-id>
</ama-report-heart-beat-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-heart-beat-to-controller
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
   <ama-id>5</ama-id>
  </ama-report-heart-beat-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
ama-id	AMA device id assigned by app	Unsigned Integer 32. Value range: 0 to 4294967295.	

address-pool-status event

This event is used to report address pool status.

XML structure for event subscription

```
<ama-register-to-controller >
</ama-register-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	address-pool-status
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<address-pool-status>
  <device-id></device-id>
  <time></time>
  <address-pool>
    <address-pool-name></address-pool-name>
    <address-pool-id></address-pool-id>
    <domain-name></domain-name>
    <address-pool-entries>
      <ipv4-address-block>
        <ipv4-address-block-name></ipv4-address-block-name>
        <ipv4-address-block-id></ipv4-address-block-id>
        <average-address-usage-ratio></average-address-usage-ratio>
      </ipv4-address-block>
      <ipv6-address-block>
```

```
      <ipv6-address-block-name></ipv6-address-block-name>
      <ipv6-address-block-id></ipv6-address-block-id>
      <average-address-usage-ratio></average-address-usage-ratio>
    </ipv6-address-block>
  </address-pool-entries>
 </address-pool>
</address-pool-status>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <address-pool-status
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
   <device-id>3</device-id>
   <time>1478260941</time>
   <address-pool>
    <address-pool-name>pool1</address-pool-name>
    <address-pool-id>1</address-pool-id>
    <domain-name>pppoe</domain-name>
    <address-pool-entries>
     <ipv4-address-block>
      <ipv4-address-block-name>network1</ipv4-address-block-name>
      <ipv4-address-block-id>1</ipv4-address-block-id>
      <average-address-usage-ratio>1</average-address-usage-ratio>
     </ipv4-address-block>
    </address-pool-entries>
   </address-pool>
   <address-pool>
    <address-pool-name>pool2</address-pool-name>
    <address-pool-id>2</address-pool-id>
    <domain-name>pppoe</domain-name>
    <address-pool-entries>
     <ipv6-address-block>
      <ipv6-address-block-name>network1</ipv6-address-block-name>
      <ipv6-address-block-id>1</ipv6-address-block-id>
      <average-address-usage-ratio>1</average-address-usage-ratio>
     </ipv6-address-block>
    </address-pool-entries>
   </address-pool>
  </address-pool-status>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	AMA device id assigned by app	Unsigned Integer 32. Value range: 0 to 4294967295.	

Column name	Column description	Data type and restrictions	Remarks
time	Timestamp of the notification	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Name of the address pool	String String Length:1 to 63	
address-pool-id	Pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
domain-name	Domain name	String String Length:1 to 63	
ipv4-address-block-name	Block name	String String Length:1 to 63	
ipv4-address-block-id	Block ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
average-address-usage-ratio	Usage ratio of address pool	Unsigned Integer 32. Value range: 0 to 4294967295.	
Ipv6-address-block-name	IPv6 address block name	String String Length:1 to 63	
Ipv6-address-block-id	IPv6 address block ID	Unsigned Integer 32. Value range: 0 to 4294967295.	

ama-report-address-got-to-controller-ipv4 event

This event is used to notify controller the distribution result of ipv4 address pools.

XML structure for event subscription

```
<ama-report-address-got-to-controller-ipv4>
</ama-report-address-got-to-controller-ipv4>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>

</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-got-to-controller-ipv4
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras

Item	Description
Support for extended query	no

XML structure for event report

```
<ama-report-address-got-to-controller-ipv4>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-got-to-controller-ipv4>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-got-to-controller-ipv4
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-got-to-controller-ipv4>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
address-pool-id	Address pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Address pool name	OctectString String Length:1 to 63	
address-block-id	Block ID	Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	

Column name	Column description	Data type and restrictions	Remarks
result	Distribution result of ipv4 address pools	Enumeration: • success • fail	

ama-report-address-got-to-controller-ipv6 event

This event is used to notify controller the distribution result of ipv6 address pools.

XML structure for event subscription

```
<ama-report-address-got-to-controller-ipv6>
</ama-report-address-got-to-controller-ipv6>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-got-to-controller-ipv6
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-address-got-to-controller-ipv6>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
<ama-report-address-got-to-controller-ipv6>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```

```
  <ama-report-address-got-to-controller-ipv6
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-got-to-controller-ipv6>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
address-pool-id	Address pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Address pool name	OctectString String Length:1 to 63	
address-block-id	Block ID	Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Distribution result of ipv6 address pools	Enumeration: • success • fail	

ama-report-address-recycled-to-controller-ipv4 event

This event is used to notify controller the recycled result of ipv4 address pools.

XML structure for event subscription

```
<ama-report-address-recycled-to-controller-ipv4>
</ama-report-address-recycled-to-controller-ipv4>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
```

```
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-recycled-to-controller-ipv4
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-address-recycled-to-controller-ipv4>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-recycled-to-controller-ipv4>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-recycled-to-controller-ipv4
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-recycled-to-controller-ipv4>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32	
domain-name	Domain name	OctectString	
address-pool-id	Pool ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-pool-	Pool name	OctectString	

Column name	Column description	Data type and restrictions	Remarks
name		String Length:1 to 63	
address-block-id	Block ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Recycled result of ipv4 address pools	Enumeration: • success • fail	

ama-report-address-recycled-to-controller-ipv6 event

This event is used to notify controller the recycled result of ipv6 address pools.

XML structure for event subscription

```
<ama-report-address-recycled-to-controller-ipv6>
</ama-report-address-recycled-to-controller-ipv6>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-recycled-to-controller-ipv6
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-address-recycled-to-controller-ipv6>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
```

```
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-recycled-to-controller-ipv6>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-recycled-to-controller-ipv6
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-recycled-to-controller-ipv6>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device id	Unsigned Integer 32	
domain-name	Domain name	OctectString	
address-pool-id	Pool id	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-pool-name	Pool name	OctectString String Length:1 to 63	
address-block-id	Block id	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Recycled result of ipv6 address pools	Enumeration: • success • fail	

ama-report-lack-of-address-block event

This event is used to notify controller lack of IP address.When controller recieves this notification,it distributes new address pools to device.

XML structure for event subscription

```
<ama-report-lack-of-address-block>
</ama-report-lack-of-address-block>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-lack-of-address-block
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-lack-of-address-block>
  <device-id></device-id>
  <domain-name></domain-name>
  <protocol-type></protocol-type>
</ama-report-lack-of-address-block>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-lack-of-address-block
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <protocol-type>ipv4</protocol-type>
  </ama-report-lack-of-address-block>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
Protocol-type	Protocl type,ipv4/ipv6	Enumeration: • 1—ipv4. • 0—ipv6.	

Contents

flexbng-device-info 1
flexbng-device-info/controller-netconf-registration 1
XML structure 1
Table description 1
Columns 1
Example 1
flexbng-device-info/controller-send-configuration-to-ama 2
XML structure 2
Table description 2
Columns 2
Example 3

flexbng-device-info

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras".

flexbng-device-info/controller-netconf-registration

This table contains flexbng device registration information.

XML structure

```
<flexbng-device-info>
  <controller-netconf-registration>
    <device-id></device-id>
  </controller-netconf-registration>
</flexbng-device-info>
```

Table description

Item	Description
Feature name	flexbng-device-info
Table name	controller-netconf-registration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
device-id	AMA device id assigned by app	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.

Example

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
   <edit-config>
      <target>
         <running/>
      </target>
      <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
         <v:controller-netconf-registration
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
```

```
          <v:device-id>5</v:device-id>
        </v:controller-netconf-registration>
      </config>
    </edit-config>
</rpc>
```

flexbng-device-info/controller-send-configuration-to-ama

This table is used to send configuration to ama for controller.

XML structure

```
<flexbng-device-info >
  <controller-send-configuration-to-ama>
    <device-keep-alive-interval></device-keep-alive-interval>
    <ipv4-address-pool-usage-threshold></ipv4-address-pool-usage-threshold>
    <ipv6-address-pool-usage-threshold></ipv6-address-pool-usage-threshold>
    <state-update-interval></state-update-interval>
    <device-sampling-interval></device-sampling-interval>
  </controller-send-configuration-to-ama>
</flexbng-device-info>
```

Table description

Item	Description
Feature name	flexbng-device-info
Table name	controller-send-configuration-to-ama
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
device-keep-alive-interval	Heartbeat interval of confd service	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.
ipv4-address-pool-usage-threshold	IPv4 threshold of pool block usage ratio	N/A	DOUBLE. Value range: 0 to 100.
ipv6-address-pool-usage-threshold	IPv6 threshold of pool block usage ratio	N/A	DOUBLE. Value range: 0 to 100.
state-update-interv	Report interval for pool	N/A	Unsigned Integer 32.

al	block status		Value range: 0 to 4294967295.
device-sampling-interval	Sampling interval for pool block usage ratio	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.

Example

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
      <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <v:controller-send-configuration-to-ama
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
          <v:device-keep-alive-interval>3</v:device-keep-alive-interval>
<v:ipv4-address-pool-usage-threshold>0.8</v:ipv4-address-pool-usage-threshold>
<v:ipv6-address-pool-usage-threshold>0.8</v:ipv6-address-pool-usage-threshold>
          <v:state-update-interval>5</v:state-update-interval>
          <v:device-sampling-interval>0</v:device-sampling-interval>
        </v:controller-send-configuration-to-ama>
      </config>
   </edit-config>
</rpc>
```

Contents

ietf-address-pool 1
XML structure 1
Table description 2
Columns 2
ietf-address-pool/address-pools/address-pool 2
XML structure 2
Table description 2
Columns 3
ietf-address-pool/address-pools/address-pool/ipv4-address-block 3
XML structure 3
Table description 3
Columns 4
ietf-address-pool/address-pools/address-pool/ipv6-address-block 4
XML structure 4
Table description 4
Columns 5
Example 5

ietf-address-pool

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-address-pool".

The Example on the end of this module sets an instance that the module can’t be under top node. ietf-address-pool/address-pools.

This table contains address pool configuration information.

XML structure

```
<ietf-address-pool>
  <address-pools>
    <device-id></device-id>
    <address-pool>
      <address-pool-name></address-pool-name>
      <address-pool-id></address-pool-id>
      <domain-name></domain-name>
      <ipv4-usergateway></ipv4-usergateway>
      <ipv6-usergateway></ipv6-usergateway>
      <gwnetmask></gwnetmask>
      <leasing-time></leasing-time>
      <primarydns></primarydns>
      <secondarydns></secondarydns>
      <address-pool-entries>
        <ipv4-address-block>
          <pool-name></pool-name>
          <ipv4-address-block-name></ipv4-address-block-name>
          <ipv4-address-block-id></ipv4-address-block-id>
          <ipv4-prefix></ipv4-prefix>
          <ipv4-prefix-length></ipv4-prefix-length>
          <time></time>
        </ipv4-address-block>
        <ipv6-address-block>
          <pool-name></pool-name>
          <ipv6-address-block-name></ipv6-address-block-name>
          <ipv6-address-block-id></ipv6-address-block-id>
          <ipv6-prefix></ipv6-prefix>
          <ipv6-prefix-length></ipv6-prefix-length>
          <time></time>
        </ipv6-address-block>
      </address-pool-entries>
    </address-pool>
  </address-pools>
</ietf-address-pool>
```

Table description

Item	Description
Feature name	Ietf-address-pool
Table name	address-pools
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
device-id	AMA device id assigned by app	N/A	Unsigned Integer 32. Value range:0 to 4294967295.
address-pool	Information of the address pool	Sublist	The details of the sublist refer to address-pool table.

ietf-address-pool/address-pools/address-pool

This table contains address pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	Ietf-address-pool
Table name	address-pool
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
address-pool-name	Name of address pool	index	String Length: 1 to 63 characters
address-pool-id	Address pool ID	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.
domain-name	Domain name	N/A	String Length:1 to 63 characters
ipv4-usergateway	Used for IPv4 user addressing	N/A	IPv4 address
ipv6-usergateway	Used for IPv6 user addressing	N/A	IPv6 address
gwnetmask	Netmask for user gateway	N/A	Unsigned Integer 32. Value range: 1 to 128
leasing-time	Leasing time with default 3 days	N/A	Unsigned Integer 32. Value range: 0 to 4294967295. The column can't be changed.Its returned value is always 3 ,no matter which number it is configured for.
primarydns	Primary DNS information	N/A	IP address
secondarydns	Secondary DNS information	N/A	IP address
Ipv4-address-block	Information of the ipv4 address block	Sublist	The details of the sublist refer to ipv4-address-block table.
Ipv6-address-block	Information of the ipv6 address block	Sublist	The details of the sublist refer to ipv6-address-block table.

ietf-address-pool/address-pools/address-pool/ipv4-address-block

This table contains address pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	Ietf-address-pool
Table name	ipv4-address-block
Table type	Multi-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-pool-name	Name of address pool	index	String Length:1 to 63 characters	Index of present table
ipv4-address-block-name	Name of IPv4 address block	index	String Length:1 to 63 characters	N/A
ipv4-address-block-id	ID of IPv4 address block	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.	N/A
ipv4-prefix	IPv4 address prefix	N/A	Ipv4Address	N/A
ipv4-prefix-length	IPv4 address prefix length	N/A	Unsigned Integer 32. Value range: 1 to 30.	N/A
time	Address block allocation time	N/A	Unsigned Integer 32. Value range: 0 to 4294967295	For table: ipv4-address-block

ietf-address-pool/address-pools/address-pool/ipv6-address-block

This table contains address-pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	Ietf-address-pool
Table name	Ipv6-address-block
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-pool-name	Name of address pool	index	String Length: 1 to 63 characters	Index of present table
Ipv6-address-block-name	Name of IPv6 address block	index	String Length: 1 to 63 characters	N/A
Ipv6-address-block-id	ID of IPv6 address block	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.	N/A
Ipv6-prefix	IPv6 address prefix	N/A	Ipv6Address	N/A
Ipv6-prefix-length	IPv6 address prefix length	N/A	Unsigned Integer 32. Value range: 1 to 128.	N/A
time	Address block allocation time	N/A	Unsigned Integer 32. Value range: 0 to 4294967295	For table: ipv6-address-block

Example

配置一个 IPv4 地址池 pool4

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
   <edit-config>
      <target>
         <running/>
      </target>
      <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
         <v:address-pools xc:operation="merge"
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool">
            <v:device-id>3</v:device-id>
            <v:address-pool>
               <v:address-pool-name>pool4</v:address-pool-name>
               <v:address-pool-id>104</v:address-pool-id>
               <v:domain-name>pppoe</v:domain-name>
               <v:ipv4-usergateway>10.2.1.1</v:ipv4-usergateway>
               <v:gwnetmask>24</v:gwnetmask>
               <v:address-pool-entries>
                  <v:ipv4-address-block>
                     <v:ipv4-address-block-name>network-4</v:ipv4-address-block-name>
                     <v:ipv4-address-block-id>40</v:ipv4-address-block-id>
                     <v:ipv4-prefix>10.2.1.1</v:ipv4-prefix>
                     <v:ipv4-prefix-length>24</v:ipv4-prefix-length>
                     <v:time>3</v:time>
                  </v:ipv4-address-block>
               </v:address-pool-entries>
```

```
          </v:address-pool>
        </v:address-pools>
      </config>
   </edit-config>
</rpc>
```

配置一个 IPv6 地址池 pool1

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
   <edit-config>
      <target>
         <running/>
      </target>
      <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
         <v:address-pools xc:operation="merge"
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool">
          <v:device-id>3</v:device-id>
          <v:address-pool>
            <v:address-pool-name>pool1</v:address-pool-name>
            <v:address-pool-id>101</v:address-pool-id>
            <v:domain-name>pppoe</v:domain-name>
            <v:ipv6-usergateway>10::3</v:ipv6-usergateway>
            <v:gwnetmask>64</v:gwnetmask>
            <v:primarydns>1::1</v:primarydns>
            <v:secondarydns>1::2</v:secondarydns>
            <v:address-pool-entries>
              <v:ipv6-address-block>
                <v:ipv6-address-block-name>network-0</v:ipv6-address-block-name>
                <v:ipv6-address-block-id>10</v:ipv6-address-block-id>
                <v:ipv6-prefix>10::1</v:ipv6-prefix>
                <v:ipv6-prefix-length>64</v:ipv6-prefix-length>
                <v:time>3</v:time>
              </v:ipv6-address-block>
            </v:address-pool-entries>
          </v:address-pool>
         </v:address-pools>
      </config>
   </edit-config>
</rpc>
```

获取地址池信息

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
   <get>
      <filter type="subtree">
         <v:address-pools
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool"></v:address-pools>
      </filter>
   </get>
</rpc>
```

Contents

DHCP 1

DHCP/DHCPRelayClearUserInfoByIfIndex 1
XML structure 1
Table description 1
Columns 1
DHCP/DHCPServerClearIpInUseByPool 1
XML structure 1
Table description 2
Columns 2
DHCP/DHCPServerClearIpInUse 2
XML structure 2
Table description 2
Columns 3
DHCP/DHCPServerClearIpInUseByVrf 3
XML structure 3
Table description 3
Columns 4
DHCP/DHCPRelayClearUserInfo 4
XML structure 4
Table description 4
Columns 4
DHCP/ImportIpMac 5
XML structure 5
Table description 5
Columns 5
DHCP/ExportIpMac 5
XML structure 5
Table description 6
Columns 6
DHCP/ DHCPServerDebug 6
XML structure 6
Table description 6
Columns 7
DHCP/DHCPClearPoolMaxUsage 7
XML structure 7
Table description 7
Columns 7
DHCP/ DHCPServerForceRenewSubNet 7
XML structure 8
Table description 8
Columns 8

DHCP

DHCP/DHCPRelayClearUserInfoByIfIndex

Use this table to clear DHCP relay entries by interface index.

XML structure

```
<DHCP>
  <DHCPRelayClearUserInfoByIfIndex>
    <RelayClearUserInfo>
      <IfIndex></IfIndex>
    </RelayClearUserInfo>
  </DHCPRelayClearUserInfoByIfIndex>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayClearUserInfoByIfIndex
Table type	Multi-instance table
Row name	RelayClearUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	If no value is specified for IfIndex, all entries will be cleared.

DHCP/DHCPServerClearIpInUseByPool

Use this table to clear binding information about assigned IP addresses by pool name.

XML structure

```
<DHCP>
  <DHCPServerClearIpInUseByPool>
    <ServerClearIpInUse>
      <PoolName></PoolName>
```

```
      <RelayAddress></RelayAddress>
    </ServerClearIpInUse>
  </DHCPServerClearIpInUseByPool>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClearIpInUseByPool
Table type	Multi-instance table
Row name	ServerClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	DHCP address pool name	Index	String, case insensitive. Length: 1 to 63 characters.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.

DHCP/DHCPServerClearIpInUse

Use this table to clear binding information about assigned IP addresses.

XML structure

```
<DHCP>
  <DHCPServerClearIpInUse>
    <ServerClearIpInUse>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
    </ServerClearIpInUse>
  </DHCPServerClearIpInUse>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClearIpInUse

Item	Description
Table type	Multi-instance table
Row name	ServerClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A

DHCP/DHCPServerClearIpInUseByVrf

Use this table to clear binding information about assigned IP addresses by VRF.

XML structure

```
<DHCP>
  <DHCPServerClearIpInUseByVrf>
    <ServerClearIpInUseByVrf>
      <VRF></VRF>
      <RelayAddress></RelayAddress>
    </ServerClearIpInUseByVrf>
  </DHCPServerClearIpInUseByVrf>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClearIpInUseByVrf
Table type	Multi-instance table
Row name	ServerClearIpInUseByVrf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the binding information belongs to the public network, do not specify a value for the VRF element.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.	N/A

DHCP/DHCPRelayClearUserInfo

Use this table to clear DHCP relay entries.

XML structure

```
<DHCP>
  <DHCPRelayClearUserInfo>
    <RelayClearUserInfo>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
    </RelayClearUserInfo>
  </DHCPRelayClearUserInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayClearUserInfo
Table type	Multi-instance table
Row name	RelayClearUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	To specify the public network, enter a value of 0.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A

DHCP/ImportIpMac

This table contains DHCP IP-MAC binding import information.

XML structure

```
<DHCP>
  <DHCPImportIpMac>
    <PoolName></PoolName>
    <FileName></FileName>
  </DHCPImportIpMac>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPImportIpMac
Table type	Multi-instance table
Row name	No
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the pool to which the bindings to be imported	N/A	String. Length: 1 to 63 characters.	N/A
FileName	Name of the file to be imported	N/A	String. Length: 1 to 255 characters.	N/A

DHCP/ExportIpMac

This table contains DHCP IP-MAC binding export information.

XML structure

```
<DHCP>
  <DHCPExportIpMac>
    <PoolName></PoolName>
    <FileName></FileName>
  </DHCPExportIpMac>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPExportIpMac
Table type	Multi-instance table
Row name	No
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the pool from which the bindings are exported	N/A	String. Length: 1 to 63 characters.	N/A
FileName	Name of the file to be exported	N/A	String. Length: 1 to 255 characters.	N/A

DHCP/ DHCPServerDebug

Use this table to turn on or turn off the DHCP server debug information switch.

XML structure

```
<DHCP>
  <DHCPServerDebug>
    <Enable></Enable>
  </DHCPServerDebug>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerDebug
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Turn on or turn off the DHCP server debug information switch	Column	Boolean: • **true** (on) • **false** (off, the default)	N/A

DHCP/DHCPClearPoolMaxUsage

Use this table to clear the peak address usage data for the address pool.

XML structure

```
<DHCP>
  <DHCPClearPoolMaxUsage>
    <PoolClearMaxUsage>
      <PoolName></PoolName>
    </PoolClearMaxUsage>
  </DHCPClearPoolMaxUsage>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPClearPoolMaxUsage
Table type	Multi-instance table
Row name	PoolClearMaxUsage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	DHCP pool name	Index	String.	N/A

DHCP/ DHCPServerForceRenewSubNet

Use this table to renew information about the subnets allocated to ODAP clients.

XML structure

```
<DHCP>
  <DHCPServerForceRenewSubNet>
    <ServerForceRenewSubNet>
      <PoolIndex></PoolIndex>
    <ServerForceRenewSubNet>
  </DHCPServerForceRenewSubNet>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerForceRenewSubNet
Table type	Multi-instance table
Row name	ServerForceRenewSubNet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 1 to 8192.	The specified pool index must already exist.

Contents

DHCP 1

DHCP/DHCPServerIpPool 1
XML structure 1
Table description 4
Columns 5
DHCP/DHCPServerPoolStatic 21
XML structure 21
Table description 21
Columns 21
DHCP/DHCPConfig 23
XML structure 23
Table description 24
Columns 25
DHCP/DHCPIfMode 34
XML structure 34
Table description 34
Columns 35
DHCP/DHCPRelaySrvIPv4Address 36
XML structure 36
Table description 36
Columns 37
DHCP/DHCPServerPoolOption 37
XML structure 37
Table description 38
Columns 38
DHCP/DHCPRelaySourceAddress 39
XML structure 39
Table description 39
Columns 40
DHCP/DHCPRelayInfoEnable 41
XML structure 41
Table description 42
Columns 42
DHCP/DHCPServerForbiddenIp 45
XML structure 45
Table description 45
Columns 46
DHCP/DHCPRelayDiscReqFromTnlEnable 46
XML structure 46
Table description 47
Columns 47
DHCP/DHCPRelayMacFowardEnable 47
XML structure 48
Table description 48
Columns 48
DHCP/DHCPRelayInfo 48
XML structure 49
Table description 49
Columns 49
DHCP/DHCPVsi 50
XML structure 50
Table description 50
Columns 50
DHCP/DHCPRelayPoolRemoteServer 51
XML structure 51
Table description 51
Columns 52

DHCP/DHCPServerPoolGroup ····· 52
XML structure ····· 52
Table description ····· 53
Columns ····· 53
DHCP/DHCPServerPolicy/ClassPolicy ····· 55
XML structure ····· 55
Table description ····· 55
Columns ····· 56
DHCP/DHCPServerClass ····· 56
XML structure ····· 56
Table description ····· 57
Columns ····· 57
DHCP/DHCPIfConfig ····· 58
XML structure ····· 58
Table description ····· 59
Columns ····· 60
DHCP/DHCPServerOptionGroup ····· 63
XML structure ····· 63
Table description ····· 63
Columns ····· 64
DHCP/DHCPRelayServerInfo ····· 64
XML structure ····· 65
Table description ····· 65
Columns ····· 65
DHCP/DHCPServerOdapPoolGateway ····· 66
XML structure ····· 66
Table description ····· 66
Columns ····· 67

DHCP

DHCP/DHCPServerIpPool

This table contains DHCP server IP pool information.

XML structure

```
<DHCP>
  <DHCPServerIpPool>
    <IpPool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <NetworkIpv4Address></NetworkIpv4Address>
      <NetworkIpv4Mask></NetworkIpv4Mask>
      <NetworkExportRoute></NetworkExportRoute>
      <NetworkPreference></NetworkPreference>
      <NetworkTag></NetworkTag>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <LeaseDay></LeaseDay>
      <LeaseHour></LeaseHour>
      <LeaseMinute></LeaseMinute>
      <LeaseSecond></LeaseSecond>
      <LeaseUnlimit></LeaseUnlimit>
      <DomainName></DomainName>
      <GatewayIpv4Address></GatewayIpv4Address>
      <GatewayExportRoute></GatewayExportRoute>
      <DNSIpv4Address></DNSIpv4Address>
      <NetbiosType></NetbiosType>
      <NbnsIpv4Address></NbnsIpv4Address>
      <SubnetAlloc></SubnetAlloc>
      <PoolType></PoolType>
      <SubnetAllocMode></SubnetAllocMode>
      <SubnetMaskLen></SubnetMaskLen>
      <SubnetExportRouteDisable></SubnetExportRouteDisable>
      <SubnetExportRoutePreference></SubnetExportRoutePreference>
      <SubnetExportRouteTag></SubnetExportRouteTag>
      <SubnetIdleTime></SubnetIdleTime>
      <ForbiddenIp>
        <StartForbiddenIpv4Address></StartForbiddenIpv4Address>
        <EndForbiddenIpv4Address></EndForbiddenIpv4Address>
      </ForbiddenIp>
      <BindingUpAddress></BindingUpAddress>
```

```
<ExportHostRoute></ExportHostRoute>
<OriginSubnetMaskLen></OriginSubnetMaskLen>
<SubnetUltizationMark>
   <High></High>
   <Low></Low>
</SubnetUltizationMark>
<SubnetGiaddr></SubnetGiaddr>
<UnrTag></UnrTag>
<TftpServerDomainName></TftpServerDomainName>
<TftpServerIp></TftpServerIp>
<AllocateNewIp></AllocateNewIp>
<ExhaustionLogEnable></ExhaustionLogEnable>
<ExhaustionTrapEnable></ExhaustionTrapEnable>
<RouteLogEnable></RouteLogEnable>
<IpInuseThreshold></IpInuseThreshold>
<IpSubnetInuseThreshold></IpSubnetInuseThreshold>
<NextServer></NextServer>
<ReserveExpiredIp>
    <Enable></Enable>
    <Mode></Mode>
    <Limte></Limit>
    <Time></Time>
</ReserveExpiredIp>
<DhcpRelaySwitch>
  <NakCount></NakCount>
  <GatewayOnly></GatewayOnly>
  <ServerTimeOut></ServerTimeOut>
  <MasterServerSwitchDelay></MasterServerSwitchDelay>
  <RemoteServerAlgorithm></RemoteServerAlgorithm>
</DhcpRelaySwitch>
<BimsServer>
  <Ip></Ip>
  <Port></Port>
  <SharekeyType></SharekeyType>
  <Password></Password>
</BimsServer>
<Bootfile></Bootfile>
<DhcpServerSource>
  <SourceType></SourceType>
  <IpAddress></IpAddress>
  <Interface></interface>
</DhcpServerSource>
<LeaseAllowHint></LeaseAllowHint>
<VerifyClass></VerifyClass>
<VoiceConfig>
  <AsIp></AsIp>
  <FailOverIp></FailOverIp>
  <FailOverDialerString></FailOverDialerString>
```

```
    <VoiceVlanID></VoiceVlanID>
    <VoiceVlanEnable></VoiceVlanEnable>
    <NcpIp></NcpIp>
  </VoiceConfig>
  <VsrpInstance></VsrpInstance>
<ClassRanges>
  <ClassRange>
    <Class></class>
    <StartIp></StartIp>
    <EndIp></EndIp>
    <ClassLeaseTime></ClassLeaseTime>
    <ClassLeaseUnlimit></ClassLeaseUnlimit>
    <ClassLeaseAllowHint></ClassLeaseAllowHint>
  <ClassRange>
</ClassRanges>
<ClassOptionGroups>
  <ClassOptionGroup>
    <Class></Class>
    <OptionGroup></OptionGroup>
  </ClassOptionGroup>
</ClassOptionGroups>
<RemoteServers>
  <RemoteServer>
    <Ip></Ip>
    <VRF></VRF>
    <PUBLIC></PUBLIC>
  </RemoteServer>
</RemoteServers>
<ValidClasses>
  <ValidClass>
    <Class></Class>
  </ValidClass>
</ValidClasses>
<Networks>
  <Network>
    <NetworkAddress></NetworkAddress>
    <Gateway-list></Gateway-list>
    <NetworkSecMask></NetworkSecMask>
    <NetworkSecPriority></NetworkSecPriority>
    <NetworkSecExportRoute></NetworkSecExportRoute>
    <NetworkSecPreference></NetworkSecPreference>
    <NetworkSecTag></NetworkSecTag>
    <GatewayLists>
        <GatewayList>
          <Gateway></Gateway>
        </GatewayList>
    </GatewayLists>
  </Network>
```

```
    </Networks>
      <Bindings>
        <Binding>
          <UpIfName></UpIfName>
          <BindingUpId></BindingUpId>
          <BindingUpBackupProfile></BindingUpBackupProfile>
          <BindingMasterUpId></BindingMasterUpId>
          <BindingBackupUpId></BindingBackupUpId>
          <BindingRouteRefresh></ BindingRouteRefresh>
        </Binding>
      </Bindings>
      <ForbiddenIpsInPool>
        <ForbiddenIpInPool>
          <SingleForbiddenIpv4Address></SingleForbiddenIpv4Address>
        </ForbiddenIpInPool>
      </ForbiddenIpsInPool>
      <GatewayOfBasPool></GatewayOfBasPool>
      <GatewayMaskOfBasPool></GatewayMaskOfBasPool>
      <SubnetForceRenew></SubnetForceRenew>
      <ReserveGroupName></ReserveGroupName>
      <StartIpv4Network></StartIpv4Network>
      <EndIpv4Network></EndIpv4Network>
      <IpPoolLock></IpPoolLock>
    </IpPool>
  </DHCPServerIpPool>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpPool
Table type	Multi-instance table, multi-level table
Row name	IpPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 cannot be set.
PoolName	DHCP address pool name	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when create a new row. Cannot be modified.
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the DHCP address pool is on the public network, the length of characters is 0.
NetworkIpv4Address	Primary subnet for dynamic allocation	N/A	String, dotted decimal notation.	Modifying or removing the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
NetworkExportRoute	Whether to advertise the subnet route	N/A	Boolean: • **true** • **false** (default)	It must be configured together with NetworkIpv4Address
NetworkPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255. Default: 65.	N/A
NetworkTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 0.	
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	The address range specified must be within the subnet. The addresses out of the address range cannot be assigned. It must be configured together with the EndIpv4Address column.
EndIpv4Address	End IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	It must be configured together with the StartIpv4Address column.
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365. Default: 1.	LeaseDay, LeaseHour, LeaseMinute, LeaseSecond must be configured together. Cannot be configured together with LeaseUnlimit.
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23. Default: 0.	N/A
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseUnlimit	Whether the function of unlimited lease duration is	N/A	Boolean: • **true** • **false**(default)	Cannot be configured together with LeaseDay, LeaseHour, LeaseMinute,

Column name	Column description	Column type	Data type and restrictions	Remarks
	specified.			LeaseSecond.
DomainName	Domain name	N/A	String, case sensitive. Length: 1 to 50 characters.	N/A
GatewayIpv4Address	Gateway addresses	N/A	String, case insensitive. Length: 1 to 1024 characters.	You can specify a space-separated list of up to 64 addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
GatewayExportRoute	Route of export gateway segment	N/A	Boolean: • **True** • **false**	N/A
DNSIpv4Address	DNS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
NetbiosType	NetBIOS node type	N/A	Enumeration: • **1**—b-node. • **2**—p-node. • **3**—m-node. • **4**—h-node.	b-node: Specifies the broadcast node. A b-node client sends the destination name in a broadcast message to get the name-to-IP mapping from a server. h-node: Specifies the hybrid node. An h-node client unicasts the destination name to a WINS server. If it does not receive a response, the h-node client broadcasts the destination name to get the mapping from a server. m-node: Specifies the mixed node. An m-node

Column name	Column description	Column type	Data type and restrictions	Remarks
				client broadcasts the destination name. If it does not receive a response, the m-node client unicasts the destination name to the WINS server to get the mapping. p-node: Specifies the peer-to-peer node. A p-node client sends the destination name in a unicast message to get the mapping from the WINS server.
NbnsIpv4Address	WINS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
SubnetAlloc	The flag of dynamic pool	N/A	Enumeration: • **0**—normal pool (default). • **1**—dynamic pool.	Address pool type does not support change again. Configuration StartIpv4Address and EndIpv4Address is not supported when the pool type is dynamic.
PoolType	Address pool type	N/A	Enumeration. • 0—normal (default). • 1—subnet-alloc • 2—odap-client • 3—odap-server • 4— nat (not supported) • 5—odap-client host	Required when create a new row, cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 6—bas local • 7—bas remote • 8—nat-local (not supported) • 9—odap • 10—nat-central	
SubnetAllocMode	Subnet allocation mode	N/A	Enumeration. • 0—vxlan-id (default). • 1—up-id • 2—pool-name. • 3—interface. • 4—up-backup-profile. • 5—interface-physic. • 6—up-backup-profile-route-refresh.	The address pool type must be subnet-alloc.
SubnetMaskLen	Subnet mask length	N/A	Unsigned integer. Value range: 1 to 32.	Subnet mask length cannot be less than network mask length.
SubnetExportRouteDisable	Whether to disable advertising dynamically allocated subnets	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
SubnetExportRoutePreference	Route preference	N/A	Unsigned integer. Value range: 1 to 255	N/A
SubnetExportRouteTag	Route tag	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
SubnetIdleTime	Delay time for the DHCP server to reclaim idle subnets	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ForbiddenIp	IPv4 adress excluded from dynamic allocation in the current IP pool.	Data structure	Members include: • StartForbiddenIpv4Address • EndForbiddenIpv4Address	You can specify an IPv4 address range excluded from dynamic allocation.
StartForbiddenIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation in the current IP pool	N/A	String, dotted decimal notation.	N/A
EndForbiddenIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation in the current IP pool	N/A	String, dotted decimal notation.	EndForbiddenIpv4Address cannot be lower than the StartForbiddenIpv4Address.
BindingUpAddress	Ipv4 address	N/A	String, dotted decimal notation.	N/A
ExportHostRoute	Whether the function of export host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
OriginSubnetMaskLen	Origin subnet mask length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
SubnetUltizationMark	N/A	Data structure	Members include: • High • Low	N/A
High	Subnet ultization mark high	N/A	Unsigned integer. Value range: 1 to 100. Default:100	N/A
Low	Subnet ultization mark low	N/A	Unsigned integer. Value range: 0 to 99.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default:50	
SubnetGiaddr	N/A	N/A	String, dotted decimal notation.	N/A
UnrTag	The tag value of user network route	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
TftpServerDomainName	Tftp server domain name	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
TftpServerIp	Tftp server ip address	N/A	String, dotted decimal notation.	N/A
AllocateNewIp	Whether the function of allocate new ip is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
ExhaustionLogEnable	Whether IP pool exhaustion logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
ExhaustionTrapEnable	Whether the SNMP notification about IP pool exhaustion is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
RouteLogEnable	Whether IP pool route logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInuseThreshold	The warning rate of used ip in dhcp	N/A	Unsigned integer. Value range: 0 to 100.	N/A
IpSubnetInuseThreshold	Subnet usage threshold for the IP address pool, in percentage	N/A	Unsigned integer. Value range: 0 to 100.	N/A
NextServer	The next provided server ip address	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReserveExpiredIp	N/A	Data structure	Members include: • Enable • Mode • Limit • Time	N/A
Enable	Whether the function of reserve expired ip is specified.	N/A	Boolean: • **True**(default) • **False**	N/A
Mode	The mode of reserve expired ip	N/A	Enumeration: • **Client-id**. (default) • **m**ac	N/A
Limit	The limit number of reserve expired ip	N/A	Unsigned integer. Value range: 1 to 256000.	N/A
Time	The time of reserve expired ip	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
DhcpRelaySwitch	N/A	Data structure	Members include: • NakCount • ServerTimeOut • MasterServerSwitchDelay • RemoteServerAlgorithm	N/A
NakCount	The max number of DHCP-NAK	N/A	Unsigned integer. Value range: 0 to 255.	N/A
GatewayOnly	Modify the giaddr value only	N/A	Boolean: • **true** **false (default)**	N/A
ServerTimeOut	DHCP reply time	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MasterServerSwit	The time of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
chDelay	master server switch delay		Value range: 1 to 65535.	
RemoteServerAlgorithm	N/A	N/A	Enumeration: • Master-backup • polling(default)	N/A
BimsServer	N/A	Data structure	Members include: • Ip • Port • SharekeyType • Password	N/A
Ip	bimsserver ip address	N/A	String, dotted decimal notation.	N/A
Port	Port number	N/A	Unsigned integer. Value range: 1 to 65534	N/A
SharekeyType	N/A	N/A	Enumeration: • cipher. • Simple.	N/A
Password	N/A	N/A	String, case sensitive. Length: 1 to 16（simple）or 1 to 53(cipher) characters.	N/A
Bootfile	N/A	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
DhcpServerSource	N/A	Data structure	Members include: • SourceType • IpAdress • Interface	N/A
SourceType	N/A	N/A	Members include: • IpAddress • Gateway • Interface	N/A
IpAddress	N/A	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	N/A	N/A	Members include: • GigabitEthernet <2-2> • M-GigabitEthernet Interface<0-0> • Serial<2-2> • Vlan-interface<1-1>	N/A
LeaseAllowHint	Whether the function of expired allow-hint is specified.	N/A	Boolean: • **True** • False**(false)**	N/A
VerifyClass	Whether the function of Verify class is specified.	N/A	Boolean: • **True** • **False(false)**	N/A
VoiceConfig	N/A	Data structure	Members include: • AsIp • FailOverIp • FailOverDialerString • VoiceVlanId • VoiceVlanEnable • NcpIp	N/A
AsIp	N/A	N/A	String, dotted decimal notation.	N/A
FailOverIp	N/A	N/A	String, dotted decimal notation.	N/A
FailOverDialerString	N/A	N/A	String, case sensitive. Length: 1 to 39 (0-9, *)characters.	N/A
VoiceVlanID	N/A	N/A	Unsigned integer. Value range: 2 to 4094	N/A
VoiceVlanEnable	Whether the function of VoiceVlanID is	N/A	Boolean: • **True** • **False(false)**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	specified.			
NcpIp	N/A	N/A	String, dotted decimal notation.	N/A
VsrpInstance	N/A	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
ClassRanges	N/A	Data structure	Members include: • Class • StartIp • EndIP	SubTable
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
StartIp	Start ip of range	N/A	String, dotted decimal notation.	N/A
EndIp	End ip of range	N/A	String, dotted decimal notation.	N/A
ClassLeaseTime	IP address lease duration for the DHCP user class in seconds	N/A	Unsigned integer. Value range: 30 to 31622399.	N/A
ClassLeaseUnlimit	Whether to set the IP address lease duration unlimited.	N/A	Boolean: • **true** • **false** (default)	You cannot configure ClassLeaseUnlimit together with ClassLeaseTime .
ClassLeaseAllowHint	Whether to allow the DHCP server to use the DHCP client-suggested lease duration	N/A	Boolean: • **true** • **false** (default)	To configure ClassLeaseAllowHint, configure ClassLeaseTime or ClassLeaseUnlimit first.
ClassOptionGroups	N/A	Data structure	Members include: • Class • OptionGroup	SubTable

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
OptionGroup	Group number	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteServers	N/A	Data structure	Members include: • Ip • VRF • Public	SubTable
Ip	N/A	Index	String, dotted decimal notation.	N/A
VRF	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
Public	Whether the function of remote-server public is specified.	N/A	Boolean: • **True** • **False(false)**	N/A
ValidClasses	N/A	Data structure	Members include: Class	SubTable
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
Networks	N/A	Data structure	Members include: • NetworkAddress • Gateway-list • NetworkSecMask • NetworkSecPriority • NetworkSecExportRoute • NetworkSecPreference • NetworkSecTag	SubTable

Column name	Column description	Column type	Data type and restrictions	Remarks
			• GatewayLists	
Network	Specify a network for the pool	Sublist	N/A	N/A
NetworkAddress	N/A	Index	String, dotted decimal notation.	N/A
NetworkSecMask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
NetworkSecPriority	Priority value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
NetworkSecExportRoute	Whether to advertise the subnet route	N/A	Boolean: • **true** **false**(default)	It must be configured together with NetworkIpv4Address
NetworkSecPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255.	N/A
NetworkSecTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
GatewayLists	N/A	Data structure	Members include: Gateway	SubTable
GatewayList	Specify gateways	Sublist	N/A	N/A
Gateway	Gateway addresses	Index	String, dotted decimal notation.	N/A
Bindings	N/A	Data structure	Members include: • UpIfName • BindingUpId BindingUpBackupProfile	SubTable
Binding	Bind an IPv4 address pool to a UP device	Sublist	N/A	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UpIfName	Interface name.	N/A	String, case sensitive. Length: 1 to 48 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
BindingUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	BindingUpId
BindingUpBackupProfile	Backup group to which IP address pool belongs	N/A	Unsigned integer. Value range: 1 to 16384.	N/A
BindingMasterUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingBackupUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingRouteRefresh	Enable the CP to issue the updated subnet route to UPs after a master-backup switchover in warm backup mode	N/A	Boolean: • **True** • **false** (default)	It must be configured together with BindingUpBackupProfile
ForbiddenIpsInPool	List of ForbiddenIpInPool	Sublist	N/A	N/A
ForbiddenIpInPoo	A space-separated	Sublist	N/A	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
l	list of up to eight excluded IP addresses.			
SingleForbiddenIpv4Address	The excluded IP addresses in an IP pool are still assignable in other IP pools.	N/A	String, dotted decimal notation.	N/A
GatewayOfBasPool	Gateway addresses of bas local or bas remote address pool	N/A	String, dotted decimal notation.	N/A
GatewayMaskOfBasPool	Mask of the gateway address of bas local or bas remote address pool	N/A	String, dotted decimal notation.	N/A
SubnetForceRenew	Renew information about the subnets allocated to ODAP clients	N/A	Boolean: • **true** • **false** (default)	This column is obsolete. To renew the subnets allocated to ODAP clients, use the SubnetForceRenew column in the DHCPServerForceRenewSubNet table, as described in the DHCP NETCONF XML API action reference document.
ReserveGroupName	UP backup group bound to the IP address pool	N/A	String, dotted decimal notation.	Configure this object to assign reserved IP users to the specified UP backup group.
Gateway-list	N/A	N/A	String, dotted decimal notation.	N/A
StartIpv4Network	Start IP address of the IP network	N/A	String, dotted decimal notation.	The specified network range cannot overlap

Column name	Column description	Column type	Data type and restrictions	Remarks
	range in the DHCP NAT-central address pool			with the networks or network ranges specified for any pools in the same network namespace (the public network or VPN instance). If you specify StartIpv4Network, you must also specify EndIpv4Network. You can specify a start IP address only in the NAT-central IP address pool.
EndIpv4Network	End IP address of the IP network range in the DHCP NAT-central address pool	N/A	String, dotted decimal notation.	If you specify StartIpv4Network, you must also specify EndIpv4Network. You can specify an end IP address only in the NAT-central IP address pool.
IpPoolLock	Lock the IP pool to prevent it from being used for IP assignment or lease renewal	N/A	Unsigned integer. Enumeration: • **0**—The IP pool is not locked and can be used for IP assignment and lease renewal. This is the default setting. • **1**—Lock the IP pool in loose mode. • **2**—Lock the IP pool in strict mode.	If an IP pool is locked in loose mode, the DHCP server cannot use it for IP address assignment, but it can still renew leases for clients that have been assigned IP addresses from that pool. Lock an IP pool in strict mode to prevent it from being used for assignment of new IP addresses or lease renewal.

DHCP/DHCPServerPoolStatic

This table contains static binding information of DHCP server IP pool.

XML structure

```
<DHCP>
  <DHCPServerPoolStatic>
    <IpPoolStatic>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <CID></CID>
      <HAddress></HAddress>
      <HType></HType>
      <Description></Description>
    </IpPoolStatic>
  </DHCPServerPoolStatic>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatic
Table type	Multi-instance table
Row name	IpPoolStatic
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
Ipv4Address	IP address of the static binding	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Mask	IP address mask of the static binding	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
CID	Client ID of the static binding	N/A	String, case insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct. Can not be configured together with HAddress, HType column, but one of the CID and HAddress is required. Can not modify bindings. To change the binding for a DHCP client, you must delete the existing binding first and create a new binding.
HAddress	Client hardware address of the static binding	N/A	String, case insensitive. Length: 4 to 39 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit

Column name	Column description	Column type	Data type and restrictions	Remarks
				hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address type	N/A	Enumeration: • **1**—Ethernet (default). • **2**—TokenRing.	It must be configured together with the HAddress column.
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DHCP/DHCPConfig

This table contains DHCP server and DHCP relay configuration information.

XML structure

```
<DHCP>
  <DHCPConfig>
    <DHCPEnable></DHCPEnable>
    <ServerConfig>
      <AlwaysBroadcast></AlwaysBroadcast>
      <IgnoreBOOTP></IgnoreBOOTP>
      <BOOTPReplyRFC1048></BOOTPReplyRFC1048>
      <Opt82Enabled></Opt82Enabled>
      <PingNumber></PingNumber>
      <PingTimeout></PingTimeout>
      <ApplyPolicy></ApplyPolicy>
      <AuthorizedIpConflictIgnore></AuthorizedIpConflictIgnore>
      <AllocatedIpThreshold></AllocatedIpThreshold>
      <TrapAddressExhaust></TrapAddressExhaust>
      <TrapAllocIp></TrapAllocIp>
      <TrapIpInUse></TrapIpInUse>
      <MultiIpPerMacEnable></MultiIpPerMacEnable>
      <ReplyExcludeOpt60></ReplyExcludeOpt60>
      <DynamicPoolTag></DynamicPoolTag>
      <FramedIpAddressTag></FramedIpAddressTag>
      <FramedIpNetmaskTag></FramedIpNetmaskTag>
```

```
      <FramedRouteTag></FramedRouteTag>
      <LocalPoolTag></LocalPoolTag>
      <RemotePoolTag></RemotePoolTag>
    </ServerConfig>
    <RelayConfig>
      <UserInfoRecord></UserInfoRecord>
      <UserInfoRefresh></UserInfoRefresh>
      <UserInfoFlushTime></UserInfoFlushTime>
      <AlwaysUnicast></AlwaysUnicast>
      <CheckMacAddressAgingTime></CheckMacAddressAgingTime>
      <SmartRelayEnable></SmartRelayEnable>
    </RelayConfig>
    <FloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </FloodProtectionThreshold>
    <FloodProtectionAgeTime></FloodProtectionAgeTime>
    <LogEnable></LogEnable>
    <ConflictIpOffline></ConflictIpOffline>
    <RouteLogGlobalEnable></RouteLogGlobalEnable>
    <Dscp></Dscp>
    <IfFloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </IfFloodProtectionThreshold>
    <IfFloodProtectionAgeTime></IfFloodProtectionAgeTime>
    <ServerDatabase>
      <FileName></FileName>
      <Url></Url>
      <UserName></UserName>
      <PasswordType></PasswordType>
      <Password></Password>
      <UpdateInterval><UpdateInterval>
    </ServerDatabase>
    <RequestIpAddressCheck></RequestIpAddressCheck>
    <DiscoverOffline></DiscoverOffline>
    <RebootRequestOffline></RebootRequestOffline>
    <DHCPRateLimit></DHCPRateLimit>
  </DHCPConfig>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP

Table name	DHCPConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPEnable	Whether the function of DHCP is enabled.	N/A	Boolean: • **true** • **false** (default)	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: • AlwaysBroadcastAlert • IgnoreBOOTP • BOOTPReplyRFC1048 • Opt82Enabled • PingNumber • PingTimeout • AuthorizedIpConflictIgnore • AllocatedIpThreshold • TrapAddressExhaust • TrapAllocIp • TrapIpInUse • MultiIpPerMacEnable • ReplyExcludeOpt60 • DynamicPoolTag (not supported)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• FramedIpAddressTag • FramedIpNetmaskTag • FramedRouteTag • LocalPoolTag • RemotePoolTag	
AlwaysBroadcast	Whether enable the DHCP server to broadcast all responses or not.	N/A	Boolean: • **true** • **false** (default)	N/A
IgnoreBOOTP	Whether ignore BOOTP requests or not.	N/A	Boolean: • **true** • **false** (default)	N/A
BOOTPReplyRFC1048	Whether enable the DHCP server to send BOOTP responses in RFC 1048 format when it receives RFC 1048-incompliant BOOTP requests for statically bound addresses or not.	N/A	Boolean: • **true** • **false** (default)	N/A
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: • **true** (default) • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PingNumber	Maximum number of ping packets	N/A	Unsigned integer. Value range: 0 to 10. Default: 1.	To disable the address conflict detection, set the value to 0.
PingTimeout	Ping response timeout time on the DHCP server	N/A	Unsigned integer. Value range: 0 to 10000 milliseconds. Default: 500 milliseconds.	To disable the ping operation for address conflict detection, set the value to 0 milliseconds.
Applypolicy	Apply a DHCP policy	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
AuthorizedIpConflictIgnore	Whether to ignore authorized IP address conflicts.	N/A	Boolean: • **true** • **false** (default)	N/A
AllocatedIpThreshold	IP address allocation success rate threshold.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
TrapAddressExhaust	Whether to enable SNMP notifications for IP pool exhaustion or recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapAllocIp	Whether to enable SNMP notifications for IP address allocation success rate threshold violation.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapIpInUse	Whether to enable SNMP	N/A	Boolean: • **true** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	notifications for IP pool usage threshold violation and recovery.		• **false**	
MultiIpPerMacEnable	Whether to enable allocation of different IP addresses to DHCP clients with the same MAC address.	N/A	Boolean: • **true** • **false** (default)	N/A
ReplyExcludeOpt60	Whether to disable the DHCP server from encapsulating Option 60 in DHCP replies.	N/A	Boolean: • **true** • **false** (default)	N/A
DynamicPoolTag	UNR tag value for IP pools that support dynamic subnet allocation.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	This column is not supported.
FramedIpAddressTag	UNR tag value for host routes generated based on the Framed-IP-Address attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
FramedIpNetmaskTag	UNR tag value for network routes	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	generated based on the Framed-IP-Netmask attribute assigned by the RADIUS server.		4294967295. Default: 0.	
FramedRouteTag	UNR tag value for network routes generated based on the Framed-Routing attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
LocalPoolTag	UNR tag value for local BAS IP pools.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
RemotePoolTag	UNR tag value for remote BAS IP pools.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
RelayConfig	Configuration of DHCP relay	Data structure	Members include: • UserInfoRecord • UserInfoRefresh • UserInfoFlushTime • AlwaysUnicast • CheckMacAddressAgingTime • SmartRelayEnable	N/A
UserInfoRecord	Whether the function of recording	N/A	Boolean: • **true** • **false**(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client information in relay entries is enabled.			
UserInfoRefresh	Whether enable the relay agent to periodically refresh dynamic relay entries or not.	N/A	Boolean: • **true**(default) • **false**	N/A
UserInfoFlushTime	Interval at which the DHCP relay agent periodically refreshes relay entries	N/A	Unsigned integer. Value range: 0 to 120 seconds. Default: 0 seconds.	To automatically calculate the refresh interval, set the value to 0 seconds.
FloodProtectionThreshold	Threshold of DHCP flood protection	Data structure	Members include: • NumberOfPackets • DetectionTime.	N/A
NumberOfPackets	Number of DHCP packets allowed to be received within detection time and not judged as an attack.	N/A	Unsigned integer. Value range: 2 to 200. Default: 10.	N/A
DetectionTime	Detection time in milliseconds.	N/A	Unsigned integer. Value range: 1000 to 10000. Default: 5000.	N/A
FloodProtectionAgeTime	Aging time of DHCP flood protection entries	N/A	Unsigned integer. Value range: 30 to 600. Default: 300.	N/A
LogEnable	Whether the	N/A	Boolean:	N/A

	function of DHCP logging is enabled		• **true** • **false**(default)	
AlwaysUnicast	Whether to enable the DHCP relay agent to always unicast relayed DHCP response.	N/A	Boolean: • **true** (default) • **false**	N/A
CheckMacAddressAgingTime	Aging time for MAC address check entries on the DHCP relay agent.	N/A	Unsigned integer. Value range: 30 to 600 seconds. Default: 30.	N/A
SmartRelayEnable	Whether to enable the DHCP smart relay feature.	N/A	Boolean: • **true** • **false** (default)	N/A
ConflictIpOffline	Whether to enable the IP conflicting user offline feature.	N/A	Boolean: • **true** • **false** (default)	N/A
RouteLogGlobalEnable	Whether the function of DHCP route logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
Dscp	DSCP value for DHCP packets.	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	N/A
IfFloodProtectionThreshold	DHCP packet rate threshold that triggers DHCP flood attack protection.	Data structure	Members include: • NumberOfPackets • DetectionTime	N/A

NumberOfPackets	Maximum number of DHCP packets received on an interface.	N/A	Unsigned integer. Value range: 2 to 6000. Default: 3000.	N/A
DetectionTime	Interface-based DHCP attack detection duration.	N/A	Unsigned integer. Value range: 1000 to 10000 milliseconds. Default: 5000.	N/A
IfFloodProtectionAgeTime	Aging time of interface-based DHCP attack suppression entries.	N/A	Unsigned integer. Value range: 30 to 600 seconds.	N/A
ServerDatabase	Configuration of the DHCP server database.	Data structure	Members include: • FileName • Url • UserName • PasswordType • Password • UpdateInterval	N/A
FileName	Name of the DHCP binding backup file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Url	URL of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserName	UserName of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
PasswordType	PasswordType of the remote backup file.	N/A	String, case-insensitive. Length: 6 characters.	Cipher or simple
Password	Password of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 73 characters in ciphertext, and 1 to 32 characters	N/A

			in plaintext.	
UpdateInterval	Waiting time for the DHCP server to update the backup file after a DHCP binding change.	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300.	N/A
RequestIpAddressCheck	Enabling status of the request-ip-address check function for DHCP server.	N/A	Boolean: • **True** • **false** (default)	N/A
DiscoverOffline	Whether the DHCP server releases the IP address lease previously assigned to a client when it receives a DHCP DISCOVER message from that client.	N/A	Boolean: • **true**—The server releases the IP address lease and does not respond to the request. • **false**—The server responds with the IP address in the lease.	N/A
RebootRequestOffline	Whether the DHCP server releases the IP address lease previously assigned to a client when it receives a DHCP REQUEST message sent by the client upon a reboot	N/A	Boolean: • **true**—The server releases the IP address lease and does not respond to the request. • **false**—The server responds with the IP address in the lease.	N/A
DHCPRateLimit	Set a limit on	N/A	Unsigned integer.	With this feature

	the receiving rate of DHCP packets from users.		Value range: 1 to 500000000.	enabled, the device will drop DHCP packets that exceed the limit.

DHCP/DHCPIfMode

This table contains DHCP interface mode information.

XML structure

```
<DHCP>
  <DHCPIfMode>
    <IfMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <Option60></Option60>
      <ClientDetect></ClientDetect>
      <FloodProtectionEnable></FloodProtectionEnable>
      <SessionMismatchAction></SessionMismatchAction>
      <ApplyIpPool></ApplyIpPool>
    </IfMode>
  </DHCPIfMode>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfMode
Table type	Multi-instance table
Row name	IfMode
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	DHCP mode	N/A	Enumeration: • **0**—None. • **1**—Server (default). • **2**—Relay. • **3**—RelayProxy.	N/A
Option60	Used to configure DHCP relay to add option 60 in DHCP request message	N/A	String. Length: 1 to 128.	N/A
ClientDetect	Enable the offline detection function of DHCP relay user.	N/A	Boolean: • **true** • **false** (default)	N/A
FloodProtectionEnable	Whether enable DHCP flood protection.	N/A	Boolean: • **true** • **false** (default).	N/A
SessionMismatchAction	Configure the processing method of DHCP request sent by online users whose physical location changes	N/A	Enumeration: • **0**—Invalid(default) • **1**—Roam • **2**—Fastrenew • **3**—All	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and MAC address remains unchanged by DHCP device.			
ApplyIpPool	Specifies the name of the IP pool to apply to the interface	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP/DHCPRelaySrvIPv4Address

This table contains DHCP servers on the DHCP relay agent information.

XML structure

```
<DHCP>
  <DHCPRelaySrvIPv4Address>
    <RelaySrvIPv4>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Public></Public>
      <VpnInstanceName></VpnInstanceName>
    </RelaySrvIPv4>
  </DHCPRelaySrvIPv4Address>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrvIPv4Address
Table type	Multi-instance table
Row name	RelaySrvIPv4
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A
Public	DHCP servers belonging to the public network	Index	Boolean: • **true** • **false**.	N/A
VpnInstanceName	DHCP servers belonging to a VRF	Index	String. Length: 1 to 31.	N/A

DHCP/DHCPServerPoolOption

This table contains DHCP server IP pool options information.

XML structure

```
<DHCP>
  <DHCPServerPoolOption>
    <IpPoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueIpAddresses></OptionValueIpAddresses>
    </IpPoolOption>
  </DHCPServerPoolOption>
```

```
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolOption
Table type	Multi-instance table
Row name	IpPoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
OptionCode	Number of the customized option	Index	Unsigned integer. Value range: 2 to 254.	Excluding 50 through 54, 56, 58, 59, 61, and 82.
OptionValueHex	Hex string as the option content	N/A	String, case insensitive. Length: 2 to 256 characters.	Only one of OptionValueHex, OptionValueAscii and OptionValueIpAddresses can be set. Hex string of even numbers from 2 to 256 as the option content.
OptionValueAscii	ASCII string as the option content	N/A	String, case sensitive. Length: 1 to 255 characters.	N/A
OptionValueIpAddresses	IP addresses as the option content	N/A	String, case insensitive. Length: 1 to 127 characters.	If there are multiple addresses, separated them by space.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Example: 1.1.1.1 2.2.2.2 3.3.3.3.

DHCP/DHCPRelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <SourceIfIndex></SourceIfIndex>
      <DefaultGiaddr ></DefaultGiaddr>
      <Gateway></Gateway>
      <RelayInterface></RelayInterface>
    </RelaySrcAddr>
  </DHCPRelaySourceAddress>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv4Address	Source IP address of the DHCP requests forwarded by the DHCP relay agent on the interface	N/A	String, dotted decimal notation.	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.
SourceIfIndex	Index of the source interface for the DHCP requests forwarded by the DHCP relay agent on the interface	N/A	Unsigned integer.	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.If you specify a source interface, its IP address is used as the source IP address of the DHCP requests forwarded by the relay agent. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultGiaddr	Disables the relay agent from setting the specified source IP address in the Giaddr field when it forwards DHCP requests	N/A	Boolean: • **true**—The relay agent does not replace the gateway address in the Giaddr field with the specified source IP address (if any). • **false**—The relay agent sets the specified source address (if any) in the Giaddr field when it forwards DHCP requests.	N/A
Gateway	Gateway of interface	N/A	Boolean: • **true** **false** (default)	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.
RelayInterface	Interface that enable relay	N/A	Boolean: • **true** **false** (default)	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.

DHCP/DHCPRelayInfoEnable

This table contains information about whether the DHCP relay agent support Option 82.

XML structure

```
<DHCP>
  <DHCPRelayInfoEnable>
    <RelayInfoEnable>
      <IfIndex></IfIndex>
      <InfoEnable></InfoEnable>
      <Strategy></Strategy>
```

```
      <RemoteId>
        <Type></Type>
        <Format></Format>
        <String></String>
      </RemoteId>
      <CircuitId>
        <CircuitIdType></CircuitIdType>
        <WithVxlan></WithVxlan>
        <SubInterfaceVlan></SubInterfaceVlan>
        <Format></Format>
        <String></String>
        <Interface></Interface>
        <NodeIdentifierType></NodeIdentifierType>
        <UserDefined></UserDefined>
        <SysnameVlan></SysnameVlan>
      </CircuitId>
      <LinkSelectionAddr></LinkSelectionAddr>
    </RelayInfoEnable>
  </DHCPRelayInfoEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfoEnable
Table type	Multi-instance table
Row name	RelayInfoEnable
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
InfoEnable	Whether the DHCP relay agent supports Option 82.	N/A	Boolean: • **true** • **false** (default)	N/A
Strategy	Strategy to process Option 82.	N/A	Enumeration: • **0**—replace (default) • **1**—keep • **2**—drop	N/A
RemoteId	Remote ID sub-option configuration.	Data structure	Members include: • Type • Format • String	N/A
Type	Remote ID sub-option type.	N/A	Enumeration: • **0**—normal (default) • **2**—string • **3**—sysname	N/A
Format	Format of the remote ID sub-option.	N/A	Enumeration: • **0**—hex (default) • **1**—ascii	N/A
String	Content of the remote ID sub-option.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
CircuitId	Circuit ID sub-option configuration.	Data structure	Members include: • CircuitIdType • WithVxlan • SubInterfaceVlan • Format • String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Interface • NodeIdentifierType • UserDefined • SysnameVlan	
CircuitIdType	Circuit ID sub-option type.	N/A	Enumeration: • **0**—normal (default) • **1**—verbose • **2**—string • **4**—bas • **5**—vxlan-port • **6**—srv6-opcode	N/A
WithVxlan	Whether to pad the Circuit ID sub-option with VXLAN ID.	N/A	Boolean: • **true** • **false** (default)	N/A
SubInterfaceVlan	Whether to pad the Circuit ID sub-option with VLAN ID of the L2VE subinterface.	N/A	Boolean: • **true** • **false** (default)	N/A
Format	Format of the circuit ID sub-option.	N/A	Enumeration: • **0**—hex (default) • **1**—ascii	N/A
String	Content of the circuit ID sub-option.	N/A	String, case-sensitive. Length: 3 to 63 characters.	N/A
Interface	Whether to use the interface name as the interface information.	N/A	Boolean: • **true** • **false** (default)	N/A
NodeIdentifierType	Node identifier type.	N/A	Enumeration: • **0**—mac • **1**—sysname	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—user-defined	
UserDefined	User-defined string as the node identifier.	N/A	String, case-sensitive. Length: 1 to 50 characters.	The node identifier cannot contain spaces.
SysnameVlan	Whether to pad the Circuit ID sub-option with the inner and outer VLAN information of request packets.	N/A	Boolean: • **true** • **false**(default)	This parameter is supported only when the device name (**sysname**) is specified as the node identifier.
LinkSelectionAddr	IP address for sub-option 5 of Option 82	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPServerForbiddenIp

This table contains information about IP addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP>
  <DHCPServerForbiddenIp>
    <ForbiddenIp>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </ForbiddenIp>
  </DHCPServerForbiddenIp>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerForbiddenIp
Table type	Multi-instance table

Row name	ForbiddenIp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
StartIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	EndIpv4Address cannot be lower than the StartIpv4Address.

DHCP/DHCPRelayDiscReqFromTnlEnable

This table contains information about whether the DHCP relay discard request from tunnel.

XML structure

```
<DHCP>
  <DHCPRelayDiscReqFromTnlEnable>
    <RelayDiscardReqFromTnlEnable>
      <IfIndex></IfIndex>
      <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
    </RelayDiscardReqFromTnlEnable>
  </DHCPRelayDiscReqFromTnlEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayDiscReqFromTnlEnable
Table type	Multi-instance table
Row name	RelayDiscardReqFromTnlEnable
Restrictions	This table supports only interface of VSI type
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
DiscardReqFromTnlEnable	Whether the DHCP relay agent support discard request packet from tunnel .	N/A	Boolean: • **true** • **false** (default)	N/A

DHCP/DHCPRelayMacFowardEnable

This table contains information about whether the DHCP Relay support forward ACK or OFFER packet by Mac Address

XML structure

```
<DHCP>
  <DHCPRelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
      <MacBroadCast></MacBroadCast>
    </RelayMacForwardEnable>
  </DHCPRelayMacFowardEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayMacFowardEnable
Table type	Multi-instance table
Row name	RelayMacForwardEnable
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacEnable	Whether enable mac forward	N/A	Boolean: • **true** • **false** (default)	If mac forward is enable, DHCP server OFFER or ACK packet will forward via unicast.
MacBroadCast	Whether enable mac broadcast		Boolean: • **true** • **false** (default)	It must configured with MacEnable and Mac Enable must be true.

DHCP/DHCPRelayInfo

This table contains information about the DHCP relay agent option (Option 82).

XML structure

```
<DHCP>
  <DHCPRelayInfo>
    <RelayInfo>
      <IfIndex></IfIndex>
      <CircuitIdMode></CircuitIdMode>
    </RelayInfo>
  </DHCPRelayInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfo
Table type	Multi-instance table
Row name	RelayInfo
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
CircuitIdMode	Mode of the Circuit ID sub-option in	N/A	String, case-insensitive. Values include: • **NormalHex**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Option 82		(default) • **NormalAscii** • **VxlanPort**	

DHCP/DHCPVsi

This table contains the VSI configuration of DHCP.

XML structure

```
<DHCP>
  <DHCPVsi>
    <Vsi>
      <VsiName></VsiName>
      <FloodProtectionEnable></FloodProtectionEnable>
    </Vsi>
  </DHCPVsi>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPVsi
Table type	Multi-instance table
Row name	Vsi
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
FloodProtectionEnable	Enabling status of DHCP flood protection	N/A	Boolean: • **True** • **False** (default).	N/A

DHCP/DHCPRelayPoolRemoteServer

This table contains information about remote server address.

XML structure

```
<DHCP>
  <DHCPRelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv4Address></RemoteServerIpv4Address>
      <Public></Public>
     <VpnInstanceName></VpnInstanceName>
   </RemoteServer>
  </DHCPRelayPoolRemoteServer>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayPoolRemoteServer
Table type	Multi-instance table
Row name	RemoteServer
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
RemoteServerIpv4Address		Index	String, dotted decimal notation.	N/A
`Public`		N/A	Boolean: • **true** **false**(default)	The server is on the public network，and the pool VRF is not public
`VpnInstanceName`	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	The server is on the VPN network

DHCP/DHCPServerPoolGroup

This table contains information about the DHCP address pool group.

XML structure

```
<DHCP>
  <DHCPServerPoolGroup>
    <PoolGroup>
      <GroupName></GroupName>
      <vpn></vpn>
      <Pools>
        <Pool>
          <PoolName></PoolName>
          <Priority></Priority>
        </Pool>
      </Pools>
       <DiscoverNakCnt></DiscoverNakCnt>
       <DiscoverNakDuration></DiscoverNakDuration>
      <IpPoolAlgorithmRoundRobinLocal></IpPoolAlgorithmRoundRobinLocal>
      <IpPoolAlgorithmRoundRobinRemote></IpPoolAlgorithmRoundRobinRemote>
      <PoolGroupExhaustionTrapEnable></PoolGroupExhaustionTrapEnable>
```

```
      <PoolGroupExhaustionLogEnable></PoolGroupExhaustionLogEnable>
      <IpInUseThreshold></IpInUseThreshold>
    </PoolGroup>
  </DHCPServerPoolGroup>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolGroup
Table type	Multi-instance table, multi-level table
Row name	PoolGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	DHCP address pool group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
vpn	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the DHCP address pool is on the public network, the length of characters is 0.
PoolName	DHCP address pool name	Sublist	String, case-insensitive. Length: 1 to 63	Required when you create a new

			characters.	row. The name cannot be modified.
Priority	DHCP address pool priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	N/A
DiscoverNakCnt	Maximum number of NAK replies that the relay agent can receive from a DHCP server	N/A	Unsigned integer. Value range: 1 to 255.	N/A
DiscoverNakDuration	Waiting time for NAK replies from a DHCP server	N/A	Unsigned integer. Value range: 1 to 180 seconds.	N/A
IpPoolAlgorithmRoundRobinLocal	DHCP pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
IpPoolAlgorithmRoundRobinRemote	DHCP pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
PoolGroupExhaustionTrapEnable	Whether the SNMP notification about IP pool group exhaustion is enabled	N/A	Boolean: • **True** • **false**(default)	N/A
PoolGroupExhaustionLogEnable	Whether IP pool group exhaustion logging is enabled	N/A	Boolean: • **True** • **false**(default)	N/A
IpInUseThreshold	The warning rate of used ip in dhcp pool	N/A	Unsigned integer. Value range: 0 to 100.	N/A

	group			

DHCP/DHCPServerPolicy/ClassPolicy

This table contains DHCP server policy information.

XML structure

```
<DHCP>
  <DHCPServerPolicy>
    <ServerPolicy>
      <PolicyName></PolicyName>
      <DefaultIpPool></DefaultIpPool>
      <ClassName></ClassName>
      <IpPoolName></IpPoolName>
      <ClassPolicys>
        <ClassPolicy>
          <Class></Class>
          <IpPool></IpPool>
        </ClassPolicy>
      </ClassPolicys>
    </ServerPolicy>
  </DHCPServerPolicy>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPolicy
Table type	Multi-instance table, multi-level table
Row name	ServerPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DHCP policy name	Index	String, case insensitive. Length: 1 to 63 characters.	Required when create a new row, and the policy name cannot be modified.
DefaultIpPool	Default IP pool name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ClassName	Class name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IpPoolName	Name of the DHCP address pool for the class	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
ClassPolicys	N/A	Data structure	Members include: • Class • IpPool	SubTable
Class	DHCP6 class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpPool	IP pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP/DHCPServerClass

This table contains DHCP server class information.

XML structure

```
<DHCP>
  <DHCPServerClass>
    <ServerClass>
```

```
      <ClassName></ClassName>
      <RuleNumber></RuleNumber>
      <RuleType></RuleType>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueMask></OptionValueMask>
      <OptionOffset></OptionOffset>
      <OptionLen></OptionLen>
      <OptionPartial></OptionPartial>
      <HostId></HostId>
      <HostIdMask></HostIdMask>
      <Giaddr></Giaddr>
    </ServerClass>
  </DHCPServerClass>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClass
Table type	Multi-instance table
Row name	ServerClass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleNumber	Rule number	Index	Unsigned integer. Value range: 1 to 16.	N/A
RuleType	Match mode	Index	Enumeration: • **1**—hardware-address • **2**—option	N/A

			• **3**—relay-agent	
OptionCode	DHCP option code	N/A	Unsigned integer. Value range: 1 to 254.	N/A
OptionValueHex	Specify DHCP option content with the hexadecimal format	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 256 characters.	N/A
OptionValueAscii	Specify DHCP option content with the ASSCII format	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
OptionValueMask	Specify the mask	N/A	String, case-insensitive. Length: 2 to 256 characters.	N/A
OptionOffSet	Specify the offset	N/A	Unsigned integer. Value range: 0 to 254.	N/A
OptionLen	Length of the match criterion	N/A	Unsigned integer. Value range: 1 to 128.	N/A
OptionPartial	Enable partial match	N/A	Boolean: • true. • false(default).	N/A
HostId	Hardware address	N/A	String, case insensitive. Length: 4 to 39 characters.	N/A
HostIdMask	Hardware address mask	N/A	String, case insensitive. Length: 4 to 39 characters.	N/A
Giaddr	IP address	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPIfConfig

This table contains DHCP server and DHCP interface configuration information.

XML structure

```
<DHCP>
```

```
  <DHCPIfConfig>
    <IfConfig>
      <IfIndex></IfIndex>
      <RateLimit></RateLimit>
      <RateSuppressionEnable></RateSuppressionEnable>
      <ApplyPool></ApplyPool>
      <ClientDetec></ClientDetec>
      <ServerConfig>
        <CheckMacAddress></CheckMacAddress>
        <ApplyIpPool></ApplyIpPool>
        <ApplyPolicy></ApplyPolicy>
        <PolicyFirstEnable></PolicyFirstEnable>
      </ServerConfig>
      <RelayConfig>
        <CheckMacAddress></CheckMacAddress>
        <DhcpServerTimeout></DhcpServerTimeout>
        <ForwardReplyByOpt82></ForwardReplyByOpt82>
        <Gateway></Gateway>
         <NonFirstHopEnable></NonFirstHopEnable>
        <MasterServerSwitchDelay></MasterServerSwitchDelay>
        <RemoteServerAlgorithm></RemoteServerAlgorithm>
        <IfReleaseAgent></IfReleaseAgent>
      </RelayConfig>
      <Pools>
        <Pool>
          <PoolName></PoolName>
          <PoolOption></PoolOption>
          <PoolOption60></PoolOption60>
          <PoolOption60String></PoolOption60String>
        </Pool>
      <Pools>
    </IfConfig>
  </DHCPIfConfig>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfConfig
Table type	Multi-instance table, multi-level table
Row name	IfConfig
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
RateLimit	Maximum DHCP packet receiving rate on an interface.	N/A	Unsigned integer. Value range: 1 to 512.	N/A
RateSuppressionEnable	Whether to enable interface-based DHCP attack suppression.	N/A	Boolean: • **true** • **false** (default)	N/A
ApplyPool	DHCP address pool name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
ClientDetec	Enable the user logoff detection function of DHCP server or DHCP relay.	N/A	Boolean: • **true** • **false** (default)	N/A
ServerConfig	Server	Data	Members include:	N/A

	configuration.	structure	• CheckMacAddress • ApplyIpPool • ApplyPolicy • PolicyFirstEnable	
CheckMacAddress	Whether to enable MAC address check on the DHCP server.	N/A	Boolean: • **true** • **false**(default)	N/A
ApplyIpPool	IP pool applied to an interface.	N/A	String. Length: 1 to 63.	N/A
ApplyPolicy	DHCP policy applied to an interface.	N/A	String. Length: 1 to 63.	N/A
PolicyFirstEnable	Whether to enable policy-first IP pool selection.	N/A	Boolean: • **true** • **false** (default)	N/A
RelayConfig	Relay agent configuration.	Data structure	Members include: • CheckMacAddress • DhcpServerTimeout • ForwardReplyByO-pt82 • Gateway • NonFirstHopEnable	N/A
CheckMacAddress	Whether to enable MAC address check on the DHCP relay agent.	N/A	Boolean: • **true** • **false** (default)	N/A
DhcpServerTimeout	DHCP server response timeout time for DHCP server switchover.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 30.	N/A
ForwardReplyByOpt82	Whether to enable the DHCP relay	N/A	Boolean: • **true** • **false** (default)	N/A

	agent to forward DHCP replies based on Option 82.			
Gateway	DHCP relay agent address to be padded to DHCP requests.	N/A	String, dotted decimal notation.	N/A
NonFirstHopEnable	Whether to enable non-first-hop DHCP relay	N/A	Boolean: • **true** **false** (default)	For access authentication to take effect, you must enable this feature on the relay agent.
MasterServerSwitchDelay	The time of master server switch delay	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteServerAlgorithm	N/A	N/A	Enumeration: • Master-backup • polling(default)	N/A
IfReleaseAgent	Send a release message to the DHCP server when you delete a user entry	N/A	Boolean: • **true** (default) • **false**	This column does not take effect unless the device acts as a DHCP relay agent. This column is not supported by common users.
Pools	Used to specify the DHCP relay address pool corresponding to DHCP clients	Child table	N/A	N/A
PoolName	Pool name index	Index	String. Length: 1 to 64.	N/A
PoolOption	No 60 specified for distribution	N/A	Unsigned integer. Value range: 1 to 59 && 61	N/A

			to 254. Default: 0.	
PoolOption60	Option specified as 60	N/A	Boolean: • **true** • **false** (default)	N/A
PoolOption60String	Option specifies string followed by 60 for 60 option	N/A	String. Length: 1 to 128.	N/A

DHCP/DHCPServerOptionGroup

This table contains information about the DHCP server option group.

XML structure

```
<DHCP>
  <DHCPServerOptionGroup>
    <ServerOptionGroup>
      <OptionGroup></OptionGroup>
      <OptionCodes>
        <OptionCode>
          <Code></Code>
          <OptionValueHex></OptionValueHex>
          <OptionValueAscii></OptionValueAscii>
          <OptionValueIp></OptionValueIp>
        </OptionCode>
      <OptionCodes>
    </ServerOptionGroup>
  </DHCPServerOptionGroup>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerOptionGroup
Table type	Multi-instance table, multi-level table
Row name	OptionGroup

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionGroup	DHCP option group number.	Index	Unsigned integer. Value range: 1 to 32768.	Required when you create a new row.

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
OptionCodes	N/A	Data structure	Members include: • Code • OptionValueHex • OptionValueAscii • OptionValueIp	SubTable
Code	DHCP option number.	Index	Unsigned integer. Value range: 2 to 254, excluding 50 through 54, 56, 58, 59, 61, and 82.	N/A
OptionValueHex	DHCP option content.	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 256 characters.	N/A
OptionValueAscii	DHCP option content.	N/A	String. Length: 1 to 255 characters.	N/A
OptionValueIp	DHCP option content.	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPRelayServerInfo

This table contains information about the DHCP server information on the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelayServerInfo>
    <RelayServerInfo>
      <ServerIp></ServerIp>
      <vpn></vpn>
      <DeadCount></DeadCount>
      <DeadTime></DeadTime>
      <NakCount></NakCount>
      <Timeout></Timeout>
    </RelayServerInfo>
  </DHCPRelayServerInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayServerInfo
Table type	Multi-instance table
Row name	RelayServerInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerIp	DHCP server IP address.	Index	String, dotted decimal notation.	N/A
vpn	VRF instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
DeadCount	Maximum number of consecutive communication failures before the relay agent	N/A	Unsigned integer. Value range: 1 to 64. Default: 0.	N/A

	marks a DHCP server as down.			
DeadTime	Time period for the relay agent to wait before communicating with the DHCP server.	N/A	Unsigned integer. Value range: 1 to 65536. Default: 3.	N/A
NakCount	Maximum number of DHCP-NAK packets that the relay agent can receive.	N/A	Unsigned integer. Value range: 0 to 255. Default: 10.	N/A
Timeout	Communication failure check timer.	N/A	Unsigned integer. Value range: 1 to 60. Default: 25.	N/A

DHCP/DHCPServerOdapPoolGateway

This table contains information about the DHCP server information on the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPServerOdapPoolGateway>
    <PoolIndex></PoolIndex>
    <Gateway></Gateway>
    <MaskLen></MaskLen>
  </DHCPServerOdapPoolGateway>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerOdapPoolGateway

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 cannot be set.
Gateway	Gateway addresses of ODAP address pool	N/A	String, dotted decimal notation.	N/A
MaskLen	Gateway address mask	N/A	String, dotted decimal notation.	N/A

Contents

DHCP 1

DHCP/DHCPServerIpPool 1
XML structure 1
Table description 4
Columns 4
DHCP/DHCPServerPoolStatic 21
XML structure 21
Table description 22
Columns 22
DHCP/DHCPServerIpInUse 23
XML structure 23
Table description 24
Columns 24
DHCP/DHCPConfig 26
XML structure 27
Table description 28
Columns 28
DHCP/DHCPIfMode 37
XML structure 37
Table description 38
Columns 38
DHCP/DHCPRelaySrvIPv4Address 39
XML structure 39
Table description 39
Columns 40
DHCP/DHCPRelayUserInfo 40
XML structure 40
Table description 40
Columns 41
DHCP/DHCPServerPoolOption 41
XML structure 41
Table description 42
Columns 42
DHCP/DHCPServerPoolStatistics 42
XML structure 43
Table description 43
Columns 43
DHCP/DHCPRelaySourceAddress 45
XML structure 45
Table description 45
Columns 45
DHCP/DHCPRelayInfoEnable 47
XML structure 47
Table description 48
Columns 48
DHCP/DHCPServerLeaseInfo 51
XML structure 51
Table description 51
Columns 52
DHCP/DHCPServerForbiddenIp 52
XML structure 52
Table description 53
Columns 53
DHCP/DHCPServerSubnetInUse 53
XML structure 54
Table description 54
Columns 54

DHCP/DHCPRelayDiscReqFromTnlEnable ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
DHCP/DHCPRelayMacFowardEnable ····· 57
XML structure ····· 57
Table description ····· 57
Columns ····· 57
DHCP/DHCPRelayInfo ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 58
DHCP/DHCPVsi ····· 59
XML structure ····· 59
Table description ····· 59
Columns ····· 60
DHCP/DHCPRelayPoolRemoteServer ····· 60
XML structure ····· 60
Table description ····· 60
Columns ····· 61
DHCP/DHCPServerPoolGroup ····· 61
XML structure ····· 61
Table description ····· 62
Columns ····· 62
DHCP/DHCPServerPolicy/ClassPolicy ····· 64
XML structure ····· 64
Table description ····· 64
Columns ····· 65
DHCP/DHCPServerClass ····· 65
XML structure ····· 65
Table description ····· 66
Columns ····· 66
DHCP/DHCPIfConfig ····· 67
XML structure ····· 67
Table description ····· 68
Columns ····· 69
DHCP/DHCPServerOptionGroup ····· 72
XML structure ····· 72
Table description ····· 72
Columns ····· 73
DHCP/DHCPRelayServerInfo ····· 73
XML structure ····· 73
Table description ····· 74
Columns ····· 74
DHCP/DHCPServerOdapPoolGateway ····· 75
XML structure ····· 75
Table description ····· 75
Columns ····· 76
DHCP/DHCPServerPoolGroupStatistics ····· 76
XML structure ····· 76
Table description ····· 77
Columns ····· 77

DHCP

DHCP/DHCPServerIpPool

This table contains DHCP server IP pool information.

XML structure

```
<DHCP>
  <DHCPServerIpPool>
    <IpPool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <NetworkIpv4Address></NetworkIpv4Address>
      <NetworkIpv4Mask></NetworkIpv4Mask>
      <NetworkExportRoute></NetworkExportRoute>
      <NetworkPreference></NetworkPreference>
      <NetworkTag></NetworkTag>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <LeaseDay></LeaseDay>
      <LeaseHour></LeaseHour>
      <LeaseMinute></LeaseMinute>
      <LeaseSecond></LeaseSecond>
      <LeaseUnlimit></LeaseUnlimit>
      <DomainName></DomainName>
      <GatewayIpv4Address></GatewayIpv4Address>
      <GatewayExportRoute></GatewayExportRoute>
      <DNSIpv4Address></DNSIpv4Address>
      <NetbiosType></NetbiosType>
      <NbnsIpv4Address></NbnsIpv4Address>
      <PoolType></PoolType>
      <SubnetAllocMode></SubnetAllocMode>
      <SubnetMaskLen></SubnetMaskLen>
      <SubnetExportRouteDisable></SubnetExportRouteDisable>
      <SubnetExportRoutePreference></SubnetExportRoutePreference>
      <SubnetExportRouteTag></SubnetExportRouteTag>
      <SubnetIdleTime></SubnetIdleTime>
      <ForbiddenIp>
        <StartForbiddenIpv4Address></StartForbiddenIpv4Address>
        <EndForbiddenIpv4Address></EndForbiddenIpv4Address>
      </ForbiddenIp>
      <BindingUpAddress></BindingUpAddress>
      <ExportHostRoute></ExportHostRoute>
```

```
<OriginSubnetMaskLen></OriginSubnetMaskLen>
<SubnetUltizationMark>
   <High></High>
   <Low></Low>
</SubnetUltizationMark>
<SubnetGiaddr></SubnetGiaddr>
<UnrTag></UnrTag>
<TftpServerDomainName></TftpServerDomainName>
<TftpServerIp></TftpServerIp>
<AllocateNewIp></AllocateNewIp>
<ExhaustionLogEnable></ExhaustionLogEnable>
<ExhaustionTrapEnable></ExhaustionTrapEnable>
<RouteLogEnable></RouteLogEnable>
<IpInuseThreshold></IpInuseThreshold>
<IpSubnetInuseThreshold></IpSubnetInuseThreshold>
<NextServer></NextServer>
<ReserveExpiredIp>
    <Enable></Enable>
    <Mode></Mode>
    <Limte></Limit>
    <Time></Time>
</ReserveExpiredIp>
<DhcpRelaySwitch>
  <NakCount></NakCount>
  <GatewayOnly></GatewayOnly>
  <ServerTimeOut></ServerTimeOut>
  <MasterServerSwitchDelay></MasterServerSwitchDelay>
  <RemoteServerAlgorithm></RemoteServerAlgorithm>
</DhcpRelaySwitch>
<BimsServer>
  <Ip></Ip>
  <Port></Port>
  <SharekeyType></SharekeyType>
</BimsServer>
<Bootfile></Bootfile>
<DhcpServerSource>
  <SourceType></SourceType>
  <IpAddress></IpAddress>
  <Interface></interface>
</DhcpServerSource>
<LeaseAllowHint></LeaseAllowHint>
<VerifyClass></VerifyClass>
<VoiceConfig>
  <AsIp></AsIp>
  <FailOverIp></FailOverIp>
  <FailOverDialerString></FailOverDialerString>
  <VoiceVlanID></VoiceVlanID>
  <VoiceVlanEnable></VoiceVlanEnable>
```

```
    <NcpIp></NcpIp>
  <VoiceConfig>
  <VsrpInstance></VsrpInstance>
<ClassRanges>
  <ClassRange>
    <Class></Class>
    <StartIp></StartIp>
    <EndIp></EndIp>
    <ClassLeaseTime></ClassLeaseTime>
    <ClassLeaseUnlimit></ClassLeaseUnlimit>
    <ClassLeaseAllowHint></ClassLeaseAllowHint>
  </ClassRange>
</ClassRanges>
<ClassOptionGroups>
  <ClassOptionGroup>
    <Class></Class>
    <OptionGroup></OptionGroup>
  </ClassOptionGroup>
</ClassOptionGroups>
<RemoteServers>
  <RemoteServer>
    <Ip></Ip>
    <VRF></VRF>
    <PUBLIC></PUBLIC>
  </RemoteServer>
</RemoteServers>
<ValidClasses>
  <ValidClass>
    <Class></Class>
  </ValidClass>
</ValidClasses>
<Networks>
  <Network>
    <NetworkAddress></NetworkAddress>
    <Gateway-list></Gateway-list>
      <NetworkSecMask></NetworkSecMask>
      <NetworkSecPriority></NetworkSecPriority>
      <NetworkSecExportRoute></NetworkSecExportRoute>
      <NetworkSecPreference></NetworkSecPreference>
      <NetworkSecTag></NetworkSecTag>
      <GatewayLists>
        <GatewayList>
          <Gateway></Gateway>
        </GatewayList>
      </GatewayLists>
  </Network>
</Networks>
  <Bindings>
```

```
        <Binding>
          <UpIfName></UpIfName>
          <BindingUpId></BindingUpId>
          <BindingUpBackupProfile></BindingUpBackupProfile>
          <BindingMasterUpId></BindingMasterUpId>
          <BindingBackupUpId></BindingBackupUpId>
          <BindingRouteRefresh></BindingRouteRefresh>
        </Binding>
      </Bindings>
      <ForbiddenIpsInPool>
        <ForbiddenIpInPool>
          <SingleForbiddenIpv4Address></SingleForbiddenIpv4Address>
        </ForbiddenIpInPool>
      </ForbiddenIpsInPool>
      <GatewayOfBasPool></GatewayOfBasPool>
      <GatewayMaskOfBasPool></GatewayMaskOfBasPool>
      <SubnetForceRenew></SubnetForceRenew>
      <ReserveGroupName></ReserveGroupName>
      <StartIpv4Network></StartIpv4Network>
      <EndIpv4Network></EndIpv4Network>
      <IpPoolLock></IpPoolLock>
    </IpPool>
  </DHCPServerIpPool>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpPool
Table type	Multi-instance table, multi-level table
Row name	IpPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	N/A
PoolName	DHCP address	N/A	String, case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool name		Length: 1 to 63 characters.	
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the pool is on the public network, the length of characters is 0.
NetworkIpv4Address	Primary subnet for dynamic allocation	N/A	String, dotted decimal notation.	N/A
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
NetworkExportRoute	Whether to advertise the subnet route	N/A	Boolean: • **true**. • **false**.	It must be configured together with NetworkIpv4Address
NetworkPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255. Default: 65.	N/A
NetworkTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	N/A
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365.	N/A
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59.	N/A
LeaseUnlimit	Whether the function of unlimited lease duration is specified.	N/A	Boolean: • **true** • **false**	N/A
DomainName	Domain name	N/A	String, case sensitive. Length: 1 to 50 characters.	N/A
GatewayIpv4Address	Gateway addresses	N/A	String, case insensitive. Length: 1 to 1024 characters.	You can specify a space-separated list of up to 64 addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
GatewayExportRoute	Whether to bind gateways to the DHCP server's MAC address in the address management module.	N/A	Boolean: • **true** • **false**	N/A
DNSIpv4Address	DNS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
NetbiosType	NetBIOS node type	N/A	Enumeration: • **1**—b-node. • **2**—p-node. • **3**—m-node. • **4**—h-node.	b-node: Specifies the broadcast node. A b-node client sends the destination name in a broadcast message to get the name-to-IP mapping from a server.

Column name	Column description	Column type	Data type and restrictions	Remarks
				h-node: Specifies the hybrid node. An h-node client unicasts the destination name to a WINS server. If it does not receive a response, the h-node client broadcasts the destination name to get the mapping from a server. m-node: Specifies the mixed node. An m-node client broadcasts the destination name. If it does not receive a response, the m-node client unicasts the destination name to the WINS server to get the mapping. p-node: Specifies the peer-to-peer node. A p-node client sends the destination name in a unicast message to get the mapping from the WINS server.
NbnsIpv4Address	WINS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
PoolType	Address pool type	N/A	Enumeration. • 0—normal • 1—subnet-alloc • 2—odap-client • 3—odap-server	Required when create a new row, cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4— nat (not supported) • 5—odap-client host • 6—bas local • 7—bas remote • 8—nat-local (not supported) • 9—odap • 10—nat-central	
SubnetAllocMode	Subnet allocation mode	N/A	Enumeration. • 0—vxlan-id • 1—up-id • 2—pool-name. • 3—interface. • 4—up-backup-profile. • 5—interface-physic. 6—up-backup-profile-route-refresh.	N/A
SubnetMaskLen	Subnet mask length	N/A	Unsigned integer. Value range: 1 to 32.	Subnet mask length cannot be less than network mask length.
SubnetExportRouteDisable	Whether to disable advertising dynamically allocated subnets	N/A	Boolean: • **true** • **false**	N/A
SubnetExportRoutePreference	Route preference	N/A	Unsigned integer. Value range: 1 to 255	N/A
SubnetExportRouteTag	Route tag	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
SubnetIdleTime	Delay time for the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DHCP server to reclaim idle subnets		Value range: 1 to 4294967295.	
ForbiddenIp	IPv4 adress excluded from dynamic allocation in the current IP pool.	Data structure	Members include: • StartForbiddenIpv4Address • EndForbiddenIpv4Address	You can specify an IPv4 address range excluded from dynamic allocation.
StartForbiddenIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation in the current IP pool	N/A	String, dotted decimal notation.	N/A
EndForbiddenIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation in the current IP pool	N/A	String, dotted decimal notation.	EndForbiddenIpv4Address cannot be lower than the StartForbiddenIpv4Address.
BindingUpAddress	Ipv4 address	N/A	String, dotted decimal notation.	N/A
ExportHostRoute	Whether the function of export host route is specified.	N/A	Boolean: • **True** • **False**	N/A
OriginSubnetMaskLen	Origin subnet mask length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
SubnetUltizationMark	N/A	Data structure	Members include: • High • Low	N/A
High	Subnet ultization mark high	N/A	Unsigned integer. Value range: 1 to 100. Default:100	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Low	Subnet ultization mark low	N/A	Unsigned integer. Value range: 0 to 99. Default:50	N/A
SubnetGiaddr	N/A	N/A	String, dotted decimal notation.	N/A
UnrTag	The tag value of user network route	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
TftpServerDomainName	Tftp server domain name	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
TftpServerIp	Tftp server ip address	N/A	String, dotted decimal notation.	N/A
AllocateNewIp	Whether the function of allocate new ip is specified.	N/A	Boolean: • **true** • **false**	N/A
ExhaustionLogEnable	Whether IP pool exhaustion logging is enabled	N/A	Boolean: • **true** • **false**	N/A
ExhaustionTrapEnable	Whether the SNMP notification about IP pool exhaustion is enabled	N/A	Boolean: • **true** • **false**	N/A
RouteLogEnable	Whether IP pool route logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInuseThreshold	The warning rate of used ip in dhcp	N/A	Unsigned integer. Value range: 0 to 100.	N/A
IpSubnetInuseThreshold	Subnet usage threshold for the IP address pool, in percentage	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NextServer	The next provided server ip address	N/A	String, dotted decimal notation.	N/A
ReserveExpiredIp	N/A	Data structure	Members include: • Enable • Mode • Limit • Time	N/A
Enable	Whether the function of reserve expired ip is specified.	N/A	Boolean: • **True** • **False**	N/A
Mode	The mode of reserve expired ip	N/A	Enumeration: • **Client-id**. • **m**ac	N/A
Limit	The limit number of reserve expired ip	N/A	Unsigned integer. Value range: 1 to 256000.	N/A
Time	The time of reserve expired ip	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
DhcpRelaySwitch	N/A	Data structure	Members include: • NakCount • ServerTimeOut • MasterServerSwitchDelay • RemoteServerAlgorithm	N/A
NakCount	The max number of DHCP-NAK	N/A	Unsigned integer. Value range: 0 to 255.	N/A
GatewayOnly	Modify the giaddr value only	N/A	Boolean: • **true** **false**	N/A
ServerTimeOut	DHCP reply time	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			65535.	
MasterServerSwitchDelay	The time of master server switch delay	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteServerAlgorithm	N/A	N/A	Enumeration: • Master-backup. • polling	N/A
BimsServer	N/A	Data structure	Members include: • Ip • Port • SharekeyType • Password	N/A
Ip	bimsserver ip address	N/A	String, dotted decimal notation.	N/A
Port	Port number	N/A	Unsigned integer. Value range: 1 to 65534	N/A
SharekeyType	N/A	N/A	Enumeration: • cipher. • Simple.	N/A
Password	N/A	N/A	String, case sensitive. Length: 1 to 16（simple）or 1 to 53(cipher) characters.	N/A
Bootfile	N/A	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
DhcpServerSource	N/A	Data structure	Members include: • SourceType • IpAdress • nterface	N/A
SourceType	N/A	N/A	Members include: • IpAddress • Gateway	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Interface	
IpAddress	N/A	N/A	String, dotted decimal notation.	N/A
Interface	N/A	N/A	Members include: • GigabitEthernet <2-2> • M-GigabitEthernet Interface<0-0> • Serial<2-2> • Vlan-interface<1-1>	N/A
LeaseAllowHint	Whether the function of expired allow-hint is specified.	N/A	Boolean: • **True** • False	N/A
VerifyClass	Whether the function of Verify class is specified.	N/A	Boolean: • **True** • **False**	N/A
VoiceConfig	N/A	Data structure	Members include: • AsIp • FailOverIp • FailOverDialerString • VoiceVlanId • VoiceVlanEnable NcpIp	N/A
AsIp	N/A	N/A	String, dotted decimal notation.	N/A
FailOverIp	N/A	N/A	String, dotted decimal notation.	N/A
FailOverDialerString	N/A	N/A	String, case sensitive. Length: 1 to 39 (0-9, *)characters.	N/A
VoiceVlanID	N/A	N/A	Unsigned integer. Value range: 2 to 4094	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VoiceVlanEnable	Whether the function of VoiceVlanID is specified.	N/A	Boolean: • **True** • **False(**	N/A
NcpIp	N/A	N/A	String, dotted decimal notation.	N/A
VsrpInstance	N/A	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
ClassRanges	N/A	Data structure	Members include: • Class • StartIp • EndIP	SubTable
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
StartIp	Start ip of range	N/A	String, dotted decimal notation.	N/A
EndIp	End ip of range	N/A	String, dotted decimal notation.	N/A
ClassLeaseTime	IP address lease duration for the DHCP user class in seconds	N/A	Unsigned integer. Value range: 30 to 31622399.	N/A
ClassLeaseUnlimit	Whether to set the IP address lease duration unlimited.	N/A	Boolean: • **true** • **false** (default)	You cannot configure ClassLeaseUnlimit together with ClassLeaseTime .
ClassLeaseAllowHint	Whether to allow the DHCP server to use the DHCP client-suggested lease duration	N/A	Boolean: • **true** • **false** (default)	To configure ClassLeaseAllowHint, configure ClassLeaseTime or ClassLeaseUnlimit first.
ClassOptionGrou	N/A	Data	Members include:	SubTable

Column name	Column description	Column type	Data type and restrictions	Remarks
ps		structure	• Class • OptionGroup	
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
OptionGroup	Group number	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteServers	N/A	Data structure	Members include: • Ip • VRF • Public	SubTable
Ip	N/A	Index	String, dotted decimal notation.	N/A
VRF	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
Public	Whether the function of remote-server public is specified.	N/A	Boolean: • **True** • **False**	N/A
ValidClasses	N/A	Data structure	Members include: Class	SubTable
Class	N/A	Index	String, case sensitive. Length: 1 to 63 characters.	N/A
Networks	N/A	Data structure	Members include: • NetworkAddress • Gateway-list • NetworkSecMask • NetworkSecPriority • NetworkSecExportRoute • NetworkSecPrefer	SubTable

Column name	Column description	Column type	Data type and restrictions	Remarks
			ence • NetworkSecTag • GatewayLists	
Network	Specify a network for the pool	Sublist	N/A	N/A
NetworkAddress	N/A	Index	String, dotted decimal notation.	N/A
Gateway-list	N/A	N/A	String, dotted decimal notation.	N/A
NetworkSecMask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	NetworkSecMask
NetworkSecPriority	Sets a Priority value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 65535.	NetworkSecPriority
NetworkSecExportRoute	Whether to advertise the subnet route	N/A	Boolean: • **true** **false**	NetworkSecExportRoute
NetworkSecPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255.	NetworkSecPreference
NetworkSecTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295.	NetworkSecTag
GatewayLists	N/A	Data structure	Members include: Gateway	GatewayLists
GatewayList	Specify gateways	Sublist	N/A	GatewayList
Gateway	Gateway addresses	Index	String, dotted decimal notation.	Gateway
Bindings	N/A	Data structure	Members include: • UpIfName • BindingUpId BindingUpBackupProfil	Bindings

Column name	Column description	Column type	Data type and restrictions	Remarks
			e	
Binding	Bind an IPv4 address pool to a UP device	Sublist	N/A	Binding
UpIfName	Interface name.	N/A	String, case sensitive. Length: 1 to 48 characters.	UpIfName
BindingUpId	Bind the pool to a up-ID	N/A	Unsigned integer. Value range: 1024 to Product customization maximum	BindingUpId
BindingUpBackupProfile	Backup group to which IP address pool belongs	N/A	Unsigned integer. Value range: 1 to 16384.	BindingUpBackupProfile
BindingMasterUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingBackupUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingRouteRefresh	Enable the CP to issue the updated subnet route to UPs after a master-backup switchover in warm backup mode	N/A	Boolean: • **True** • **false** (default)	It must be configured together with BindingUpBackupProfile
ForbiddenIpsInPool	List of ForbiddenIpInPool	Sublist	N/A	ForbiddenIpsInPool
ForbiddenIpInPool	A space-separated list of up to eight excluded IP	Sublist	N/A	ForbiddenIpInPool

Column name	Column description	Column type	Data type and restrictions	Remarks
	addresses.			
SingleForbiddenIpv4Address	Less than eight excluded IP addresses.	N/A	String, dotted decimal notation.	SingleForbiddenIpv4Address
GatewayOfBasPool	Gateway addresses of bas local or bas remote address pool	N/A	String, dotted decimal notation.	GatewayOfBasPool
GatewayMaskOfBasPool	Mask of the gateway address of bas local or bas remote address pool	N/A	String, dotted decimal notation.	GatewayMaskOfBasPool
SubnetForceRenew	Renew information about the subnets allocated to ODAP clients	N/A	Boolean: • **true** • **false**	This column is obsolete. To renew the subnets allocated to ODAP clients, use the SubnetForceRenew column in the DHCPServerForceRenewSubNet table, as described in the DHCP NETCONF XML API action reference document.
ReserveGroupName	UP backup group bound to the IP address pool	N/A	String, dotted decimal notation.	Configure this object to assign reserved IP users to the specified UP backup group.
NetworkSecMask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	NetworkSecMask
NetworkSecPriority	Sets a Priority value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 65535.	NetworkSecPriority

Column name	Column description	Column type	Data type and restrictions	Remarks
NetworkSecExportRoute	Whether to advertise the subnet route	N/A	Boolean: • **true** **false**	NetworkSecExportRoute
NetworkSecPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255.	NetworkSecPreference
NetworkSecTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295.	NetworkSecTag
GatewayLists	N/A	Data structure	Members include: Gateway	GatewayLists
GatewayList	Specify gateways	Sublist	N/A	GatewayList
Gateway	Gateway addresses	Index	String, dotted decimal notation.	Gateway
Bindings	N/A	Data structure	Members include: • UpIfName • BindingUpId BindingUpBackupProfile	Bindings
Binding	Bind an IPv4 address pool to a UP device	Sublist	N/A	Binding
UpIfName	Interface name.	N/A	String, case sensitive. Length: 1 to 48 characters.	UpIfName
BindingUpId	Bind the pool to a up-ID	N/A	Unsigned integer. Value range: 1024 to Product customization maximum	BindingUpId
BindingUpBackupProfile	Backup group to which IP address pool belongs	N/A	Unsigned integer. Value range: 1 to 16384.	BindingUpBackupProfile
ForbiddenIpsInPo	List of	Sublist	N/A	ForbiddenIpsInPool

Column name	Column description	Column type	Data type and restrictions	Remarks
ol	ForbiddenIpInPool			
ForbiddenIpInPool	A space-separated list of up to eight excluded IP addresses.	Sublist	N/A	ForbiddenIpInPool
SingleForbiddenIpv4Address	Less than eight excluded IP addresses.	N/A	String, dotted decimal notation.	SingleForbiddenIpv4Address
GatewayOfBasPool	Gateway addresses of bas local or bas remote address pool	N/A	String, dotted decimal notation.	GatewayOfBasPool
GatewayMaskOfBasPool	Mask of the gateway address of bas local or bas remote address pool	N/A	String, dotted decimal notation.	GatewayMaskOfBasPool
SubnetForceRenew	Renew the information about subnets allocated to ODAP clients	N/A	Boolean: • **true** **false**	SubnetForceRenew
StartIpv4Network	Start IP address of the IP network range in a DHCP nat-central address pool	N/A	String, dotted decimal notation.	The specified network range cannot overlap with the networks or network ranges specified for any pools in the same network namespace (the public network or VPN instance). If you specify StartIpv4Network, you must also specify EndIpv4Network. You can specify a start IP address only in the

Column name	Column description	Column type	Data type and restrictions	Remarks
				NAT-central IP address pool.
EndIpv4Network	End IP address of the IP network range in a DHCP nat-central address pool	N/A	String, dotted decimal notation.	If you specify StartIpv4Network, you must also specify EndIpv4Network. You can specify an end IP address only in the NAT-central IP address pool.
IpPoolLock	IP pool lock state	N/A	Unsigned integer. Enumeration: • **0**—The IP pool is not locked and can be used for IP assignment and lease renewal. This is the default setting. • **1**—The IP pool is locked in loose mode. • **2**—The IP pool is locked in strict mode.	If an IP pool is locked in loose mode, the DHCP server cannot use it for IP address assignment, but it can still renew leases for clients that have been assigned IP addresses from that pool. Lock an IP pool in strict mode to prevent it from being used for assignment of new IP addresses or lease renewal.

DHCP/DHCPServerPoolStatic

This table contains static binding information of DHCP server IP pool.

XML structure

```
<DHCP>
  <DHCPServerPoolStatic>
    <IpPoolStatic>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <CID></CID>
```

```
      <HAddress></HAddress>
      <HType></HType>
      <Description></Description>
    </IpPoolStatic>
  </DHCPServerPoolStatic>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatic
Table type	Multi-instance table
Row name	IpPoolStatic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
Ipv4Address	IP address of the static binding	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IP address mask of the static binding	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
CID	Client ID of the static binding	N/A	String, case insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example,

Column name	Column description	Column type	Data type and restrictions	Remarks
				aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HAddress	Client hardware address of the static binding	N/A	String, case insensitive. Length: 4 to 39 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address type	N/A	Enumeration: • **1**—Ethernet. • **2**—TokenRing.	N/A
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DHCP/DHCPServerIpInUse

This table contains binding information about assigned IP addresses.

XML structure

```
<DHCP>
  <DHCPServerIpInUse>
    <IpInUse>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <CID></CID>
      <HAddress></HAddress>
```

```
      <HType></HType>
      <VLANID></VLANID>
      <EndLease></EndLease>
      <Type></Type>
      <IfIndex></IfIndex>
      <Giaddr></Giaddr>
    </IpInUse>
  </DHCPServerIpInUse>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpInUse
Table type	Multi-instance table
Row name	IpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	N/A
Ipv4Address	IP address allocated to client	N/A	String, dotted decimal notation.	N/A
CID	Client ID of the static binding	N/A	String, case-insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HAddress	Client hardware address of the static binding	N/A	String, case-insensitive. Length: 4 to 39 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H…. The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address of the static binding	N/A	Enumeration: • **1**—ethernet. • **2**—tokenRing.	ethernet:the client hardware address type is Ethernet. tokenRing: the client hardware address type as token ring.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
EndLease		N/A	String, case-insensitive. Length: 1 to 19 characters.	Format: month/day/year hour:minute:second (MM/DD/YYYY hh:mm:ss)
Type		N/A	Enumeration: 1—staticUnallocated.	staticUnallocated: A free static binding

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—staticOffered. 3—staticCommitted. 4—autoOffered. 5—autoCommitted.	whose IP address has not been assigned. staticOffered: An offered static binding whose IP address has been selected and sent by the DHCP server in a DHCP-OFFER packet to the client. staticCommitted: A committed static binding whose IP address has been assigned to the DHCP client. autoOffered: An offered temporary dynamic binding whose IP address has been dynamically selected by the DHCP server and sent in a DHCP-OFFER packet to the DHCP client. autoCommitted: A committed dynamic binding whose IP address has been dynamically assigned to the DHCP client.
IfIndex	Interface index		Unsigned integer.	N/A
Giaddr	IP address of the relay agent	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPConfig

This table contains DHCP server and DHCP relay configuration information.

XML structure

```
<DHCP>
  <DHCPConfig>
    <DHCPEnable></DHCPEnable>
    <ServerConfig>
      <AlwaysBroadcast></AlwaysBroadcast>
      <IgnoreBOOTP></IgnoreBOOTP>
      <BOOTPReplyRFC1048></BOOTPReplyRFC1048>
      <Opt82Enabled></Opt82Enabled>
      <PingNumber></PingNumber>
      <PingTimeout></PingTimeout>
      <ApplyPolicy></ApplyPolicy>
      <AuthorizedIpConflictIgnore></AuthorizedIpConflictIgnore>
      <AllocatedIpThreshold></AllocatedIpThreshold>
      <TrapAddressExhaust></TrapAddressExhaust>
      <TrapAllocIp></TrapAllocIp>
      <TrapIpInUse></TrapIpInUse>
      <MultiIpPerMacEnable></MultiIpPerMacEnable>
      <ReplyExcludeOpt60></ReplyExcludeOpt60>
      <DynamicPoolTag></DynamicPoolTag>
      <FramedIpAddressTag></FramedIpAddressTag>
      <FramedIpNetmaskTag></FramedIpNetmaskTag>
      <FramedRouteTag></FramedRouteTag>
      <LocalPoolTag></LocalPoolTag>
      <RemotePoolTag></RemotePoolTag>
    </ServerConfig>
    <RelayConfig>
      <UserInfoRecord></UserInfoRecord>
      <UserInfoRefresh></UserInfoRefresh>
      <UserInfoFlushTime></UserInfoFlushTime>
      <AlwaysUnicast></AlwaysUnicast>
      <CheckMacAddressAgingTime></CheckMacAddressAgingTime>
      <SmartRelayEnable></SmartRelayEnable>
    </RelayConfig>
    <FloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </FloodProtectionThreshold>
    <FloodProtectionAgeTime></FloodProtectionAgeTime>
    <LogEnable></LogEnable>
    <ConflictIpOffline></ConflictIpOffline>
    <RouteLogGlobalEnable></RouteLogGlobalEnable>
    <Dscp></Dscp>
    <IfFloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
```

```
    </IfFloodProtectionThreshold>
    <IfFloodProtectionAgeTime></IfFloodProtectionAgeTime>
    <ServerDatabase>
      <FileName></FileName>
      <Url></Url>
      <UserName></UserName>
      <PasswordType></PasswordType>
      <Password></Password>
      <UpdateInterval><UpdateInterval>
    </ServerDatabase>
    <RequestIpAddressCheck></RequestIpAddressCheck>
     <DiscoverOffline></DiscoverOffline>
     <RebootRequestOffline></RebootRequestOffline>
     <DHCPRateLimit></DHCPRateLimit>
  </DHCPConfig>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPEnable	Whether the function of DHCP is enabled.	N/A	Boolean: • **true** • **false**	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: • AlwaysBroadcast Alert • IgnoreBOOTP • BOOTPReplyRFC1048 • Opt82Enabled	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• PingNumber • PingTimeout • AuthorizedIpConflictIgnore • AllocatedIpThreshold • TrapAddressExhaust • TrapAllocIp • TrapIpInUse • MultiIpPerMacEnable • ReplyExcludeOpt60 • DynamicPoolTag (not supported) • FramedIpAddressTag • FramedIpNetmaskTag • FramedRouteTag • LocalPoolTag • RemotePoolTag	
AlwaysBroadcast	Whether Enable the DHCP server to broadcast all responses or not.	N/A	Boolean: • **true** • **false**	N/A
IgnoreBOOTP	Whether Ignore BOOTP requests or not.	N/A	Boolean: • **true** • **false**	N/A
BOOTPReplyRFC1048	Whether enable the DHCP server to send BOOTP responses in RFC 1048 format when it receives RFC 1048-incompliant BOOTP requests for	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	statically bound addresses or not.			
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: • **true** • **false**	N/A
PingNumber	Maximum number of ping packets	N/A	Unsigned integer. Value range: 0 to 10.	To disable the address conflict detection, set the value to 0.
PingTimeout	Ping response timeout time on the DHCP server	N/A	Unsigned integer. Value range: 0 to 10000 milliseconds.	To disable the ping operation for address conflict detection, set the value to 0 milliseconds.
Applypolicy	Apply a DHCP policy	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
AuthorizedIpConflictIgnore	Whether to ignore authorized IP address conflicts.	N/A	Boolean: • **true** • **false**	N/A
AllocatedIpThreshold	IP address allocation success rate threshold.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
TrapAddressExhaust	Whether to enable SNMP notifications for	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IP pool exhaustion or recovery.		• **false**	
TrapAllocIp	Whether to enable SNMP notifications for IP address allocation success rate threshold violation.	N/A	Boolean: • **true** • **false**	N/A
TrapIpInUse	Whether to enable SNMP notifications for IP pool usage threshold violation and recovery.	N/A	Boolean: • **true** • **false**	N/A
MultiIpPerMacEnable	Whether to enable allocation of different IP addresses to DHCP clients with the same MAC address.	N/A	Boolean: • **true** • **false**	N/A
ReplyExcludeOpt60	Whether to disable the DHCP server from encapsulating Option 60 in DHCP replies.	N/A	Boolean: • **true** • **false**	N/A
DynamicPoolTag	UNR tag value for IP pools that support dynamic subnet allocation.	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column is not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
FramedIpAddressTag	UNR tag value for host routes generated based on the Framed-IP-Address attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
FramedIpNetmaskTag	UNR tag value for network routes generated based on the Framed-IP-Netmask attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
FramedRouteTag	UNR tag value for network routes generated based on the Framed-Routing attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalPoolTag	UNR tag value for local BAS IP pools.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
RemotePoolTag	UNR tag value for remote BAS IP pools.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
RelayConfig	The configuration of DHCP relay	Data structure	Members include: • UserInfoRecord • UserInfoRefresh	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• UserInfoFlushTime • AlwaysUnicast • CheckMacAddressAgingTime • SmartRelayEnable	
UserInfoRecord	Whether the function of recording client information in relay entries is enabled.	N/A	Boolean: • **true** • **false**	N/A
UserInfoRefresh	Whether enable the relay agent to periodically refresh dynamic relay entries or not.	N/A	Boolean: • **true** • **false**	N/A
UserInfoFlushTime	Interval at which the DHCP relay agent periodically refreshes relay entries	N/A	Unsigned integer. Value range: 0 to 120 seconds.	To automatically calculate the refresh interval, set the value to 0 seconds.
FloodProtectionThreshold	Threshold of DHCP flood protection.	Data structure	Members include: • NumberOfPackets • DetectionTime.	N/A
NumberOfPackets	Number of DHCP packets allowed to be received within detection time and not judged as an attack.	N/A	Unsigned integer. Value range: 2 to 200.	N/A
DetectionTime	Detection time in milliseconds.	N/A	Unsigned integer. Value range: 1000 to 10000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FloodProtectionAgeTime	Aging of DHCP flood protection entries.	N/A	Unsigned integer. Value range: 30 to 600.	N/A
LogEnable	Whether the function of DHCP logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
AlwaysUnicast	Whether to enable the DHCP relay agent to always unicast relayed DHCP response.	N/A	Boolean: • **true** • **false**	N/A
CheckMacAddressAgingTime	Aging time for MAC address check entries on the DHCP relay agent.	N/A	Unsigned integer. Value range: 30 to 600 seconds.	N/A
SmartRelayEnable	Whether to enable the DHCP smart relay feature.	N/A	Boolean: • **true** • **false**	N/A
ConflictIpOffline	Whether to enable the IP conflicting user offline feature.	N/A	Boolean: • **true** • **false**	N/A
RouteLogGlobalEnable	Whether the function of DHCP route logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
Dscp	DSCP value for DHCP packets.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfFloodProtectionThreshold	DHCP packet rate threshold that triggers DHCP flood attack protection.	Data structure	Members include: • NumberOfPackets • DetectionTime	N/A
NumberOfPackets	Maximum number of DHCP packets received on an interface.	N/A	Unsigned integer. Value range: 2 to 6000.	N/A
DetectionTime	Interface-based DHCP attack detection duration.	N/A	Unsigned integer. Value range: 1000 to 10000 milliseconds.	N/A
IfFloodProtectionAgeTime	Aging time of interface-based DHCP attack suppression entries.	N/A	Unsigned integer. Value range: 30 to 600 seconds.	N/A
ServerDatabase	Configuration of the DHCP server database.	Data structure	Members include: • FileName • Url • UserName • PasswordType • Password • UpdateInterval	N/A
FileName	Name of the DHCP binding backup file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Url	URL of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserName	UserName of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordType	PasswordType of the remote backup file.	N/A	String, case-insensitive. Length: 6 characters.	Cipher or simple
Password	Password of the remote backup file.	N/A	String, case-insensitive. Length: 1 to 73 characters in ciphertext, and 1 to 32 characters in plaintext.	N/A
UpdateInterval	Waiting time for the DHCP server to update the backup file after a DHCP binding change.	N/A	Unsigned integer. Value range: 60 to 864000 seconds.	N/A
RequestIpAddressCheck	Enabling status of the request-ip-address check function for DHCP server.	N/A	Boolean: • **true** • **false**	N/A
DiscoverOffline	Whether the DHCP server releases the IP address lease previously assigned to a client when it receives a DHCP DISCOVER message from that client.	N/A	Boolean: • **true**—The server releases the IP address lease and does not respond to the request. • **false** The server responds with the IP address in the lease.	N/A
RebootRequestOffline	Whether the DHCP server releases the IP address lease previously	N/A	Boolean: • **true** The server releases the IP address lease and does not respond to the request. • **false**—The server responds	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	assigned to a client when it receives a DHCP REQUEST message sent by the client upon a reboot		with the IP address in the lease.	
DHCPRateLimit	Set a limit on the receiving rate of DHCP packets from users	N/A	Unsigned integer. Value range: 1 to 500000000.	With this feature enabled, the device will drop DHCP packets that exceed the limit.

DHCP/DHCPIfMode

This table contains DHCP interface mode information.

XML structure

```
<DHCP>
  <DHCPIfMode>
    <IfMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <Option60></Option60>
      <ClientDetect></ClientDetect>
      <FloodProtectionEnable></FloodProtectionEnable>
      <SessionMismatchAction></SessionMismatchAction>
      <ApplyIpPool></ApplyIpPool>
    </IfMode>
  </DHCPIfMode>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfMode
Table type	Multi-instance table
Row name	IfMode
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Mode	DHCP mode	N/A	Enumeration: • **0**—None. • **1**—Server. • **2**—Relay. • **3**—RelayProxy.	N/A
Option60	Used to configure DHCP relay to add option 60 in DHCP request message	N/A	String. Length: 1 to 128.	N/A
ClientDetect	Enable the offline detection function of DHCP relay user.	N/A	Boolean: • **true** • **false**	N/A
FloodProtectionEnable	Enalbing status of DHCP flood protection	N/A	Boolean: • **true** • **false**	N/A
SessionMismatchAction	Configure the processing method of DHCP request sent by	N/A	Enumeration: • **0**—Invalid • **1**—Roam • **2**—Fastrenew	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	online users whose physical location changes and MAC address remains unchanged by DHCP device.		• **3**—All	
ApplyIpPool	Specifies the name of the IP pool to apply to the interface	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP/DHCPRelaySrvIPv4Address

This table contains DHCP servers on the DHCP relay agent information.

XML structure

```
<DHCP>
  <DHCPRelaySrvIPv4Address>
    <RelaySrvIPv4>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Public></Public>
      <VpnInstanceName></VpnInstanceName>
    </RelaySrvIPv4>
  </DHCPRelaySrvIPv4Address>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrvIPv4Address
Table type	Multi-instance table
Row name	RelaySrvIPv4
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A
Public	DHCP servers belonging to the public network	Index	Boolean: • **true** • **false**	N/A
VpnInstanceName	DHCP servers belonging to a VRF	Index	String. Length: 1 to 31.	N/A

DHCP/DHCPRelayUserInfo

This table contains DHCP relay entries information.

XML structure

```
<DHCP>
  <DHCPRelayUserInfo>
    <RelayUserInfo>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <IfIndex></IfIndex>
    </RelayUserInfo>
  </DHCPRelayUserInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayUserInfo
Table type	Multi-instance table

Row name	RelayUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	0 means public network.
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IfIndex	Interface Index	N/A	Unsigned integer.	0 means no interface information.

DHCP/DHCPServerPoolOption

This table contains DHCP server IP pool options information.

XML structure

```
<DHCP>
  <DHCPServerPoolOption>
    <IpPoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueIpAddresses></OptionValueIpAddresses>
    </IpPoolOption>
  </DHCPServerPoolOption>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolOption
Table type	Multi-instance table
Row name	IpPoolOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
OptionCode	Number of the customized option	Index	Unsigned integer. Value range: 2 to 254.	Excluding 50 through 54, 56, 58, 59, 61, and 82.
OptionValueHex	Hex string as the option content	N/A	String, case insensitive. Length: 2 to 256 characters.	Hex string of even numbers from 2 to 256 as the option content.
OptionValueAscii	ASCII string as the option content	N/A	String, case sensitive. Length: 1 to 255 characters.	N/A
OptionValueIpAddresses	IP addresses as the option content	N/A	String, case insensitive. Length: 1 to 127 characters.	Separated by space if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.

DHCP/DHCPServerPoolStatistics

This table contains DHCP server pool statistics information.

XML structure

```
<DHCP>
 <DHCPServerPoolStatistics>
  <IpPoolStatistics>
    <PoolName></PoolName>
    <UsedIpNumber></UsedIpNumber>
    <ExpiredIpNumber></ExpiredIpNumber>
    <TotalIpNumber></TotalIpNumber>
     <DynamicUsedIpNumber></DynamicUsedIpNumber>
     <StaticUsedIpNumber></StaticUsedIpNumber>
     <ConflictIpNumber></ConflictIpNumber>
     <ReserveIpNumber></ReserveIpNumber>
     <FreeIpNumber></FreeIpNumber>
     <IpUsage></IpUsage>
     <IpUsageMax></IpUsageMax>
     <IpUsageMaxTime></IpUsageMaxTime>
   </IpPoolStatistics>
  </DHCPServerPoolStatistics>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatistics
Table type	Multi-instance table
Row name	IpPoolStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	DHCP pool name	Index	String.	N/A
UsedIpNumber	Number of used IP addresses in the address pool	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ExpiredIpNumber	Number of expired IP address leases in the address pool	N/A	Unsigned integer.	N/A
TotalIpNumber	Total number of IP addresses in the address pool	N/A	Unsigned integer.	N/A
DynamicUsedIpNumber	Number of used dynamic IP addresses in the address pool	N/A	Unsigned integer.	N/A
StaticUsedIpNumber	Number of used static IP addresses in the address pool	N/A	Unsigned integer.	N/A
ConflictIpNumber	Number of conflicting IP addresses in the address pool	N/A	Unsigned integer.	N/A
ReserveIpNumber	Number of reserved IP addresses in the address pool	N/A	Unsigned integer.	N/A
FreeIpNumber	Number of free IP addresses in the address pool	N/A	Unsigned integer.	N/A
IpUsage	Address usage of the address pool	N/A	Unsigned integer.	N/A
IpUsageMax	Peak address usage of the address pool	N/A	Unsigned integer.	N/A
IpUsageMaxTime	Date and time when the address usage of the address pool reached the peak	N/A	String.	N/A

DHCP/DHCPRelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <SourceIfIndex></SourceIfIndex>
      <DefaultGiaddr></DefaultGiaddr>
      <Gateway></Gateway>
      <RelayInterface></RelayInterface>
    </RelaySrcAddr>
  </DHCPRelaySourceAddress>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv4Address	Source IP address of the DHCP requests forwarded by the DHCP relay agent on the interface	N/A	String, dotted decimal notation.	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.
SourceIfIndex	Index of the source interface for the DHCP requests forwarded by the DHCP relay agent on the interface	N/A	Unsigned integer.	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.If you specify a source interface, its IP address is used as the source IP address of the DHCP requests forwarded by the relay agent. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
DefaultGiaddr	Disables the relay agent from setting the specified source IP address in the Giaddr field when it forwards	N/A	Boolean: • **true**—The relay agent does not replace the gateway address in the Giaddr field	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DHCP requests		with the specified source IP address (if any). • **false**—The relay agent sets the specified source address (if any) in the Giaddr field when it forwards DHCP requests.	
Gateway	Gateway of interface	N/A	Boolean: • **true** • **false** (default)	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.
RelayInterface	Interface that enable relay	N/A	Boolean: • **true** • **false** (default)	Ipv4Address , SourceIfIndex, Gatway and RelayInterface can not be set at the same time.

DHCP/DHCPRelayInfoEnable

This table contains information about whether the DHCP relay agent support Option 82.

XML structure

```
<DHCP>
  <DHCPRelayInfoEnable>
    <RelayInfoEnable>
      <IfIndex></IfIndex>
      <InfoEnable></InfoEnable>
      <Strategy></Strategy>
      <RemoteId>
        <Type></Type>
        <Format></Format>
        <String></String>
      </RemoteId>
      <CircuitId>
        <CircuitIdType></CircuitIdType>
```

```
        <WithVxlan></WithVxlan>
        <SubInterfaceVlan></SubInterfaceVlan>
        <Format></Format>
        <String></String>
        <Interface></Interface>
        <NodeIdentifierType></NodeIdentifierType>
        <UserDefined></UserDefined>
        <SysnameVlan></SysnameVlan>
      </CircuitId>
      <LinkSelectionAddr></LinkSelectionAddr>
    </RelayInfoEnable>
  </DHCPRelayInfoEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfoEnable
Table type	Multi-instance table
Row name	RelayInfoEnable
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
InfoEnable	Whether the DHCP relay agent supports Option	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	82.		• **false**	
Strategy	Strategy to process Option 82.	N/A	Enumeration: • **0**—replace • **1**—keep • **2**—drop	N/A
RemoteId	Remote ID sub-option configuration.	Data structure	Members include: • Type • Format • String	N/A
Type	Remote ID sub-option type.	N/A	Enumeration: • **0**—normal • **2**—string • **3**—sysname	N/A
Format	Format of the remote ID sub-option.	N/A	Enumeration: • **0**—hex (default) • **1**—ascii	N/A
String	Content of the remote ID sub-option.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
CircuitId	Circuit ID sub-option configuration.	Data structure	Members include: • CircuitIdType • WithVxlan • SubInterfaceVlan • Format • String • Interface • NodeIdentifierType • UserDefined • SysnameVlan	N/A
CircuitIdType	Circuit ID sub-option type.	N/A	Enumeration: • **0**—normal • **1**—verbose • **2**—string • **4**—bas	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—vxlan-port • **6**—srv6-opcode	
WithVxlan	Whether to pad the Circuit ID sub-option with VXLAN ID.	N/A	Boolean: • **true** • **false**	N/A
SubInterfaceVlan	Whether to pad the Circuit ID sub-option with VLAN ID of the L2VE subinterface.	N/A	Boolean: • **true** • **false**	N/A
Format	Format of the circuit ID sub-option.	N/A	Enumeration: • **0**—hex • **1**—ascii	N/A
String	Content of the circuit ID sub-option.	N/A	String, case-sensitive. Length: 3 to 63 characters.	N/A
Interface	Whether to use the interface name as the interface information.	N/A	Boolean: • **true** • **false**	N/A
NodeIdentifierType	Node identifier type.	N/A	Enumeration: • **0**—mac • **1**—sysname • **2**—user-defined	N/A
UserDefined	User-defined string as the node identifier.	N/A	String, case-sensitive. Length: 1 to 50 characters.	The node identifier cannot contain spaces.
SysnameVlan	Whether to pad the Circuit ID sub-option with the inner and outer VLAN information of	N/A	Boolean: • **true** • **false**	This parameter is supported only when the device name (**sysname**) is specified as the node identifier.

Column name	Column description	Column type	Data type and restrictions	Remarks
	request packets.			
LinkSelectionAddr	IP address for sub-option 5 of Option 82	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPServerLeaseInfo

This table contains DHCP server lease information.

XML structure

```
<DHCP>
  <DHCPServerLeaseInfo>
    <LeaseInfo>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <HostName></HostName>
      <Option55></Option55>
    </LeaseInfo>
  </DHCPServerLeaseInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerLeaseInfo
Table type	Multi-instance table
Row name	LeaseInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
Ipv4Address	IP address allocated to client	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
HostName	Host name of the client	N/A	String, case insensitive. Length: 1 to 253 characters.	The length of characters is 0 when a specific client is used.
Option55	Parameter request list	N/A	String, case insensitive. Length: 2 to 510 characters.	The length of characters is 0 when a specific client is used.

DHCP/DHCPServerForbiddenIp

This table contains information about IP addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP>
  <DHCPServerForbiddenIp>
    <ForbiddenIp>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </ForbiddenIp>
  </DHCPServerForbiddenIp>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerForbiddenIp
Table type	Multi-instance table
Row name	ForbiddenIp
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
StartIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	EndIpv4Address cannot be lower than the StartIpv4Address.

DHCP/DHCPServerSubnetInUse

This table contains information about subnet allocation IP addresses.

XML structure

```
<DHCP>
  <DHCPServerSubnetInUse>
    <SubnetInUse>
      <VRF></VRF>
      <NetworkAddress></NetworkAddress>
      <NetworkMask></NetworkMask>
      <SubAllocMode></SubAllocMode>
      <VXLANID></VXLANID>
      <DPAddress></DPAddress>
      <UsedIpNumber></UsedIpNumber>
      <ExpiredIpNumber></ExpiredIpNumber>
      <TotalIpNumber></TotalIpNumber>
      <PoolName></PoolName>
    </SubnetInUse>
  </DHCPServerSubnetInUse>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerSubnetInUse
Table type	Multi-instance table
Row name	SubnetInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	If the lease is on the public network, the length of characters is 0.
Network Address	Subnet Address	Index	String, dotted decimal notation.	N/A
NetworkMask	Subnet Mask	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 30.	
SubAllocMode	Subnet Alloc Mode	N/A	Enumeration: • **0**—vxlanId. • **1**—dp-address.	If the subnet alloc by the vxlanId mode, the DP address cannot be displayed. If the subnet alloc by the dp-address mode, the vxlanId cannot be displayed.
VXLAN ID	VXLAN ID	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
DPAddress	DP Address	N/A	String, dotted decimal notation.	N/A
UsedIpNumber	Number of used IP addresses in subnet.	N/A	Unsigned integer.	N/A
ExpiredIpNumber	Number of expired IP addresses in subnet.	N/A	Unsigned integer.	N/A
TotalIpNumber	Total Number of allocated IP addresses in subnet	N/A	Unsigned integer.	N/A
PoolName	Subnet-alloc Pool Name	N/A	String.	N/A

DHCP/DHCPRelayDiscReqFromTnlEnable

This table contains information about whether the DHCP relay discard request from tunnel.

XML structure

```
<DHCP>
  <DHCPRelayDiscReqFromTnlEnable>
    <RelayDiscardReqFromTnlEnable>
```

```
      <IfIndex></IfIndex>
      <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
    </RelayDiscardReqFromTnlEnable>
  </DHCPRelayDiscReqFromTnlEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayDiscReqFromTnlEnable
Table type	Multi-instance table
Row name	RelayDiscardReqFromTnlEnable
Restrictions	This table supports only interface of VSI type

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
DiscardReqFromTnlEnable	Whether the DHCP relay agent support discard request packet from tunnel .	N/A	Boolean: • **true** • **false**	N/A

DHCP/DHCPRelayMacFowardEnable

This table contains information about whether the DHCP Relay support forward ACK or OFFER packet by Mac Address.

XML structure

```
<DHCP>
  <DHCPRelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
      <MacBroadCast></MacBroadCast>
    </RelayMacForwardEnable>
  </DHCPRelayMacFowardEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayMacFowardEnable
Table type	Multi-instance table
Row name	RelayMacForwardEnable
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacEnable	Whether enable mac forward	N/A	Boolean: • **true** • **false**	If mac forward is enable, DHCP server OFFER or ACK packet will forward via unicast.
MacBroadCast	Whether enable mac broadcast		Boolean: • **true** • **false**	It must configured with MacEnable and Mac Enable must be true.

DHCP/DHCPRelayInfo

This table contains information about the DHCP relay agent option (Option 82).

XML structure

```
<DHCP>
  <DHCPRelayInfo>
    <RelayInfo>
      <IfIndex></IfIndex>
      <CircuitIdMode></CircuitIdMode>
    </RelayInfo>
  </DHCPRelayInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfo
Table type	Multi-instance table
Row name	RelayInfo
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration*

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
CircuitIdMode	Mode of the Circuit ID sub-option in Option 82	N/A	String, case-insensitive. Values include: • **NormalHex** • **NormalAscii** • **VxlanPort**	N/A

DHCP/DHCPVsi

This table contains the VSI configuration informain of DHCP.

XML structure

```
<DHCP>
  <DHCPVsi>
    <Vsi>
      <VsiName></VsiName>
      <FloodProtectionEnable></FloodProtectionEnable>
    </Vsi>
  </DHCPVsi>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPVsi
Table type	Multi-instance table
Row name	RelayInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
FloodProtectionEnable	Enabling status of DHCP flood protection	N/A	Boolean: • **True** • **false**.	N/A

DHCP/DHCPRelayPoolRemoteServer

This table contains information about remote server address.

XML structure

```
<DHCP>
  <DHCPRelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv4Address></RemoteServerIpv4Address>
      <Public></Public>
     <VpnInstanceName></VpnInstanceName>
   </RemoteServer>
  </DHCPRelayPoolRemoteServer>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayPoolRemoteServer
Table type	Multi-instance table
Row name	RemoteServer
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	The specified PoolIndex must already exist.
RemoteServerIpv4Address		Index	String, dotted decimal notation.	N/A
`Public`		N/A	Boolean: • **true** **false**(default)	The server is on the public network，and the pool VRF is not public
`VpnInstanceName`	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	The server is on the VPN network

DHCP/DHCPServerPoolGroup

This table contains information about the DHCP address pool group.

XML structure

```
<DHCP>
  <DHCPServerPoolGroup>
    <PoolGroup>
      <GroupName></GroupName>
      <vpn></vpn>
      <Pools>
        <Pool>
          <PoolName></PoolName>
          <Priority></Priority>
        </Pool>
      </Pools>
       <DiscoverNakCnt></DiscoverNakCnt>
```

```
      <DiscoverNakDuration></DiscoverNakDuration>
     <IpPoolAlgorithmRoundRobinLocal></IpPoolAlgorithmRoundRobinLocal>
     <IpPoolAlgorithmRoundRobinRemote></IpPoolAlgorithmRoundRobinRemote>
     <PoolGroupExhaustionTrapEnable></PoolGroupExhaustionTrapEnable>
     <PoolGroupExhaustionLogEnable></PoolGroupExhaustionLogEnable>
      <IpInUseThreshold></IpInUseThreshold>
    </PoolGroup>
  </DHCPServerPoolGroup>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolGroup
Table type	Multi-instance table, multi-level table
Row name	PoolGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	DHCP address pool group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
vpn	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the DHCP address pool is on the public network, the length of characters is 0.

PoolName	DHCP address pool name	Sublist	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
Priority	DHCP address pool priority	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DiscoverNakCnt	Maximum number of NAK replies that the relay agent can receive from a DHCP server	N/A	Unsigned integer. Value range: 1 to 255.	N/A
DiscoverNakDuration	Waiting time for NAK replies from a DHCP server	N/A	Unsigned integer. Value range: 1 to 180 seconds.	N/A
IpPoolAlgorithmRoundRobinLocal	DHCP pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
IpPoolAlgorithmRoundRobinRemote	DHCP pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
PoolGroupExhaustionTrapEnable	Whether the SNMP notification about IP pool group exhaustion is enabled	N/A	Boolean: • **True** • **false**(default)	N/A
PoolGroupExhaustionLogEnable	Whether IP pool group exhaustion logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInUseThreshold	The warning	N/A	Unsigned integer.	N/A

	rate of used ip in dhcp pool group		Value range: 0 to 100.	

DHCP/DHCPServerPolicy/ClassPolicy

This table contains DHCP server policy information.

XML structure

```
<DHCP>
  <DHCPServerPolicy>
    <ServerPolicy>
      <PolicyName></PolicyName>
      <DefaultIpPool></DefaultIpPool>
      <ClassName></ClassName>
      <IpPoolName></IpPoolName>
      <ClassPolicys>
        <ClassPolicy>
          <Class></Class>
          <IpPool></IpPool>
        </ClassPolicy>
      </ClassPolicys>
    </ServerPolicy>
  </DHCPServerPolicy>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPolicy
Table type	Multi-instance table, multi-level table
Row name	ServerPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DHCP policy name	Index	String, case insensitive. Length: 1 to 63 characters.	Required when create a new row, and the policy name cannot be modified.
DefaultIpPool	Default IP pool name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ClassName	Class name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IpPoolName	Name of the DHCP address pool for the class	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
ClassPolicys	N/A	Data structure	Members include: • Class • IpPool	SubTable
Class	DHCP6 class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpPool	IP pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP/DHCPServerClass

This table contains DHCP server class information.

XML structure

```
<DHCP>
  <DHCPServerClass>
    <ServerClass>
      <ClassName></ClassName>
```

```
      <RuleNumber></RuleNumber>
      <RuleType></RuleType>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueMask></OptionValueMask>
      <OptionOffset></OptionOffset>
      <OptionLen></OptionLen>
      <OptionPartial></OptionPartial>
      <HostId></HostId>
      <HostIdMask></HostIdMask>
      <Giaddr></Giaddr>
    </ServerClass>
  </DHCPServerClass>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClass
Table type	Multi-instance table
Row name	ServerClass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleNumber	Rule number	Index	Unsigned integer. Value range: 1 to 16.	N/A
RuleType	Match mode	Index	Enumeration: • **1**—hardware-address • **2**—option • **3**—relay-agent	N/A

OptionCode	DHCP option code	N/A	Unsigned integer. Value range: 1 to 254.	N/A
OptionValueHex	Specify DHCP option content with the hexadecimal format	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 256 characters.	N/A
OptionValueAscii	Specify DHCP option content with the ASSCII format	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
OptionValueMask	Specify the mask	N/A	String, case-insensitive. Length: 2 to 256 characters.	N/A
OptionOffSet	Specify the offset	N/A	Unsigned integer. Value range: 0 to 254.	N/A
OptionLen	Length of the match criterion	N/A	Unsigned integer. Value range: 1 to 128.	N/A
OptionPartial	Enable partial match	N/A	Boolean: • true. • false	N/A
HostId	Hardware address	N/A	String, case insensitive. Length: 4 to 39 characters.	N/A
HostIdMask	Hardware address mask	N/A	String, case insensitive. Length: 4 to 39 characters.	N/A
Giaddr	IP address	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPIfConfig

This table contains DHCP server and DHCP interface configuration information.

XML structure

```
<DHCP>
  <DHCPIfConfig>
```

```
    <IfConfig>
      <IfIndex></IfIndex>
      <RateLimit></RateLimit>
      <RateSuppressionEnable></RateSuppressionEnable>
      <ApplyPool></ApplyPool>
      <ClientDetec></ClientDetec>
      <ServerConfig>
        <CheckMacAddress></CheckMacAddress>
        <ApplyIpPool></ApplyIpPool>
        <ApplyPolicy></ApplyPolicy>
        <PolicyFirstEnable></PolicyFirstEnable>
      </ServerConfig>
      <RelayConfig>
        <CheckMacAddress></CheckMacAddress>
        <DhcpServerTimeout></DhcpServerTimeout>
        <ForwardReplyByOpt82></ForwardReplyByOpt82>
        <Gateway></Gateway>
       <NonFirstHopEnable></NonFirstHopEnable>
        <MasterServerSwitchDelay></MasterServerSwitchDelay>
        <RemoteServerAlgorithm></RemoteServerAlgorithm>
        <IfReleaseAgent></IfReleaseAgent>
      </RelayConfig>
      <Pools>
        <Pool>
          <PoolName></PoolName>
          <PoolOption></PoolOption>
          <PoolOption60></PoolOption60>
          <PoolOption60String></PoolOption60String>
        </Pool>
      <Pools>
    </IfConfig>
  </DHCPIfConfig>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfConfig
Table type	Multi-instance table, multi-level table
Row name	IfConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
RateLimit	Maximum DHCP packet receiving rate on an interface.	N/A	Unsigned integer. Value range: 1 to 512.	N/A
RateSuppressionEnable	Whether to enable interface-based DHCP attack suppression.	N/A	Boolean: • **true** • **false**	N/A
ApplyPool	DHCP address pool name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
ClientDetec	Enable the user logoff detection function of DHCP server or DHCP relay.	N/A	Boolean: • **true** • **false**	N/A
ServerConfig	Server configuration.	Data structure	Members include: • CheckMacAddress • ApplyIpPool	N/A

			• ApplyPolicy • PolicyFirstEnable	
CheckMacAddress	Whether to enable MAC address check on the DHCP server.	N/A	Boolean: • **true** • **false**	N/A
ApplyIpPool	IP pool applied to an interface.	N/A	String. Length: 1 to 63.	N/A
ApplyPolicy	DHCP policy applied to an interface.	N/A	String. Length: 1 to 63.	N/A
PolicyFirstEnable	Whether to enable policy-first IP pool selection.	N/A	Boolean: • **true** • **false**	N/A
RelayConfig	Relay agent configuration.	Data structure	Members include: • CheckMacAddress • DhcpServerTimeout • ForwardReplyByO-pt82 • Gateway • NonFirstHopEnable	N/A
CheckMacAddress	Whether to enable MAC address check on the DHCP relay agent.	N/A	Boolean: • **true** • **false**	N/A
DhcpServerTimeout	DHCP server response timeout time for DHCP server switchover.	N/A	Unsigned integer. Value range: 1 to 65535..	N/A
ForwardReplyByOpt82	Whether to enable the DHCP relay agent to forward DHCP replies	N/A	Boolean: • **true** • **false**	N/A

	based on Option 82.			
Gateway	DHCP relay agent address to be padded to DHCP requests.	N/A	String, dotted decimal notation.	N/A
NonFirstHopEnable	Whether to enable non-first-hop DHCP relay	N/A	Boolean: • **true** • **false**	For access authentication to take effect, you must enable this feature on the relay agent.
MasterServerSwitchDelay	The time of master server switch delay	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteServerAlgorithm	N/A	N/A	Enumeration: • Master-backup. • polling	N/A
IfReleaseAgent	Send a release message to the DHCP server when you delete a user entry	N/A	Boolean: • **true** (default) • **false**	This column does not take effect unless the device acts as a DHCP relay agent. This column is not supported by common users.
Pools	Used to specify the DHCP relay address pool corresponding to DHCP clients	Child table	N/A	N/A
PoolName	Pool name index	Index	String. Length: 1 to 64.	N/A
PoolOption	No 60 specified for distribution	N/A	Unsigned integer. Value range: 1 to 59 && 61 to 254.	N/A
PoolOption60	Option specified	N/A	Boolean:	N/A

	as 60		• **true** • **false**	
PoolOption60String	Option specifies string followed by 60 for 60 option	N/A	String. Length: 1 to 128.	N/A

DHCP/DHCPServerOptionGroup

This table contains information about the DHCP server option group.

XML structure

```
<DHCP>
  <DHCPServerOptionGroup>
    <ServerOptionGroup>
      <OptionGroup></OptionGroup>
      <OptionCodes>
        <OptionCode>
          <Code></Code>
          <OptionValueHex></OptionValueHex>
          <OptionValueAscii></OptionValueAscii>
          <OptionValueIp></OptionValueIp>
        </OptionCode>
      <OptionCodes>
    </ServerOptionGroup>
  </DHCPServerOptionGroup>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerOptionGroup
Table type	Multi-instance table, multi-level table
Row name	OptionGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionGroup	DHCP option group number.	Index	Unsigned integer. Value range: 1 to 32768.	Required when you create a new row.

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionCodes	N/A	Data structure	Members include: • Code • OptionValueHex • OptionValueAscii • OptionValueIp	SubTable
Code	DHCP option number.	Index	Unsigned integer. Value range: 2 to 254, excluding 50 through 54, 56, 58, 59, 61, and 82.	N/A
OptionValueHex	DHCP option content.	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 256 characters.	N/A
OptionValueAscii	DHCP option content.	N/A	String. Length: 1 to 255 characters.	N/A
OptionValueIp	DHCP option content.	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPRelayServerInfo

This table contains information about the DHCP server information on the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelayServerInfo>
    <RelayServerInfo>
      <ServerIp></ServerIp>
```

```
      <vpn></vpn>
      <DeadCount></DeadCount>
      <DeadTime></DeadTime>
      <NakCount></NakCount>
      <Timeout></Timeout>
    </RelayServerInfo>
  </DHCPRelayServerInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayServerInfo
Table type	Multi-instance table
Row name	RelayServerInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerIp	DHCP server IP address.	Index	String, dotted decimal notation.	N/A
vpn	VRF instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
DeadCount	Maximum number of consecutive communication failures before the relay agent marks a DHCP server as down.	N/A	Unsigned integer. Value range: 1 to 64.	N/A
DeadTime	Time period for the relay agent to wait before communicating	N/A	Unsigned integer. Value range: 1 to 65536.	N/A

	with the DHCP server.			
NakCount	Maximum number of DHCP-NAK packets that the relay agent can receive.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Timeout	Communication failure check timer.	N/A	Unsigned integer. Value range: 1 to 60.	N/A

DHCP/DHCPServerOdapPoolGateway

This table contains information about the DHCP server information on the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPServerOdapPoolGateway>
    <PoolIndex></PoolIndex>
    <Gateway></Gateway>
    <MaskLen></MaskLen>
  </DHCPServerOdapPoolGateway>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerOdapPoolGateway
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 8192.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 cannot be set.
Gateway	Gateway addresses of odap address pool	N/A	String, dotted decimal notation.	N/A
MaskLen	Gateway address mask	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPServerPoolGroupStatistics

This table contains IP pool group statistics on the DHCP server.

XML structure

```
<DHCP>
  <DHCPServerPoolGroupStatistics>
    <IpPoolGroupStatistics>
      <PoolGroupName></PoolGroupName>
      <IncludePoolNum></IncludePoolNum>
      <BoundByDomainNum></BoundByDomainNum>
      <GroupIPUsage></GroupIPUsage>
      <TotalIPNumber></TotalIPNumber>
      <UsedIPNumber></UsedIPNumber>
      <IdleIPNumber></IdleIPNumber>
      <ExpiredIPNumber></ExpiredIPNumber>
      <ExcludeIPNumber></ExcludeIPNumber>
      <ConflictIPNumber></ConflictIPNumber>
```

```
      <DynamicUsedIPNumber></DynamicUsedIPNumber>
      <StaticUsedIPNumber></StaticUsedIPNumber>
      <ReserveIPNumber></ReserveIPNumber>
     </IpPoolGroupStatistics>
   </DHCPServerPoolGroupStatistics>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolGroupStatistics
Table type	Multi-instance table
Row name	IpPoolGroupStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolGroupName	DHCP pool group name	Index	String.	N/A
IncludePoolNum	Number of IP address pools bound to the IP pool group	N/A	Unsigned integer.	N/A
BoundByDomainNum	Number of domains bound to the IP pool group	N/A	Unsigned integer.	N/A
GroupIPUsage	Address usage in the IP pool group	N/A	Unsigned integer.	N/A
TotalIPNumber	Total number of IP addresses in the IP pool group	N/A	Unsigned integer..	N/A
UsedIPNumber	Number of used IP addresses in the IP pool group	N/A	Unsigned integer.	N/A
IdleIPNumber	Number of free IP	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address leases in the IP pool group			
ExpiredIPNumber	Number of expired IP address leases in the IP pool group	N/A	Unsigned integer.	N/A
ExcludeIPNumber	Number of excluded IP address leases in the IP pool group	N/A	Unsigned integer.	N/A
ConflictIPNumber	Number of conflicting IP addresses in the IP pool group	N/A	Unsigned integer.	N/A
DynamicUsedIPNumber	Number of used dynamic IP addresses in the IP pool group	N/A	Unsigned integer.	N/A
StaticUsedIPNumber	Number of used static IP addresses in the IP pool group	N/A	Unsigned integer.	N/A
ReserveIPNumber	Number of reserved IP addresses in the IP pool group	N/A	Unsigned integer.	N/A

Contents

DHCP 1
DHCP/dhcp 1

DHCP

DHCP/dhcp

Message	Explanation
Maximum number of DHCP address pools already reached. DHCP地址池个数超过上限。	Maximum number of DHCP address pools already reached, when created more than 8192 pools before.
Invalid network address. 无效的网段地址。	Invalid network address. Please examine your network address.
Mask length must be in the range of 1 to 30. 掩码长度范围必须为1到30。	The mask length is Invalid.
Invalid start IP address. 无效的起始IP地址。	Invalid start IP address, please check your IP address.
Invalid end IP address. 无效的结束IP地址。	Invalid end IP address, please check your IP address.
The start IP address can’t be greater than the end IP address. 起始IP地址必须小于或等于结束IP地址。	Please make certain that the start IP address is not be greater than the end IP address.
Lease duration can’t be zero. IP地址租约有效期限不能为零。	Invalid Lease duration. Please check your Lease duration.
Failed to set the response timeout time for ping requests. 为IP地址冲突检测指定等待回显响应超时时间失效。	The setting about the response timeout time for ping requests is failed.
Failed to enable DHCP. 开启DHCP功能失败。	DHCP process is not activated.
Invalid IP address. 无效的IP地址。	Invalid IP address. Please check your IP address.
Invalid mask. 无效的掩码。	Invalid mask. Please check your IP address.
Maximum number of statically bound IP address already reached. 静态绑定地址个数超过上限。	Maximum number of statically bound IP address already reached, when the number of statically bound IP address is greater than 8192.
The IP address is bound to another DHCP client. 该IP地址已经被绑定在一台DHCP客户端上。	The IP address is bound to another DHCP client, please try another IP address.
Failed to set the mode. 指定处理模式失败。	The setting about the mode is failed.
Failed to set the address pool name. 指定地址池名称失败。	The setting about the address pool name is failed.
Another address pool is using the name.	The name of address pool is already used.

地址池名称已经存在。	
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
Maximum number of server IP address already reached. 中继服务器IP地址个数超过上限。	Maximum number of server IP address already reached, when the number of server IP address is greater than 8.
The option is not configurable. 该DHCP选项的配置是被禁止的。	The option is not configurable, please check your option.
Invalid client ID. 无效的客户端ID。	Invalid client ID, please check your client ID.
The address pool doesn't exist. 该DHCP地址池不存在。	The address pool doesn't exist, when getting or deleting it
The subnet has already been configured. 该网段的IP地址已经在其他网段配置。	The subnet has already been configured, please try another subnet.
Invalid client hardware address. 无效的客户端硬件地址。	Invalid client hardware address. Please check your client hardware address.
The statically bound IP address should be a unicast address. 该静态绑定IP地址需要是一个单播地址。	Please make certain that the statically bound IP address is a unicast address.
Not used. 未使用。	The lease is not used.
Failed to configure the Option 82. 配置Option82功能失败。	Configuirng Option 82 fails.
Ipv4Address , SourceIfIndex,GateWay and RelayInterface cannot be set at the same time. 指定DHCP中继向DHCP服务器转发报文的源地址，源接口，Gateway和中继接口不能在一次操作中同时配置	Ipv4Address , SourceIfIndex, Gateway and RelayInterface are set at the same time. 用户指定DHCP中继向DHCP服务器转发报文的源地址时，同时下发了源地址，源接口，Gateway和中继接口信息
Failed to enable the DHCP flood protection. 开启DHCP Flood攻击防范功能失败	The DHCP flood protection is not supported. 设备不支持DHCP Flood攻击防范功能
Failed to configure the DHCP flood protection. DHCP Flood攻击防范功能相关配置下发失败	The configuration of the DHCP flood protection fails. DHCP Flood攻击防范功能相关配置失败(比如Flood 表项老化时间、阈值设置等)
Failed to enable DHCP logging. 开启DHCP日志功能失败。	DHCP logging is not enabled.
Failed to set the priority. 设置优先级失败。	The priority setting is supported only for IP address pools that are created on the ODAP server. 当前只有odap-server地址池才可以在地址池组下配置优先级。
Failed to specify the vsrp name. 设置vsrp 名称失败	Failed to specify the vsrp name.
Failed to specify the boot file name. 配置boot 文件名失败	Failed to specify the boot file name.
Failed to set verification function.	Failed to set verification function.

配置认证功能失败	
Remote-Server IP addresses in the DHCP address pool should be different from each other. 配置Remote-Server在DHCP地址池时IP地址应该不相同	Remote-Server IP addresses in the DHCP address pool should be different from each other.
There are IP addresses allocated in the current range. 当前范围分配了IP地址	There are IP addresses allocated in the current range.
Failed to start the service. 服务启动失败。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Configuration of the RemoteId group does not conform to specifications. RemoteId组配置不符合规定。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Configuration of the CircuitId group does not conform to specifications. CircuitId组配置不符合规定。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Not found. 未找到。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Not enough resources. 空间不足。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Configuration already exists. 配置已存在。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Configuration not supported. 配置不支持。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Unknown error. 未知错误。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Conflict with command : IP subscriber roaming enable. 命令错误，IP订阅遗留。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Failed to change configuration because the DHCP server has already allocated IP addresses. 设置失败，DHCP服务器有已分配IP地址。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Failed to specify the aging time for the mac-address. 因mac地址导致设置失败。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Do not include the username and password in the URL string. Use parameters username and password to specify them. 不要包含用户名和密码在URL中。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Invalid filename.	The configuration doesn't meet the requirements, please check your configuration.

非法文件名。	配置不符合要求，请检查您的配置。
The file already exists. 文件已存在。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Failed to save DHCP client information due to lack of storage resources. 由于缺乏存储资源，无法保存DHCP客户端信息。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Failed to specify the database filename. 设置文件名失败。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Failed to specify the update database interval time. 设置更新时间失败。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Invalid hexadecimal string. 不合法的十六进制字符串。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
The configuration of this option is forbidden. 该选项的配置是被禁止的。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
IP addresses should be different from each other. IP地址之间应该不相同。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
The DHCP server IP-address does not exist. DHCP服务器IP地址不存在。	The configuration doesn't meet the requirements, please check your configuration. 配置不符合要求，请检查您的配置。
Invalid hardware address.(aabb-ccdd-eeff…) 无效的硬件地址。(aabb-ccdd-eeff…)	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Invalid mask.(ffff-ffff-0000…) 无效的掩码。(ffff-ffff-0000…)	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
The hardware address length and the mask length must be identical. 硬件地址长度和掩码长度必须相同。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
The configuration of the hardware-address only contains the HostId column and the HostIdMask column. 硬件地址的配置仅包含HostId列和HostIdMask列。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Invalid IP address. 无效的IP地址。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
The configuration of the relay-agent only contains the Giaddr column. 中继代理的配置仅包含Giaddr列。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Invalid hexadecimal string, and the number of strings is even.	The configuration doesn't meet the requirements. Please check your configuration.

无效的十六进制字符串，且字符串的个数为偶数。	配置不符合要求，请检查您的配置。
Invalid mask, the mask should be a hexadecimal string and the number of strings is even. 无效的掩码，掩码应该为十六进制字符串，且字符串的个数为偶数。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Mask length must be equal to length of the hexadecimal string. 掩码长度必须等于十六进制字符串的长度。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Criterion length must be equal to length of the hexadecimal string. 标准长度必须等于十六进制字符串的长度	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
The configuration of the option not include the Giaddr column and the HostId column and the HostIdMask column. 选项的配置不包含Giaddr列和HostId列和HostIdMask列。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Number of rules has reached the upper limit. 规则数已达上限。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
A rule of another type is using the rule number. 另一类型的规则正在使用规则编号。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Rules with different numbers cannot have the same content. 不同编号的规则不能具有相同的内容。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Failed to process this operation. 无法执行此操作。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置。
Please modify the row data and import it again. 请修改该行数据并重新导入。	The file contant is invalid. 文件中的数据不合法。
Cannot find the file. 文件不存在。	The file does not exist. Please check the file name. 文件不存在，请检查文件名。
The file already existed. 文件已存在。	The file already existed. Please specify another file name. 文件名已经存在，请指定另外一个文件名。
Failed to create the file. 创建文件失败。	Creating the file fails. 设备上创建指定文件时失败。
The interface doesn’t exist. 接口不存在	The interface doesn’t exist for the binding. 绑定时接口不存在
Only one of them can be bound. 只可绑定其中一个	Only one of UPID and Interface can be bound to an IP address pool. 地址池下仅可绑定UPID或者接口其中之一
Failed to configure addresses excluded from dynamic allocation. 无法配置从动态分配中排除的地址	Forbidden-ip configuration is not allowed when the network or gateway address is not configured. 未配置network或gateway地址时，不允许配置forbidden-ip
Failed to configure forbidden IP addresses.	Forbidden-ip configuration is not allowed when users are online.

配置forbidden ip地址失败	有用户在线时，不允许配置forbidden-ip
The master-up-id and the backup-up-id cannot be same. 绑定的主UPID和备UPID不能相同	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Please specify the network first. 请先指定network	Network should be configured before gateway is configured in odap address pool. 在ODAP地址池下配置gateway前要先配置network
Failed to configure gateway 配置gateway失败.	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Please remove the gateway first. 请先移除gateway	Remove gateway before remove network in odap address pool. 在ODAP地址池下移除network前要先移除gateway
The request must contain both DiscoverNakCnt and DiscoverNakDuration. Nak-count和nak-duration必须同时下发	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Failed to enable the dhcp discover user offline feature. 开启Discover user offline 功能失败	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Failed to enable the dhcp reboot-request user offline feature. 开启Reboot-request user offline 功能失败	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Please specify a narrower address range to make sure the subnet mask length is in the range of 16 to 32 for the secondary network segments. 划分的从网段掩码范围必须在16到32之间	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Please reconfigure a network range to make sure the maximum number of secondary network segments in the pool does not exceed 96. 拆分的网段过多，和当前地址池下其他network secondary网段数量加起来大于96个的限制	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
A network range has already been assigned to this pool. To assign a new network range, please remove the existing network range first. 请先删除已存在的network range	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Please make sure the network range does not overlap with the network or network range assigned to any one of the other pools. 当前配置的network range已经包含在其他network range或network范围中	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
IP addresses have been allocated from the current network range. You cannot remove the network range from the IP pool. 当前network range范围内已经有分配出去的IP地址	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Failed to set Client Detect.	The configuration doesn't meet the requirements. Please check your configuration.

ClientDetect配置失败。	配置不符合要求，请检查您的配置
The URL for a file on the TFTP server can't include the username or password. 不要为一个TFTP文件的URL指定用户名和密码。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Invalid filename or URL. 无效的本地文件名或URL。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Invalid Cipher.非法的密文。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Failed to configure the Flood Protection. 配置Flood攻击防范功能失败。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Flood Protection is not support. Flood攻击防范功能不支持。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
The VSI instance is not created. VSI实例不存在。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Deleting the RemoteId group configuration only needs to carry the group name. 删除RemoteId组配置只需且只能携带组名。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Deleting the CircuitId group configuration only needs to carry the group name. 删除CircuitId组配置只需且只能携带组名。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
The node identifier can't include any spaces. 节点标识的字符串中不允许出现空格。	The configuration doesn't meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
ClassLeaseTime must be in the range of 30 to 31622399. ClassLeaseTime范围必须为30到31622399。	The ClassLeaseTime is Invalid.
Incorrect user information. 用户上线失败因为用户信息错误	The client cannot go online because its user information in the DISCOVER message does not pass the check by the DHCP server. 服务器收到报文后检查报文信息，当前携带信息未通过检查
No replies from the DHCP server. 服务器没有回应	The client fails to go online because the DHCP server does not respond. 服务器没有回应报文，上线失败
NAK message received. server回复NAK报文	The client cannot go online because the DHCP server sends an NAK message for some reasons. server因为一些原因发送NAK消息，拒绝用户上线
RELEASE or DECLINE message sent. 客户端发送了RELEASE报文或者是DECLINE报文	The client goes offline because it no longer needs an IP address or the IP address assigned to the client is not usable due to some reasons.

	DHCP客户端不再需要使用分配IP地址或因某些原因导致分配的IP地址不能使用。
IP address lease expired. 租约到期	The client goes offline because its lease expires and the IP address becomes invalid. 租约到期IP地址失效用户下线
The DHCP server notified UCM to delete the user entry. Server通知用户下线	The client goes offline because the DHCP server notifies UCM to delete the user entry for that client due to some reasons. 因为某些原因，server主动通知删除user-info信息
No replies from the client. 用户下线因为客户端没有回复报文	The client goes offline because it does not reply the OFFER message. 用户下线因为客户端没有回复报文
UCM notified the DHCP server to delete the user entry. UCM通知用户下线	The client goes offline because UCM notifies the DHCP server to delete the user entry for that client due to some reasons. 因为某些原因，ucm主动通知删除user-info信息
The client requested to come online again during lease renewal. 续约过程中客户端重新上线	The client sends a DISCOVER message before the DHCP server replies to the lease renewal request of the client. 在服务器回复续约请求之前，客户端重新发送DISCOVER
Address conflict. 地址冲突	The client cannot go online because the address assigned by the DHCP server or the address requested by the client is conflicting. 服务器分配的地址或客户端请求的地址存在冲突
Other. 其他原因	The reason for the client online failure needs further analysis. 该失败原因待细分
No replies from UCM. 用户上线失败因为UCM没有回应	The client fails to go online because UCM does not respond. UCM没有回应租约信息，上线失败
The requested or offered IP address is invalid. 请求或回复的IP地址无效	The client cannot go online because the IP address requested by the client or returned by the DHCP server is invalid. 客户端请求或服务器回复的IP地址无效
Failed to enable DHCP route logging. 开启DHCP路由日志功能失败。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Failed to disable DHCP. 关闭DHCP功能失败。	The DHCP process can not be inactivated. DHCP进程不允许被关闭

Contents

DHCP event stream 1
DHCP instance status event 1
XML structure for event subscription 1
XML structure for event report 1
DHCP user information event 2
XML structure for event subscription 2
XML structure for event report 3
DHCP pool statistics event 4
XML structure for event subscription 4
XML structure for event report 4
DHCP user protocol event 5
XML structure for event subscription 5
XML structure for event report 6

DHCP event stream

DHCP event stream description.

DHCP instance status event

This event is used to report status of the DHCP instance.

XML structure for event subscription

```
<InstanceStatus>
</InstanceStatus>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCP</stream>
    <filter type="subtree">
      <InstanceStatus xmlns="http://www.h3c.com/netconf/event:1.0/dhcp:1.0">
      </InstanceStatus>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCP
Event name	InstanceStatus
Event namespace	http://www.h3c.com/netconf/event:1.0/dhcp:1.0
Support for extended query	No

XML structure for event report

```
<InstanceStatus>
  <ProtocolType></ProtocolType>
  <Status></Status>
</InstanceStatus>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
   <eventTime>2019-01-21T10:12:15</eventTime>
   <InstanceStatus xmlns="http://www.h3c.com/netconf/event:1.0/dhcp:1.0">
```

```
    <ProtocolType>1</ProtocolType>
    <Status>Master</Status>
   </InstanceStatus>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
ProtocolType	Protocol type	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
Status	Instance status	String: • Master • Backup • Down	N/A

DHCP user information event

This event is used to report user informations of the DHCP.

XML structure for event subscription

```
<DhcpServerUserInfoEvent>
</DhcpServerUserInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCP</stream>
    <filter type="subtree">
      <DhcpServerUserInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/dhcp:1.0">
      </DhcpServerUserInfoEvent>
    </filter>
  </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	DHCP
Event name	DhcpServerUserInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/dhcp:1.0
Support for extended query	No

XML structure for event report

```
<DhcpServerUserInfoEvent>
  <VRF></VRF>
  <Ipv4Address></Ipv4Address>
  <MacAddress></MacAddress>
  <HostName><HostName>
  <Option55><Option55>
  <OptionType><OptionType>
</DhcpServerUserInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
   <eventTime>2019-01-21T10:12:15</eventTime>
   <DhcpServerUserInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/dhcp:1.0">
    <VRF>1</VRF>
    <Ipv4Address>192.168.1.2</Ipv4Address>
    <MacAddress>14-6A-4D-8C-03-16</MacAddress>
    <HostName>loginA<HostName>
    <Option55>017903060c0f212b42438a96</Option55>
    <OptionType>1</OptionType>
   </DhcpServerUserInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
VRF	VPN instance name	String, case-sensitive. Length: 0 to 31 characters.	The character length is 0 for the public network.
Ipv4Address	IP address allocated to a DHCP client	String, dotted decimal notation.	N/A
MacAddress	MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
HostName	Host name of a DHCP client	String, case-insensitive. Length: 0 to 253 characters.	The length of characters is 0 when the DHCP client is used.
Option55	Parameter request list	String, case-insensitive. Length: 0 characters, 2 to 510 characters.	The length of characters is 0 when the DHCP client is used.
OptionType	Parameter request list	Enumeration: • **0**—INSERT. • **1**—DELETE.	N/A

DHCP pool statistics event

This event is used to report pool statistics of the DHCP.

XML structure for event subscription

```
<DhcpServerPoolStatisticsEvent>
</DhcpServerPoolStatisticsEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCP</stream>
    <filter type="subtree">
      <DhcpServerPoolStatisticsEvent
xmlns="http://www.h3c.com/netconf/event:1.0/DHCP:1.0">
      </DhcpServerPoolStatisticsEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCP
Event name	DhcpServerPoolStatisticsEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DHCP:1.0
Support for extended query	No

XML structure for event report

```
<DhcpServerPoolStatisticsEvent>
  <PoolName></PoolName>
  <Reason></Reason>
  <ExpiredIpNumber></ExpiredIpNumber>
  <DynamicUsedIpNumber><DynamicUsedIpNumber>
  <ConflictIpNumber><ConflictIpNumber>
  <ReserveIpNumber><ReserveIpNumber>
  <FreeIpNumber><FreeIpNumber>
</DhcpServerPoolStatisticsEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-21T10:12:15</eventTime>
  <DhcpServerPoolStatisticsEvent
xmlns="http://www.h3c.com/netconf/event:1.0/DHCP:1.0">
    <PoolName>p1</PoolName>
```

```
    <Reason>0</Reason>
    <ExpiredIpNumber>1</ExpiredIpNumber>
    <DynamicUsedIpNumber>1<DynamicUsedIpNumber>
    <ConflictIpNumber>1<ConflictIpNumber>
    <ReserveIpNumber>1<ReserveIpNumber>
    <FreeIpNumber>1<FreeIpNumber>
  </DhcpServerPoolStatisticsEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
PoolName	DHCP address pool name	String, case-insensitive. Length: 1 to 63 characters.	N/A
Reason	The reason of the event	Enumeration: • **0**—users change. • **1**—address subnet network application. • **2**—address subnet network release.	N/A
ExpiredIpNumber	Number of expired IP address leases in the address	Unsigned integer.	N/A
DynamicUsedIpNumber	Number of used dynamic IP addresses in the address pool	Unsigned integer.	N/A
ConflictIpNumber	Number of conflicting IP addresses in the address pool	Unsigned integer.	N/A
ReserveIpNumber	Number of reserved IP addresses in the address pool	Unsigned integer.	N/A
FreeIpNumber	Number of free IP addresses in the address pool	Unsigned integer.	N/A

DHCP user protocol event

This event is used to reportuser DHCP client online or offline events.

XML structure for event subscription

```
<DhcpUserProtocolEvent>
</DhcpUserProtocolEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
    <stream>DHCP</stream>
    <filter type="subtree">
      <DhcpUserProtocolEvent xmlns="http://www.h3c.com/netconf/event:1.0/DHCP:1.0">
      </DhcpUserProtocolEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCP
Event name	DhcpUserProtocolEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DHCP:1.0
Support for extended query	No

XML structure for event report

```
<DhcpUserProtocolEvent>
  <Time></Time>
  <UserID></UserID>
  <UserMAC></UserMAC>
  <FirstVLAN></FirstVLAN>
  <SecondVLAN></SecondVLAN>
  <SN></SN>
  <Type></Type>
  <DiscoverTime></DiscoverTime>
  <OfferTime></OfferTime>
  <RequestTime></RequestTime>
  <AckTime></AckTime>
  <OffTime></OffTime>
  <Reason></Reason>
  <Errcode></ErrCode>
</DhcpUserProtocolEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
    <DhcpUserProtocolEvent xmlns="http://www.h3c.com/netconf/event:1.0/DHCP:1.0">
      <Time>1561539343145</Time>
      <UserID>1</UserID>
      <UserMAC>7C-FB-B1-5A-08-16</UserMAC>
      <FirstVLAN>5</FirstVLAN>
      <SecondVLAN>10</SecondVLAN>
      <SN>DUT1</SN>
      <Type>1</Type>
```

```
      <DiscoverTime>1561539343133</DiscoverTime>
      <OfferTime>1561539343135</OfferTime>
      <RequestTime>1561539343140</RequestTime>
      <AckTime>1561539343145</AckTime>
      <OffTime>0</OffTime>
      <Errcode>0</ErrCode>
    </DhcpUserProtocolEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Time	Incident reporting time	Timestamp accurate to milliseconds	No
UserID	User ID	Unsigned integer.	No
UserMAC	User MAC address	String. Length: 1 to 6 characters.	No
FirstVLAN	Client first VLAN ID	Unsigned integer. Value range: 1 to 4094. Default: 65535	No
SecondVLAN	Client second VLAN ID	Unsigned integer. Value range: 1 to 4094. Default: 65535	No
SN	Service serial number or name	String Length: 1 to 128 characters.	No
Type	Event type	Unsigned integer. Value range: 1 to 255.	No
DiscoverTime	Time when receiving the DISCOVER packet	Timestamp accurate to milliseconds	No
OfferTime	Time when receiving the OFFER packet	Timestamp accurate to milliseconds	No
RequestTime	Time when receiving the REQUEST packet	Timestamp accurate to milliseconds	No
AckTime	Time when receiving the ACK packet	Timestamp accurate to milliseconds	No
OffTime	Time when the client is offline	Timestamp accurate to milliseconds	No
Reason	Client offline reason	String Length: 1 to 255 characters.	No
Errcode	Error code number	Unsigned integer. Value range: 0 to 25999	No

Contents

DHCP6 1

DHCP6/DHCP6ServerUpdateDatabase 1
XML structure 1
Table description 1
Columns 1
DHCP6/DHCP6ServerClearIpInUse 1
XML structure 1
Table description 2
Columns 2
DHCP6/DHCP6ServerClearIpInUseByVrf 2
XML structure 2
Table description 2
Columns 3
DHCP6/DHCP6ServerClearIpInUseByPool 3
XML structure 3
Table description 3
Columns 4
DHCP6/DHCP6ServerClearPDInUseByPrefix 4
XML structure 4
Table description 4
Columns 4
DHCP6/DHCP6ServerClearPDInUseByVrf 5
XML structure 5
Table description 5
Columns 5
DHCP6/DHCP6ServerClearPDInUseByPool 6
XML structure 6
Table description 6
Columns 6
DHCP6/DHCP6ServerDebug 6
XML structure 6
Table description 7
Columns 7
DHCP6/DHCP6ClearPoolMaxUsage 7
XML structure 7
Table description 7
Columns 8
DHCP6/ DHCP6ServerForceRenewSubNet 8
XML structure 8
Table description 8
Columns 8

DHCP6

DHCP6/DHCP6ServerUpdateDatabase

Use this table to save current IPv6 DHCP server entries to the file and stop downloading these entries from the file.

XML structure

```
<DHCP6>
  <DHCP6ServerUpdateDatabase>
    <UpdateMode></UpdateMode>
  </DHCP6ServerUpdateDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerUpdateDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UpdateMode	Update IPv6 DHCP server database immediately. Stop downloading entries from IPv6 DHCP server database.	N/A	Unsigned integer: • **0**—Now. • **1**—Stop.

DHCP6/DHCP6ServerClearIpInUse

Use this table to clear binding information about assigned IPv6 addresses by VRF and IP6 address.

XML structure

```
<DHCP6>
  <DHCP6ServerClearIpInUse>
    <ClearIpInUse>
      <VRF></VRF>
```

```
      <Ipv6Address></Ipv6Address>
    </ClearIpInUse>
  </DHCP6ServerClearIpInUse>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearIpInUse
Table type	Multi-instance table
Row name	ClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, do not specify a value for the VRF element.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A

DHCP6/DHCP6ServerClearIpInUseByVrf

Use this table to clear binding information about assigned IPv6 addresses by VRF.

XML structure

```
<DHCP6>
  <DHCP6ServerClearIpInUseByVrf>
    <ClearIpInUseByVrf>
      <VRF></VRF>
      <RelayAddress></RelayAddress>
    </ClearIpInUseByVrf>
  </DHCP6ServerClearIpInUseByVrf>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearIpInUseByVrf

Table type	Multi-instance table
Row name	ClearIpInUseByVrf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the binding information belongs to the public network, do not specify a value for the VRF element.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.	N/A

DHCP6/DHCP6ServerClearIpInUseByPool

Use this table to clear binding information about assigned IPv6 addresses by pool name.

XML structure

```
<DHCP6>
  <DHCP6ServerClearIpInUseByPool>
    <ClearIpInUse>
      <PoolName></PoolName>
      <RelayAddress></RelayAddress>
    </ClearIpInUse>
  </DHCP6ServerClearIpInUseByPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearIpInUseByPool
Table type	Multi-instance table
Row name	ClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	IPv6 DHCP address pool name	Index	String, case-insensitive. Length: 1 to 63 characters.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.

DHCP6/DHCP6ServerClearPDInUseByPrefix

Use this table to clear prefix binding information about assigned IPv6 addresses by VRF, IPv6 address and Ipv6 prefix length.

XML structure

```
<DHCP6>
  <DHCP6ServerClearPDInUseByPrefix>
    <ClearPDInUseByPrefix>
      <VRF></VRF>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
    </ClearPDInUseByPrefix>
  </DHCP6ServerClearPDInUseByPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearPDInUseByPrefix
Table type	Multi-instance table
Row name	ClearPDInUseByPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, do not specify a value for the VRF element.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

DHCP6/DHCP6ServerClearPDInUseByVrf

Use this table to clear binding information about assigned IPv6 prefixes by VRF.

XML structure

```
<DHCP6>
  <DHCP6ServerClearPDInUseByVrf>
    <ClearPDInUseByVrf>
      <VRF></VRF>
      <RelayAddress></RelayAddress>
    </ClearPDInUseByVrf>
  </DHCP6ServerClearPDInUseByVrf>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearPDInUseByVrf
Table type	Multi-instance table
Row name	ClearPDInUseByVrf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the binding information belongs to the public network, do not specify a value for the VRF element.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.	N/A

DHCP6/DHCP6ServerClearPDInUseByPool

Use this table to clear prefix binding information about assigned IPv6 addresses by pool name.

XML structure

```
<DHCP6>
  <DHCP6ServerClearPDInUseByPool>
    <ClearPDInUseByPool>
      <PoolName></PoolName>
      <RelayAddress></RelayAddress>
    </ClearPDInUseByPool>
  </DHCP6ServerClearPDInUseByPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearPDInUseByPool
Table type	Multi-instance table
Row name	ClearPDInUseByPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	IPv6 DHCP address pool name	Index	String, case-insensitive. Length: 1 to 63 characters.
RelayAddress	Relay address	N/A	Hexadecimal string, colon-separated.

DHCP6/DHCP6ServerDebug

Use this table to turn on or turn off the IPv6 DHCP server debug information switch.

XML structure

```
<DHCP6>
  <DHCP6ServerDebug>
    <Enable></Enable>
  </DHCP6ServerDebug>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerDebug
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Turn on or turn off the DHCP6 server debug information switch.	Column	Boolean: • **true** (on) • **false** (off, the default)	N/A

DHCP6/DHCP6ClearPoolMaxUsage

Use this table to clear peak resource usage data for the address pool.

XML structure

```
<DHCP6>
  <DHCP6ClearPoolMaxUsage>
    <PoolClearMaxUsage>
      <PoolName></PoolName>
    </PoolClearMaxUsage>
  </DHCP6ClearPoolMaxUsage>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ClearPoolMaxUsage
Table type	Multi-instance table
Row name	PoolClearMaxUsage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	DHCP6 pool name	Index	String.	N/A

DHCP6/ DHCP6ServerForceRenewSubNet

Use this table to renew information about the subnets allocated to ODAP clients.

XML structure

```
<DHCP6>
  <DHCP6ServerForceRenewSubNet>
    <ForceRenewSubNet>
      <PoolIndex></PoolIndex>
    <ForceRenewSubNet>
  </DHCPServerForceRenewSubNet>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerForceRenewSubNet
Table type	Multi-instance table
Row name	ForceRenewSubNet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCPv6 address pool index	Index	Unsigned integer. Value range: 1 to 1024 .	The specified pool index must already exist.

Contents

DHCP6 1

DHCP6/DHCP6ServerDatabase 1
XML structure 1
Table description 1
Columns 1
DHCP6/DHCP6ServerIpPool 2
XML structure 3
Table description 5
Columns 5
DHCP6/ DHCP6OptionGroup 20
XML structure 21
Table description 21
Columns 21
DHCP6/ DHCP6OptionGroupOption 22
XML structure 22
Table description 23
Columns 23
DHCP6/DHCP6RelayPoolRemoteServer 23
XML structure 24
Table description 24
Columns 24
DHCP6/DHCP6Config 25
XML structure 25
Table description 26
Columns 27
DHCP6/DHCP6ServerPoolStaticAddress 32
XML structure 32
Table description 32
Columns 33
DHCP6/DHCP6ServerPoolStaticPrefix 33
XML structure 34
Table description 34
Columns 34
DHCP6/DHCP6RelaySrvAddress 35
XML structure 35
Table description 36
Columns 36
DHCP6/ DHCP6PrefixPool 37
XML structure 37
Table description 38
Columns 38
DHCP6/DHCP6If 39
XML structure 39
Table description 40
Columns for B70 40
Columns for B75 44
DHCP6/DHCP6ServerPoolOption 46
XML structure 46
Table description 47
Columns 47
DHCP6/DHCP6ServerClass 47
XML structure 48
Table description 48
Columns 48
DHCP6/DHCP6ServerForbiddenPrefix 49
XML structure 49
Table description 50

Columns 50
DHCP6/DHCP6ServerPolicy/ClassPolicy 51
XML structure 51
Table description 51
Columns 51
DHCP6/DHCP6Vsi 52
XML structure 52
Table description 53
Columns 53
DHCP6/DHCP6ServerPoolGroup 53
XML structure 53
Table description 54
Columns 54
DHCP6/DHCP6ServerForbiddenIpv6 56
XML structure 56
Table description 56
DHCP6/DHCP6RelayMacFowardEnable 56
XML structure 56
Table description 57
Columns 57
DHCP6/DHCP6RelaySourceAddress 57
XML structure 58
Table description 58
Columns 58
DHCP6/DHCP6ServerPoolForbiddenAddress 59
XML structure 59
Table description 59
Columns 60
DHCP6/DHCP6ServerPoolForbiddenPrefix 60
XML structure 60
Table description 61
Columns 61
DHCP6/DHCP6RelayServerInfo 62
XML structure 62
Table description 62
Columns 63
DHCP6/DHCP6ServerPoolVendorSpecific 64
XML structure 64
Table description 64
Columns 64

DHCP6

DHCP6/DHCP6ServerDatabase

This table contains IPv6 DHCP server database configuration information.

XML structure

```
<DHCP6>
  <DHCP6ServerDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCP6ServerDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerDatabase
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL cannot be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String. case-sensitive. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String. case-sensitive. Length: 1 to 32 characters.	Cannot be configured for the delete and remove operations.
Password	FTP password	N/A	String. case-sensitive. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Can not be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCP6/DHCP6ServerIpPool

This table contains IPv6 DHCP server pool information.

XML structure

```
<DHCP6>
  <DHCP6ServerIpPool>
    <Pool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <Network>
        <NetworkIpv6Address></NetworkIpv6Address>
        <NetworkIpv6PrefixLength></NetworkIpv6PrefixLength>
        <NetworkPreferLifetime></NetworkPreferLifetime>
        <NetworkValidLifetime></NetworkValidLifetime>
        <NetworkExportRoute></NetworkExportRoute>
        <NetworkPreference></NetworkPreference>
        <NetworkTag></NetworkTag>
        <NetworkPrefixNumber></NetworkPrefixNumber>
        <NetworkSubPrefixAddress></NetworkSubPrefixAddress>
        <NetworkSubPrefixLength></NetworkSubPrefixLength>
      </Network>
      <Range>
        <StartIpv6Address></StartIpv6Address>
        <EndIpv6Address></EndIpv6Address>
        <RangePreferLifetime></RangePreferLifetime>
        <RangeValidLifetime></RangeValidLifetime>
      </Range>
      <TempRange>
        <TempStartIpv6Address></TempStartIpv6Address>
        <TempEndIpv6Address></TempEndIpv6Address>
        <TempRangePreferLifetime></TempRangePreferLifetime>
        <TempRangeValidLifetime></TempRangeValidLifetime>
      </TempRange>
      <PrefixPool>
        <PrefixPoolNumber></PrefixPoolNumber>
        <PrefixPoolPreferLifetime></PrefixPoolPreferLifetime>
        <PrefixPoolValidLifetime></PrefixPoolValidLifetime>
        <PrefixPoolExportRoute></PrefixPoolExportRoute>
        <PrefixPoolPreference></PrefixPoolPreference>
        <PrefixPoolTag></PrefixPoolTag>
      </PrefixPool>
      <DomainName></DomainName>
      <GatewayIpv6Address></GatewayIpv6Address>
      <DNSIpv6Address></DNSIpv6Address>
      <SIPIpv6Address></SIPIpv6Address>
      <SIPDomainName></SIPDomainName>
      <ExportAddressHostRoute></ExportAddressHostRoute>
      <ExportNdPrefixHostRoute></ExportNdPrefixHostRoute>
```

```
<ExportPdPrefixHostRoute></ExportPdPrefixHostRoute>
<AddressAllocMode></AddressAllocMode>
<AftrName></AftrName>
<AllocateNewIp></AllocateNewIp>
<DhcpRelaySource>
  <SourceType></SourceType>
  <IpAddress></IpAddress>
  <interface></interface>
</DhcpRelaySource>
<OptionGroup></OptionGroup>
<ReserveExpiredIp>
  <Enable></Enable>
  <Mode></Mode>
  <Limite><Limit>
  <Time><Time>
</ReserveExpiredIp>
<ReserveExpiredPd>
  <Enable></Enable>
  <Mode></Mode>
  <Limte></Limit>
  <Time></Time>
</ReserveExpiredPd>
<UnrTag></UnrTag>
<VirtualDuid>
  <EnterpriseNum></EnterpriseNum>
  <Identifier></Identifier>
  <HardwareType></HardwareType>
  <Address></Address>
<VirtualDuid>
<VsrpInstance></VsrpInstance>
<PoolType></PoolType>
<DynamicAddressAllocMode></DynamicAddressAllocMode>
<DynamicAddressAllocAssignLength></DynamicAddressAllocAssignLength>
<DynamicAddressIdleTime></DynamicAddressIdleTime>
<DynamicPrefixAllocMode></DynamicPrefixAllocMode>
<DynamicPrefixAggregateLength></DynamicPrefixAggregateLength>
<DynamicPrefixIdleTime></DynamicPrefixIdleTime>
<DynamicExportRouteDisable></DynamicExportRouteDisable>
<DynamicExportRouteAddrPreference></DynamicExportRouteAddrPreference>
<DynamicExportRouteAddrTag></DynamicExportRouteAddrTag>
<DynamicExportRoutePrefixPreference></DynamicExportRoutePrefixPreference>
<DynamicExportRoutePrefixTag></DynamicExportRoutePrefixTag>
<DynamicPrefixOrigAssignLen></DynamicPrefixOrigAssignLen>
<DynamicUtilizationMark>
   <High></High>
    <Low></Low>
<DynamicUtilizationMark>
<Giaddr></Giaddr>
<ExhaustionLogEnable></ExhaustionLogEnable>
```

```
      <ExhaustionTrapEnable></ExhaustionTrapEnable>
      <RouteLogEnable></RouteLogEnable>
      <IpInuseThreshold></IpInuseThreshold>
      <PdInuseThreshold></PdInuseThreshold>
      <SubnetForceRenew></SubnetForceRenew>
      <Bindings>
        <Binding>
          <UpIfName></UpIfName>
          <BindingUpId></BindingUpId>
          <BindingUpBackupProfile></BindingUpBackupProfile>
          <BindingMasterUpId></BindingMasterUpId>
          <BindingBackupUpId></BindingBackupUpId>
          <BindingRouteRefresh></BindingRouteRefresh>
        </Binding>
      <Bindings>
      <RemoteServerAlgorithm><RemoteServerAlgorithm>
      <IpSubnetInuseThreshold></IpSubnetInuseThreshold>
      <PdSubnetInuseThreshold></PdSubnetInuseThreshold>
      <ReserveGroupName></ReserveGroupName>
      <Ipv6PoolLock></Ipv6PoolLock>
    </Pool>
  </DHCP6ServerIpPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpPool
Table type	Multi-instance table, multi-level table
Row name	Pool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to

Column name	Column description	Column type	Data type and restrictions	Remarks
				automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
PoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Required when create a new row, can not be modified.
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Network	The configuration of the IPv6 subnet	Data structure	Members include: • NetworkIpv6Address • NetworkIpv6PrefixLength • NetworkPreferLifetime • NetworkValidLifetime • NetworkExportRoute • NetworkPreference • NetworkTag	N/A
NetworkIpv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	Modifying or removing the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Must be specified with NetworkIpv6Address.
NetworkPreferLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.	It must be configured together with NetworkIpv6Address

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 604800.	when the configuration of the IPv6 subnet is not exist.
NetworkValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with NetworkIpv6Address when the configuration of the IPv6 subnet is not exist. The preferred lifetime can't be longer than the valid lifetime.
NetworkExportRoute	Wether advertise the subnet assigned to IPv6 DHCP clients or not.	N/A	Boolean: • **true** • **false (default)**	It must be configured together with NetworkIpv6Address when the configuration of the IPv6 subnet is not exist.
NetworkPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255. Default: 65.	N/A
NetworkTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	N/A
NetworkPrefixNumber	Number of prefix of IPv6 address segment	N/A	Unsigned integer. Value range: 1 to 1024 Default 0	N/A
NetworkSubPrefixAddress	Address segment of subprefix of IPv6 address segment	N/A	Hexadecimal string, colon-separated.	It must be configured together with NetworkPrefixNumber.
NetworkSubPrefixLength	Address segment length of subprefix of IPv6 address segment	N/A	Unsigned integer. Value range: 1 to 128. Default 0	Must be specified with NetworkSubPrefixAddress

Column name	Column description	Column type	Data type and restrictions	Remarks
Range	The configuration of the non-temporary IPv6 address range	Data structure	Members include: • StartIpv6Address • EndIpv6Address • RangePreferLifetime • RangeValidLifetime	N/A
StartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
EndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	Must be specified with StartIpv6Address.
RangePreferLifetime	The preferred lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with StartIpv6Address when the configuration of the non-temporary IPv6 address range is not exist. The preferred lifetime can't be longer than the valid lifetime.
RangeValidLifetime	The valid lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with StartIpv6Address when the configuration of the non-temporary IPv6 address range is not exist.
TempRange	The configuration of the temporary IPv6 address range	Data structure	Members include: • TempStartIpv6Address • TempEndIpv6Address • TempRangePreferLifetime • TempRangeValidLifetime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TempStartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempEndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	Must be specified with TempStartIpv6Address.
TempRangePreferLifetime	The preferred lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with TempStartIpv6Address when the configuration of the temporary IPv6 address range is not exist. The preferred lifetime can't be longer than the valid lifetime.
TempRangeValidLifetime	The valid lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with TempStartIpv6Address when the configuration of the temporary IPv6 address range is not exist.
PrefixPool	The configuration of the prefix pool applied in the IPv6 DHCP address pool	Data structure	Members include: • PrefixPoolNumber • PrefixPoolPreferLifetime • PrefixPoolValidLifetime • PrefixPoolExportRoute • PrefixPoolPreference • PrefixPoolTag	N/A
PrefixPoolNumber	Prefix pool number	N/A	Unsigned integer. Value range: 1 to 128	N/A
PrefixPoolPreferL	The preferred	N/A	Unsigned integer.	It must be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
ifetime	lifetime of the prefix pool		Value range: 60 to 4294967295. Default: 604800.	together with PrefixPoolNumber when the configuration of the prefix pool is not exist. The preferred lifetime can't be longer than the valid lifetime.
PrefixPoolValidLifetime	The valid lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with PrefixPoolNumber when the configuration of the prefix pool is not exist.
PrefixPoolExportRoute	Enabling status of adversing prefixes assigned to DHCPv6 clients	N/A	Boolean: • **true** • **false (default)**	N/A
PrefixPoolPreference	Preference value	N/A	Unsigned integer. Value range: 1 to 255. Default: 65.	N/A
PrefixPoolTag	Tag value	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	N/A
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
GatewayIpv6Address	Gateway addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
DNSIpv6Address	DNS server	N/A	String, case-insensitive.	Separated by space if

Column name	Column description	Column type	Data type and restrictions	Remarks
	addresses		Length: 1 to 367 characters.	there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.
ExportAddressHostRoute	Whether the function of export address host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
ExportNdPrefixHostRoute	Whether the function of export nd prefix host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
ExportPdPrefixHostRoute	Whether the function of export	N/A	Boolean: • **True**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pd prefix host route is specified.		• **False**(default)	
AddressAllocMode	IPv6 Address Allocation Method Configuring IPv6 Address Pool	N/A	Enumeration: • 0-invalid (default) • 1-eui-64 • 2-interface-id	N/A
AftrName	Configure the IPv6 address pool to assign the AFTR domain name to the DHCPv6 client.	N/A	String,uncase-sensitive Length: 1 to 63 characters	N/A
AllocateNewIp	Configuring IPv6 address pool to randomly assign new addresses	N/A	Boolean: • True • False(default)	N/A
DhcpRelaySource	Specify the source address of DHCP relay forwarding message to DHCP server	Data structure	Members include: • SourceType • IpAddress • Interface	N/A
SourceType	The Source Address Type of DHCP Relay Forwarding Messages to DHCP Server	N/A	Enumeration: • 0-invalid (default) • 1-gateway • 2-Interface • 3-IpAddress	It must be configured together with ipAddress when the value is 3. It must be configured together with Interface when the value is 2.
IpAddress	Configure this IP address to the message source address and giaddr field sent to the DHCP server	Index	Hexadecimal string, colon-separated.	N/A
Interface	Interface index.	Index	Unsigned integer	N/A
OptionGroup	Configure IPv6 address pool	N/A	Unsigned integer. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	reference option group		Default 0	
ReserveExpiredIp	Aging DHCPv6 address lease	Data structure	Members include: • Enable • Mode • Limte • Time	N/A
Enable	DHCPv6 address lease switch	N/A	Boolean: • **True (default)** • **false**	N/A
Mode	DHCPv6 address lease mode	N/A	Enumeration: • **0**—**CID** • **1**—MAC (default) • **2**—BUTT	N/A
Limit	Maximum number of reserved IPv6 address lease	N/A	Unsigned integer. Value range: 1 to 256000. Default value 256000	N/A
Time	Keep IPv6 addresses the length of the lease	N/A	Unsigned integer. Value range: 60 to 4294967295. Default value 4294967295	N/A
ReserveExpiredPd	The configuration of the expired prefix lease retention mode.	Data structure	Members include: • Enable • Mode • Limte • Time	N/A
Enable	Enable the reserve expired-pd mode function.	N/A	Boolean: • True • false(default).	N/A
Mode	The mode of reserve expired-pd.	N/A	Enumeration: • 0—CID	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—MAC (default) • 2—BUTT	
Limit	The number of prefix leases.	N/A	Unsigned integer. Value range: 1 to 256000 Default: 256000	N/A
Time	The time of the prefix leases.	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 4294967295	N/A
UnrTag	The tag value of user network route	N/A	Unsigned integer. Value range: 0 to 4294967294 Default: 4294967295	N/A
VirtualDuid	Generate a virtual DUID for the server to use,	Data structure	Members include: • EnterpriseNum • Identifier • HardwareType • Address	N/A
EnterpriseNum	Enterprise number of VirtualDuid.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	It must be configured together with Identifier and cannot be configured with HardwareType or Address.
Identifier	Device identifier of VirtualDuid.	N/A	Hexadecimal string, number is even. Length: 2 to 128 characters.	It must be configured together with EnterpriseNum and cannot be configured with HardwareType or Address.
HardwareType	Hardware types of VirtualDuid.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	It must be configured together with Address and cannot be configured with EnterpriseNum or

Column name	Column description	Column type	Data type and restrictions	Remarks
				Identifier
Address	Hardware address of VirtualDuid.	N/A	Hexadecimal string, number is even. Length: 2 to 128 characters.	It must be configured together with HardwareType and cannot be configured with EnterpriseNum or Identifier
VsrpInstance	Use vsrp instance to create a VSRP instance and enter its view, or enter the view of an existing VSRP instance.	N/A	String, case-sensitive. Length: 1 to 32 characters	N/A
PoolType	The type of a specifies pool	N/A	Enumeration: • 0—normal (default) • **1**—dynamic • 2---ODAP-Client • 3---ODAP-Server • 6—bas local. • 7—bas remote. • 9—odap	N/A
DynamicAddressAllocMode	Dynamic IPv6 address block allocation mode	N/A	Enumeration: • 0—vxlan-id (default) • **1**—up-id • 3—interface • 4—up-backup-profile. • 5—interface-physic. • 6—up-backup-profile-route-refresh.	The address pool type must be dynamic.
DynamicAddressAllocAssignLengt	Specify a prefix length	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
h			Value range: 1 to 127.	
DynamicAddressIdleTime	Specify the maximum idle time for IPv6 address blocks	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A
DynamicPrefixAllocMode	Dynamic IPv6 prefix range allocation mode	N/A	Enumeration: • 0—vxlan-id(default) • **1**—up-id • 3—interface • 4—up-backup-profile. • 5—interface-physic. • 6—up-backup-profile-route-refresh.	N/A
DynamicPrefixAggregateLength	Aggregate assignable IPv6 prefixes based on the length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DynamicPrefixIdleTime	Specify the maximum idle time for IPv6 prefix ranges	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A
DynamicExportRouteDisable	Disable deploying route for assigned IPv6 address blocks	N/A	Boolean: • **true(default)** • **false**	N/A
DynamicExportRouteAddrPreference	Dynamic IPv6 address route preference	N/A	Unsigned integer. Value range: 1 to 255	N/A
DynamicExportRouteAddrTag	Dynamic IPv6 address route tag	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DynamicExportRoutePrefixPreference	Dynamic IPv6 prefix route preference	N/A	Unsigned integer. Value range: 1 to 255	N/A
DynamicExportRoutePrefixTag	Dynamic IPv6 address route tag	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
DynamicPrefixOrigAssignLen	Aggregate assignable IPv6 prefixes based on the length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DynamicUtilizationMark	Dynamic subnet ultization	Data structure	Members include: • High Low	N/A
High	Dynamic subnet ultization mark high	N/A	Unsigned integer. Value range: 1 to 100. Default:100	N/A
Low	Dynamic subnet ultization mark low	N/A	Unsigned integer. Value range: 0 to 99. Default:50	N/A
Giaddr	Link address in the packet odap client send to odap server	N/A	Hexadecimal string, colon-separated.	N/A
ExhaustionLogEnable	Whether IPv6 address or prefix range exhaustion logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
ExhaustionTrapEnable	Whether the SNMP notification about IPv6 address pool exhaustion is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
RouteLogEnable	Whether IPv6 pool route logging is	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enabled		• **false**(default)	
IpInuseThreshold	IPv6 address pool usage threshold	N/A	Unsigned integer. Value range: 0 to 100.	N/A
PdInuseThreshold	IPv6 prefix usage threshold	N/A	Unsigned integer. Value range: 0 to 100.	N/A
SubnetForceRenew	Renew information about the subnets allocated to ODAP clients	N/A	Boolean: • **true** • **false** (default)	This column is obsolete. To renew the subnets allocated to ODAP clients, use the SubnetForceRenew column in the DHCP6ServerForceRenewSubNet table, as described in the DHCP6 NETCONF XML API action reference document.
Bindings	N/A	SubTable	Members include: • UpIfName • BindingUpId • BindingUpBackupProfile	N/A
Binding	Bind an IPv6 address pool to a UP device	Sublist	N/A	N/A
UpIfName	Interface name.	N/A	String, case sensitive. Length: 1 to 48 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
BindingUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			product-specifc upper limit.	
BindingUpBackupProfile	Backup group to which IPV6 address pool belongs	N/A	Unsigned integer. Value range: 1 to 16384.	N/A
BindingMasterUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingBackupUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingRouteRefresh	Enable the CP to issue the updated subnet route to UPs after a master-backup switchover in warm backup mode	N/A	Boolean: • **True** • **false** (default)	It must be configured together with BindingUpBackupProfile
RemoteServerAlgorithm	Specify a DHCPv6 server selection algorithm when the device acts as a DHCPv6 relay agent	N/A	Enumeration: • **0**—Polling algorithm (default). **1**—Master-backup algorithm.	To forward a DHCPv6 request to all DHCPv6 servers, use the polling algorithm. To forward a DHCPv6 request to the master DHCPv6 server first and then to a backup DHCPv6 server only when the master server is not available, use the master-backup algorithm.
IpSubnetInuseThreshold	The subnet utilization marks forof the IPv6	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address pool, in percentagewarning rate of used ipv6 network in dhcp			
PdSubnetInuseThreshold	The prefix range utilization marks forof the prefix pool, in percentage warning rate of used ipv6 prefix network in dhcp	N/A	Unsigned integer. Value range: 0 to 100.	N/A
ReserveGroupName	UP backup group bound to the IPv6 address pool	N/A	String, dotted decimal notation.	Configure this object to assign reserved IPv6 address users to the specified UP backup group.
Ipv6PoolLock	Lock the IP pool to prevent it from being used for IPv6 address (or prefix) assignment or lease renewal	N/A	Unsigned integer. Enumeration: • **0**—The IP pool is not locked and can be used for IPv6 (or prefix) assignment and lease renewal. This is the default setting. • **1**—Lock the IP pool in loose mode. **2**—Lock the IP pool in strict mode.	If an IP pool is locked in loose mode, the DHCPv6 server cannot use it for IPv6 address (or prefix) assignment, but it can still renew leases for clients that have been assigned IPv6 addresses (or prefixes) from that pool. Lock an IP pool in strict mode to prevent it from being used for assignment of new IPv6 addresses (or prefixes) or lease renewal.

DHCP6/ DHCP6OptionGroup

This table contains IPv6 DHCP option group and self-defined IPv6 DHCP option configuration information.

XML structure

```
<DHCP6>
  <DHCP6OptionGroup>
    <OptionGroup>
      <GroupNumber></GroupNumber>
      <DNSIpv6Address></DNSIpv6Address>
      <DomainName></DomainName>
      <SIPIpv6Address></SIPIpv6Address>
      <SIPDomainName></SIPDomainName>
    </OptionGroup>
  </DHCP6OptionGroup>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroup
Table type	Multi-instance table
Row name	OptionGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	N/A
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses

Column name	Column description	Column type	Data type and restrictions	Remarks
				Example: 1::1 2::2.
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.

DHCP6/ DHCP6OptionGroupOption

This table contains self-defined IPv6 DHCP option configuration information.

XML structure

```
<DHCP6>
  <DHCP6OptionGroupOption>
    <GroupOption>
      <GroupNumber></GroupNumber>
      <OptionCode></OptionCode>
```

```
      <OptionValueHex></OptionValueHex>
    </GroupOption>
  </DHCP6OptionGroupOption>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroupOption
Table type	Multi-instance table
Row name	GroupOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	The specified GroupNumber must already exist.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535	Following values of OptionCode are forbidden: 25,26,37 to 40 and 43 to 48
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.	Lenth of OptionValueHex must be an even number.

DHCP6/DHCP6RelayPoolRemoteServer

This table contains IPv6 DHCP relay pool remote server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv6Address></RemoteServerIpv6Address>
      <OutIfIndex></OutIfIndex>
      <Public></Public>
      <VpnInstanceName></VpnInstanceName>
    </RemoteServer>
  </DHCP6RelayPoolRemoteServer>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayPoolRemoteServer
Table type	Multi-instance table
Row name	RemoteServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
RemoteServerIpv6Address	IPv6 DHCP server address.	Index	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multi-cast address are invalid addresses.

Column name	Column description	Column type	Data type and restrictions	Remarks
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.	If a IPv6 DHCP server address is a link-local address, you must specify an outgoing interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Public	DHCP servers belonging to the public network	Index	Boolean: • **true** • **false**.	N/A
VpnInstanceName	DHCP servers belonging to a VRF	Index	String. Length: 1 to 31.	N/A

DHCP6/DHCP6Config

This table contains IPv6 DHCP DSCP configuration information.

XML structure

```
<DHCP6>
  <DHCP6Config>
    <DSCP></DSCP>
    <FloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </FloodProtectionThreshold>
    <FloodProtectionAgeTime></FloodProtectionAgeTime>
    <LogEnable></LogEnable>
    <RouteLogGlobalEnable></RouteLogGlobalEnable>
    <AdvertisePdRoute></AdvertisePdRoute>
```

```
    <IfRateSuppressionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </IfRateSuppressionThreshold>
    <IfRateSuppressionThresholdAgeTime></IfRateSuppressionThresholdAgeTime>
    <DuidMismatcOffline></DuidMismatchOffline>
    <MultiIpPerMacEnable></MultiIpPerMacEnable>
    <Ipv6Unr>
      <FramedIpv6AddressTag></FramedIpv6AddressTag>
      <FramedIpv6PrefixTag></FramedIpv6PrefixTag>
      <FramedIpv6RouteTag></FramedIpv6RouteTag>
      <LocalPoolTag></LocalPoolTag>
      <RemotePoolTag></RemotePoolTag>
    </Ipv6Unr>
    <EntryConvertEnable></EntryConvertEnable>
    <AdvertiseAddressRoute></AdvertiseAddressRoute>
    <RelayMacForwardEnable></RelayMacForwardEnable>
    <RelayMacForwardBroadcastEnable></RelayMacForwardBroadcastEnable>
    <ConflictIpv6Offline></ConflictIpv6Offline>
    <DHCP6DUID></DHCP6DUID>
    <DHCP6RateLimit></DHCP6RateLimit>
    <TrapAddressExhaust></TrapAddressExhaust>
    <TrapIpInUse></TrapIpInUse>
    <TrapPdExhaust></TrapPdExhaust>
    <TrapPdInUse></TrapPdInUse>
  </DHCP6Config>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Config
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	The DSCP value for IPv6 DHCP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	N/A
FloodProtectionThreshold	The threshold of IPv6 DHCP flood protection.	Data structure	Members include: • NumberOfPackets • DetectionTime.	N/A
NumberOfPackets	Number of IPv6 DHCP packets allowed to be received within detection time and not judged as an attack.	N/A	Unsigned integer. Value range: 2 to 200. Default: 10.	N/A
DetectionTime	The detection time in milliseconds.	N/A	Unsigned integer. Value range: 1000 to 10000. Default: 5000.	N/A
FloodProtectionAgeTime	The age time of IPv6 DHCP flood protection table items.	N/A	Unsigned integer. Value range: 30 to 600. Default: 300.	N/A
LogEnable	Whether the function of IPv6 DHCP logging is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
RouteLogGlobalEnable	Whether the function of IPv6 DHCP route logging is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
AdvertisePdRoute	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enable the advertise pd-route feature		• **true** • **false** (default)	
IfRateSuppressionThreshold	DHCP packet rate threshold that triggers DHCP flood attack protection	Data structure	Members include: • NumberOfPackets • DetectionTime	N/A
NumberOfPackets	Maximum number of DHCP packets received on an interface	N/A	Unsigned integer. Value range: 2 to 6000. Default: 3000.	N/A
DetectionTime	Interface-based DHCP attack detection duration	N/A	Unsigned integer. Value range: 1000 to 10000 milliseconds. Default: 5000.	N/A
IfRateSuppressionThresholdAgeTime	Aging time of interface-based DHCP attack suppression entries	N/A	Unsigned integer. Value range: 30 to 600 seconds. Default: 300.	N/A
DuidMismatcOffline	Whether to enable the DUID-mismatch offline feature	N/A	Boolean: • **True** • **false** (default)	N/A
MultiIpPerMacEnable	Whether to enable allocation of different IP addresses to DHCP clients with the same MAC address	N/A	Boolean: • **true** • **false** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Unr	Configuration of IPv6 UNR	Data structure	Members include: • FramedIpv6AddressTag • FramedIpv6PrefixTag • FramedIpv6RouteTag • LocalPoolTag • RemotePoolTag	N/A
FramedIpv6AddressTag	UNR tag value for host routes generated based on the Framed-IPv6-Address attribute assigned by the RADIUS server	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
FramedIpv6PrefixTag	UNR tag value for host routes generated based on the Framed-IPv6-Prefix attribute assigned by the RADIUS server	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
FramedIpv6RouteTag	UNR tag value for network routes generated based on the Framed-Routing attribute assigned by the RADIUS server	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
LocalPoolTag	UNR tag value for local BAS IPv6 pools	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 0.	
RemotePoolTag	UNR tag value for remote BAS IPv6 pools	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 0.	N/A
EntryConvertEnable	Whether the function of IPv6 DHCP entry convert is enabled	N/A	Boolean: • **True** • **false** (default)	N/A
AdvertiseAddressRoute	Whether the function of IPv6 DHCP advertise address route is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
RelayMacForwardEnable	Whether the function of IPv6 DHCP relay mac forward is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
RelayMacForwardBroadcastEnable	Whether the function of IPv6 DHCP relaymac forward broadcast is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
ConflictIpv6Offline	Whether to enable the IPv6 conflicting user offline feature.	N/A	Boolean: • true false (default)	N/A
DHCP6DUID	DHCP unique identifier.The	N/A	String, uncase-insensitive. Length: 8 to 28 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	value is an even hexadecimal number in the range of 8 to 28.			
DHCP6RateLimit	Set a limit on the receiving rate of DHCPv6 packets from users	N/A	Unsigned integer. Value range: 1 to 500000000.	With this feature enabled, the device will drop DHCPv6 packets that exceed the limit.
TrapAddressExhaust	Whether to enable SNMP notifications for IP pool exhaustion or recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapIpInUse	Whether to enable SNMP notifications for IP pool usage threshold violation and recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapPdExhaust	Whether to enable SNMP notifications for prefix pool exhaustion or recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapPdInUse	Whether to enable SNMP	N/A	Boolean: • **true** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	notifications for prefix pool usage threshold violation and recovery.		• **false**	

DHCP6/DHCP6ServerPoolStaticAddress

This table contains IPv6 DHCP server pool static address information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticAddress>
    <PoolStaticAddress>
      <PoolIndex></PoolIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
      <Description></Description>
    </PoolStaticAddress>
  </DHCP6ServerPoolStaticAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticAddress
Table type	Multi-instance table
Row name	PoolStaticAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.	If you do not specify an IAID, the server does not match the client IAID for prefix assignment.
PreferLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800	The preferred lifetime can't be longer than the valid lifetime.
ValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	N/A
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DHCP6/DHCP6ServerPoolStaticPrefix

This table contains IPv6 DHCP server pool static prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticPrefix>
    <PoolStaticPrefix>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
      <Description></Description>
    </PoolStaticPrefix>
  </DHCP6ServerPoolStaticPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticPrefix
Table type	Multi-instance table
Row name	PoolStaticPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Ipv6PrefixLength	
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.	If you do not specify an IAID, the server does not match the client IAID for prefix assignment.
PreferLifetime	The preferred lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800	The preferred lifetime can't be longer than the valid lifetime.
ValidLifetime	The valid lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	N/A
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DHCP6/DHCP6RelaySrvAddress

This table contains IPv6 DHCP relay server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelaySrvAddress>
    <RelaySrvIPv6>
```

```
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <OutIfIndex></OutIfIndex>
      <Public></Public>
      <Vpn-Instance></Vpn-Instance>
    </RelaySrvIPv6>
  </DHCP6RelaySrvAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySrvAddress
Table type	Multi-instance table
Row name	RelaySrvIPv6
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Address	IPv6 DHCP DHCP servers IPv6 address on the IPv6 DHCP relay agent.	Index	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multi-cast address are invalid addresses.

Column name	Column description	Column type	Data type and restrictions	Remarks
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.	If a IPv6 DHCP server address is a link-local address, you must specify an outgoing interface
Public	DHCP servers belonging to the public network	Index	Boolean: • **True** • **false**.	N/A
Vpn-Instance	The vpn instance for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	String, case sensitive. Length: 1 to 31 characters.	N/A

DHCP6/ DHCP6PrefixPool

This table contains IPv6 DHCP prefix pool configuration information.

XML structure

```
<DHCP6>
  <DHCP6PrefixPool>
    <PrefixPool>
      <VRF></VRF>
      <PrefixPoolNumber></PrefixPoolNumber>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <AssignIpv6PrefixLength></AssignIpv6PrefixLength>
      <PrefixNum></PrefixNum>
    </PrefixPool>
  </DHCP6PrefixPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixPool
Table type	Multi-instance table
Row name	PrefixPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the prefix pool is on the public network, the length of characters is 0.
PrefixPoolNumber	Prefix pool number	Index	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	N/A	Hexadecimal string, colon-separated.	Required when create a new row, can not be deleted.
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted.
AssignIpv6PrefixLength	Length of the assigned IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted. The value can't be shorter than Ipv6PrefixLength. The difference between

Column name	Column description	Column type	Data type and restrictions	Remarks
				AssignIpv6PrefixLength and Ipv6PrefixLength can't be greater than 16.
PrefixNum	Prefix number	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

DHCP6/DHCP6If

This table contains IPv6 DHCP config information on interface.

XML structure

```
<DHCP6>
  <DHCP6If>
    <IfConfigure>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <ServerAllowHint></ServerAllowHint>
      <ServerRapidCommit></ServerRapidCommit>
      <ServerPreference></ServerPreference>
      <ApplyPoolName></ApplyPoolName>
      <ApplyPoolAllowHint></ApplyPoolAllowHint>
      <ApplyPoolRapidCommit></ApplyPoolRapidCommit>
      <ApplyPoolPreference></ApplyPoolPreference>
      <RelayInterfaceIDMode></RelayInterfaceIDMode>
      <RelayGatewayAddress></RelayGatewayAddress>
      <RelayClientLinkAddressEnable></RelayClientLinkAddressEnable>
      <RequestFromTunneIDiscard></RequestFromTunneIDiscard>
      <RelaySourceAddress>
        <IPv6Address></IPv6Address>
        <Interface></Interface>
      </RelaySourceAddress>
      <ClientDetect></ClientDetect>
      <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
      <SessionMismatchAction></SessionMismatchAction>
      <FloodProtectionEnable></FloodProtectionEnable>
      <IfRateSuppressionEnable></IfRateSuppressionEnable>
      <ApplyPolicy></ApplyPolicy>
      <ClientInfoRecord></ClientInfoRecord>
      <SessionMismatchAction></SessionMismatchAction>
      <RelayReleaseAgent></RelayReleaseAgent>
      <RemoteServerAlgorithm></RemoteServerAlgorithm>
```

```
      <NonFirstHopEnable></NonFirstHopEnable>
    </IfConfigure>
  </DHCP6If>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6If
Table type	Multi-instance table
Row name	IfConfigure
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns for B70

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Mode	DHCPv6 mode	N/A	Enumeration: • **0**—None(default). • **1**—Server. • **2**—Relay.	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: • **true** • **false**(default).	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: • **true** • **false**(default).	N/A
ServerPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	N/A
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: • **true** • **false**(default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolRapidCommit	Enable the rapid commit function.	N/A	Boolean: • **true** • **false**(default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
RelayInterfaceIDMode	IPV6 Interface-Id Option	N/A	Enumeration: • **0**—None(default). • **1**—Bas. • **2**—Interface.	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—User Mac.	of the interface.
RelayGatewayAddress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A
RelayClientLinkAddressEnable	Enable DHCPv6 relay support to add option 79	N/A	Boolean: • **True** • **false**(default)	N/A
RequestFromTunneIDiscard	Configure DHCP relay drop received from vxlan tunnel	N/A	Boolean: • **true** • **false**(default)	N/A
RelaySourceAddress	Specify the source address of message forwarded by DHCPv6 relay to DHCPv6 server	Data structure	Members include: • IPv6Address • Interface	N/A
IPv6Address	Specify the IPv6 address as the source address of the message sent to DHCPv6 server	N/A	Hexadecimal string, Colon separated.	N/A
Interface	Specify IPv6 address of the interface as the source address of the message sent to DHCPv6 server	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
ClientDetect	Enabling status of client offline detection	N/A	Boolean: • **true** • **false** (default)	N/A
DiscardReqFromTnlEnable	Support for discarding request packet from	N/A	Boolean: • **true** • **false** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	tunnels by the DHCP relay agent			
SessionMismatchAction	Configuration of DHCPv6 session-mismatch action	N/A	Enumeration: • **0**—Drop. (default). • **1**—Fast-renew	N/A
FloodProtectionEnable	DHCPv6 flood attack prevention	N/A	Boolean: • **True** • **false**(default)	N/A
IfRateSuppressionEnable	DHCPv6 interface attack suppression	N/A	Boolean: • **true** • **false**(default)	N/A
ApplyPolicy	DHCPv6 policy referenced by the interface	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ClientInfoRecord	DHCPv6 relay entry recording function	N/A	Boolean: • **true** • **false**(default)	N/A
SessionMismatchAction	Processing method of DHCPv6 request sent by online users whose physical location changes and MAC address remains unchanged by DHCPv6 device	N/A	Enumeration: • **0**—Invalid(default) • **1**—Roam • **2**—Fastrenew • **3**—All	N/A
RelayReleaseAgent	Notify DHCPv6 server to release lease when clearing relay entries	N/A	Boolean: • **True** • **false**(default)	Only when the device is configured to work in DHCPv6 relay mode, and the DHCPv6 relay entry recording is enabled, can the lease release function of DHCPv6 server be notified when the relay

Column name	Column description	Column type	Data type and restrictions	Remarks
				entries are cleared

Columns for B75

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Mode	DHCPv6 mode	N/A	Enumeration: • **0**—None (default). • **1**—Server. • **2**—Relay.	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes	N/A	Boolean: • **true** • **false**(default).	N/A
ServerRapidCommit	Enabling status of the rapid commit function	N/A	Boolean: • **true** • **false** (default).	N/A
ServerPreference	Server preference	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and prefixes	N/A	Boolean: • **true** • **false**(default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolRapidCommit	Enabling status of the rapid commit function	N/A	Boolean: • **true** • **false** (default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Server preference	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
RelayInterfaceIDMode	IPV6 Interface-ID Option	N/A	Enumeration: • 0—None(default). • 1—Bas. • **2**—Interface. • 3—Cn-telecom • 4—Tr-101	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index of the interface.
RelayGatewayAddress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A
ClientDetect	Enabling status of client offline detection	N/A	Boolean: • **true** • **false** (default)	N/A
DiscardReqFromTnlEnable	Support for discarding request packet from tunnels by the	N/A	Boolean: • **true** • **false** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DHCP relay agent			
SessionMismatchAction	Configuration of DHCPv6 session-mismatch action	N/A	Enumeration: • **0**—Drop (default). • **1**—Fast-renew	N/A
RemoteServerAlgorithm	Specify a DHCPv6 server selection algorithm when the device acts as a DHCPv6 relay agent	N/A	Enumeration: • **0**—Polling algorithm (default). • 1—Master-backup algorithm.	To forward a DHCPv6 request to all DHCPv6 servers, use the polling algorithm. To forward a DHCPv6 request to the master DHCPv6 server first and then to a backup DHCPv6 server only when the master server is not available, use the master-backup algorithm.
NonFirstHopEnable	Whether to enable non-first-hop DHCPv6 relay	N/A	Boolean: • **true** • **false** (default)	For access authentication to take effect, you must enable this feature on the relay agent.

DHCP6/DHCP6ServerPoolOption

This table contains IPv6 DHCP server pool option information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolOption>
    <PoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </PoolOption>
  </DHCP6ServerPoolOption>
```

```
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolOption
Table type	Multi-instance table
Row name	PoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535	Following values of OptionCode are forbidden: 25,26,37 to 40 and 43 to 48
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted.Lenth of OptionValueHex must be an even number.

DHCP6/DHCP6ServerClass

This table contains DHCPv6 server class information.

XML structure

```
<DHCP6>
  <DHCP6ServerClass>
    <ServerClass>
      <ClassName></ClassName>
      <RuleNumber></RuleNumber>
      <RuleType></RuleType>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueMask></OptionValueMask>
      <OptionOffset></OptionOffset>
      <OptionLen></OptionLen>
      <OptionPartial></OptionPartial>
      <LinkAddr></LinkAddr>
    </ServerClass>
  </DHCP6ServerClass>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClass
Table type	Multi-instance table
Row name	ServerClass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleNumber	Rule number	Index	Unsigned integer. Value range: 1 to 16.	N/A

RuleType	Match mode	Index	Enumeration: • **2**—option • **3**—relay-agent	N/A
OptionCode	DHCPv6 option code	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
OptionValueHex	Specify the option content to be matched in the hexadecimal format	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 256 characters.	N/A
OptionValueAscii	Specify the option content to be matched in the ASSCII format	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
OptionValueMask	Specify the mask	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionOffSet	Specify the offset	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
OptionLen	Specify the string length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
OptionPartial	Enable partial match	N/A	Boolean: • true. • false (default).	N/A
LinkAddr	Link address	N/A	String, dotted decimal notation.	N/A

DHCP6/DHCP6ServerForbiddenPrefix

This table contains DHCPv6 server forbidden prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerForbiddenPrefix>
    <ForbiddenPrefix>
      <VRF></VRF>
      <StartPrefix></StartPrefix>
      <StartPrefixLen></StartPrefixLen>
```

```
      <EndPrefix></EndPrefix>
      <EndPrefixLen></EndPrefixLen>
    </ForbiddenPrefix>
  </DHCP6ServerForbiddenPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerForbiddenPrefix
Table type	Multi-instance table
Row name	ForbiddenPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the IPv6 pool is on the public network, the character length is 0
StartPrefix	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
StartPrefixLen	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
EndPrefix	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	When sending the end address immediately, the end address is higher than or equal to the start address.
EndPrefixLen	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	The prefix lengths of the start prefix and the end prefix should be the same.

DHCP6/DHCP6ServerPolicy/ClassPolicy

This table contains information about the DHCPv6 server policy.

XML structure

```
<DHCP6>
  <DHCP6ServerPolicy>
    <ServerPolicy>
      <PolicyName></PolicyName>
      <DefaultIpPool></DefaultIpPool>
      <ClassPolicys>
        <ClassPolicy>
          <Class></Class>
          <IpPool></IpPool>
        </ClassPolicy>
      </ClassPolicys>
    </ServerPolicy>
  </DHCP6ServerPolicy>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPolicy
Table type	Multi-instance table, multi-level table
Row name	ServerPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DHCP policy name	Index	String, case-insensitive. Length: 1 to 63	Required when you create a new row. The name

			characters.	cannot be modified.
DefaultIpPool	Default IP pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassPolicys	N/A	Data structure	Members include: • Class • IpPool	SubTable
Class	DHCP6 class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpPool	IP pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP6/DHCP6Vsi

This table contains the VSI configuration of DHCP.

XML structure

```
<DHCP6>
  <DHCP6Vsi>
    <Vsi>
      <VsiName></VsiName>
      <FloodProtectionEnable></FloodProtectionEnable>
    </Vsi>
  </DHCP6Vsi>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Vsi
Table type	Multi-instance table
Row name	Vsi
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
FloodProtectionEnable	Enabling status of DHCP flood protection	N/A	Boolean: • **True** • **False** (default).	N/A

DHCP6/DHCP6ServerPoolGroup

This table contains DHCPv6 address pool group information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolGroup>
    <PoolGroup>
      <GroupName></GroupName>
      <vpn></vpn>
      <Pools>
        <Pool>
          <PoolName></PoolName>
```

```
        <Priority></Priority>
      </Pool>
    </Pools>
    <Ipv6PoolAlgorithmRoundRobinLocal></Ipv6PoolAlgorithmRoundRobinLocal>
    <Ipv6PoolAlgorithmRoundRobinRemote></Ipv6PoolAlgorithmRoundRobinRemote>
    <PoolGroupExhaustionTrapEnable></PoolGroupExhaustionTrapEnable>
    <PoolGroupExhaustionLogEnable></PoolGroupExhaustionLogEnable>
    <IpInUseThreshold></IpInUseThreshold>
  </PoolGroup>
 </DHCP6ServerPoolGroup>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolGroup
Table type	Multi-instance table, multi-level table
Row name	PoolGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
GroupName	DHCPv6 address pool group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
vpn	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the DHCPv6 address pool is on the public

				network, the length of characters is 0.
PoolName	DHCPv6 address pool name	Sublist	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
Priority	DHCPv6 address pool priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	N/A
Ipv6PoolAlgorithmRoundRobinLocal	DHCPv6 pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
Ipv6PoolAlgorithmRoundRobinRemote	DHCPv6 pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
PoolGroupExhaustionTrapEnable	Whether the SNMP notification about IPv6 pool group exhaustion is enabled	N/A	Boolean: • **True** • **false**(default)	N/A
PoolGroupExhaustionLogEnable	Whether IPv6 pool group exhaustion logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInUseThreshold	The warning rate of used ipv6 address in dhcp pool group	N/A	Unsigned integer. Value range: 0 to 100.	N/A

DHCP6/DHCP6ServerForbiddenIpv6

This table contains information about IPv6 addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerForbiddenIpv6>
    <ForbiddenIpv6>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
    </ForbiddenIpv6>
  </DHCP6ServerForbiddenIpv6>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerForbiddenIpv6
Table type	Multi-instance table
Row name	ForbiddenIpv6
Restrictions	None
Support for row creation and deletion	Yes

Columns

DHCP6/DHCP6RelayMacFowardEnable

This table contains information about whether the DHCPv6 relay supports forwarding ACK or OFFER packet by MAC address.

XML structure

```
<DHCP6>
  <DHCP6RelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
```

```
      <MacBroadCast></MacBroadCast>
    </RelayMacForwardEnable>
  </DHCP6RelayMacFowardEnable>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayMacFowardEnable
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RelayMacForwardEnable	The configuration of the RelayMacForwardEnable	Data structure	Members include: • MacEnable • MacBroadCast	N/A
MacEnable	Whether enable MAC forwarding	N/A	Boolean: • **true** • **false** (default)	If MAC forwarding is enabled, DHCPv6 server OFFER or ACK packet will be forwarded via unicast.
MacBroadCast	Whether enable MAC broadcasting	N/A	Boolean: • **true** • **false** (default)	It must be configured with MacEnable and the value for MacEnable must be true.

DHCP6/DHCP6RelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP6 relay agent.

XML structure

```
<DHCP6>
  <DHCP6RelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <SourceIfIndex></SourceIfIndex>
    </RelaySrcAddr>
  </DHCP6RelaySourceAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Address	Source IP addresses of the	N/A	Hexadecimal string, colon-separated.	Ipv6Address and sourceIfIndex cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets sent by the DHCP6 relay agent			set at the same time.
SourceIfIndex	The source interface for the DHCP6 relay agent	N/A	Unsigned integer.	Ipv6Address and sourceIfIndex cannot be set at the same time.

DHCP6/DHCP6ServerPoolForbiddenAddress

This table contains information about IPv6 addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolForbiddenAddress>
    <PoolForbiddenAddress>
      <PoolIndex></PoolIndex>
      <StartAddress></StartAddress>
      <EndAddress></EndAddress>
    </PoolForbiddenAddress>
  </DHCP6ServerPoolForbiddenAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolForbiddenAddress
Table type	Multi-instance table
Row name	PoolForbiddenAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
StartAddress	Start IPv6 address of an IPv6 address range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	N/A
EndAddress	End IPv6 address of an IPv6 address range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	The value for end-address cannot be lower than that for start-address.

DHCP6/DHCP6ServerPoolForbiddenPrefix

This table contains information about IPv6 prefixes excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolForbiddenPrefix>
    <PoolForbiddenPrefix>
      <PoolIndex></PoolIndex>
      <StartPrefix></StartPrefix>
      <StartPrefixLen></StartPrefixLen>
      <EndPrefix></EndPrefix>
      <EndPrefixLen></EndPrefixLen>
    </PoolForbiddenPrefix>
  </DHCP6ServerPoolForbiddenPrefix>
```

```
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolForbiddenPrefix
Table type	Multi-instance table
Row name	PoolForbiddenPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
StartPrefix	Start IPv6 prefix of an IPv6 prefix range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	
StartPrefixLen	Length of the StartPrefix	Index	Unsigned integer Value range: 1 to 128.	N/A
EndPrefix	End IPv6 prefix of an IPv6 prefix range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	The value for end-prefix cannot be lower than that for start-prefix.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndPrefixLen	Length of the EndPrefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

DHCP6/DHCP6RelayServerInfo

This table contains the configuration for remote DHCPv6 server liveness detection.

XML structure

```
<DHCP6>
  <DHCP6RelayServerInfo>
    <RelayServerInfo>
      <Vpn></Vpn>
      <ServerIp></ServerIp>
      <DeadCount></DeadCount>
      <DeadTime></DeadTime>
      <TimeOut></TimeOut>
    </RelayServerInfo>
  </DHCP6RelayServerInfo>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayServerInfo
Table type	Multi-instance table
Row name	RelayServerInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Vpn	VPN (or VRF) instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If a VPN instance is not specified, the public network is specified
ServerIp	IPv6 address of a DHCPv6 server	Index	Hexadecimal string, colon-separated.	If no value is specified for ServerIp, all remote DHCPv6 servers are specified.
DeadCount	The maximum number of consecutive communication failures before the relay agent marks a DHCPv6 server as down	N/A	Unsigned integer Value range: 1 to 64 Default: 0.	N/A
DeadTime	The amount of time that the DHCPv6 relay agent must wait before it can send requests to the server after the server was marked as down	N/A	Unsigned integer Value range: 1 to 65536 Default:3.	N/A
TimeOut	The maximum interval that the DHCPv6 relay agent waits for the response to a request sent to the remote DHCPv6 server	N/A	Unsigned integer. Value range: 1 to 60 Default:55.	N/A

DHCP6/DHCP6ServerPoolVendorSpecific

This table contains the configuration for DHCPv6 Option17.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolVendorSpecific>
    <PoolVendorSpecific>
      <PoolIndex></PoolIndex>
      <EnterpriseNumber></EnterpriseNumber>
      <SubOptionInfos>
        <SubOptionInfo>
          <SubOptionCode></SubOptionCode>
          <SubOptionValueHex></SubOptionValueHex>
          <SubOptionValueAscii></SubOptionValueAscii>
          <SubOptionValueIpv6></SubOptionValueIpv6>
        </SubOptionInfo>
      </SubOptionInfos>
    </PoolVendorSpecific>
  </DHCP6ServerPoolVendorSpecific>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolVendorSpecific
Table type	Multi-instance table
Row name	PoolVendorSpecific
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	N/A	Index	Unsigned integer.	For the merge, create and replace operations, 0

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 1024.	means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
EnterpriseNumber	Vendor ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
SubOptionInfos	N/A	Data structure	Members include: • SubOptionCode • SubOptionValueHex • SubOptionValueAscii • SubOptionValueIpv6	SubTable
SubOptionCode	DHCPv6 vendor-specific suboption code	Index	Unsigned integer. Value range: 1～65535	N/A
SubOptionValueHex	Specify a hexadecimal string as the option content	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 128 characters.	N/A
SubOptionValueAscii	Specify an ASCII string as the option content	N/A	String. Length: 1 to 64 characters.	N/A
SubOptionValueIpv6	Specify IPv6 addresses as the option content	N/A	String. Length: 1 to 159 characters.	N/A

Contents

DHCP6 1

DHCP6/DHCP6ServerDatabase 1
XML structure 1
Table description 1
Columns 1
DHCP6/DHCP6ServerIpPool 2
XML structure 2
Table description 4
Columns 5
DHCP6/DHCP6OptionGroup 18
XML structure 18
Table description 19
Columns 19
DHCP6/DHCP6OptionGroupOption 20
XML structure 20
Table description 20
Columns 21
DHCP6/DHCP6RelayPoolRemoteServer 21
XML structure 21
Table description 21
Columns 22
DHCP6/DHCP6Config 22
XML structure 22
Table description 23
Columns 24
DHCP6/DHCP6ServerPoolStaticAddress 29
XML structure 29
Table description 29
Columns 30
DHCP6/DHCP6ServerPoolStaticPrefix 30
XML structure 30
Table description 31
Columns 31
DHCP6/DHCP6RelaySrvAddress 32
XML structure 32
Table description 32
Columns 33
DHCP6/DHCP6PrefixPool 33
XML structure 33
Table description 34
Columns 34
DHCP6/DHCP6If 35
XML structure 35
Table description 36
Columns for B70 36
Columns for B75 39
DHCP6/DHCP6ServerIpInUse 42
XML structure 42
Table description 42
Columns 43
DHCP6/DHCP6ServerPDInUse 43
XML structure 44
Table description 44
Columns 44
DHCP6/ DHCP6ServerPoolOption 45
XML structure 45
Table description 46

Columns ····· 46
DHCP6/DHCP6ServerClass ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
DHCP6/DHCP6ServerForbiddenPrefix ····· 48
XML structure ····· 48
Table description ····· 49
Columns ····· 49
DHCP6/DHCP6ServerPolicy/ClassPolicy ····· 49
XML structure ····· 50
Table description ····· 50
Columns ····· 50
DHCP6/DHCP6Vsi ····· 51
XML structure ····· 51
Table description ····· 51
Columns ····· 52
DHCP6/DHCP6ServerPoolGroup ····· 52
XML structure ····· 52
Table description ····· 53
Columns ····· 53
DHCP6/DHCP6ServerForbiddenIpv6 ····· 54
XML structure ····· 54
Table description ····· 55
Columns ····· 55
DHCP6/DHCP6RelayMacFowardEnable ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
DHCP6/DHCP6RelaySourceAddress ····· 56
XML structure ····· 57
Table description ····· 57
Columns ····· 57
DHCP6/DHCP6ServerPoolForbiddenAddress ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 59
DHCP6/DHCP6ServerPoolForbiddenPrefix ····· 59
XML structure ····· 59
Table description ····· 60
Columns ····· 60
DHCP6/DHCP6ServerPoolStatistics ····· 61
XML structure ····· 61
Table description ····· 62
Columns ····· 62
DHCP6/DHCP6RelayServerInfo ····· 64
XML structure ····· 64
Table description ····· 64
Columns ····· 64
DHCP6/DHCP6ServerPoolGroupStatistics ····· 65
XML structure ····· 65
Table description ····· 66
Columns ····· 66
DHCP6/DHCP6ServerPoolVendorSpecific ····· 68
XML structure ····· 68
Table description ····· 69
Columns ····· 69

DHCP6

DHCP6/DHCP6ServerDatabase

This table contains IPv6 DHCP server database information.

XML structure

```
<DHCP6>
  <DHCP6ServerDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCP6ServerDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Object file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string	N/A	String. case-sensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String. case-sensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 32 characters.
Password	FTP password	N/A	String. case-sensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds.

DHCP6/DHCP6ServerIpPool

This table contains IPv6 DHCP server pool information.

XML structure

```
<DHCP6>
  <DHCP6ServerIpPool>
    <Pool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <Network>
        <NetworkIpv6Address></NetworkIpv6Address>
        <NetworkIpv6PrefixLength></NetworkIpv6PrefixLength>
        <NetworkPreferLifetime></NetworkPreferLifetime>
        <NetworkValidLifetime></NetworkValidLifetime>
        <NetworkExportRoute></NetworkExportRoute>
        <NetworkPreference></NetworkPreference>
        <NetworkTag></NetworkTag>
        <NetworkPrefixNumber></NetworkPrefixNumber>
        <NetworkSubPrefixAddress></NetworkSubPrefixAddress>
        <NetworkSubPrefixLength></NetworkSubPrefixLength>
      </Network>
      <Range>
        <StartIpv6Address></StartIpv6Address>
        <EndIpv6Address></EndIpv6Address>
        <RangePreferLifetime></RangePreferLifetime>
        <RangeValidLifetime></RangeValidLifetime>
      </Range>
      <TempRange>
        <TempStartIpv6Address></TempStartIpv6Address>
        <TempEndIpv6Address></TempEndIpv6Address>
        <TempRangePreferLifetime></TempRangePreferLifetime>
        <TempRangeValidLifetime></TempRangeValidLifetime>
      </TempRange>
```

```
<PrefixPool>
  <PrefixPoolNumber></PrefixPoolNumber>
  <PrefixPoolPreferLifetime></PrefixPoolPreferLifetime>
  <PrefixPoolValidLifetime></PrefixPoolValidLifetime>
  <PrefixPoolExportRoute></PrefixPoolExportRoute>
  <PrefixPoolPreference></PrefixPoolPreference>
  <PrefixPoolTag></PrefixPoolTag>
</PrefixPool>
<DomainName></DomainName>
<GatewayIpv6Address></GatewayIpv6Address>
<DNSIpv6Address></DNSIpv6Address>
<SIPIpv6Address></SIPIpv6Address>
<SIPDomainName></SIPDomainName>
<ExportAddressHostRoute></ExportAddressHostRoute>
<ExportNdPrefixHostRoute></ExportNdPrefixHostRoute>
<ExportPdPrefixHostRoute></ExportPdPrefixHostRoute>
<AddressAllocMode></AddressAllocMode>
<AftrName></AftrName>
<AllocateNewIp></AllocateNewIp>
<DhcpRelaySource>
  <SourceType></SourceType>
  <IpAddress></IpAddress>
  <interface></interface>
</DhcpRelaySource>
<OptionGroup></OptionGroup>
</RemoteServers>
<ReserveExpiredIp>
  <Enable></Enable>
  <Mode></Mode>
  <Limit><Limit>
  <Time><Time>
</ReserveExpiredIp>
<ReserveExpiredPd>
  <Enable></Enable>
  <Mode></Mode>
  <Limte></Limit>
  <Time></Time>
</ReserveExpiredPd>
<UnrTag></UnrTag>
<VirtualDuid>
  <EnterpriseNum></EnterpriseNum>
  <Identifier></Identifier>
  <HardwareType></HardwareType>
  <Address></Address>
<VirtualDuid>
<VsrpInstance></VsrpInstance>
<PoolType></PoolType>
<DynamicAddressAllocMode></DynamicAddressAllocMode>
```

```
      <DynamicAddressAllocAssignLength></DynamicAddressAllocAssignLength>
      <DynamicAddressIdleTime></DynamicAddressIdleTime>
      <DynamicPrefixAllocMode></DynamicPrefixAllocMode>
      <DynamicPrefixAggregateLength></DynamicPrefixAggregateLength>
      <DynamicPrefixIdleTime></DynamicPrefixIdleTime>
      <DynamicExportRouteDisable></DynamicExportRouteDisable>
      <DynamicExportRouteAddrPreference></DynamicExportRouteAddrPreference>
      <DynamicExportRouteAddrTag></DynamicExportRouteAddrTag>
      <DynamicExportRoutePrefixPreference></DynamicExportRoutePrefixPreference>
      <DynamicExportRoutePrefixTag></DynamicExportRoutePrefixTag>
      <DynamicPrefixOrigAssignLen></DynamicPrefixOrigAssignLen>
      <DynamicUtilizationMark>
        <High></High>
         <Low></Low>
      <DynamicUtilizationMark>
      <Giaddr></Giaddr>
      <ExhaustionLogEnable></ExhaustionLogEnable>
      <ExhaustionTrapEnable></ExhaustionTrapEnable>
      <RouteLogEnable></RouteLogEnable>
      <IpInuseThreshold></IpInuseThreshold>
      <PdInuseThreshold></PdInuseThreshold>
      <SubnetForceRenew></SubnetForceRenew>
      <Bindings>
        <Binding>
          <UpIfName></UpIfName>
          <BindingUpId></BindingUpId>
          <BindingUpBackupProfile></BindingUpBackupProfile>
          <BindingMasterUpId></BindingMasterUpId>
          <BindingBackupUpId></BindingBackupUpId>
          <BindingRouteRefresh></BindingRouteRefresh>
        </Binding>
        <RemoteServerAlgorithm><RemoteServerAlgorithm>
        <IpSubnetInuseThreshold></IpSubnetInuseThreshold>
        <PdSubnetInuseThreshold></PdSubnetInuseThreshold>
        <ReserveGroupName></ReserveGroupName>
      <Bindings>
      <Ipv6PoolLock></Ipv6PoolLock>
    </Pool>
  </DHCP6ServerIpPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpPool

Table type	Multi-instance table, multi-level table
Row name	Pool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	N/A
PoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Network	The configuration of the IPv6 subnet	Data structure	Members include: • NetworkIpv6Address • NetworkIpv6PrefixLength • NetworkPreferLifetime • NetworkValidLifetime • NetworkExportRoute • NetworkPreference • NetworkTag	N/A
NetworkIpv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	N/A
NetworkIpv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A
NetworkPreferLif	The preferred	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
etime	lifetime of the IPv6 subnet		Value range: 60 to 4294967295.	
NetworkValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
NetworkExportRoute	Wether advertise the subnet assigned to DHCPv6 clients or not.	N/A	Boolean: • **true** • **false**	N/A
NetworkPreference	Preference for the network route to be advertised	N/A	Unsigned integer. Value range: 1 to 255.	N/A
NetworkTag	Tag value for the network route to be advertised	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NetworkPrefixNumber	Number of prefix of IPv6 address segment	N/A	Unsigned integer. Value range: 1 to 1024 Default: 0	N/A
NetworkSubPrefixAddress	Address segment of subprefix of IPv6 address segment	N/A	Hexadecimal string, colon-separated.	It must be configured together with NetworkPrefixNumber.
NetworkSubPrefixLength	Address segment length of subprefix of IPv6 address segment	N/A	Unsigned integer. Value range: 1 to 128. Default: 0	Must be specified with NetworkSubPrefixAddress.
Range	The configuration of the non-temporary IPv6 address range	Data structure	Members include: • StartIpv6Address • EndIpv6Address • RangePreferLifetime • RangeValidLifetime	N/A
StartIpv6Address	The start IPv6	N/A	Hexadecimal string,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		colon-separated.	
EndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
RangePreferLifetime	The preferred lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A .
RangeValidLifetime	The valid lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
TempRange	The configuration of the temporary IPv6 address range	Data structure	Members include: • TempStartIpv6Address • TempEndIpv6Address • TempRangePreferLifetime • TempRangeValidLifetime	N/A
TempStartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempEndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempRangePreferLifetime	The preferred lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
TempRangeValidLifetime	The valid lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
PrefixPool	The configuration of the prefix pool	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	applied in the IPv6 DHCP address pool		• PrefixPoolNumber • PrefixPoolPreferLifetime • PrefixPoolValidLifetime • PrefixPoolExportRoute • PrefixPoolPreference • PrefixPoolTag	
PrefixPoolNumber	Prefix pool number	N/A	Unsigned integer. Value range: 1 to 128	N/A
PrefixPoolPreferLifetime	The preferred lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
PrefixPoolValidLifetime	The valid lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
PrefixPoolExportRoute	Enabling status of advertising prefixes assigned to DHCPv6 clients	N/A	Boolean: • **true** **false**	N/A
PrefixPoolPreference	Preference value	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PrefixPoolTag	Tag value	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
GatewayIpv6Address	Gateway addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
				1::1 2::2.
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example: 1::1 2::2.
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-sensitive. Length: 1 to 407 characters.	Seperated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Example: aa.com bb.com.
ExportAddressHostRoute	Whether the function of export address host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
ExportNdPrefixHostRoute	Whether the function of export nd prefix host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
ExportPdPrefixHostRoute	Whether the function of export pd prefix host route is specified.	N/A	Boolean: • **True** • **False**(default)	N/A
AddressAllocMode	IPv6 Address Allocation Method Configuring IPv6 Address Pool	N/A	Enumeration: • 0-invalid • 1-eui-64 • 2-interface-id	N/A
AftrName	Configure the IPv6	N/A	String,uncase-sensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address pool to assign the AFTR domain name to the DHCPv6 client.		Length: 1 to 63 characters	
AllocateNewIp	Configuring IPv6 address pool to randomly assign new addresses	N/A	Boolean: • True • False(default)	N/A
DhcpRelaySource	Specify the source address of DHCP relay forwarding message to DHCP server	Data structure	Members include: • SourceType • IpAddress • Interface	N/A
SourceType	The Source Address Type of DHCP Relay Forwarding Messages to DHCP Server	N/A	Enumeration: • 0-invalid • 1-gateway • 2-Interface • 3-IpAddress	It must be configured together with ipAddress when the value is 3. It must be configured together with Interface when the value is 2.
OptionGroup	Configure IPv6 address pool reference option group	N/A	Unsigned integer. Value range: 1 to 100.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Ipv6Address	IPv6 DHCP DHCP servers IPv6 address on the IPv6 DHCP relay agent.	Index	Hexadecimal string, colon-separated.	N/A
ReserveExpiredIp	Aging DHCPv6 address lease	Data structure	Members include: • Enable • Mode • Limte • Time	N/A
Eable	DHCPv6 address	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	lease switch		• **True** • **false**	
Mode	DHCPv6 address lease mode	N/A	Enumeration: • 0—CID • 1—MAC • 2—BUTT	N/A
Limte	Maximum number of reserved IPv6 address lease	N/A	Unsigned integer. Value range: 1 to 256000. Default value 256000	N/A
Time	Keep IPv6 addresses the length of the lease	N/A	Unsigned integer. Value range: 60 to 4294967295. Default value 4294967295	N/A
ReserveExpiredPd	The configuration of the expired prefix lease retention mode.	Data structure	Members include: • Enable • Mode • Limte • Time	N/A
Enable	Enable the reserve expired-pd mode function.	N/A	Boolean: • **True** • **false**(default).	N/A
Mode	The mode of reserve expired-pd.	N/A	Enumeration: • **0**—duid(default). • **1**—mac	N/A
Limte	The number of prefix leases.	N/A	Unsigned integer. Value range: 1 to 256000 Default: 256000	N/A
Time	The time of the prefix leases.	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 4294967295	
UnrTag	The tag value of user network route	N/A	Unsigned integer. Value range: 0 to 4294967294. Default: 4294967295	N/A
VirtualDuid	Generate a virtual DUID for the server to use,	Data structure	Members include: • EnterpriseNum • Identifier • HardwareType • Address	N/A
EnterpriseNum	Enterprise number of VirtualDuid.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	It must be configured together with Identifier and cannot be configured with HardwareType or Address.
Identifier	Device identifier of VirtualDuid.	N/A	Hexadecimal string, number is even. Length: 2 to 128 characters.	It must be configured together with EnterpriseNum and cannot be configured with HardwareType or Address.
HardwareType	Hardware types of VirtualDuid.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	It must be configured together with Address and cannot be configured with EnterpriseNum or Identifier
Address	Hardware address of VirtualDuid.	N/A	Hexadecimal string, number is even. Length: 2 to 128 characters.	It must be configured together with HardwareType and cannot be configured with EnterpriseNum or Identifier
VsrpInstance	Use vsrp instance	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to create a VSRP instance and enter its view, or enter the view of an existing VSRP instance.		Length: 1 to 32 characters	
PoolType	The type of a specifies pool	N/A	Enumeration: • 0—normal (default) • **1**—dynamic • 2---ODAP-Client • 3---ODAP-Server • 6—bas local. • 7—bas remote. • 9—odap	N/A
DynamicAddressAllocMode	Dynamic IPv6 address block allocation mode	N/A	Enumeration: • **0**—vxlan-id • **1**—up-id • **3—**interface • 4—up-backup-profile. • 5—interface-physic. • 6—up-backup-profile-route-refresh	The address pool type must be dynamic
DynamicAddressAllocAssignLength	Specify a prefix length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DynamicExportRouteDisable	Disable deploying route for assigned IPv6 address blocks	N/A	Boolean: • **true(default)** • **false**	N/A
DynamicAddressIdleTime	Specify the maximum idle time for IPv6 address blocks	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DynamicPrefixAllocMode	Dynamic IPv6 prefix range allocation mode	N/A	Enumeration: • **0**—vxlan-id • **1**—up-id • 3—interface • 4—up-backup-profile. • 5—interface-physic. • 6—up-backup-profile-route-refresh	N/A
DynamicPrefixAggregateLength	Aggregate assignable IPv6 prefixes based on the length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DynamicPrefixIdleTime	Specify the maximum idle time for IPv6 prefix ranges	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A
DynamicExportRouteAddrPreference	Route preference for IPv6 addresses	N/A	Unsigned integer. Value range: 1 to 255.	N/A
DynamicExportRouteAddrTag	Tag value for IPv6 addresses	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DynamicExportRoutePrefixPreference	Route preference for IPv6 prefixes	N/A	Unsigned integer. Value range: 1 to 255.	N/A
DynamicExportRoutePrefixTag	Tag value for IPv6 prefixes	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DynamicPrefixOrigAssignLen	IPv6 prefix length that the ODAPv6 client uses to assign IPv6 prefix ranges to users.	N/A	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DynamicUtilizationMark	N/A	Data structure	Members include: • High • Low	N/A
High	The high utilization mark in percentage	N/A	Unsigned integer. Value range: 1 to 100. Default:100	N/A
Low	The low utilization mark in percentage	N/A	Unsigned integer. Value range: 0 to 99. Default:50	N/A
ExhaustionLogEnable	IPv6 address or prefix range exhaustion logging is enabled	N/A	Boolean: • **true** • **false**	N/A
ExhaustionTrapEnable	Whether the SNMP notification about IPv6 address pool exhaustion is enabled	N/A	Boolean: • **true** • **false**	N/A
RouteLogEnable	Whether IPv6 pool route logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInuseThreshold	IPv6 address pool usage threshold	N/A	Unsigned integer. Value range: 0 to 100.	N/A
PdInuseThreshold	IPv6 prefix usage threshold	N/A	Unsigned integer. Value range: 0 to 100.	N/A
SubnetForceRenew	Renew information about the subnets allocated to ODAP clients	N/A	Boolean: • **true** • **false**	This column is obsolete. To renew the subnets allocated to ODAP clients, use the SubnetForceRenew column in the DHCP6ServerForceRenewSubNet table, as described in the DHCP6

Column name	Column description	Column type	Data type and restrictions	Remarks
				NETCONF XML API action reference document.
Bindings	N/A	SubTable	Members include: • UpIfName • BindingUpId BindingUpBackupProfile	N/A
Binding	Bind an IPv6 address pool to a UP device	Sublist	N/A	N/A
UpIfName	Interface name.	N/A	String, case sensitive. Length: 1 to 48 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
BindingUpId	Bind the pool to a up-ID	N/A	Unsigned integer. Value range: 1024 to Product customization maximum	N/A
BindingUpBackupProfile	Backup group to which IPV6 address pool belongs	N/A	Unsigned integer. Value range: 1 to 16384.	N/A
BindingMasterUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper limit.	N/A
BindingBackupUpId	Bind the pool to a UP-ID	N/A	Unsigned integer. Value range: 1024 to product-specifc upper	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			limit.	
BindingRouteRefresh	Enable the CP to issue the updated subnet route to UPs after a master-backup switchover in warm backup mode	N/A	Boolean: • **True** • **false** (default)	It must be configured together with BindingUpBackupProfile
RemoteServerAlgorithm	DHCPv6 server selection algorithm when the device acts as a DHCPv6 relay agent	N/A	Enumeration: • **0**—Polling algorithm (default). • **1**—Master-backup algorithm.	If the polling algorithm is used, the relay agent forwards a DHCPv6 request to all DHCPv6 servers. If the master-backup algorithm is used, the relay agent forwards a DHCPv6 request to the master DHCPv6 server first and then to a backup DHCPv6 server only when the master server is not available
IpSubnetInuseThreshold	Subnet usage threshold for the IPv6 address pool, in percentage	N/A	Unsigned integer. Value range: 0 to 100.	N/A
PdSubnetInuseThreshold	Prefix range usage threshold for the IPv6 address pool, in percentage	N/A	Unsigned integer. Value range: 0 to 100.	N/A
ReserveGroupName	UP backup group bound to the IPv6 address pool	N/A	String, dotted decimal notation.	Configure this object to assign reserved IPv6 address users to the specified UP backup group.
Ipv6PoolLock	Whether the IP	N/A	Unsigned integer.	If an IP pool is locked in

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool is locked		Enumeration: • **0**—The IP pool is not locked and can be used for IPv6 (or prefix) assignment and lease renewal. This is the default setting. • **1**—The IP pool is locked in loose mode. • **2**—The IP pool is locked in strict mode.	loose mode, the DHCPv6 server cannot use it for IPv6 address (or prefix) assignment, but it can still renew leases for clients that have been assigned IPv6 addresses (or prefixes) from that pool. Lock an IP pool in strict mode to prevent it from being used for assignment of new IPv6 addresses (or prefixes) or lease renewal.

DHCP6/DHCP6OptionGroup

This table contains IPv6 DHCP option group and self-defined IPv6 DHCP option configuration information.

XML structure

```
<DHCP6>
  <DHCP6OptionGroup>
    <OptionGroup>
      <GroupNumber></GroupNumber>
      <DNSIpv6Address></DNSIpv6Address>
      <DomainName></DomainName>
      <SIPIpv6Address></SIPIpv6Address>
      <SIPDomainName></SIPDomainName>
    </OptionGroup>
  </DHCP6OptionGroup>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroup
Table type	Multi -instance table
Row name	OptionGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	N/A
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
				1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.

DHCP6/DHCP6OptionGroupOption

This table contains self-defined IPv6 DHCP option configuration information.

XML structure

```
<DHCP6>
  <DHCP6OptionGroupOption>
    <GroupOption>
      <GroupNumber></GroupNumber>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </GroupOption>
  </DHCP6OptionGroupOption>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroupOption
Table type	Multi -instance table
Row name	GroupOption

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.

DHCP6/DHCP6RelayPoolRemoteServer

This table contains IPv6 DHCP relay pool remote server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv6Address></RemoteServerIpv6Address>
      <OutIfIndex></OutIfIndex>
      <Public></Public>
      <VpnInstanceName></VpnInstanceName>
    </RemoteServer>
  </DHCP6RelayPoolRemoteServer>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayPoolRemoteServer

Table type	Multi -instance table
Row name	RemoteServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
RemoteServerIpv6Address	IPv6 DHCP server address.	Index	Hexadecimal string, colon-separated.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the DHCPv6 server	Index	Unsigned integer.
Public	IPv6 DHCP servers belong to Public	Index	Boolean: • **true** • **false**
VpnInstanceName	DHCP servers belong to VRF	Index	String. Length: 1 to 31.

DHCP6/DHCP6Config

This table contains IPv6 DHCP DSCP configuration information.

XML structure

```
<DHCP6>
  <DHCP6Config>
    <DSCP></DSCP>
    <FloodProtectionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
```

```
    </FloodProtectionThreshold>
    <FloodProtectionAgeTime></FloodProtectionAgeTime>
    <LogEnable></LogEnable>
    <RouteLogGlobalEnable></RouteLogGlobalEnable>
    <EntryConvertEnable></EntryConvertEnable>
    <AdvertiseAddressRoute></AdvertiseAddressRoute>
    <RelayMacForwardEnable></RelayMacForwardEnable>
    <RelayMacForwardBroadcastEnable></RelayMacForwardBroadcastEnable>
    <AdvertisePdRoute></AdvertisePdRoute>
    <IfRateSuppressionThreshold>
      <NumberOfPackets></NumberOfPackets>
      <DetectionTime></DetectionTime>
    </IfRateSuppressionThreshold>
    <IfRateSuppressionThresholdAgeTime></IfRateSuppressionThresholdAgeTime>
    <DuidMismatcOffline></DuidMismatchOffline>
    <MultiIpPerMacEnable></MultiIpPerMacEnable>
    <Ipv6Unr>
      <FramedIpv6AddressTag></FramedIpv6AddressTag>
      <FramedIpv6PrefixTag></FramedIpv6PrefixTag>
      <FramedIpv6RouteTag></FramedIpv6RouteTag>
      <LocalPoolTag></LocalPoolTag>
      <RemotePoolTag></RemotePoolTag>
    </Ipv6Unr>
    <ConflictIpv6Offline></ConflictIpv6Offline>
    <DHCP6DUID></DHCP6DUID>
    <DHCP6RateLimit></DHCP6RateLimit>
    <TrapAddressExhaust></TrapAddressExhaust>
    <TrapIpInUse></TrapIpInUse>
    <TrapPdExhaust></TrapPdExhaust>
    <TrapPdInUse></TrapPdInUse>
  </DHCP6Config>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	The DSCP value for IPv6 DHCP packets	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FloodProtectionThreshold	Treshold of IPv6 DHCP flood protection.	Data structure	Members include: • NumberOfPackets • DetectionTime.	N/A
NumberOfPackets	Number of IPv6 DHCP packets allowed to be received within detection time and not judged as an attack.	N/A	Unsigned integer. Value range: 2 to 200.	N/A
DetectionTime	Detection time in milliseconds.	N/A	Unsigned integer. Value range: 1000 to 10000.	N/A
FloodProtectionAgeTime	Aging time of IPv6 DHCP flood protection table items.	N/A	Unsigned integer. Value range: 30 to 600.	N/A
LogEnable	Whether the function of IPv6 DHCP logging is enabled	N/A	Boolean: • **true** • **false**	N/A
RouteLogGlobalEnable	Whether the function of IPv6 DHCP route logging is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
EntryConvertEnable	Whether the function of	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 DHCP entry convert is enabled		• **false**	
AdvertiseAddressRoute	Whether the function of IPv6 DHCP advertise address route is enabled	N/A	Boolean: • **true** • **false**	N/A
RelayMacForwardEnable	Whether the function of IPv6 DHCP relay mac forward is enabled	N/A	Boolean: • **true** • **false**	N/A
RelayMacForwardBroadcastEnable	Whether the function of IPv6 DHCP relaymac forward broadcast is enabled	N/A	Boolean: • **true** • **false**	N/A
AdvertisePdRoute	Whether to enable the advertise pd-route feature.	N/A	Boolean: • **true** • **false**	N/A
IfRateSuppressionThreshold	DHCP packet rate threshold that triggers DHCP flood attack protection.	Data structure	Members include: • NumberOfPackets • DetectionTime	N/A
NumberOfPackets	Maximum number of DHCP packets received on an interface.	N/A	Unsigned integer. Value range: 2 to 6000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionTime	Interface-based DHCP attack detection duration.	N/A	Unsigned integer. Value range: 1000 to 10000 milliseconds.	N/A
IfRateSuppressionThresholdAgeTime	Aging time of interface-based DHCP attack suppression entries.	N/A	Unsigned integer. Value range: 30 to 600 seconds.	N/A
DuidMismatcOffline	Whether to enable the duid-mismatch offline feature.	N/A	Boolean: • **True** • **false**	N/A
MultiIpPerMacEnable	Whether to enable allocation of different IP addresses to DHCP clients with the same MAC address.	N/A	Boolean: • **true** • **false**	N/A
Ipv6Unr	Configuration of IPv6 Unr.	Data structure	Members include: • FramedIpv6AddressTag • FramedIpv6PrefixTag • FramedIpv6RouteTag • LocalPoolTag • RemotePoolTag	N/A
FramedIpv6AddressTag	UNR tag value for host routes generated based on the Framed-IPv6-Address attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FramedIpv6PrefixTag	UNR tag value for host routes generated based on the Framed-IPv6-Prefix attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
FramedIpv6RouteTag	UNR tag value for network routes generated based on the Framed-Routing attribute assigned by the RADIUS server.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalPoolTag	UNR tag value for local BAS IPv6 pools.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
RemotePoolTag	UNR tag value for remote BAS IPv6 pools.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
ConflictIpv6Offline	Whether to enable the IPv6 conflicting user offline feature.	N/A	Boolean: • **True** • **false**	N/A
DHCP6DUID	DHCP unique identifier.The value is an even hexadecimal	N/A	String, uncase-insensitive. Length: 8 to 28 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number in the range of 8 to 28.			
DHCP6RateLimit	Set a limit on the receiving rate of DHCPv6 packets from users	N/A	Unsigned integer. Value range: 1 to 500000000.	With this feature enabled, the device will drop DHCPv6 packets that exceed the limit.
TrapAddressExhaust	Whether to enable SNMP notifications for IP pool exhaustion or recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapIpInUse	Whether to enable SNMP notifications for IP pool usage threshold violation and recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapPdExhaust	Whether to enable SNMP notifications for prefix pool exhaustion or recovery.	N/A	Boolean: • **true** (default) • **false**	N/A
TrapPdInUse	Whether to enable SNMP notifications for prefix pool usage	N/A	Boolean: • **true** (default) • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	threshold violation and recovery.			

DHCP6/DHCP6ServerPoolStaticAddress

This table contains IPv6 DHCP server pool static address information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticAddress>
    <PoolStaticAddress>
      <PoolIndex></PoolIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
      <Description></Description>
    </PoolStaticAddress>
  </DHCP6ServerPoolStaticAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticAddress
Table type	Multi-instance table
Row name	PoolStaticAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.

DHCP6/DHCP6ServerPoolStaticPrefix

This table contains IPv6 DHCP server pool static prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticPrefix>
    <PoolStaticPrefix>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <DUID></DUID>
```

```
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
      <Description></Description>
    </PoolStaticPrefix>
  </DHCP6ServerPoolStaticPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticPrefix
Table type	Multi-instance table
Row name	PoolStaticPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.

Column name	Column description	Column type	Data type and restrictions
PreferLifetime	The preferred lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	The valid lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.
Description	Description of the static binding	N/A	String, case insensitive. Length: 1 to 255 characters.

DHCP6/DHCP6RelaySrvAddress

This table contains IPv6 DHCP relay server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelaySrvAddress>
    <RelaySrvIPv6>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <OutIfIndex></OutIfIndex>
      <Public></Public>
      <Vpn-Instance></Vpn-Instance>
    </RelaySrvIPv6>
  </DHCP6RelaySrvAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySrvAddress
Table type	Multi-instance table
Row name	RelaySrvIPv6
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
Ipv6Address	IPv6 DHCP DHCP servers IPv6 address on the IPv6 DHCP relay agent.	Index	Hexadecimal string, colon-separated.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.
Public	DHCP servers belonging to the public network	Index	Boolean: • **True** • **false**.
Vpn-Instance	The vpn instance for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	String, case sensitive. Length: 1 to 31 characters.

DHCP6/DHCP6PrefixPool

This table contains IPv6 DHCP prefix pool configuration information.

XML structure

```
<DHCP6>
  <DHCP6PrefixPool>
    <PrefixPool>
      <VRF></VRF>
      <PrefixPoolNumber></PrefixPoolNumber>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <AssignIpv6PrefixLength></AssignIpv6PrefixLength>
      <PrefixNum></PrefixNum>
    </PrefixPool>
  </DHCP6PrefixPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixPool
Table type	Multi-instance table
Row name	PrefixPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the prefix pool is on the public network, the length of characters is 0.
PrefixPoolNumber	Prefix pool number	Index	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AssignIpv6PrefixLength	Length of the assigned IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A
PrefixNum	Prefix number	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

DHCP6/DHCP6If

This table contains IPv6 DHCP config information on interface.

XML structure

```
<DHCP6>
  <DHCP6If>
    <IfConfigure>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <ServerAllowHint></ServerAllowHint>
      <ServerRapidCommit></ServerRapidCommit>
      <ServerPreference></ServerPreference>
      <ApplyPoolName></ApplyPoolName>
      <ApplyPoolAllowHint></ApplyPoolAllowHint>
      <ApplyPoolRapidCommit></ApplyPoolRapidCommit>
      <ApplyPoolPreference></ApplyPoolPreference>
      <RelayInterfaceIDMode></RelayInterfaceIDMode>
      <RelayGatewayAddress></RelayGatewayAddress>
      <RelayClientLinkAddressEnable></RelayClientLinkAddressEnable>
      <RequestFromTunneIDiscard></RequestFromTunneIDiscard>
      <RelaySourceAddress>
        <IPv6Address></IPv6Address>
        <Interface></Interface>
      </RelaySourceAddress>
      <FloodProtectionEnable></FloodProtectionEnable>
      <IfRateSuppressionEnable></IfRateSuppressionEnable>
      <ApplyPolicy></ApplyPolicy>
      <ClientInfoRecord></ClientInfoRecord>
      <SessionMismatchAction></SessionMismatchAction>
      <RelayReleaseAgent></RelayReleaseAgent>
      <ClientDetect></ClientDetect>
      <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
      <SessionMismatchAction></SessionMismatchAction>
      <RemoteServerAlgorithm></RemoteServerAlgorithm>
      <NonFirstHopEnable></NonFirstHopEnable>
    </IfConfigure>
  </DHCP6If>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6If
Table type	Multi-instance table
Row name	IfConfigure
Restrictions	This table supports only Layer 3 interfaces.

Columns for B70

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Mode	DHCPv6 mode	N/A	Enumeration: • **0**—None. • **1**—Server. • **2**—Relay.	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: • **true** • **false**	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: • **true** • **false**	N/A
ServerPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	N/A
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and	N/A	Boolean: • **true** • **false**	It must be configured together with ApplyPoolName when apply a IPv6 DHCP

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefixes.			address pool to an interface.
ApplyPoolRapidCommit	Enable the rapid commit function.	N/A	Boolean: • **true** • **false**	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
RelayInterfaceIDMode	IPV6 Interface-Id Option	N/A	Enumeration: • **0**—None. • **1**—Bas. • **2**—Interface. • 3—User Mac.	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index of the interface.
RelayGatewayAddress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A
RelayClientLinkAddressEnable	Enable DHCPv6 relay support to add option 79	N/A	Boolean: • **True** • **false**	N/A
RequestFromTunneIDiscard	Configure DHCP relay drop received from vxlan tunnel	N/A	Boolean: • **true** • **false**	N/A
RelaySourceAddress	Specify the source address of message forwarded by DHCPv6 relay to DHCPv6 server	Data structure	Members include: • IPv6Address • Interface	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Address	Specify the IPv6 address as the source address of the message sent to DHCPv6 server	N/A	Hexadecimal string, Colon separated.	N/A
Interface	Specify IPv6 address of the interface as the source address of the message sent to DHCPv6 server	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
FloodProtectionEnable	DHCPv6 flood attack prevention function	N/A	Boolean: • **True** • **false**	N/A
IfRateSuppressionEnable	DHCPv6 interface attack suppression function	N/A	Boolean: • **true** • **false**	N/A
ApplyPolicy	Specify the DHCPv6 policy referenced by the interface	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ClientInfoRecord	DHCPv6 relay user table entry recording function	N/A	Boolean: • **true** • **false**	N/A
SessionMismatchAction	Configure the processing method of DHCPv6 request sent by online users whose physical location changes and MAC address remains unchanged by DHCPv6 device	N/A	Enumeration: • **0**—Invalid • **1**—Roam • **2**—Fastrenew • **3—**All	N/A
RelayReleaseAgent	Notify DHCPv6 server to release	N/A	Boolean: • **True**	Only when the device is configured to work in

Column name	Column description	Column type	Data type and restrictions	Remarks
	lease when clearing user table entries is configured		• **false**	DHCPv6 relay mode, and the DHCPv6 relay user table entry recording function is enabled, can the lease release function of DHCPv6 server be notified when the user table entry is cleared
ClientDetect	Enabling status of client offline detection	N/A	Boolean: • **true** • **false**	N/A
DiscardReqFromTnlEnable	Whether the DHCP relay agent supports discarding request packet from tunnels	N/A	Boolean: • **true** • **false**	N/A
SessionMismatchAction	Configuration of DHCPv6 session-mismatch action	N/A	Enumeration: • **0**—Drop. • **1**—Fast-renew	N/A

Columns for B75

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Mode	DHCPv6 mode	N/A	Enumeration: • **0**—None • **1**—Server • **2**—Relay	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes	N/A	Boolean: • **true** • **false**	N/A
ServerRapidCommit	Enabling status of the rapid commit function	N/A	Boolean: • **true** • **false**	N/A
ServerPreference	Server preference	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	N/A
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and prefixes	N/A	Boolean: • **true** • **false**	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolRapidCommit	Enabling status of the rapid commit function	N/A	Boolean: • **true** • **false**	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Server preference	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
RelayInterfaceID Mode	IPV6 Interface-ID Option	N/A	Enumeration: • **0**—None • **1**—Bas. • **2**—Interface. • 3—Cn-telecom • 4—Tr-101	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index of the interface.
RelayGatewayAd dress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A
ClientDetect	Enabling status of client offline detection	N/A	Boolean: • **true** • **false**	N/A
DiscardReqFrom TnlEnable	Support for discarding request packet from tunnels by the DHCP relay agent	N/A	Boolean: • **true** • **false**	N/A
SessionMismatch Action	Configuration of DHCPv6 session-mismatch action	N/A	Enumeration: • **0**—Drop • **1**—Fast-renew	N/A
RemoteServerAlg orithm	Specify a DHCPv6 server selection algorithm when the device acts as a DHCPv6 relay agent	N/A	Enumeration: • **0**—Polling algorithm (default). • 1—Master-backup algorithm.	To forward a DHCPv6 request to all DHCPv6 servers, use the polling algorithm. To forward a DHCPv6 request to the master DHCPv6 server first and then to a backup DHCPv6 server only when the master server is not available, use the master-backup algorithm.
NonFirstHopEnab le	Whether to enable non-first-hop DHCPv6 relay	N/A	Boolean: • **true** • **false**	For access authentication to take effect, you must enable this feature on the relay

Column name	Column description	Column type	Data type and restrictions	Remarks
				agent.

DHCP6/DHCP6ServerIpInUse

This table contains binding information about assigned IPv6 addresses.

XML structure

```
<DHCP6>
  <DHCP6ServerIpInUse>
    <IpInUse>
      <PoolIndex></PoolIndex>
      <Ipv6Address></Ipv6Address>
      <Type></Type>
      <EndLease></EndLease>
      <ClientIPv6Address></ClientIPv6Address>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </IpInUse>
  </DHCP6ServerIpInUse>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpInUse
Table type	Multi-instance table
Row name	IpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Type	IPv6 address binding types	N/A	Enumeration: • **0**—Static(F). • **1**—Static(O). • **2**—Static(C).. • **3—Auto(E)** • 4—**Auto(O)** • 5—**Auto(C)**
EndLease	Time when the lease of the IPv6 address will expire.	N/A	String, case-sensitive. Length: 1 to 19 characters.
ClientIPv6Address	Client IPv6 address	N/A	Hexadecimal string, colon-separated.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	Preferred lifetime in seconds of the IPv6 address	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	Valid lifetime in seconds of the IPv6 address	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/DHCP6ServerPDInUse

This table contains prefix binding information about assigned IPv6 addresses.

XML structure

```
<DHCP6>
  <DHCP6ServerPDInUse>
    <PDInUse>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <Type></Type>
      <EndLease></EndLease>
      <ClientIPv6Address></ClientIPv6Address>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </PDInUse>
  </DHCP6ServerPDInUse>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPDInUse
Table type	Multi-instance table
Row name	PDInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength

Column name	Column description	Column type	Data type and restrictions
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.
Type	IPv6 address binding types	N/A	Enumeration: • **0**—Static(F). • **1**—Static(O). • **2**—Static(C).. • **3—Auto(E)** • 4—**Auto(O)** • 5—**Auto(C)**
EndLease	Time when the lease of the IPv6 address will expire.	N/A	String, case-sensitive. Length: 1 to 19 characters.
ClientIPv6Address	Client IPv6 address	N/A	Hexadecimal string, colon-separated.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	Preferred lifetime in seconds of the IPv6 prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	Valid lifetime in seconds of the IPv6 prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/ DHCP6ServerPoolOption

This table contains IPv6 DHCP server pool option information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolOption>
    <PoolOption>
```

```
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </PoolOption>
  </DHCP6ServerPoolOption>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolOption
Table type	Multi-instance table
Row name	PoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.

DHCP6/DHCP6ServerClass

This table contains DHCPv6 server class information.

XML structure

```
<DHCP6>
  <DHCP6ServerClass>
    <ServerClass>
```

```
      <ClassName></ClassName>
      <RuleNumber></RuleNumber>
      <RuleType></RuleType>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueMask></OptionValueMask>
      <OptionOffset></OptionOffset>
      <OptionLen></OptionLen>
      <OptionPartial></OptionPartial>
      <LinkAddr></LinkAddr>
    </ServerClass>
  </DHCP6ServerClass>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClass
Table type	Multi-instance table
Row name	ServerClass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class Name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleNumber	Rule number	Index	Unsigned integer. Value range: 1 to 16.	N/A
RuleType	Match mode	Index	Enumeration: • **2**—option • **3**—relay-agent	N/A
OptionCode	DHCPv6 option code	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
OptionValueHex	Specify the option	N/A	Hexadecimal string,	N/A

	content to be matched in the hexadecimal format		case-insensitive. Length: even number in the range of 2 to 256 characters.	
OptionValueAscii	Specify the option content to be matched in the ASSCII format	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
OptionValueMask	Specify the mask	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionOffSet	Specify the offset	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
OptionLen	Specify the string length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
OptionPartial	Enable partial match	N/A	Boolean: • **true**. • **false**.	N/A
LinkAddr	Link address	N/A	String, dotted decimal notation.	N/A

DHCP6/DHCP6ServerForbiddenPrefix

This table contains IPv6 DHCP server forbidden prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerForbiddenPrefix>
    <ForbiddenPrefix>
      <VRF></VRF>
      <StartPrefix></StartPrefix>
      <StartPrefixLen></StartPrefixLen>
      <EndPrefix></EndPrefix>
      <EndPrefixLen></EndPrefixLen>
    </ForbiddenPrefix>
  </DHCP6ServerForbiddenPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerForbiddenPrefix
Table type	Multi-instance table
Row name	ForbiddenPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0
StartPrefix	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
StartPrefixLen	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
EndPrefix	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	When sending the end address immediately, the end address is greater than or equal to the start address
EndPrefixLen	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	The prefix lengths of the start prefix and the end prefix should be the same

DHCP6/DHCP6ServerPolicy/ClassPolicy

This table contains information about the DHCPv6 server policy

XML structure

```
<DHCP6>
  <DHCP6ServerPolicy>
    <ServerPolicy>
      <PolicyName></PolicyName>
      <DefaultIpPool></DefaultIpPool>
      <ClassPolicys>
        <ClassPolicy>
          <Class></Class>
          <IpPool></IpPool>
        </ClassPolicy>
      </ClassPolicys>
    </ServerPolicy>
  </DHCP6ServerPolicy>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPolicy
Table type	Multi-instance table, multi-level table
Row name	ServerPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DHCP policy name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
DefaultIpPool	Default IP pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassPolicys	N/A	Data structure	Members include: • Class • IpPool	SubTable
Class	DHCP6 class name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IpPool	Ip pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DHCP6/DHCP6Vsi

This table contains the VSI configuration of DHCP.

XML structure

```
<DHCP6>
  <DHCP6Vsi>
    <Vsi>
      <VsiName></VsiName>
      <FloodProtectionEnable></FloodProtectionEnable>
    </Vsi>
  </DHCP6Vsi>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Vsi

Item	Description
Table type	Multi-instance table
Row name	Vsi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
FloodProtectionEnable	Enabling status of DHCP flood protection	N/A	Boolean: • **True** • **false**	N/A

DHCP6/DHCP6ServerPoolGroup

This table contains DHCPv6 address pool group information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolGroup>
    <PoolGroup>
      <GroupName></GroupName>
      <vpn></vpn>
      <Pools>
        <Pool>
          <PoolName></PoolName>
          <Priority></Priority>
        </Pool>
      </Pools>
      <Ipv6PoolAlgorithmRoundRobinLocal></Ipv6PoolAlgorithmRoundRobinLocal>
      <Ipv6PoolAlgorithmRoundRobinRemote></Ipv6PoolAlgorithmRoundRobinRemote>
      <PoolGroupExhaustionTrapEnable></PoolGroupExhaustionTrapEnable>
      <PoolGroupExhaustionLogEnable></PoolGroupExhaustionLogEnable>
      <IpInUseThreshold></IpInUseThreshold>
    </PoolGroup>
  </DHCP6ServerPoolGroup>
```

```
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolGroup
Table type	Multi-instance table, multi-level table
Row name	PoolGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
GroupName	DHCPv6 address pool group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
vpn	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
PoolName	DHCPv6 address pool name	Sublist	String, case-insensitive. Length: 1 to 63 characters.	Required when you create a new row. The name cannot be modified.
Priority	DHCPv6 address pool priority	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv6PoolAlgorithmRoundRobinLocal	DHCPv6 pool group	N/A	Boolean: • **True**	N/A

	roundrobin		• **False**(default)	
Ipv6PoolAlgorithmRoundRobinRemote	DHCPv6 pool group roundrobin	N/A	Boolean: • **True** • **False**(default)	N/A
PoolGroupExhaustionTrapEnable	Whether the SNMP notification about IPv6 pool group exhaustion is enabled	N/A	Boolean: • **True** • **false**(default)	N/A
PoolGroupExhaustionLogEnable	Whether IPv6 pool group exhaustion logging is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
IpInUseThreshold	The warning rate of used ipv6 address in dhcp pool group	N/A	Unsigned integer. Value range: 0 to 100.	N/A

DHCP6/DHCP6ServerForbiddenIpv6

This table contains information about IPv6 addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerForbiddenIpv6>
    <ForbiddenIpv6>
      <VRF></VRF>
      <StartIpv6Address></StartIpv6Address>
      <EndIpv6Address></EndIpv6Address>
    </ForbiddenIpv6>
  </DHCP6ServerForbiddenIpv6>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerForbiddenIpv6
Table type	Multi-instance table
Row name	ForbiddenIpv6
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.
StartIpv6Address	Start IPv6 address of an IPv6 address range that is excluded from dynamic allocation globally	Index	Hexadecimal string, colon-separated.
EndIpv6Address	End IPv6 address of an IPv6 address range that is excluded from dynamic allocation globally	Index	Hexadecimal string, colon-separated.

DHCP6/DHCP6RelayMacFowardEnable

This table contains information about whether the DHCPv6 relay supports forwarding ACK or OFFER packet by MAC address.

XML structure

```
<DHCP6>
  <DHCP6RelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
      <MacBroadCast></MacBroadCast>
```

```
    </RelayMacForwardEnable>
  </DHCP6RelayMacFowardEnable>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayMacFowardEnable
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RelayMacForwardEnable	The configuration of the RelayMacForwardEnable	Data structure	Members include: • MacEnable • MacBroadcast	N/A
MacEnable	Whether enable MAC forwarding	N/A	Boolean: • **true** • **false**	If MAC forwarding is enabled, DHCPv6 server OFFER or ACK packet will be forwarded via unicast.
MacBroadCast	Whether enable MAC broadcasting	N/A	Boolean: • **true** • **false**	It must be configured with MacEnable and the value for MacEnable must be true.

DHCP6/DHCP6RelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP6 relay agent.

XML structure

```
<DHCP6>
  <DHCP6RelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <SourceIfIndex></SourceIfIndex>
    </RelaySrcAddr>
  </DHCP6RelaySourceAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Address	Source IP addresses of the	N/A	Hexadecimal string, colon-separated.	Ipv6Address and sourceIfIndex cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets sent by the DHCP6 relay agent			set at the same time.
SourceIfIndex	The source interface for the DHCP6 relay agent	N/A	Unsigned integer.	Ipv6Address and sourceIfIndex cannot be set at the same time.

DHCP6/DHCP6ServerPoolForbiddenAddress

This table contains information about IPv6 addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolForbiddenAddress>
    <PoolForbiddenAddress>
      <PoolIndex></PoolIndex>
      <StartAddress></StartAddress>
      <EndAddress></EndAddress>
    </PoolForbiddenAddress>
  </DHCP6ServerPoolForbiddenAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolForbiddenAddress
Table type	Multi-instance table
Row name	PoolForbiddenAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
StartAddress	Start IPv6 address of an IPv6 address range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	N/A
EndAddress	End IPv6 address of an IPv6 address range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	The value for end-address cannot be lower than that for start-address.

DHCP6/DHCP6ServerPoolForbiddenPrefix

This table contains information about IPv6 prefixes excluded from dynamic allocation globally.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolForbiddenPrefix>
    <PoolForbiddenPrefix>
      <PoolIndex></PoolIndex>
      <StartPrefix></StartPrefix>
      <StartPrefixLen></StartPrefixLen>
      <EndPrefix></EndPrefix>
      <EndPrefixLen></EndPrefixLen>
    </PoolForbiddenPrefix>
  </DHCP6ServerPoolForbiddenPrefix>
```

```
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolForbiddenPrefix
Table type	Multi-instance table
Row name	PoolForbiddenPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
StartPrefix	Start IPv6 prefix of an IPv6 prefix range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	N/A
StartPrefixLen	Length of the StartPrefix	Index	Unsigned integer Value range: 1 to 128.	N/A
EndPrefix	End IPv6 prefix of an IPv6 prefix range that is excluded from dynamic allocation	Index	Hexadecimal string, colon-separated.	The value for end-prefix cannot be lower than that for start-prefix.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndPrefixLen	Length of the EndPrefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

DHCP6/DHCP6ServerPoolStatistics

This table contains DHCP6 server pool statistics information.

XML structure

```
<DHCP6>
 <DHCP6ServerPoolStatistics>
   <Ipv6PoolStatistics>
     <PoolName></PoolName>
     <UsedIpNumber></UsedIpNumber>
     <UsedPdNumber></UsedPdNumber>
     <ExpiredIpNumber></ExpiredIpNumber>
     <ExpiredPdNumber></ExpiredPdNumber>
     <TotalIpNumber></TotalIpNumber>
     <TotalPdNumber></TotalPdNumber>
     <DynamicUsedIpNumber></DynamicUsedIpNumber>
     <DynamicUsedPdNumber></DynamicUsedPdNumber>
     <StaticUsedIpNumber></StaticUsedIpNumber>
     <StaticUsedPdNumber></StaticUsedPdNumber>
     <ConflictIpNumber></ConflictIpNumber>
     <ReserveIpNumber></ReserveIpNumber>
     <ReservePdNumber></ReservePdNumber>
     <FreeIpNumber></FreeIpNumber>
     <FreePdNumber></FreePdNumber>
     <IpUsage></IpUsage>
     <IpUsageMax></IpUsageMax>
     <IpUsageMaxTime></IpUsageMaxTime>
     <PdUsage></PdUsage>
     <PdUsageMax></PdUsageMax>
     <PdUsageMaxTime></PdUsageMaxTime>
    </Ipv6PoolStatistics>
   </DHCP6ServerPoolStatistics>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStatistics
Table type	Multi-instance table
Row name	IpPoolStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	DHCPv6 pool name	Index	String.	N/A
UsedIpNumber	Number of used IP addresses in the address pool	N/A	Unsigned integer.	N/A
UsedPdNumber	Number of used prefix in the address pool	N/A	Unsigned integer.	N/A
ExpiredIpNumber	Number of expired IP address leases in the address pool	N/A	Unsigned integer.	N/A
ExpiredPdNumber	Number of expired prefix leases in the address pool	N/A	Unsigned integer.	N/A
ConflictIpNumber	Number of conflicting IP addresses in the address pool	N/A	Unsigned integer.	N/A
TotalIpNumber	Total number of IP addresses in the address pool	N/A	String.	N/A
TotalPdNumber	Total number of prefixes in the address pool	N/A	String.	N/A
DynamicUsedIpNumber	Number of used dynamic IP addresses in the address pool	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DynamicUsedPdNumber	Number of used dynamic PD prefixes in the address pool	N/A	Unsigned integer.	N/A
StaticUsedIpNumber	Number of used static IP addresses in the address pool	N/A	Unsigned integer.	N/A
StaticUsedPdNumber	Number of used static PD prefixes in the address pool	N/A	Unsigned integer.	N/A
ReserveIpNumber	Number of reserved IP addresses in the address pool	N/A	Unsigned integer.	N/A
ReservePdNumber	Number of reserved PD prefixes in the address pool	N/A	Unsigned integer.	N/A
FreeIpNumber	Number of free IP addresses in the address pool	N/A	String.	N/A
FreePdNumber	Number of free PD prefixes in the address pool	N/A	String.	N/A
IpUsage	Address usage of the address pool	N/A	Unsigned integer.	N/A
IpUsageMax	Peak address usage of the address pool	N/A	Unsigned integer.	N/A
IpUsageMaxTime	Date and time when the address usage of the address pool reached the peak	N/A	String.	N/A
PdUsage	Prefix usage of the address pool	N/A	Unsigned integer.	N/A
PdUsageMax	Peak prefix usage of the address pool	N/A	Unsigned integer.	N/A
PdUsageMaxTime	Date and time when the prefix usage of the address pool reached the peak	N/A	String.	N/A

DHCP6/DHCP6RelayServerInfo

This table contains operational data about remote DHCPv6 server liveness availability detection.

XML structure

```
<DHCP6>
  <DHCP6RelayServerInfo>
    <RelayServerInfo>
      <Vpn></Vpn>
      <ServerIp></ServerIp>
      <DeadCount></DeadCount>
      <DeadTime></DeadTime>
      <TimeOut></TimeOut>
    </RelayServerInfo>
  </DHCP6RelayServerInfo>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayServerInfo
Table type	Multi-instance table
Row name	RelayServerInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Vpn	VPN (or VRF) instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If a VPN instance is not specified, the public network is specified
ServerIp	IPv6 address of a DHCPv6 server	Index	Hexadecimal string, colon-separated.	If no value is specified for ServerIp, all remote DHCPv6 servers are specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DeadCount	The maximum number of consecutive communication failures before the relay agent marks a DHCPv6 server as down	N/A	Unsigned integer Value range: 1 to 64.	N/A
DeadTime	The amount of time that the DHCPv6 relay agent must wait before it can send requests to the server after the server was marked as down	N/A	Unsigned integer Value range: 1 to 65536.	N/A
TimeOut	The maximum interval that the DHCPv6 relay agent waits for the response to a request sent to the remote DHCPv6 server	N/A	Unsigned integer. Value range: 1 to 60.	N/A

DHCP6/DHCP6ServerPoolGroupStatistics

This table contains IPv6 pool group statistics on the DHCPv6 server.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolGroupStatistics>
    <Ipv6PoolGroupStatistics>
      <PoolGroupName></PoolGroupName>
      <IncludePoolNum></IncludePoolNum>
      <BoundByDomainNum></BoundByDomainNum>
      <GroupIPUsage></GroupIPUsage>
```

```
      <TotalIPNumber></TotalIPNumber>
      <UsedIPNumber></UsedIPNumber>
      <IdleIPNumber></IdleIPNumber>
      <ExpiredIPNumber></ExpiredIPNumber>
      <ExcludeIPNumber></ExcludeIPNumber>
      <ConflictIPNumber></ConflictIPNumber>
      <DynamicUsedIPNumber></DynamicUsedIPNumber>
      <StaticUsedIPNumber></StaticUsedIPNumber>
      <ReserveIPNumber></ReserveIPNumber>
      <GroupPDUsage></GroupPDUsage>
      <TotalPDNumber></TotalPDNumber>
      <UsedPDNumber></UsedPDNumber>
      <IdlePDNumber></IdlePDNumber>
      <ExpiredPDNumber></ExpiredPDNumber>
      <ExcludePDNumber></ExcludePDNumber>
      <ConflictPDNumber></ConflictPDNumber>
      <DynamicUsedPDNumber></DynamicUsedPDNumber>
      <StaticUsedPDNumber></StaticUsedPDNumber>
      <ReservePDNumber></ReservePDNumber>
     </Ipv6PoolGroupStatistics>
    </DHCP6ServerPoolGroupStatistics>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolGroupStatistics
Table type	Multi-instance table
Row name	Ipv6PoolGroupStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolGroupName	DHCPv6 pool group name	Index	String.	N/A
IncludePoolNum	Number of IPv6 address pools bound to the address pool group	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BoundByDomainNum	Number of domains bound to the address pool group	N/A	Unsigned integer.	N/A
GroupIPUsage	Address usage in the IPv6 address pool group	N/A	Unsigned integer.	N/A
TotalIPNumber	Total number of IPv6 addresses in the address pool group	N/A	String.	N/A
UsedIPNumber	Number of used IPv6 addresses in the address pool group	N/A	Unsigned integer.	N/A
IdleIPNumber	Number of free IPv6 address leases in the address pool group	N/A	String.	N/A
ExpiredIPNumber	Number of expired IPv6 address leases in the address pool group	N/A	Unsigned integer.	N/A
ExcludeIPNumber	Number of excluded IPv6 address leases in the address pool group	N/A	Unsigned integer.	N/A
ConflictIPNumber	Number of conflicting IPv6 addresses in the address pool group	N/A	Unsigned integer.	N/A
DynamicUsedIPNumber	Number of used dynamic IPv6 addresses in the address pool group	N/A	Unsigned integer.	N/A
StaticUsedIPNumber	Number of used static IPv6 addresses in the address pool group	N/A	Unsigned integer.	N/A
ReserveIPNumber	Number of reserved IPv6 addresses in the address pool group	N/A	Unsigned integer.	N/A
GroupPDUsage	Prefix usage in the IPv6 address pool group	N/A	Unsigned integer.	N/A
TotalPDNumber	Total number of prefixes	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	in the address pool group			
UsedPDNumber	Number of used prefixes in the address pool group	N/A	Unsigned integer.	N/A
IdlePDNumber	Number of free prefixes in the address pool group	N/A	String.	N/A
ExpiredPDNumber	Number of expired prefix leases in the address pool group	N/A	Unsigned integer.	N/A
ExcludePDNumber	Number of excludedprefixes in the address pool group	N/A	Unsigned integer.	N/A
ConflictPDNumber	Number of conflicting prefixes in the address pool group	N/A	Unsigned integer.	N/A
DynamicUsedPDNumber	Number of used dynamic prefixes in the address pool group	N/A	Unsigned integer.	N/A
StaticUsedPDNumber	Number of used static prefixes in the address pool group	N/A	Unsigned integer.	N/A
ReservePDNumber	Number of reserved prefixes in the address pool group	N/A	Unsigned integer.	N/A

DHCP6/DHCP6ServerPoolVendorSpecific

This table contains the configuration for DHCPv6 Option17.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolVendorSpecific>
    <PoolVendorSpecific>
      <PoolIndex></PoolIndex>
```

```
      <EnterpriseNumber></EnterpriseNumber>
      <SubOptionInfos>
        <SubOptionInfo>
          <SubOptionCode></SubOptionCode>
          <SubOptionValueHex></SubOptionValueHex>
          <SubOptionValueAscii></SubOptionValueAscii>
          <SubOptionValueIpv6></SubOptionValueIpv6>
        </SubOptionInfo>
      </SubOptionInfos>
    </PoolVendorSpecific>
  </DHCP6ServerPoolVendorSpecific>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolVendorSpecific
Table type	Multi-instance table
Row name	PoolVendorSpecific
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	N/A	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
EnterpriseNumber	Vendor ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
SubOptionInfos	N/A	Data structure	Members include:	SubTable

Column name	Column description	Column type	Data type and restrictions	Remarks
			• SubOptionCode • SubOptionValueHex • SubOptionValueAscii • SubOptionValueIpv6	
SubOptionCode	DHCPv6 vendor-specific suboption code	Index	Unsigned integer. Value range: 1～65535	N/A
SubOptionValueHex	Specify a hexadecimal string as the option content	N/A	Hexadecimal string, case-insensitive. Length: even number in the range of 2 to 128 characters.	N/A
SubOptionValueAscii	Specify an ASCII string as the option content	N/A	String. Length: 1 to 64 characters.	N/A
SubOptionValueIpv6	Specify IPv6 addresses as the option content	N/A	String. Length: 1 to 159 characters.	N/A

Contents

DHCP6/dhcp6 1

DHCP6/dhcp6

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements.Please check your configuration.
The URL for a file on the TFTP server can't include the username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please make sure the URL for a file on the TFTP server does not include the username or password.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid filename or URL.Please check it.
The URL can't include the username or password. 不要在URL中携带用户名和密码信息。	Please make sure the URL does not include the username or password.
The system is saving DHCPv6 server entries to the backup file. Please wait…. 系统正在将DHCPv6服务器表项写入备份表项的文件中。请等待。	The system is saving DHCPv6 server entries to the backup file.
The system is downloading DHCPv6 server entries from the backup file. Please wait…. 系统正在从备份表项的文件中恢复DHCPv6服务器表项。请等待。	The system is downloading DHCPv6 server entries from the backup file.
The static binding already exists in another DHCPv6 address pool. 静态绑定表项已经在配置在其他DHCPv6地址池中。	The static binding already exists in another DHCPv6 address pool. Please try another one.
For a non-temporary IPv6 address range, the preferred lifetime can't be longer than the valid lifetime. 配置非临时IPv6地址范围时，首选生命期要小于等于有效生命期。	For a non-temporary IPv6 address range, the preferred lifetime cannot be longer than the valid lifetime.
For a temporary IPv6 address range, the preferred lifetime can't be longer than the valid lifetime. 配置临时IPv6地址范围时，首选生命期要小于等于有效生命期。	For a temporary IPv6 address range, the preferred lifetime cannot be longer than the valid lifetime.
For an IPv6 subnet, the preferred lifetime can't be longer than the valid lifetime. 配置IPv6网段地址池时，首选生命期要小于等于有效生命期。	For an IPv6 subnet, the preferred lifetime cannot be longer than the valid lifetime.
For a prefix pool, the preferred lifetime can't be longer than the valid lifetime. 配置引用前缀池时，首选生命期要小于等于有效生命期。	For a prefix pool, the preferred lifetime cannot be longer than the valid lifetime.
In a non-temporary IPv6 address range, the start IPv6 address can't be higher than the end IPv6 address. 配置非临时IPv6地址范围时，起始IPv6地址不能大于结束IPv6地址。	Please make certain that In a non-temporary IPv6 address range, the start IPv6 address isn't higher than the end IPv6 address.
In a temporary IPv6 address range, the start IPv6	Please make certain that In a temporary IPv6 address range, the

address can’t be higher than the end IPv6 address. 配置临时IPv6地址范围时，起始IPv6地址不能大于结束IPv6地址。	start IPv6 address isn’t higher than the end IPv6 address.
DHCPv6 address pool name can’t be changed. 指定IPv6地址池名称失败。	DHCPv6 address pool name can’t be changed.
Another DHCPv6 address pool is using the name. 其他IPv6地址池正在使用该名字。	Another DHCPv6 address pool is using the name, please try another name.
Invalid IPv6 subnet address. 非法的IPv6网段地址。	Invalid IPv6 subnet address, please check your IPv6 subnet address.
Invalid start IPv6 address. 非法的起始IPv6地址。	Invalid start IPv6 address, please check it.
Invalid end IPv6 address. 非法的结束IPv6地址。	Invalid end IPv6 address, please check it.
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address, please check it.
Non-temporary IPv6 address range and temporary IPv6 address range can’t overlap. 非临时IPv6地址范围和临时IPv6地址范围不能互相重叠。	Please make certain that non-temporary IPv6 address range and temporary IPv6 address range is not overlap.
Number of DHCPv6 address pools exceeded the limit. DHCPv6地址池个数超过上限。	Number of DHCPv6 address pools exceeded the limit, when the number of DHCPv6 address pools is greater than 1024.
The IPv6 subnet already exists in another DHCPv6 address pool. 该IPv6网段的地址已经在配置在其他IPv6地址池中。	The IPv6 subnet already exists in another DHCPv6 address pool, please try another subnet.
The DHCPv6 address pool doesn’t exist. 该DHCPv6地址池不存在。	The DHCPv6 address pool doesn’t exist, when getting or deleting it.
Invalid length for the SIP server domain name. SIP服务器的域名长度不符合配置要求。	Invalid length for the SIP server domain name, please check it.
The option is not configurable. 该DHCPv6选项的配置是被禁止的。	The option is not configurable, please check your option.
The DHCPv6 option group doesn’t exist. 该DHCPv6选项组不存在。	The DHCPv6 option group doesn’t exist, when getting or deleting it.
Number of servers in the DHCPv6 address pool exceeded the limit. 该地址池可配DHCPv6服务器个数已达上限。	Number of servers in the DHCPv6 address pool exceeded the limit, when the number of servers in the DHCPv6 address pool is greater than 8.
An output interface is required when the DHCPv6 server address is a multicast address or link-local address. 当DHCPv6服务器地址为组播地址或者链路本地地址必须指定出接口。	Please make certain that an output interface is required when the DHCPv6 server address is a multicast address or link-local address.
The valid lifetime can’t be shorter than the preferred lifetime.	Please make certain that the valid lifetime isn’t shorter than the preferred lifetime.

有效生命期不应小于首选生命期。	
Invalid DUID. 非法的DUID字符串。	Invalid DUID, please check it.
Number of statically bound address exceeded the limit. 该地址池静态绑定的IPv6地址个数已达上限。	Number of statically bound address exceeded the limit, when the number of statically bound address is greater than 8192.
Number of statically bound prefixes exceeded the limit. 该地址池静态绑定IPv6地址前缀个数已达上限。	Number of statically bound prefixes exceeded the limit, when the number of statically bound prefixes is greater than 4096.
The assigned prefix length can’t be shorter than the specified prefix length. 分配的前缀长度不能小于前缀长度。	Please make certain that the assigned prefix length isn’t shorter than the specified prefix length.
Difference between the specified prefix length and the assigned prefix length can’t be greater than 16. 分配的前缀长度和前缀长度大小差异应该不小于16。	Please make certain that the difference between the specified prefix length and the assigned prefix length isn’t greater than 16.
Prefix pools can’t overlap. 前缀池不应该重叠。	Please make certain that prefix pools isn’t overlap.
Number of DHCPv6 servers on the interface exceeded the limit. 该接口上指定的DHCPv6服务器个数已达上线。	Number of DHCPv6 servers on the interface exceeded the limit, when the number of DHCPv6 servers on the interface is greater than 8.
Number of VRF exceeded the limit. VRF个数已达到上限。	Number of VRF exceeded the limit.
Not available. 未使用。	The Lease is not used.
Failed to enable DHCPv6 logging. 开启DHCPv6日志功能失败。	DHCPv6 logging is not enabled.
The start IPv6 address can't be greater than the end IPv6 address. 起始IPv6地址必须小于或等于结束IPv6地址。	The start IPv6 address can't be greater than the end IPv6 address.
Failed to set the priority. 设置优先级失败。	The priority setting is supported only for IPV6 address pools that are created on the ODAP server. 当前只有odap-server地址池才可以在地址池组下配置优先级。
Invalid IPv6 address. 无效的IPv6地址。	The configuration doesn’t meet the requirements. Please check your configuration.
The Configuration of the relay-agent only contains the LinkAddr column. 中继代理的配置仅包含LinkAddr列。	The configuration doesn’t meet the requirements. Please check your configuration.
Invalid hexadecimal string, and the number of strings is even. 无效的十六进制字符串，且字符串的个数为偶数。	The configuration doesn’t meet the requirements. Please check your configuration.
Invalid mask, the mask should be a hexadecimal string and the number of strings is even. 无效的掩码，掩码应该为十六进制字符串，且字符串的个数为偶数。	The configuration doesn’t meet the requirements. Please check your configuration.

Mask length must be equal to length of the hexadecimal string. 掩码长度必须等于十六进制字符串的长度。	The configuration doesn't meet the requirements. Please check your configuration.
The hex string and length do not match. 十六进制字符串和长度不匹配。	The configuration doesn't meet the requirements. Please check your configuration.
The configuration of the option not include the LinkAddr column. 选项的配置不包含LinkAddr列。	The configuration doesn't meet the requirements. Please check your configuration.
Number of rules has reached the upper limit. 规则数已达上限。	The configuration doesn't meet the requirements. Please check your configuration.
A rule of another type is using the rule number. 另一类型的规则正在使用规则编号。	The configuration doesn't meet the requirements. Please check your configuration.
Rules with different numbers cannot have the same content. 不同编号的规则不能具有相同的内容。	The configuration doesn't meet the requirements. Please check your configuration.
Failed to process this operation. 无法执行此操作。	The configuration doesn't meet the requirements. Please check your configuration.
The interface doesn't exist. 接口不存在	The interface doesn't exist for the binding. 绑定时接口不存在
Only one of them can be bound. 只可绑定其中一个	Only one of UPID and Interface can be bound to an IPV6 address pool. 地址池下仅可绑定UPID或者接口其中之一
Failed to specify the domain name. 配置域名失败	The configuration of domain name is illegal 域名配置不合法
Failed to specify the VSRP name. 配置vsrp名失败	Invalid VSRP name is configured 配置了无效的vsrp名称
Failed to configure IPv6 reservation. 配置老化地址租约保留功能失败	The IPv6 reservation is not configured successfully 没有成功配置老化地址租约保留功能
Failed to specify the option-group. 指定选项组失败	Invalid option-group is specified 指定了无效的选项组
Failed to specify the AFTR name. 指定AFTR name失败	The specified AFTR name is not allowed to be specified 指定的AFTR name不允许被指定
Failed to specify a temporary address range address range. 无法指定临时地址范围地址范围	A temporary address range address range is not configured successfully 没有成功配置临时地址范围地址范围
Temporary addresses should not overlap non-temporary addresses. 临时地址不应与非临时地址重叠	Temporary and non-temporary addresses overlap 临时地址与非临时地址出现重叠部分
Failed to specify a SIP server. 配置SIP服务器失败	An invalid SIP server is configured 配置了无效的SIP服务器
The number of SIP server addresses has reached the upper limit.	The SIP server address can no longer be configured

SIP服务器地址数已达到上限	无法再配置SIP服务器地址
The utilization mark must between 0 and 100. 地址段或前缀段的使用率上下限在0到100之间	The utilization mark mast should be in the range of 0 to 100 地址段或前缀段的使用率上下限应在0到100范围内
Operation failed. This command can be successfully executed only when no IPv6 addresses are assigned to DHCPv6 clients. 操作失败。只有在没有为DHCPv6客户端分配IPv6地址时，才能成功执行此命令。	If an IPv6 address is assigned to the DHCPv6 client, the operation fails 如果为DHCPv6客户端分配了IPv6地址，操作失败
The assigned prefix length must be equal to or greater than the network prefix length. 指定的前缀长度必须等于或大于网络前缀长度	The specified prefix length cannot be less than the network prefix length 指定的前缀长度不能小于网络前缀长度
Failed to specify the process mode. 无法指定进程模式	Failed to set the process mode 指定进程模式操作未成功
Operation failed. 操作失败	The operation is not successful 操作没有成功
The network is used by subnet-leased ip. 网段由子网租用的ip使用	Subnet-leased ip cannot use the network 子网租用的ip不能使用网段
Please remove the address pool from all its bound address pool groups first. 请先从其所有绑定地址池组中删除地址池	Please unbind the address pool from the address pool groups first 请首先解除地址池组中地址池的绑定
Number of VPN instances exceeded the limit. VPN数量达到最大值	The maximum number of VPNs has been reached. 无法再配置VPN
The configuration has already been configured in another pool. 配置已在另一个池中配置	Configuration from one pool is not allowed to be reconfigured in another pool 不允许将另一个池中的配置，在其它池里再配置
The specified prefix or address has already been bound. 指定的前缀或地址已绑定	The bound prefix or address is not allowed to be bound again 已经绑定的前缀或地址不允许再重复绑定
Failed to specify the IPv6 network. 无法指定IPv6地址网段	Specify an invalid IPv6 address network 指定无效的IPv6地址网段
There are forbidden ip allocated in the range. 在范围内分配了禁止的ip	A forbidden ip is not allowed to be assigned 禁止的IP不允许被分配
Can't change the configuration because the assigned IPv6 address blocks are being used by online users. 无法更改配置，因为在线用户正在使用分配的IPv6地址块	When the assigned IPv6 address blocks are being used by online users, the configuration is not allowed to be changed 分配的IPv6地址块正在被在线用户使用时，配置不允许被更改
Operation failed because of online users. 因为存在在线用户使用，操作失败	Operating failed because the target configuration is used by online users 操作在线用户使用，导致失败
The assigned prefix length must be equal to or greater than network prefix length. 指定的前缀长度必须等于或大于网络前缀长度	The specified prefix length cannot be less than the network prefix length 指定的前缀长度不能小于网络前缀长度

The prefix has been configured in a prefix pool. 前缀已在前缀池中配置	The prefix is configured in the prefix pool 前缀池中配置了该前缀
Failed to apply the prefix pool. 无法应用前缀池	The prefix pool cannot be used 前缀池不能被使用
Forbidden prefix addresses exist in the range. 范围内有禁止的前缀地址	Forbidden prefix addresses are not allowed to be used 禁止的前缀地址不允许被使用
Another prefix pool has already been applied. 已应用另一个前缀池	Another prefix pool has already been used 另一个前缀池已经被使用
The prefix pool or the prefix in the pool has been applied to another address pool. 前缀池或池中的前缀应用于另一个地址池	The prefix pool or the prefix in the pool applied to another address pool is not allowed to be used 应用于另一个地址池的前缀池或池中的前缀不允许在被使用
The aggregated prefix length must be in the range of the origin prefix length and the assigned prefix length of the prefix pool. 聚合前缀长度必须在前缀池的原始前缀长度和分配的前缀长度范围内	The aggregated prefix length cannot be separated from the range of origin prefix length and the assigned prefix length of the prefix pool. 聚合前缀长度不能脱离前缀池的原始前缀长度和分配的前缀长度范围
Can't change the configuration because the IPv6 prefix ranges are being used by online users. 由于用户在线，无法删除前缀池	Failed to delete prefix pool when user is online 用户在线时删除前缀池失败
Failed to specify the gateway addresses. 无法指定网关地址	Failed to specify gateway address. 指定网关地址失败
Failed to specify the IPv6 address of the DNS server. 无法指定DNS服务器的IPv6地址	Specify an invalid IPv6 address in the DNS server 指定DNS服务器无效的IPv6地址
The number of DNS servers has reached the upper limit. DNS服务器数已达到上限	Cannot specify more DNS servers 无法再指定DNS服务器
Failed to create the DHCP pool. 创建DHCP池失败	The DHCP address pool is not successfully created 没有成功创建DHCP地址池
The address pool type mismatches. 模式错误	Invalid Mode 无效的模式
The number of DHCPv6 pools has reached the upper limit. DHCPv6池的数量已达到上限	Cannot create more DHCPv6 address pools. 无法再创建DHCPv6地址池
Failed to configure forbidden IP addresses. 配置forbidden ip地址失败	Forbidden-ip configuration is not allowed when users are online. 有用户在线时，不允许配置forbidden-ip
The master-up-id and the backup-up-id cannot be same. 绑定的主UPID和备UPID不能相同	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
The DHCPv6 server address does not exist. DHCP6服务器地址不存在	The specified DHCPv6 remote server address does not exist on the network. 指定的DHCPv6远端服务器地址不存在

Incorrect user information. 用户上线失败因为用户信息错误	The client cannot go online because its user information in the SOLICIT message does not pass the check by the DHCPv6 server. 服务器收到报文后检查报文信息，当前携带信息未通过检查
No replies from the DHCPv6 server. 用户上线失败因为服务器没有回应	The client fails to go online because the DHCPv6 server does not respond. 服务器没有回应租约信息，上线失败
REPLY message with denial information received. 客户端收到拒绝上线的REPLY报文	The client cannot go online because its IPv6 address request is denied by the DHCPv6 server for some reasons. 客户端上线失败，因为服务器拒绝了它的地址请求
RELEASE or DECLINE message sent. 用户下线因为客户端发送了RELEASE报文或者是DECLINE报文	The client goes offline because it no longer needs an IPv6 address or the IPv6 address assigned to the client is not usable due to some reasons. DHCP客户端不再需要使用分配IP地址或因某些原因导致分配的IPv6地址不能使用。
IPv6 address lease expired. 用户下线因为租约到期	The client goes offline because its lease expires and the IPv6 address becomes invalid. 租约到期IP地址失效用户下线
The DHCPv6 server notified UCM to delete the user entry. Server通知用户下线	The client goes offline because the DHCPv6 server notifies UCM to delete the user entry for that client due to some reasons. 因为某些原因，server主动通知删除user-info信息
No replies from the client. 用户下线因为客户端没有回复报文	The client goes offline because it does not reply the ADVERTISE message. 用户下线因为客户端没有回复报文
UCM notified the DHCPv6 server to delete the user entry. UCM通知用户下线	The client goes offline because UCM notifies the DHCPv6 server to delete the user entry for that client due to some reasons. 因为某些原因，ucm主动通知删除user-info信息
The client requested to come online again during lease renewal. 续约过程中客户端重新上线	The client sends a SOLICIT message before the DHCPv6 server replies to the lease renewal request of the client. 在服务器回复续约请求之前，客户端重新发送SOLICIT
Address conflict. 地址冲突	The client cannot go online because the address assigned by the DHCPv6 server or the address requested by the client is conflicting. 服务器分配的地址或客户端请求的地址存在冲突
Other. 其他原因	The reason for the client online failure needs further analysis. 该失败原因待细分
No replies from UCM. 用户上线失败因为UCM没有回应	The client fails to go online because UCM does not respond. UCM没有回应租约信息，上线失败
The requested or offered IPv6 address is invalid. 请求或回复的IP地址无效	The client cannot go online because the IPv6 address requested by the client or returned by the DHCPv6 server is invalid. 客户端请求或服务器回复的IP地址无效
Failed to enable IPv6 DHCP route logging. 开启DHCPv6路由日志功能失败。	The configuration doesn’t meet the requirements. Please check your configuration. 配置不符合要求，请检查您的配置
Number of Vendor exceeded the limit.	A maximum of 8 vendors can be configured in an address pool. 一个地址池下最多配置8个Vendor。

Vendor个数已达到上限。	
Number of SubOption exceeded the limit. SubOption个数已达到上限。	A maximum of 16 suboptions can be configured under one Vendor. 一个Vendor下最多配置16个SubOption。
Failed to exclude the IPv6 addresses from dynamic allocation. 从动态分配地址中排除IPV6地址失败。	The current ipv6 address is in use and can not be forbidden. 当前IPV6地址已经被使用，无法被禁用。

Contents

DHCPv6 event stream 1
DHCPv6 pool statistics event 1
XML structure for event subscription 1
XML structure for event report 1
DHCPv6 user protocol event 3
XML structure for event subscription 3
XML structure for event report 4

DHCPv6 event stream

DHCPv6 event stream description.

DHCPv6 pool statistics event

This event is used to report pool statistics of the DHCPv6.

XML structure for event subscription

```
<Dhcp6ServerPoolStatisticsEvent>
</Dhcp6ServerPoolStatisticsEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCP6</stream>
    <filter type="subtree">
      <Dhcp6ServerPoolStatisticsEvent
xmlns="http://www.h3c.com/netconf/event:1.0/DHCP6:1.0">
      </Dhcp6ServerPoolStatisticsEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCP6
Event name	Dhcp6ServerPoolStatisticsEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DHCP6:1.0
Support for extended query	No

XML structure for event report

```
<Dhcp6ServerPoolStatisticsEvent>
  <PoolName></PoolName>
  <Reason></Reason>
  <ExpiredIpNumber></ExpiredIpNumber>
  <ExpiredPdNumber></ExpiredPdNumber>
  <DynamicUsedIpNumber><DynamicUsedIpNumber>
  <DynamicUsedPdNumber><DynamicUsedPdNumber>
  <ConflictIpNumber><ConflictIpNumber>
  <ReserveIpNumber><ReserveIpNumber>
  <ReservePdNumber><ReservePdNumber>
```

```
  <FreeIpNumber><FreeIpNumber>
  <FreePdNumber><FreePdNumber>
</Dhcp6ServerPoolStatisticsEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-21T10:12:15</eventTime>
  <DhcpServerPoolStatisticsEvent
xmlns="http://www.h3c.com/netconf/event:1.0/DHCP6:1.0">
    <PoolName>p1</PoolName>
    <Reason>0</Reason>
    <ExpiredIpNumber>1</ExpiredIpNumber>
    <ExpiredPdNumber>1</ExpiredPdNumber>
    <DynamicUsedIpNumber>1<DynamicUsedIpNumber>
    <DynamicUsedPdNumber>1<DynamicUsedPdNumber>
    <ConflictIpNumber>1<ConflictIpNumber>
    <ReserveIpNumber>1<ReserveIpNumber>
    <ReservePdNumber>1<ReservePdNumber>
    <FreeIpNumber>1<FreeIpNumber>
    <FreePdNumber>1<FreePdNumber>
  </DhcpServerPoolStatisticsEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
PoolName	DHCP address pool name	String, case-insensitive. Length: 1 to 63 characters.	N/A
Reason	The reason of the event	Enumeration: • **0**—users change. • **1**—address subnet network application. • **2**—address subnet network release. • **3**—prefix subnet network application. • **4**—prefix subnet network release.	N/A
ExpiredIpNumber	Number of expired IP address leases in the address	Unsigned integer.	N/A
ExpiredPdNumber	Number of expired PD prefix leases in the address	Unsigned integer.	N/A
DynamicUsedIpNumber	Number of used dynamic IP addresses in the address pool	Unsigned integer.	N/A
DynamicUsedPdNumber	Number of used dynamic PD prefixes in the address pool	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
ConflictIpNumber	Number of conflicting IP addresses in the address pool	Unsigned integer.	N/A
ReserveIpNumber	Number of reserved IP addresses in the address pool	Unsigned integer.	N/A
ReservePdNumber	Number of reserved PD prefixes in the address pool	Unsigned integer.	N/A
FreeIpNumber	Number of free IP addresses in the address pool	String.	N/A
FreePdNumber	Number of free PD prefixes in the address pool	String.	N/A

DHCPv6 user protocol event

This event is used to report user DHCPv6 client online or offline events.

XML structure for event subscription

```
<Dhcp6UserProtocolEvent>
</Dhcp6UserProtocolEvent>
Example:
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCP6</stream>
    <filter type="subtree">
      <Dhcp6UserProtocolEvent xmlns="http://www.h3c.com/netconf/event:1.0/DHCP6:1.0">
      </Dhcp6UserProtocolEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCP6
Event name	Dhcp6UserProtocolEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DHCP6:1.0
Support for extended query	No

XML structure for event report

```
<Dhcp6UserProtocolEvent>
  <Time></Time>
  <UserID></UserID>
  <UserMAC></UserMAC>
  <FirstVLAN></FirstVLAN>
  <SecondVLAN></SecondVLAN>
  <SN></SN>
  <Type></Type>
  <SolictTime></SolictTime >
  <AdvertiseTime></AdvertiseTime >
  <RequestTime></RequestTime>
  <RenewTime></RenewTime>
  <RebindTime></RebindTime>
  <ReplyTime></ReplyTime>
  <OffTime></OffTime>
  <Reason></Reason>
  <Errcode></ErrCode>
</Dhcp6UserProtocolEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
    <Dhcp6UserProtocolEvent xmlns="http://www.h3c.com/netconf/event:1.0/DHCP6:1.0">
      <Time>156153943155</Time>
      <UserID>1</UserID>
      <UserMAC>7C-FB-B1-5A-08-16</UserMAC>
      <FirstVLAN>5</FirstVLAN>
      <SecondVLAN>10</SecondVLAN>
      <SN>DUT1</SN>
      <Type>1</Type>
      <SolictTime>1561539343133</SolictTime>
      <AdvertiseTime>1561539343135</AdvertiseTime>
      <RequestTime>1561539343140</RequestTime>
      <RenewTime>0</RenewTime>
      <RebindTime>0</RebindTime>
      <ReplyTime>156153943155</ReplyTime>
      <OffTime>0</OffTime>
      <Errcode>0</ErrCode>
    </Dhcp6UserProtocolEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Time	Incident reporting time	Timestamp accurate to milliseconds	No
UserID	User ID	Unsigned integer.	No
UserMAC	User MAC address	String. Length: 1 to 6 characters.	No
FirstVLAN	Client first VLAN ID	Unsigned integer. Value range: 1 to 4094. Default: 65535	No
SecondVLAN	Client second VLAN ID	Unsigned integer. Value range: 1 to 4094. Default: 65535	No
SN	Service serial number or name	String Length: 1 to 128 characters.	No
Type	Event type	Unsigned integer. Value range: 1 to 255.	No
SolictTime	Time when receiving the SOLICT packet	Timestamp accurate to milliseconds	No
AdvertiseTime	Time when receiving the ADVERTISE packet	Timestamp accurate to milliseconds	No
RequestTime	Time when receiving the REQUEST packet	Timestamp accurate to milliseconds	No
RenewTime	Time when receiving the RENEW packet	Timestamp accurate to milliseconds	No
RebindTime	Time when receiving the REBIND packet	Timestamp accurate to milliseconds	No
ReplyTime	Time when receiving the REPLY packet	Timestamp accurate to milliseconds	No
OffTime	Time when the client is offline	Timestamp accurate to milliseconds	No
Reason	Client offline reason	String Length: 1 to 255 characters.	No
Errcode	Error code number	Unsigned integer. Value range: 0 to 25999	No

Contents

DHCPC 1
DHCPC/DHCPCConfig 1
XML structure 1
Table description 1
Columns 1
DHCPC/DHCPAlloc 1
XML structure 2
Table description 2
Columns 2
DHCPC/DHCPClientID 2
XML structure 3
Table description 3
Columns 3
DHCPC/BootpAlloc 4
XML structure 4
Table description 4
Columns 4
DHCPC/DHCPCIfConfig 5
XML structure 5
Table description 5
Columns 6

DHCPC

DHCPC/DHCPCConfig

This table contains DHCP client configuration information.

XML structure

```
<DHCPC>
  <DHCPCConfig>
    <DadEnable></DadEnable>
    <DSCP></DSCP>
  </DHCPCConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadEnable	Whether the function of duplicated address detection is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
DSCP	Set the DSCP value for DHCP packets sent by the DHCP client	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	A bigger DSCP value represents a higher priority.

DHCPC/DHCPAlloc

This table contains the information about using DHCP for IP address acquisition.

XML structure

```
<DHCPC>
  <DHCPAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </DHCPAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use DHCP for IP address acquisition is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

DHCPC/DHCPClientID

This table contains DHCP client ID configuration information.

XML structure

```
<DHCPC>
  <DHCPClientID>
    <ClientID>
      <IfIndex></IfIndex>
      <ASCII></ASCII>
      <Hex></Hex>
      <ClientIfIndex></ClientIfIndex>
    </ClientID>
  </DHCPClientID>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPClientID
Table type	Multi-instance table
Row name	ClientID
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ASCII	DHCP Client ID in ASCII code type	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	This column cannot be configured with Hex column or ClientIfIndex column together.

Column name	Column description	Column type	Data type and restrictions	Remarks
Hex	DHCP Client ID in hex code type	N/A	Hexadecimal string. Length: 4 to 64 characters.	This column cannot be configured with ASCII column or ClientIfIndex column together.
ClientIfIndex	Uses the MAC address of interface as a DHCP client ID	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. This column cannot be configured with ASCII column or Hex column together.

DHCPC/BootpAlloc

This table contains the information about using BOOTP for IP address acquisition.

XML structure

```
<DHCPC>
  <BootpAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </BootpAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	BootpAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use BOOTP for IP address acquisition is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

DHCPC/DHCPCIfConfig

This table contains DHCP client configuration information on interface.

XML structure

```
<DHCPC>
  <DHCPCIfConfig>
    <IfConfigure>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
      <Priority></Priority>
    </IfConfigure>
  </DHCPCIfConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCIfConfig
Table type	Multi -instance table
Row name	IfConfigure
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
TrackID	Track number	N/A	Unsigned integer. Value range: 1 to 1024.	No track number is set by default.
Priority	Priority of the gateway	N/A	Unsigned integer. Value range: 1 to 255. Default: 70.	The greater the value, the higher the priority.

Contents

DHCPC 1
DHCPC/DHCPCConfig 1
XML structure 1
Table description 1
Columns 1
DHCPC/DHCPAlloc 1
XML structure 2
Table description 2
Columns 2
DHCPC/DHCPClientID 3
XML structure 3
Table description 4
Columns 4
DHCPC/BootpAlloc 5
XML structure 5
Table description 5
Columns 5
DHCPC/DHCPCIfConfig 6
XML structure 6
Table description 6
Columns 7

DHCPC

DHCPC/DHCPCConfig

This table contains DHCP client configuration information.

XML structure

```
<DHCPC>
  <DHCPCConfig>
    <DadEnable></DadEnable>
    <DSCP></DSCP>
  </DHCPCConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadEnable	Whether the function of duplicated address detection is enabled	N/A	Boolean: • **true** • **false**	N/A
DSCP	Set the DSCP value for DHCP packets sent by the DHCP client	N/A	Unsigned integer. Value range: 0 to 63	A bigger DSCP value represents a higher priority.

DHCPC/DHCPAlloc

This table contains the information about using DHCP for IP address acquisition.

XML structure

```
<DHCPC>
  <DHCPAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
      <CurrentState></CurrentState>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv4Mask></AllocatedIpv4Mask>
      <DHCPServerIpv4Address></DHCPServerIpv4Address>
      <Allocatedlease></Allocatedlease>
      <DefaultRouter></DefaultRouter>
      <DNSIpv4Address></DNSIpv4Address>
      <T1></T1>
      <T2></T2>
    </Alloc>
  </DHCPAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
AllocEnable	Whether the function of the interface to use	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DHCP for IP address acquisition is enabled		• **false**	
CurrentState	Current state of the DHCP client	N/A	Enumeration: • **1**—HALT. • **2**—INIT. • **3**—SELECTING. • **4**—REQUESTING. • **5**—BOUND. • **6**—RENEWING. • **7**—REBOUNDING.	N/A
AllocatedIpv4Address	IPv4 address allocated by the DHCP server	N/A	String, dotted decimal notation.	N/A
AllocatedIpv4Mask	IPv4 address mask allocated by the DHCP server	N/A	String, dotted decimal notation.	N/A
DHCPServerIpv4Address	IPv4 address of the DHCP server that assigned IP addresses	N/A	String, dotted decimal notation.	N/A
Allocatedlease	Lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A
DefaultRouter	The gateway address specified for the DHCP client	N/A	String, dotted decimal notation.	N/A
DNSIpv4Address	DNS server addresses	N/A	String, case insensitive. Length: 1 to 255 characters.	You can display a space-separated list of up to sixteen addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
T1	1/2 lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A
T2	7/8 lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A

DHCPC/DHCPClientID

This table contains DHCP client ID configuration information.

XML structure

```
<DHCPC>
```

```
  <DHCPClientID>
    <ClientID>
      <IfIndex></IfIndex>
      <ASCII></ASCII>
      <Hex></Hex>
      <ClientIfIndex></ClientIfIndex>
    </ClientID>
  </DHCPClientID>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPClientID
Table type	Multi-instance table
Row name	ClientID
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
ASCII	DHCP Client ID in ASCII code type	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	This column cannot be configured with Hex column or ClientIfIndex column together.

Column name	Column description	Column type	Data type and restrictions	Remarks
Hex	DHCP Client ID in hex code type	N/A	Hexadecimal string. Length: 4 to 64 characters.	This column cannot be configured with ASCII column or ClientIfIndex column together.
ClientIfIndex	Uses the MAC address of interface as a DHCP client ID	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. This column cannot be configured with ASCII column or Hex column together.

DHCPC/BootpAlloc

This table contains the information about using BOOTP for IP address acquisition.

XML structure

```
<DHCPC>
  <BootpAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv4Mask></AllocatedIpv4Mask>
      <MacAddress></MacAddress>
    </Alloc>
  </BootpAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	BootpAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
AllocEnable	Whether the function of the interface to use BOOTP for IP address acquisition is enabled	N/A	Boolean: • **true** • **false**	N/A
AllocatedIpv4Address	IPv4 address allocated by the BOOTP server	N/A	String, dotted decimal notation.	N/A
AllocatedIpv4Mask	IPv4 address mask allocated by the BOOTP server	N/A	String, dotted decimal notation.	N/A
MacAddress	MAC address of a BOOTP client	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A

DHCPC/DHCPCIfConfig

This table contains DHCP client configuration information on interfaces.

XML structure

```
<DHCPC>
  <DHCPCIfConfig>
    <IfConfigure>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
      <Priority></Priority>
      <NextHop></NextHop>
    </IfConfigure>
  </DHCPCIfConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCIfConfig

Table type	Multi -instance table
Row name	IfConfigure
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
TrackID	Track number	N/A	Unsigned integer. Value range: 1 to 1024.	No track number is set by default.
Priority	Priority of the gateway	N/A	Unsigned integer. Value range: 1 to 255. Default: 70.	The greater the value, the higher the priority.
NextHop	IP address of the next hop	N/A	String, dotted decimal notation.	N/A

Contents

DHCP/dhcpc 1

DHCP/dhcpc

Message	Explanation
The configuration doesn’t meet the requirements. 当前配置不符合配置要求。	The configuration doesn’t meet the requirements, please check your configuration.
Invalid client ID. 非法的客户端ID。	Invalid client ID, please check your client ID.

Contents

DHCPC6 1
DHCPC6/DHCPC6Config 1
XML structure 1
Table description 1
Columns 1
DHCPC6/DHCP6Alloc 1
XML structure 1
Table description 2
Columns 2
DHCPC6/DHCP6PrefixDelegation 3
XML structure 3
Table description 3
Columns 3
DHCPC6/DHCP6Stateless 4
XML structure 4
Table description 4
Columns 5

DHCPC6

DHCPC6/DHCPC6Config

This table contains DHCPv6 client configuration information.

XML structure

```
<DHCPC6>
  <DHCPC6Config>
    <DSCP></DSCP>
  </DHCPC6Config>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCPC6Config
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	Set DSCP value for DHCPv6 packets sent by the DHCPv6 client	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	A bigger DSCP value represents a higher priority.

DHCPC6/DHCP6Alloc

This table contains the information about using DHCPv6 for IPv6 address acquisition.

XML structure

```
<DHCPC6>
  <DHCP6Alloc>
    <Alloc>
      <IfIndex></IfIndex>
```

```
      <AllocEnable></AllocEnable>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </Alloc>
  </DHCP6Alloc>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6Alloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use DHCPv6 for IPv6 address acquisition is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	DHCPv6 client does not create any dynamic DHCPv6 option groups as default. This column is available when the AllocEnable column is **true**.

Column name	Column description	Column type	Data type and restrictions	Remarks
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: • **true** • **false** (default)	This column is available when the AllocEnable column is **true**.

DHCPC6/DHCP6PrefixDelegation

This table contains the information about using DHCPv6 for IPv6 prefix acquisition.

XML structure

```
<DHCPC6>
  <DHCP6PrefixDelegation>
    <PrefixDelegation>
      <IfIndex></IfIndex>
      <PrefixNumber></PrefixNumber>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </PrefixDelegation>
  </DHCP6PrefixDelegation>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6PrefixDelegation
Table type	Multi-instance table
Row name	PrefixDelegation
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PrefixNumber	IPv6 prefix ID	N/A	Unsigned integer. Value range: 1 to 1024.	No prefix ID as default. After obtaining an IPv6 prefix, the client assigns the ID to the IPv6 prefix.
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	DHCPv6 client does not create any dynamic DHCPv6 option groups as default. This column is available when the PrefixNumber column is **set**.
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: • **true** • **false** (default)	This column is available when the PrefixNumber column is **set**.

DHCPC6/DHCP6Stateless

This table contains stateless DHCPv6 configuration information.

XML structure

```
<DHCPC6>
  <DHCP6Stateless>
    <Stateless>
      <IfIndex></IfIndex>
      <StatelessEnable></StatelessEnable>
    </Stateless>
  </DHCP6Stateless>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6Stateless
Table type	Multi-instance table
Row name	Stateless
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view

	Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
StatelessEnable	Whether the function of stateless DHCPv6 is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

Contents

DHCPC6 1
DHCPC6/DHCPC6Config 1
XML structure 1
Table description 1
Columns 1
DHCPC6/DHCP6Alloc 1
XML structure 1
Table description 2
Columns 2
DHCPC6/DHCP6PrefixDelegation 2
XML structure 3
Table description 3
Columns 3
DHCPC6/DHCP6Stateless 4
XML structure 4
Table description 4
Columns 5
DHCPC6/DHCP6ClientInfo 5
XML structure 5
Table description 5
Columns 6

DHCPC6

DHCPC6/DHCPC6Config

This table contains DHCPv6 client configuration information.

XML structure

```
<DHCPC6>
  <DHCPC6Config>
    <DSCP></DSCP>
  </DHCPC6Config>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCPC6Config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	Set DSCP value for DHCPv6 packets sent by the DHCPv6 client	N/A	Unsigned integer. Value range: 0 to 63.	A bigger DSCP value represents a higher priority.

DHCPC6/DHCP6Alloc

This table contains the information about using DHCPv6 for IPv6 address acquisition.

XML structure

```
<DHCPC6>
  <DHCP6Alloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
```

```
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </Alloc>
  </DHCP6Alloc>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6Alloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
AllocEnable	Whether the function of the interface to use DHCPv6 for IPv6 address acquisition is enabled	N/A	Boolean: • **true** • **false**	N/A
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	This column is available when the AllocEnable column is **true**.
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: • **true** • **false**	This column is available when the AllocEnable column is **true**.

DHCPC6/DHCP6PrefixDelegation

This table contains the information about using DHCPv6 for IPv6 prefix acquisition.

XML structure

```
<DHCPC6>
  <DHCP6PrefixDelegation>
    <PrefixDelegation>
      <IfIndex></IfIndex>
      <PrefixNumber></PrefixNumber>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </PrefixDelegation>
  </DHCP6PrefixDelegation>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6PrefixDelegation
Table type	Multi-instance table
Row name	PrefixDelegation
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
PrefixNumber	IPv6 prefix ID	N/A	Unsigned integer. Value range: 1 to 1024.	After obtaining an IPv6 prefix, the client assigns the ID to the IPv6 prefix.

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	This column is available when the PrefixNumber column is **set**.
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: • **true** • **false**	This column is available when the PrefixNumber column is **set**.

DHCPC6/DHCP6Stateless

This table contains stateless DHCPv6 configuration information.

XML structure

```
<DHCPC6>
  <DHCP6Stateless>
    <Stateless>
      <IfIndex></IfIndex>
      <StatelessEnable></StatelessEnable>
    </Stateless>
  </DHCP6Stateless>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6Stateless
Table type	Multi-instance table
Row name	Stateless
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
StatelessEnable	Whether the function of stateless DHCPv6 is enabled	N/A	Boolean: • **true** • **false**	N/A

DHCPC6/DHCP6ClientInfo

This table contains DHCPv6 client information.

XML structure

```
<DHCPC6>
  <DHCP6ClientInfo>
    <ClientInfo>
      <IfIndex></IfIndex>
      <Type></Type>
      <State></State>
      <IAID></IAID>
      <ClientDUID></ClientDUID>
      <ReachableViaIpv6Address></ReachableViaIpv6Address>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <DNSServer></DNSServer>
      <DomainName></DomainName>
      <PreferredLifetime></PreferredLifetime>
      <ValidLifetime></ValidLifetime>
      <T1></T1>
      <T2></T2>
    </ClientInfo>
  </DHCP6ClientInfo>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6ClientInfo
Table type	Multi-instance table
Row name	ClientInfo
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view

	Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Type	Types of DHCPv6 client	Index	Enumeration: • **0**—Stateless client. • **1**—Stateful client requesting prefix. • **2**—Stateful client requesting address.	N/A
State	Current states of the DHCPv6 client	N/A	Enumeration: • **0**—IDLE. • **1**—SOLICIT. • **2**—REQUEST. • **3**—OPEN. • **4**—RENEW. • **5**—REBIND. • **6**—RELEASE. • **7**—DECLINE. • **8**—INFO-REQUESTING.	N/A
IAID	IA identifier	N/A	Hexadecimal string. Length: 1 to 10 characters.	N/A
ClientDUID	DUID of the DHCPv6 client	N/A	Hexadecimal string. Length: 4 to 64 characters.	N/A
ReachableViaIpv6Address	Reachable address for the DHCPv6 client. It is the link local address of the DHCPv6 server or DHCPv6 relay agent	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6Address	IPv6 address obtained.	N/A	Hexadecimal string, colon-separated.	This column is not available when the DHCPv6 client type is Stateless client.
Ipv6PrefixLength	IPv6 prefix length obtained.	N/A	Unsigned integer. Value range: 1 to 128.	This column is not available when the DHCPv6 client type is Stateless client.
DNSServer	IPv6 address of the DNS server	N/A	String, case insensitive.	Seperated by space if there are multiple

Column name	Column description	Column type	Data type and restrictions	Remarks
				addresses. Example: 1::1 2::2 3::3.
DomainName	Domain name suffix	N/A	String, case insensitive. Length: 1 to 50 characters.	N/A
PreferredLifetime	Preferred lifetime in seconds	N/A	Unsigned integer.	N/A
ValidLifetime	Valid lifetime in seconds	N/A	Unsigned integer.	N/A
T1	T1 time value in seconds	N/A	Unsigned integer.	N/A
T2	T2 time value in seconds	N/A	Unsigned integer.	N/A

Contents

DHCP/dhcpc6 1

DHCP/dhcpc6

Message	Explanation
The configuration doesn’t meet the requirements. 当前配置不符合配置要求。	The configuration doesn’t meet the requirements, please check it.
Another interface is using the IPv6 prefix ID. 其它接口已经使用这个IPv6前缀号。	Another interface is using the IPv6 prefix ID, please try another one.

Contents

DHCPSP 1
DHCPSP/DHCPSPUpdateBindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP/DHCPSPClearBinding 1
XML structure 1
Table description 2
Columns 2

DHCPSP

DHCPSP/DHCPSPUpdateBindingDatabase

This table is used to save current DHCP snooping entries to the file.

XML structure

```
<DHCPSP>
  <DHCPSPUpdateBindingDatabase>
    <Update></Update>
  </DHCPSPUpdateBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPUpdateBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Update	Update DHCP snooping database immediately	N/A	String.	This column must be empty.

DHCPSP/DHCPSPClearBinding

This table is used to clear DHCP snooping entries.

XML structure

```
<DHCPSP>
  <DHCPSPClearBinding>
    <ClearBinding>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
```

```
    </ClearBinding>
  </DHCPSPClearBinding>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPUpdateBindingDatabase
Table type	Multi-instance table
Row name	ClearBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	If Ipv4Address is empty, clears all DHCP snooping entries.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	If VLANID is empty, clears the DHCP snooping entry for the specified IP address in all Vlan.

Contents

DHCPSP 1

DHCPSP/DHCPSPBindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP/DHCPSPInterface 2
XML structure 3
Table description 3
Columns 3
DHCPSP/DHCPSPOpt82CircuitIDVLAN 5
XML structure 5
Table description 6
Columns 6
DHCPSP/DHCPSPOpt82RemoteIDVLAN 7
XML structure 7
Table description 7
Columns 7
DHCPSP/DHCPSPOpt82VendorIDVLAN 8
XML structure 8
Table description 9
Columns 9
DHCPSP/DHCPSPOpt82 10
XML structure 10
Table description 11
Columns 11
DHCPSP/DHCPSPConfig 16
XML structure 16
Table description 17
Columns 17
DHCPSP/DHCPSPEthernetServiceInstance 18
XML structure 18
Table description 18
Columns 19
DHCPSP/DHCPSPVsi 19
XML structure 20
Table description 20
Columns 20
DHCPSP/DHCPSPVlanEnable 21
XML structure 21
Table description 21
Columns 21
DHCPSP/DHCPSPVlanTrust 21
XML structure 22
Table description 22
Columns 22
DHCPSP/DHCPSPAPConfigs 22
XML structure 23
Table description 23
Columns 23
DHCPSP/DHCPSPWlanConfigs 26
XML structure 26
Table description 27
Columns 27
DHCPSP/DHCPSPVlanBindingRecord 29
XML structure 30
Table description 30
Columns 30

DHCPSP

DHCPSP/DHCPSPBindingDatabase

This table contains DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPBindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSPBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL cannot be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String, case insensitive.. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String, case insensitive.. Length: 1 to 32 characters.	Cannot be configured for the delete and remove operations.
Password	FTP password	N/A	String, case insensitive.. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Cannot be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCPSP/DHCPSPInterface

This table contains the configuration information on interface about using DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <BindingRecord></BindingRecord>
      <CheckMacAddress></CheckMacAddress>
      <Deny></Deny>
      <CheckGiaddress></CheckGiaddress>
      <Disable></Disable>
      <CheckRequestMessage></CheckRequestMessage>
      <Trust></Trust>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
    </Interface>
  </DHCPSPInterface>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
BindingRecord	Whether enable the interface to record DHCP snooping entry or not.	N/A	Boolean: • **true** • **false** (default)	Applicable to only Layer 2 interfaces of the Restrictions.
CheckMacAddres s	Whether enable the interface to check MAC address in DHCP packets or not.	N/A	Boolean: • **true** • **false**(default)	N/A
Deny	Enable or disable the interface to block DHCP packets	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A
CheckGiaddress	Whether enable the interface to check giaddress in DHCP packets or not.	N/A	Boolean: • **true** • **false**(default)	N/A
Disable	Whether to disable DHCP snooping on the interface	N/A	Boolean: • **true**—Disable. • **false**—Enable (default).	N/A
CheckRequestMe ssage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: • **true** • **false** (default)	Applicable to only Layer 2 interfaces of the Restrictions.

Column name	Column description	Column type	Data type and restrictions	Remarks
Trust	Whether to configure an interface as a trusted interface.	N/A	Boolean: • **true** • **false** (default)	N/A
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. Applicable to only Layer 2 interfaces of the Restrictions. No limit as default. 0 means No limit.

DHCPSP/DHCPSPOpt82CircuitIDVLAN

This table contains DHCP snooping option 82 circuit ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82CircuitIDVLAN>
    <VLANCircuitID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <CircuitID></CircuitID>
    </VLANCircuitID>
  </DHCPSPOpt82CircuitIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82CircuitIDVLAN
Table type	Multi-instance table
Row name	VLANCircuitID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
CircuitID	Option82 circuit ID string	N/A	String, case-insensitive. Length: 3 to 63 characters.	For the merge, create and replace operations, the CircuitID must be configured. For the remove and delete operations, the CircuitID cannot be configured.

DHCPSP/DHCPSPOpt82RemoteIDVLAN

This table contains DHCP snooping option 82 remote ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82RemoteIDVLAN>
    <VLANRemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
      <Sysname></Sysname>
    </VLANRemoteID>
  </DHCPSPOpt82RemoteIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82RemoteIDVLAN
Table type	Multi-instance table
Row name	VLANRemoteID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
RemoteID	Option82 remote ID string	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	For the merge, create and replace operations, the RemoteID and Sysname cannot be configured simultaneously and RemoteID or Sysname must be configured. Cannot be configured for the delete and remove operations.
Sysname	Whether the function of system name fix in option 82 remote ID is used.	N/A	Boolean: • **true** • **false** (default)	For the merge, create and replace operations, the RemoteID and Sysname cannot be configured simultaneously and RemoteID or Sysname must be configured. Cannot be configured for the delete and remove operations.

DHCPSP/DHCPSPOpt82VendorIDVLAN

This table contains DHCP snooping option 82 vendor ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82VendorIDVLAN>
```

```
    <VLANVendorID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <NodeIdentifierType></NodeIdentifierType>
      <UserDefine><UserDefine>
    </VLANVendorID>
  </DHCPSPOpt82VendorIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82VendorIDVLAN
Table type	Multi-instance table
Row name	VLANVendorID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NodeIdentifierTyp	Type of the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
e	access node identifier		• **0**—Bridge MAC address of the access node (default). • **1**—Device name of the acess node. • **2**—User-defined identifier.	
UserDefine	User-defined node identifier	N/A	String, case-sensitive. Length: 1 to 50 characters.	This information must be provided if the node identifier type is user defined. The node identifier cannot contain spaces.

DHCPSP/DHCPSPOpt82

This table contains DHCP snooping option 82 configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82>
    <Option82>
      <IfIndex></IfIndex>
      <Option82Enable></Option82Enable>
      <Strategy></Strategy>
      <Circuit>
        <CircuitID></CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDNodeIDType></CircuitIDNodeIDType>
        <CircuitIDNodeID></CircuitIDNodeID>
        <CircuitIDFormat></CircuitIDFormat>
        <WpSsid></WpSsid>
        <WpBssid></WpBssid>
        <WpApmac></WpApmac>
      </Circuit>
      <Remote>
        <RemoteIDMode></RemoteIDMode>
        <RemoteID></RemoteID>
        <RemoteIDFormat></RemoteIDFormat>
```

```
      </Remote>
      <Vendor>
        <VendorSpecificNodeType></VendorSpecificNodeType>
        <VendorSpecificNodeUserDefine></VendorSpecificNodeUserDefine>
      </Vendor>
    </Option82>
  </DHCPSPOpt82>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82
Table type	Multi-instance table
Row name	Option82
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Option82Enable	Whether enable theDHCP snooping to support Option 82 or not.	N/A	Boolean: • **true**. • **false** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Strategy	Option 82 strategy type	N/A	Enumeration: • **0**—Drop. • **1**—Keep. • **2**—Replace (default).	N/A
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: • CircuitID • CircuitIDMode • CircuitIDNodeIDType • CircuitIDNodeID • CircuitIDFormat	N/A
CircuitID	Circuit ID user defined string	N/A	String, case insensitive. Length: 3 to 63 characters.	For the merge, create and replace operations, the CircuitID must be configured if CircuitIDMode is 2 and cannot be configured if CircuitIDMode is 0 or 1.
CircuitIDMode	Circuit ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—Verbose. • **2**—User-defined. • **4**—Wlan-private	If you specify this parameter, you must also specify the CircuitIDFormat parameter. If you specify CircuitIDMode in a remove or delete operation,CircuitID, CircuitIDNodeIDType, and CircuitIDNodeID will be removed automatically.
CircuitIDNodeIDType	Circuit IP node-identifier type	N/A	Enumeration: • **0**—Mac (default). • **1**—Sysname. • **2**—User-defined.	If CircuitIDNodeIDType is configured for the remove and delete operations, CircuitIDNodeID will be removed automatically.

Column name	Column description	Column type	Data type and restrictions	Remarks
				For the merge, create and replace operations, the CircuitIDNodeIDType can be configured only when CircuitIDMode is 1.
CircuitIDNodeID	Circuit ID node-identifier user defined string	N/A	String, case insensitive. Length: 1 to 50 characters.	For the merge, create and replace operations, the CircuitIDNodeID must be configured if CircuitIDNodeIDType is 2 and cannot be configured if CircuitIDNodeIDType is 0 or 1.
CircuitIDFormat	Circuit ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii. • **2**—Undefined.	It must be configured together with the CircuitIDMode. CircuitIDFormat must be 1 if CircuitIDMode is 2. The default CircuitIDFormat is Hex when CircuitIDMode is Normal; The default CircuitIDFormat is Undefined when CircuitIDMode is Verbose; The default CircuitIDFormat is Ascii when CircuitIDMode is User-defined.
WpSsid	SSID to be added in the Circuit ID suboption in wlan-private	N/A	String, case insensitive. Length: 1 to 32 characters.	To include this parameter in the request, you must set the CircuitIDMode to 4.

Column name	Column description	Column type	Data type and restrictions	Remarks
	padding mode			You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2.
WpBssid	BSSID to be added in the Circuit ID suboption in wlan-private padding mode	N/A	MAC address, in H-H-H format.	To include this parameter in the request, you must set the CircuitIDMode to 4. You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2. The specified MAC address cannot be a multicast, all-zero, or all-F MAC address. When you specify the MAC address, you can omit the leading zeros in each segment of the MAC address. For example, you can enter **f-e2-1** for **000f-00e2-0001**.
WpApmac	AP-MAC to be added in the Circuit ID suboption in wlan-private padding mode	N/A	MAC address, in H-H-H format.	To include this parameter in the request, you must set the CircuitIDMode to 4. You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2. The specified MAC address cannot be a multicast, all-zero, or all-F MAC address. When you specify the MAC address, you can omit the leading zeros in

Column name	Column description	Column type	Data type and restrictions	Remarks
				each segment of the MAC address. For example, you can enter **f-e2-1** for **000f-00e2-0001**.
Remote	The configuration of Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteID • RemoteIDFormat	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—Sysname. • **2**—User-defined.	It must be configured together with the RemoteIDFormat. If RemoteIDMode is configured for the remove and delete operations, RemoteID will be removed automatically.
RemoteID	Remote ID user defined string	N/A	String, case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 2 and cannot be configured if RemoteIDMode is 0 or 1.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with the RemoteIDMode. RemoteIDFormat must be 1 if RemoteIDMode is 1 or 2. The default RemoteIDFormat is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ascii when CircuitIDMode is Sysname or User-defined;
Vendor	The configuration of Vendor ID sub-option	Data structure	Members include: • VendorSpecificNodeType • VendorSpecificNodeUserDefine	N/A
VendorSpecifcNodeType	The type of node identifier content.	N/A	Enumeration: • **0**—mac(default). • **1**—sysname. • **2**—user-defined.	N/A
VendorSpecificNodeUserDefine	The content of node identifier when type is user-defined.	N/A	String, case-sensitive. Length: 1 to 50 characters.	The node identifier cannot contain spaces.

DHCPSP/DHCPSPConfig

This table contains DHCP snooping configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPConfig>
    <DHCPSPEnable></DHCPSPEnable>
    <DHCPSPAlarmGiaddrEnable></DHCPSPAlarmGiaddrEnable>
    <DHCPSPAlarmGiaddrThreshold></DHCPSPAlarmGiaddrThreshold>
    <DHCPSPAlarmMacAddrEnable></DHCPSPAlarmMacAddrEnable>
    <DHCPSPAlarmMacAddrThreshold></DHCPSPAlarmMacAddrThreshold>
    <DHCPSPAlarmRequestMessageAddrEnable></DHCPSPAlarmRequestMessageAddrEnable>
    <DHCPSPAlarmRequestMessageThreshold></DHCPSPAlarmRequestMessageThreshold>
    <DHCPSPClientDetect></DHCPSPClientDetect>
    <DHCPSPLogEnable></DHCPSPLogEnable>
  </DHCPSPConfig>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPSPEnable	Whether the function of DHCP snooping is enabled.	N/A	Boolean: • **true**. • **false** (default)	N/A
DHCPSPAlarmGiaddrEnable	Whether the function of DHCP snooping gia address alarm is enabled.	N/A	Boolean: • **true**. • **false** (default)	N/A
DHCPSPAlarmGiaddrThreshold	The threshold of snooping gia address alarm	N/A	Unsigned integer. Value range: 1 to 1000. Default:100	N/A
DHCPSPAlarmMacAddrEnable	Whether the function of DHCP snooping mac address is enabled.	N/A	Boolean: • **true**. • **false** (default)	N/A
DHCPSPAlarmMacAddrThreshold	The threshold of snooping mac address alarm	N/A	Unsigned integer. Value range: 1 to 1000. Default:100	N/A
DHCPSPAlarmR	Whether the	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
equestMessageAddrEnable	function of DHCP snooping request message is enabled.		• **true**. • **false** (default)	
DHCPSPAlarmRequestMessageThreshold	The threshold of snooping request message alarm	N/A	Unsigned integer. Value range: 1 to 1000. Default:100	N/A
DHCPSPClientDetect	Whether the function of DHCP snooping client detect is enabled.	N/A	Boolean: • **true**. • **false** (default)	N/A
DHCPSPLogEnable	DHCP snooping logging	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

DHCPSP/DHCPSPEthernetServiceInstance

This table contains the Ethernet service instance configuration information of DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPEthernetServiceInstance>
    <EthernetServiceInstance>
      <IfIndex></IfIndex>
      <ServiceInstance></ServiceInstance>
      <Trust></Trust>
    </EthernetServiceInstance>
  </DHCPSPEthernetServiceInstance>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP

Item	Description
Table name	DHCPSPEthernetServiceInstance
Table type	Multi-instance table
Row name	EthernetServiceInstance
Restrictions	This table supports only Layer 2 Ethernet interfaces or Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ServiceInstance	Service instance ID.	Index	Unsigned integer.	N/A
Trust	Whether to configure the interface for the Ethernet service instance as a trusted interface.	N/A	Boolean: • **true** • **false** (default)	N/A

DHCPSP/DHCPSPVsi

This table contains the VSI configuration information of DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPVsi>
    <Vsi>
      <VsiName></VsiName>
      <BindingRecord></BindingRecord>
      <TrustTunnel></TrustTunnel>
    </Vsi>
  </DHCPSPVsi>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVsi
Table type	Multi-instance table
Row name	Vsi
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.
BindingRecord	Whether to enable recording DHCP snooping entries in the VSI.	N/A	Boolean: • **true** • **false** (default)
TrustTunnel	Whether to configure the tunnel interface of the VSI as a trusted interface.	N/A	Boolean: • **true** • **false** (default)

DHCPSP/DHCPSPVlanEnable

This table contains information about the DHCPSP vlan enable.

XML structure

```
<DHCPSP>
  <DHCPSPVlanEnable>
    <Vlans>
      <StartVlan></StartVlan>
      <EndVlan></EndVlan>
    </Vlans>
  </DHCPSPVlanEnable>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanEnable
Table type	Multi-instance table
Row name	Vlans
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlan	Start VLAN	Index	Unsigned integer. Value range: 1 to 4094.	N/A
EndVlan	End VLAN	Index	Unsigned integer. Value range: 1 to 4094.	N/A

DHCPSP/DHCPSPVlanTrust

This table contains information about the DHCPSP Trust.

XML structure

```
<DHCPSP>
  <DHCPSPVlanTrust>
    <Vlan>
      <VlanIndex></VlanIndex>
      <TrustInterface></TrustInterface>
    </Vlan>
  </DHCPSPVlanTrust>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanTrust
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIndex	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
TrustInterface	Name of a DHCP snooped trusted interface	Index	String, case-insensitive. Length: 1 to 47 characters.	N/A

DHCPSP/DHCPSPAPConfigs

This table contains AP DHCP snooping configuration.

XML structure

```
<DHCPSP>
  <DHCPSPAPConfigs>
    <DHCPSPAPConfig>
      <APName></APName>
      <DHCPSPEnable></DHCPSPEnable>
      <Option82Enable></Option82Enable>
      <CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDFormat></CircuitIDFormat>
      </CircuitID>
      <RemoteID>
        <RemoteIDMode></RemoteIDMode>
        <RemoteIDFormat></RemoteIDFormat>
        <RemoteIDString></RemoteIDString>
      </RemoteID>
    </DHCPSPAPConfig>
  </DHCPSPAPConfigs>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPAPConfigs
Table type	Multi-instance table
Row name	DHCPSPAPConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
APName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A

DHCPSPEnable	Whether to enable the function of AP DHCP snooping	N/A	Boolean: • **true** • **false** (default)	N/A
Option82Enable	Whether to enable the AP DHCP snooping to support Option 82	N/A	Boolean: • **true** • **false** (default)	N/A
CircuitID	Configuration of AP Circuit ID sub-option	Data structure	Members include: • CircuitIDMode	N/A
CircuitIDMode	AP Circuit ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—Wlan-private. • **2—**Wlan-private encoded	N/A
CircuitIDFormat	AP Circuit ID format	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with CircuitIDMode. CircuitIDFormat must be Hex or Ascii. if CircuitIDMode is Normal, The default CircuitIDFormat is Hex. If CircuitIDMode is wlan-private. The default CircuitIDFormat is ascii.
RemoteID	Configuration of Wlan Remote ID	Data structure	Members include:	N/A

	sub-option		• RemoteIDMode • RemoteIDFormat • RemoteIDString	
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—User-defined. • **2** —None.	It must be configured together with the RemoteIDFormat if RemoteIDMode is 0 or 1. If RemoteIDMode is configured for the remove and delete operations, RemoteID will be removed automatically.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with the RemoteIDMode if RemoteIDMode is 0 or 1. RemoteIDFormat must be 1 if RemoteIDMode is 1. The default RemoteIDFormat is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is Ascii when

				CircuitIDMode is User-defined;
RemoteIDString	Remote ID user defined string	N/A	String, case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 1 and cannot be configured if RemoteIDMode is 0 or 2.

DHCPSP/DHCPSPWlanConfigs

This table contains Wlan DHCP snooping configuration.

XML structure

```
<DHCPSP>
  <DHCPSPWlanConfigs>
    <DHCPSPWlanConfig>
      <ServiceTemplateName></ServiceTemplateName>
      <Option82Enable></Option82Enable>
      <CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDFormat></CircuitIDFormat>
      </CircuitID>
      <RemoteID>
        <RemoteIDMode></RemoteIDMode>
        <RemoteIDFormat></RemoteIDFormat>
        <RemoteIDString></RemoteIDString>
      </RemoteID>
    </DHCPSPWlanConfig>
  </DHCPSPWlanConfigs>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPWlanConfigs
Table type	Multi-instance table
Row name	DHCPSPWlanConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
ServiceTemplateName	Service Template Name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
Option82Enable	Whether to enable the Wlan DHCP snooping to support Option 82	N/A	Boolean: • **true** • **false** (default)	N/A
CircuitID	Configuration of Wlan Circuit ID sub-option	Data structure	Members include: • CircuitIDMode • CircuitIDFormat	N/A
CircuitIDMode	Wlan Circuit ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—Wlan-private. • **2**—Wlan-private encoded	It must be configured together with the CircuitIDFormat column.
CircuitIDFormat	Wlan Circuit ID format	N/A	Enumeration: • **0**—Hex. • **1**—Ascii. • **2**—Undefined.	It must be configured together with the CircuitIDMode column. CircuitIDFormat

				must be Hex or Ascii if CircuitIDMode is Normal. The default CircuitIDFormat is Hex when CircuitIDMode is Normal. The default CircuitIDFormat is Ascii when CircuitIDMode is Wlan-private or Wlan-private encoded. To specify Ascii as the CircuitIDFormat in wlan-private or wlan-private encoded mode, set the value for this column to 1 or 2.
RemoteID	Configuration of Wlan Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteIDFormat • RemoteIDString	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal (default). • **1**—User-defined. • **2**—None.	It must be configured together with the RemoteIDFormat if RemoteIDMode is 0 or 1. If RemoteIDMode is configured for the remove and

				delete operations, RemoteID will be removed automatically.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with the RemoteIDMode if RemoteIDMode is 0 or 1. RemoteIDFormat must be 1 if RemoteIDMode is 1. The default RemoteIDFormat is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is Ascii when CircuitIDMode is User-defined;
RemoteIDString	Remote ID user defined string	N/A	String, case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 1 and cannot be configured if RemoteIDMode is 0 or 2.

DHCPSP/DHCPSPVlanBindingRecord

This table contains information about configuration of VLAN DHCPSP entry recording.

XML structure

```
<DHCPSP>
  <DHCPSPVlanBindingRecord>
    <Vlan>
      <VlanID></VlanID>
      <BindingRecord></BindingRecord>
    </Vlan>
  </DHCPSPVlanBindingRecord>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanBindingRecord
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
BindingRecord	Whether to enable DHCP snooping entry recording for the VLAN	N/A	Boolean: • **true** • **false** (default).	N/A

Contents

DHCPSP 1

DHCPSP/DHCPSPBindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP/DHCPSPInterface 2
XML structure 2
Table description 2
Columns 3
DHCPSP/DHCPSPOpt82CircuitIDVLAN 5
XML structure 5
Table description 5
Columns 5
DHCPSP/DHCPSPOpt82RemoteIDVLAN 6
XML structure 6
Table description 6
Columns 6
DHCPSP/DHCPSPOpt82VendorIDVLAN 7
XML structure 7
Table description 7
Columns 7
DHCPSP/DHCPSPOpt82 8
XML structure 8
Table description 9
Columns 9
DHCPSP/DHCPSPBinding 14
XML structure 14
Table description 14
Columns 14
DHCPSP/DHCPSPConfig 15
XML structure 15
Table description 15
Columns 16
DHCPSP/DHCPSPSpecification 17
XML structure 17
Table description 17
Columns 17
DHCPSP/DHCPSPEthernetServiceInstance 18
XML structure 18
Table description 18
Columns 18
DHCPSP/DHCPSPVsi 19
XML structure 19
Table description 19
Columns 20
DHCPSP/DHCPSPVlanEnable 20
XML structure 20
Table description 21
Columns 21
DHCPSP/DHCPSPVlanTrust 21
XML structure 21
Table description 22
Columns 22
DHCPSP/DHCPSPAPConfigs 22
XML structure 22
Table description 23
Columns 23

DHCPSP/DHCPSPWlanConfigs 26
XML structure 26
Table description 26
Columns 26
DHCPSP/DHCPSPVlanBindingRecord 29
XML structure 29
Table description 29
Columns 30

DHCPSP

DHCPSP/DHCPSPBindingDatabase

This table contains DHCP snooping binding database information.

XML structure

```
<DHCPSP>
  <DHCPSPBindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSPBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Object file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string	N/A	String, case-insensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String, case-insensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 32 characters.
Password	FTP password	N/A	String, case-insensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds.

DHCPSP/DHCPSPInterface

This table contains the configuration information on interface about using DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <BindingRecord></BindingRecord>
      <CheckMacAddress></CheckMacAddress>
      <Deny></Deny>
      <CheckGiaddress></CheckGiaddress>
      <Disable></Disable>
      <CheckRequestMessage></CheckRequestMessage>
      <Trust></Trust>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
    </Interface>
  </DHCPSPInterface>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types:

	Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
BindingRecord	Whether enable the interface to record DHCP snooping entry or not.	N/A	Boolean: • **true** • **false**	Applicable to only Layer 2 interfaces of the Restrictions.
CheckMacAddress	Whether enable the interface to check MAC address in DHCP packets or not.	N/A	Boolean: • **true** • **false**	N/A
Deny	Enable or disable the interface to block DHCP packets	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A
CheckGiaddress	Whether enable the interface to check giaddress in DHCP packets or not.	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Disable	Whether to disable DHCP snooping on the interface	N/A	Boolean: • **true**—Disable. • **false**—Enable (default).	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: • **true** • **false**	Applicable to only Layer 2 interfaces of the Restrictions.
Trust	Whether to configure an interface as a trustd interface.	N/A	Boolean: • **true** • **false**	N/A
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. Applicable to only Layer 2 interfaces of the Restrictions.

DHCPSP/DHCPSPOpt82CircuitIDVLAN

This table contains DHCP snooping option 82 circuit ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82CircuitIDVLAN>
    <VLANCircuitID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <CircuitID></CircuitID>
    </VLANCircuitID>
  </DHCPSPOpt82CircuitIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82CircuitIDVLAN
Table type	Multi-instance table
Row name	VLANCircuitID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
CircuitID	Option82 circuit ID string	N/A	String, case-insensitive. Length: 3 to 63 characters. The string must be ASCII string.

DHCPSP/DHCPSPOpt82RemoteIDVLAN

This table contains DHCP snooping option 82 remote ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82RemoteIDVLAN>
    <VLANRemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
      <Sysname></Sysname>
    </VLANRemoteID>
  </DHCPSPOpt82RemoteIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82RemoteIDVLAN
Table type	Multi-instance table
Row name	VLANRemoteID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
RemoteID	Option82 remote ID string	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.

Column name	Column description	Column type	Data type and restrictions
Sysname	Whether the function of system name fix in option 82 remote ID is used.	N/A	Boolean: • **true** • **false**

DHCPSP/DHCPSPOpt82VendorIDVLAN

This table contains DHCP snooping option 82 vendor ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82VendorIDVLAN>
    <VLANVendorID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <NodeIdentifierType></NodeIdentifierType>
      <UserDefine><UserDefine>
    </VLANVendorID>
  </DHCPSPOpt82VendorIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82VendorIDVLAN
Table type	Multi-instance table
Row name	VLANVendorID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces

Column name	Column description	Column type	Data type and restrictions	Remarks
				are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NodeIdentifierType	Type of the access node identifier	N/A	Enumeration: • **0**—Bridge MAC address of the access node (default). • **1**—Device name of the acess node. • **2**—User-defined identifier.	N/A
UserDefine	User-defined node identifier	N/A	String, case-sensitive. Length: 1 to 50 characters.	This information must be provided if the node identifier type is user defined. The node identifier cannot contain spaces.

DHCPSP/DHCPSPOpt82

This table contains DHCP snooping option 82 configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82>
    <Option82>
```

```
      <IfIndex></IfIndex>
      <Option82Enable></Option82Enable>
      <Strategy></Strategy>
      <Circuit>
        <CircuitID></CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDNodeIDType></CircuitIDNodeIDType>
        <CircuitIDNodeID></CircuitIDNodeID>
        <CircuitIDFormat></CircuitIDFormat>
        <WpSsid></WpSsid>
        <WpBssid></WpBssid>
        <WpApmac></WpApmac>
      </Circuit>
      <Remote>
        <RemoteIDMode></RemoteIDMode>
        <RemoteID></RemoteID>
        <RemoteIDFormat></RemoteIDFormat>
      </Remote>
      <Vendor>
        <VendorSpecificNodeType></VendorSpecificNodeType>
        <VendorSpecificNodeUserDefine></VendorSpecificNodeUserDefine>
      </Vendor>
    </Option82>
  </DHCPSPOpt82>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82
Table type	Multi-instance table
Row name	Option82
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface names. For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				XSD document for your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Option82Enable	Whether enable the DHCP snooping to support Option 82 or not.	N/A	Boolean: • **true** • **false**	N/A
Strategy	Option 82 strategy type	N/A	Enumeration: • **0**—Drop. • **1**—Keep. • **2**—Replace.	N/A
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: • CircuitID • CircuitIDMode • CircuitIDNodeIDType • CircuitIDNodeID • CircuitIDFormat	N/A
CircuitID	Circuit ID user defined string	N/A	String, case-insensitive. Length: 3 to 63 characters.	When you perform a merge, create, or replace operation, you must specify the CircuitID parameter if CircuitIDMode is 2. Do not specify the CircuitID parameter if CircuitIDMode is 0 or 1.
CircuitIDMode	Circuit ID mode	N/A	Enumeration: • **0**—Normal. • **1**—Verbose. • **2**—User-defined. • **4**—Wlan-private	If you specify this parameter, you must also specify the CircuitIDFormat parameter. If you specify CircuitIDMode in a remove or delete operation,CircuitID,

Column name	Column description	Column type	Data type and restrictions	Remarks
				CircuitIDNodeIDType, and CircuitIDNodeID will be removed automatically.
CircuitIDNodeIDType	Circuit IP node-identifier type	N/A	Enumeration: • **0**—Mac. • **1**—Sysname. • **2**—User-defined.	If you specify CircuitIDNodeIDType in a remove or delete operation, CircuitIDNodeID will be removed automatically. When you perform a merge, create, or replace operation, you can configure CircuitIDNodeIDType only when the value for CircuitIDMode is 1.
CircuitIDNodeID	Circuit ID node-identifier user defined string	N/A	String, case-insensitive. Length: 1 to 50 characters.	When you perform a merge, create, or replace operation, you must specify the CircuitIDNodeID parameter if CircuitIDNodeIDType is 2. Do not specify the CircuitIDNodeID parameter if CircuitIDNodeIDType is 0 or 1.
CircuitIDFormat	Circuit ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii. • **2**—Undefined.	If you specify this parameter, you must also specify the CircuitIDMode parameter. CircuitIDFormat must be 1 if CircuitIDMode is 2. The default CircuitIDFormat is Hex when CircuitIDMode is set to 0 (normal mode). The default CircuitIDFormat is Undefined when CircuitIDMode is set to 1 (verbose mode). The default CircuitIDFormat is Ascii when CircuitIDMode is set to 2 (user-defined

Column name	Column description	Column type	Data type and restrictions	Remarks
				mode).
WpSsid	SSID to be added in the Circuit ID suboption in wlan-private padding mode	N/A	String, case insensitive. Length: 1 to 32 characters.	To include this parameter in the request, you must set the CircuitIDMode to 4. You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2.
WpBssid	BSSID to be added in the Circuit ID suboption in wlan-private padding mode	N/A	MAC address, in H-H-H format.	To include this parameter in the request, you must set the CircuitIDMode to 4. You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2. The specified MAC address cannot be a multicast, all-zero, or all-F MAC address. When you specify the MAC address, you can omit the leading zeros in each segment of the MAC address. For example, you can enter **f-e2-1** for **000f-00e2-0001**.
WpApmac	AP-MAC to be added in the Circuit ID suboption in wlan-private padding mode	N/A	MAC address, in H-H-H format.	To include this parameter in the request, you must set the CircuitIDMode to 4. You cannot include this parameter in the request if CircuitIDNodeIDType is set to 0,1 or 2. The specified MAC address cannot be a multicast, all-zero, or all-F MAC address. When you specify the MAC address, you can omit the leading zeros in

Column name	Column description	Column type	Data type and restrictions	Remarks
				each segment of the MAC address. For example, you can enter **f-e2-1** for **000f-00e2-0001**.
Remote	The configuration of Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteID RemoteIDFormat	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal. • **1**—Sysname. • **2**—User-defined.	If you specify this parameter, you must also specify RemoteIDFormat. If you specify RemoteIDMode in a remove or delete operation, RemoteID will be removed automatically.
RemoteID	Remote ID user defined string	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	N/A
Vendor	The configuration of Vendor ID sub-option	Data structure	Members include: • VendorSpecificNodeType • VendorSpecificNodeUserDefine	N/A
VendorSpecificNodeType	The type of node identifier content.	N/A	Enumeration: • **0**—mac • **1**—sysname • **2**—user-defined	N/A
VendorSpecificNodeUserDefine	The content of node identifier when type is user-define	N/A	String, case-sensitive. Length: 1 to 50 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	d.			

DHCPSP/DHCPSPBinding

This table contains DHCP snooping entries information.

XML structure

```
<DHCPSP>
  <DHCPSPBinding>
    <Binding>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
      <SVLANID></SVLANID>
      <MacAddress></MacAddress>
      <Lease></Lease>
      <IfIndex></IfIndex>
    </Binding>
  </DHCPSPBinding>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPBinding
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
VLANID	VLAN ID	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 4094.
SVLANID	Second VLAN ID	Index	Unsigned integer. Value range: 1 to 4094 and 65535. 65535 means do not have SVLANID.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
Lease	Left Lease time	N/A	Unsigned integer.
IfIndex	Interface index	N/A	Unsigned integer.

DHCPSP/DHCPSPConfig

This table contains DHCP snooping configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPConfig>
    <DHCPSPEnable></DHCPSPEnable>
    <DHCPSPAlarmGiaddrEnable></DHCPSPAlarmGiaddrEnable>
    <DHCPSPAlarmGiaddrThreshold></DHCPSPAlarmGiaddrThreshold>
    <DHCPSPAlarmMacAddrEnable></DHCPSPAlarmMacAddrEnable>
    <DHCPSPAlarmMacAddrThreshold></DHCPSPAlarmMacAddrThreshold>
    <DHCPSPAlarmRequestMessageAddrEnable></DHCPSPAlarmRequestMessageAddrEnable>
    <DHCPSPAlarmRequestMessageThreshold></DHCPSPAlarmRequestMessageThreshold>
    <DHCPSPClientDetect></DHCPSPClientDetect>
    <DHCPSPLogEnable></DHCPSPLogEnable>
  </DHCPSPConfig>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPConfig
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPSPEnable	Whether the function of DHCP snooping is enabled.	N/A	Boolean: • **True** • **false**	N/A
DHCPSPAlarmGiaddrEnable	Whether the function of DHCP snooping gia address alarm is enabled.	N/A	Boolean: • **true**. • **false**	N/A
DHCPSPAlarmGiaddrThreshold	The threshold of snooping gia address alarm	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
DHCPSPAlarmMacAddrEnable	Whether the function of DHCP snooping mac address is enabled.	N/A	Boolean: • **true**. • **false**	N/A
DHCPSPAlarmMacAddrThreshold	The threshold of snooping mac address alarm	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
DHCPSPAlarmRequestMessageAddrEnable	Whether the function of DHCP snooping request message is enabled.	N/A	Boolean: • **true**. • **false**	N/A
DHCPSPAlarmRequestMessageThreshold	The threshold of snooping request message alarm	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
DHCPSPClientDetect	Whether the function of DHCP snooping client	N/A	Boolean: • **true**. • **false**	N/A

	detect is enabled.			
DHCPSPLogEnable	DHCP snooping logging	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

DHCPSP/DHCPSPSpecification

This table contains DHCP snooping specification information.

XML structure

```
<DHCPSP>
  <DHCPSPSpecification>
    <RateLimitMinNum></RateLimitMinNum>
    <RateLimitMaxNum></RateLimitMaxNum>
  </DHCPSPSpecification>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitMinNum	The minimum rate number can be configured	N/A	Unsigned integer.	N/A
RateLimitM	The maximum rate number can be	N/A	Unsigned integer.	A value of 0 means that

Column name	Column description	Column type	Data type and restrictions	Remarks
axNum	configured			rate limit isn't supported.

DHCPSP/DHCPSPEthernetServiceInstance

This table contains the Ethernet service instance configuration information of DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPEthernetServiceInstance>
    <EthernetServiceInstance>
      <IfIndex></IfIndex>
      <ServiceInstance></ServiceInstance>
      <Trust></Trust>
    </EthernetServiceInstance>
  </DHCPSPEthernetServiceInstance>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPEthernetServiceInstance
Table type	Multi-instance table
Row name	EthernetServiceInstance
Restrictions	This table supports only Layer 2 Ethernet interfaces or Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ServiceInstance	Service instance ID	Index	Unsigned integer.	N/A
Trust	Whether to configure the interface for the Ethernet service instance as a trusted interface	N/A	Boolean: • **true** • **false**	N/A

DHCPSP/DHCPSPVsi

This table contains the VSI configuration information of DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPVsi>
    <Vsi>
      <VsiName></VsiName>
      <BindingRecord></BindingRecord>
      <TrustTunnel></TrustTunnel>
    </Vsi>
  </DHCPSPVsi>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVsi
Table type	Multi-instance table

Item	Description
Row name	Vsi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.
BindingRecord	Whether to enable recording DHCP snooping entries in the VSI.	N/A	Boolean: • **true** • **false**
TrustTunnel	Whether to configure the tunnel interface of the VSI as a trusted interface.	N/A	Boolean: • **true** • **false**

DHCPSP/DHCPSPVlanEnable

This table contains information about the DHCPSP vlan enable.

XML structure

```
<DHCPSP>
  <DHCPSPVlanEnable>
    <Vlans>
      <StartVlan></StartVlan>
      <EndVlan></EndVlan>
    </Vlans>
  </DHCPSPVlanEnable>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanEnable
Table type	Multi-instance table
Row name	Vlans
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlan	Start Vlan	Index	Unsigned integer. Value range: 1 to 4094.	N/A
EndVlan	End Vlan	Index	Unsigned integer. Value range: 1 to 4094.	N/A

DHCPSP/DHCPSPVlanTrust

This table contains information about the DHCPSP trust.

XML structure

```
<DHCPSP>
  <DHCPSPVlanTrust>
    <Vlan>
      <VlanIndex></VlanIndex>
      <TrustInterface></TrustInterface>
    </Vlan>
  </DHCPSPVlanTrust>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanTrust
Table type	Multi-instance table
Row name	Vlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIndex	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
TrustInterface	Name of a DHCP snooped trusted interface	Index	String, case-insensitive. Length: 1 to 47 characters.	N/A

DHCPSP/DHCPSPAPConfigs

This table contains AP DHCP snooping configuration.

XML structure

```
<DHCPSP>
  <DHCPSPAPConfigs>
    <DHCPSPAPConfig>
      <APName></APName>
      <DHCPSPEnable></DHCPSPEnable>
      <Option82Enable></Option82Enable>
      <CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDFormat></CircuitIDFormat>
      </CircuitID>
       <RemoteID>
        <RemoteIDMode></RemoteIDMode>
        <RemoteIDFormat></RemoteIDFormat>
```

```
      <RemoteIDString></RemoteIDString>
    </RemoteID>
  </DHCPSPAPConfig>
 </DHCPSPAPConfigs>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPAPConfigs
Table type	Multi-instance table
Row name	DHCPSPAPConfig
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
APName	AP name	Index	String, case-sensitive. Length: 1 to 64 characters.	N/A
DHCPSPEnable	Whether to enable the function of AP DHCP snooping	N/A	Boolean: • **true** • **false**	N/A
Option82Enable	Whether to enable the AP DHCP snooping to support Option 82	N/A	Boolean: • **true** • **false**	N/A
CircuitID	Configuration of AP Circuit ID sub-option	Data structure	Members include: • CircuitIDMode	N/A
CircuitIDMode	AP Circuit ID mode	N/A	Enumeration: • **0**—Normal.. • **1**—Wlan-private. • **2**—Wlan-private encoded	It must be configured together with the

				CircuitIDFormat.
CircuitIDFormat	AP Circuit ID format	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with CircuitIDMode. CircuitIDFormat must be Hex or Ascii. if CircuitIDMode is Normal, The default CircuitIDFormat is Hex. if CircuitIDMode is wlan-private. The default CircuitIDFormat is ascii.
RemoteID	Configuration of Wlan Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteIDFormat • RemoteIDString	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal • **1**—User-defined. • **2**—None.	It must be configured together with the RemoteIDFormat if RemoteIDMode is 0 or 1. If RemoteIDMode is configured for the remove and delete

				operations, RemoteID will be removed automatically.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with the RemoteIDMode if RemoteIDMode is 0 or 1. RemoteIDFormat must be 1 if RemoteIDMode is 1. The default RemoteIDFormat is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is Ascii when CircuitIDMode is User-defined;
RemoteIDString	Remote ID user defined string	N/A	String, case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 1 and cannot be configured if RemoteIDMode is 0 or 2.

DHCPSP/DHCPSPWlanConfigs

This table contains Wlan DHCP snooping configuration.

XML structure

```
<DHCPSP>
  <DHCPSPWlanConfigs>
    <DHCPSPWlanConfig>
      <ServiceTemplateName></ServiceTemplateName>
      <Option82Enable></Option82Enable>
      <CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDFormat></CircuitIDFormat>
      </CircuitID>
      <RemoteID>
        <RemoteIDMode></RemoteIDMode>
        <RemoteIDFormat></RemoteIDFormat>
        <RemoteIDString></RemoteIDString>
      </RemoteID>
    </DHCPSPWlanConfig>
  </DHCPSPWlanConfigs>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPWlanConfigs
Table type	Multi-instance table
Row name	DHCPSPWlanConfig
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
ServiceTemplate	Service Template	Index	String, case-sensitive.	N/A

Name	Name		Length: 1 to 64 characters.	
Option82Enable	Whether to enable the Wlan DHCP snooping to support Option 82	N/A	Boolean: • **true** • **false**	N/A
CircuitID	Configuration of Wlan Circuit ID sub-option	Data structure	Members include: • CircuitIDMode • CircuitIDFormat	N/A
CircuitIDMode	Wlan Circuit ID mode	N/A	Enumeration: • **0**—Normal • **1**—Wlan-private. • **2**—Wlan-private encoded	It must be configured together with the CircuitIDFormat column.
CircuitIDFormat	Wlan Circuit ID format	N/A	Enumeration: • **0**—Hex. • **1**—Ascii. • **2**—Undefined.	It must be configured together with the CircuitIDMode column. CircuitIDFormat must be Hex or Ascii if CircuitIDMode is Normal. The default CircuitIDFormat is Hex when CircuitIDMode is Normal. The default CircuitIDFormat is Ascii when CircuitIDMode is Wlan-private or Wlan-private encoded. To specify Ascii as the CircuitIDForma

				t in wlan-private or wlan-private encoded mode, set the value for this column to 1 or 2.
RemoteID	Configuration of Wlan Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteIDFormat • RemoteIDString	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • **0**—Normal • **1**—User-defined • **2**—None.	It must be configured together with the RemoteIDFormat if RemoteIDMode is 0 or 1 If RemoteIDMode is configured for the remove and delete operations, RemoteID will be removed automatically.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • **0**—Hex. • **1**—Ascii.	It must be configured together with the RemoteIDMode if RemoteIDMode is 0 or 1. RemoteIDFormat must be 1 if RemoteIDMode is 1. The default RemoteIDForma

				t is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is Ascii when CircuitIDMode is User-defined;
RemoteIDString	Remote ID user defined string	N/A	String, case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 1 and cannot be configured if RemoteIDMode is 0 or 2.

DHCPSP/DHCPSPVlanBindingRecord

This table contains information about configuration of VLAN DHCPSP entry recording.

XML structure

```
<DHCPSP>
  <DHCPSPVlanBindingRecord>
    <Vlan>
      <VlanID></VlanID>
      <BindingRecord></BindingRecord>
    </Vlan>
  </DHCPSPVlanBindingRecord>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPVlanBindingRecord

Item	Description
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
BindingRecord	Whether to enable DHCP snooping entry recording for the VLAN	N/A	Boolean: • **true** • **false**	N/A

Contents

DHCP/dhcpsp 1

DHCP/dhcpsp

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
Invalid VLAN ID. 非法的VLAN ID。	Invalid VLAN ID, please check your VLAN ID.
The URL of the TFTP file can't include username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please do not set a username or password for a URL of the TFTP file.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid filename or URL, please check it.
The URL can't include the username or password. 不要在URL中携带用户名和密码信息。	Please do not set username or password in the URL.
The system is saving DHCP snooping entries to backup file. Please wait. 系统正在将DHCP Snooping表项写入备份表项的文件中。请等待。	The system is saving DHCP snooping entries to backup file.
The system is downloading DHCP snooping entries from the backup file. Please wait. 系统正在从备份表项的文件中恢复DHCP Snooping表项。请等待。	The system is downloading DHCP snooping entries from the backup file.
The node identifier can't include any spaces. 节点标识的字符串中不允许出现空格。	Please make certain that the node identifier is not include any spaces.
The value is out of range. 参数值超出范围。	The value is out of range, please check your value.
The VSI instance does not exist. VSI实例不存在。	The VSI instance is not created. 配置DHCP Snooping信任通道（远端站点）时，对应的VSI实例未创建。
The Ethernet service instance does not exist. Service instance不存在。	The Ethernet service instance is not created. 配置DHCP Snooping信任通道（本地站点）时，对应的以太网服务实例未创建。
Please first enable DHCP snooping logging. 首先请启用DHCP监听日志记录	未配置DHCP监听日志记录,无法配置监听阀值 DHCP listening logging is not configured, unable to configure listening threshold
The wireless service template does not exist. 无线服务模板不存在。	The wireless service template is not created.
CircuitIDMode and CircuitIDFormat must be issued at the same time. CircuitIDMode和CircuitIDFormat必需同时下发。	CircuitIDMode and CircuitIDFormat must be issued at the same time.

Contents

DHCPSP event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2

DHCPSP event

This event is used to report DHCP client online or offline events.

XML structure for event subscription

```
<DhcpUserEvent>
  <UserMAC></UserMAC>
  <FirstVLAN></FirstVLAN
  <SecondVLAN></SecondVLAN>
  <SN></SN>
  <Type></Type>
  <XId></XId>
  <DiscoverTime></DiscoverTime>
  <OfferTime></OfferTime>
  <RequestTime></RequestTime>
  <AckTime></AckTime>
  <OffTime></OffTime>
  <Reason></Reason>
  <ErrCode></ErrCode>
</DhcpUserEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DHCPSP</stream>
    <filter type="subtree">
      <DhcpUserEvent xmlns="http://www.h3c.com/netconf/event:1.0/dhcpsp:1.0">
      </DhcpUserEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DHCPSP
Event name	DhcpUserEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/dhcpsp:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		Length: 1 to 47 characters.	

XML structure for event report

```
<DhcpUserEvent>
  <UserMAC></UserMAC>
  <FirstVLAN></FirstVLAN>
  <SecondVLAN></SecondVLAN>
  <SN></SN>
  <Type></Type>
  <XId></XId>
  <DiscoverTime></DiscoverTime>
  <OfferTime></OfferTime>
  <RequestTime></RequestTime>
  <AckTime></AckTime>
  <OffTime></OffTime>
  <Reason></Reason>
  <ErrCode></ErrCode>
</DhcpUserEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
    <DhcpUserEvent xmlns="http://www.h3c.com/netconf/event:1.0/dhcpsp:1.0">
      <UserMAC>7C-FB-B1-5A-08-16</UserMAC>
      <FirstVLAN>5</FirstVLAN>
      <SecondVLAN>10</SecondVLAN>
      <SN>DUT1</SN>
      <Type>1</Type>
      <XId>4964526</XId>
      <DiscoverTime>1561539343133</DiscoverTime>
      <OfferTime>1561539343135</OfferTime>
      <RequestTime>1561539343140</RequestTime>
      <AckTime>1561539343145</AckTime>
      <OffTime>0</OffTime>
      <ErrCode>0</ErrCode>
      <Reason>User online successfully.</Reason>
    </DhcpUserEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
UserMAC	User MAC address	String. Length: 1 to 6 characters.	No
FirstVLAN	Client first VLAN ID	Unsigned integer. Value range: 1 to 4094.	No
SecondVLAN	Client second VLAN ID	Unsigned integer. Value range: 1 to 4094. Default: 65535	No
SN	Service serial number or name	String Length: 1 to 128 characters.	No
Type	Packet type	Unsigned integer. Value range: 1 to 255.	No
XId	Transaction ID	Unsigned integer. Value range: 1 to 4294967295.	No
DiscoverTime	Time when receiving the DISCOVER packet	Timestamp accurate to milliseconds	No
OfferTime	Time when receiving the OFFER packet	Timestamp accurate to milliseconds	No
RequestTime	Time when receiving the REQUEST packet	Timestamp accurate to milliseconds	No
AckTime	Time when receiving the ACK packet	Timestamp accurate to milliseconds	No
OffTime	Time when the client is offline	Timestamp accurate to milliseconds	No
Reason	Client offline reason	String Length: 1 to 255 characters.	No
ErrCode	Error code number	Unsigned integer. Value range: 1 to 25999	No

Contents

DHCPSP6 1
DHCPSP6/DHCPSP6UpdateBindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP6/DHCPSP6ClearBinding 1
XML structure 1
Table description 2
Columns 2

DHCPSP6

DHCPSP6/DHCPSP6UpdateBindingDatabase

This table is used to save current IPv6 DHCP snooping entries to the file.

XML structure

```
<DHCPSP6>
  <DHCPSP6UpdateBindingDatabase>
    <Update></Update>
  </DHCPSP6UpdateBindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6UpdateBindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Update	Update IPv6 DHCP snooping database immediately	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	This column must be empty.

DHCPSP6/DHCPSP6ClearBinding

This table is used to clear IPv6 DHCP snooping entries.

XML structure

```
<DHCPSP6>
  <DHCPSP6ClearBinding>
    <ClearBinding>
      <Ipv6Address></Ipv6Address>
      <VLANID></VLANID>
```

```
    </ClearBinding>
  </DHCPSP6ClearBinding>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6ClearBinding
Table type	Single-instance table
Row name	ClearBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	If Ipv6Address is empty, all IPv6 DHCP snooping entries will be cleared.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	If VLANID is empty, the IPv6 DHCP snooping entry for the specified IP address in all VLANs will b cleared.

Contents

DHCPSP6 1

DHCPSP6/DHCPSP6BindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP6/DHCPSP6Interface 2
XML structure 3
Table description 3
Columns 3
DHCPSP6/DHCPSP6OptionInterfaceID 5
XML structure 5
Table description 5
Columns 6
DHCPSP6/DHCPSP6OptionRemoteID 6
XML structure 6
Table description 7
Columns 7
DHCPSP6/DHCPSP6OptionEnable 8
XML structure 8
Table description 8
Columns 8
DHCPSP6/DHCPSP6Config 9
XML structure 9
Table description 9
Columns 10
DHCPSP6/DHCPSP6EthernetServiceInstance 11
XML structure 11
Table description 11
Columns 11
DHCPSP6/DHCPSP6Vsi 12
XML structure 12
Table description 12
Columns 13
DHCPSP6/DHCPSP6Vlan 13
XML structure 13
Table description 14
Columns 14
DHCPSP6/DHCPSP6VlanBindingRecord 14
XML structure 14
Table description 15
Columns 15

DHCPSP6

DHCPSP6/DHCPSP6BindingDatabase

This table contains IPv6 DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6BindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSP6BindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6BindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL can not be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String. case sensitive. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String. case sensitive. Length: 1 to 32 characters.	Can not be configured for the delete and remove operations.
Password	FTP password	N/A	String. case sensitive. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Can not be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCPSP6/DHCPSP6Interface

This table contains the configuration information on interface about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6Interface>
    <Interface>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
      <CheckRequestMessage></CheckRequestMessage>
      <BindingRecord></BindingRecord>
      <PDBindingRecord></PDBindingRecord>
      <CheckRelayForword></CheckRelayForword>
      <Deny></Deny>
      <Trust></Trust>
    </Interface>
  </DHCPSP6Interface>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Interface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interfaceS-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of IPv6 DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive IPv6 DHCP packets, in Kbps.	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. No limit as default. 0 means No limit.
BindingRecord	Whether enable the interface to record IPv6 DHCP snooping entry or not.	N/A	Boolean: • **true** • **false**(default)	N/A
CheckRequestMessage	Whether enable the interface to check request message in IPv6 DHCP packets or not.	N/A	Boolean: • **true** • **false**(default)	N/A
PDBindingRecord	Whether enable the interface to record IPv6 DHCP Snooping prefix entry or not	N/A	Boolean: • **true** • **false**(default)	N/A
CheckRelayForward	Whether Relay-Forward check is enabled on the interface	N/A	Boolean: • true • false (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Deny	Whether configuration an interface to be enable or not.	N/A	Boolean: • **true** • **false**(default)	N/A
Trust	Whether configurate an interface to be trusted or not.	N/A	Boolean: • **true** • **false**(default)	N/A

DHCPSP6/DHCPSP6OptionInterfaceID

This table contains IPv6 DHCP snooping option 18 DUID configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionInterfaceID>
    <InterfaceID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <Mode></Mode>
      <InterfaceID></InterfaceID>
    </InterfaceID>
  </DHCPSP6OptionInterfaceID>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionInterfaceID
Table type	Multi-instance table
Row name	InterfaceID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
Mode	Mode of InterfaceID	N/A	Enumeration: • **0**—String. • **1**—Bas.	For the remove and delete operations, the InterfaceID can not be configured.
InterfaceID	Option18 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	For the remove and delete operations, the InterfaceID can not be configured.

DHCPSP6/DHCPSP6OptionRemoteID

This table contains IPv6 DHCP snooping option 37 DUID configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionRemoteID>
    <RemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
    </RemoteID>
```

```
  </DHCPSP6OptionRemoteID>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionRemoteID
Table type	Multi-instance table
Row name	RemoteID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
RemoteID	Option37 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	For the merge, create and replace operations, the RemoteID must be configured. For the remove and delete operations, the

Column name	Column description	Column type	Data type and restrictions	Remarks
				RemoteID can not be configured.

DHCPSP6/DHCPSP6OptionEnable

This table contains IPv6 DHCP snooping option 82 configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionEnable>
    <OptionEnable>
      <IfIndex></IfIndex>
      <InterfaceIDEnable></InterfaceIDEnable>
      <RemoteIDEnable></RemoteIDEnable>
    </OptionEnable>
  </DHCPSP6OptionEnable>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionEnable
Table type	Multi-instance table
Row name	OptionEnable
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Some versions support interface name. For relevant information, see the XSD document of your

Column name	Column description	Column type	Data type and restrictions
			product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
InterfaceIDEnable	Whether enable the IPv6 DHCP snooping to support InterfaceID or not.	N/A	Boolean: • **true**. • **false**(default)
RemoteIDEnable	Whether enable the IPv6 DHCP snooping to support RemoteID or not.	N/A	Boolean: • **true**. • **false**(default)

DHCPSP6/DHCPSP6Config

This table contains IPv6 DHCP snooping configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Config>
    <DHCPSP6Enable></DHCPSP6Enable>
    <DHCPSP6AlarmRelayForwardEnable></DHCPSP6AlarmRelayForwardEnable>
    <DHCPSP6AlarmRelayForwardThreshold></DHCPSP6AlarmRelayForwardThreshold>
    <DHCPSP6AlarmRequestMessageEnable></DHCPSP6AlarmRequestMessageEnable>
    <DHCPSP6AlarmRequestMessageThreshold></DHCPSP6AlarmRequestMessageThreshold>
    <DHCPSP6ClientDetect></DHCPSP6ClientDetect>
    <DHCPSP6VlanEnable></DHCPSP6VlanEnable>
    <DHCPSP6LogEnable></DHCPSP6LogEnable>
  </DHCPSP6Config>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Config
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DHCPSPEnable	Enable DHCP snooping	N/A	Boolean: • **true**. • **false**(default)
DHCPSP6AlarmRelayForwardEnable	Whether the function of IPv6 DHCP snooping relay forward alarm is enabled.	N/A	Boolean: • **true**. • **false** (default)
DHCPSP6AlarmRelayForwardThreshold	The threshold of snooping relay forward alarm	N/A	Unsigned integer. Value range: 1 to 1000. Default:100
DHCPSP6AlarmRequestMessageEnable	Whether the function of IPv6 DHCP snooping request message is enabled.	N/A	Boolean: • **true**. • **false** (default)
DHCPSP6AlarmRequestMessageThreshold	The threshold of snooping request message alarm	N/A	Unsigned integer. Value range: 1 to 1000. Default:100
DHCPSP6ClientDetect	Whether the function of IPv6 DHCP snooping client detect is enabled.	N/A	Boolean: • **true**. • **false** (default)
DHCPSP6VlanEnable	Whether the function of IPv6 DHCP snooping vlan is enabled.	N/A	Boolean: • **true**. • **false** (default)
DHCPSP6LogEnable	Whether the function of IPv6 DHCP snooping log is enabled.	N/A	Boolean: • **true**. • **false** (default)

DHCPSP6/DHCPSP6EthernetServiceInstance

This table contains the configuration information on Ethernet service instance about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6EthernetServiceInstance>
    <EthernetServiceInstance>
      <IfIndex></IfIndex>
      <ServiceInstance></ServiceInstance>
      <Trust></Trust>
    </EthernetServiceInstance>
  </DHCPSP6EthernetServiceInstance>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6EthernetServiceInstance
Table type	Multi-instance table
Row name	EthernetServiceInstance
Restrictions	This table supports only Layer 2 Ethernet interfaces or Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
ServiceInstance	Service instance ID	Index	Unsigned integer.	N/A
Trust	Whether to configure an interface to be trusted or not	N/A	Boolean: • **true** • **false** (default)	N/A

DHCPSP6/DHCPSP6Vsi

This table contains the configuration in VSI about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6Vsi>
    <Vsi>
      <VsiName></VsiName>
      <BindingRecord></BindingRecord>
      <TrustTunnel></TrustTunnel>
    </Vsi>
  </DHCPSP6Vsi>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Vsi
Table type	Multi-instance table
Row name	Vsi
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
BindingRecord	Whether to enable the interface to record DHCP snooping entries or not	N/A	Boolean: • **True** • **false** (default)	N/A
PDBindingRecord	DHCPv6 Snooping prefix entry record function	N/A	Boolean: • **true** • **false** (default)	N/A
TrustTunnel	Whether to configure tunnel interfaces to be trusted or not	N/A	Boolean: • **true** • **false** (default)	N/A

DHCPSP6/DHCPSP6Vlan

This table contains information about the DHCPSP6 vlan.

XML structure

```
<DHCPSP6>
  <DHCPSP6Vlan>
    <Vlan>
      <VlanIndex></VlanIndex>
      <TrustInterface></TrustInterface>
    </Vlan>
  </DHCPSP6Vlan>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Vlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIndex	Vlan index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
TrustInterface	Trust Interface	Index	Unsigned integer.	N/A

DHCPSP6/DHCPSP6VlanBindingRecord

This table contains information about configuration of VLAN DHCPSP6 entry recording.

XML structure

```
<DHCPSP6>
  <DHCPSP6VlanBindingRecord>
    <Vlan>
      <VlanID></VlanID>
      <BindingRecord></BindingRecord>
    </Vlan>
  </DHCPSP6VlanBindingRecord>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6VlanBindingRecord
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
BindingRecord	Whether to enable DHCPv6 snooping entry recording for the VLAN	N/A	Boolean: • **true** • **false** (default)	N/A

Contents

DHCPSP6 1

DHCPSP6/DHCPSP6BindingDatabase 1
XML structure 1
Table description 1
Columns 1
DHCPSP6/DHCPSP6Interface 2
XML structure 2
Table description 2
Columns 3
DHCPSP6/DHCPSP6OptionInterfaceID 4
XML structure 4
Table description 4
Columns 5
DHCPSP6/DHCPSP6OptionRemoteID 5
XML structure 5
Table description 5
Columns 6
DHCPSP6/DHCPSP6OptionEnable 6
XML structure 6
Table description 6
Columns 7
DHCPSP6/DHCPSP6Binding 7
XML structure 7
Table description 7
Columns 8
DHCPSP6/DHCPSP6Config 8
XML structure 8
Table description 9
Columns 9
DHCPSP6/DHCPSP6Specification 10
XML structure 10
Table description 10
Columns 10
DHCPSP6/DHCPSP6EthernetServiceInstance 11
XML structure 11
Table description 11
Columns 11
DHCPSP6/DHCPSP6Vsi 12
XML structure 12
Table description 12
Columns 13
DHCPSP6/DHCPSP6Vlan 13
XML structure 13
Table description 14
Columns 14
DHCPSP6/DHCPSP6VlanBindingRecord 14
XML structure 14
Table description 14
Columns 15

DHCPSP6

DHCPSP6/DHCPSP6BindingDatabase

This table contains IPv6 DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6BindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSP6BindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6BindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string.	N/A	String. case sensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String. case sensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 32 characters.
Password	FTP password	N/A	String. case sensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.

DHCPSP6/DHCPSP6Interface

This table contains the configuration information on interface about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6Interface>
    <Interface>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
      <CheckRequestMessage></CheckRequestMessage>
      <BindingRecord></BindingRecord>
      <Trust></Trust>
      <PDBindingRecord></PDBindingRecord>
      <CheckRelayForword></CheckRelayForword>
      <Deny></Deny>
    </Interface>
  </DHCPSP6Interface>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Interface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types:

	Layer 2 Ethernet interface/Layer 2 aggregate interfaceS-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer.	The value range depends on the device model.
BindingRecord	Whether enable the interface to record DHCP snooping entry or not	N/A	Boolean: • **true** • **false**(default)	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not	N/A	Boolean: • **true** • **false**(default)	N/A
PDBindingRecord	Whether enable the interface to record IPv6 DHCP Snooping prefix entry or not	N/A	Boolean: • **true** • **false**	N/A
CheckRelayForward	Whether Relay-Forward check is enabled on the interface	N/A	Boolean: • true • false (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Deny	Whether configuration an interface to be enable or not.	N/A	Boolean: • **true** • **false**	N/A
Trust	Whether configurate an interface to be trusted or not	N/A	Boolean: • **true** • **false**(default)	N/A

DHCPSP6/DHCPSP6OptionInterfaceID

This table contains IPv6 DHCP snooping option 18 DUID configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionInterfaceID>
    <InterfaceID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <Mode></Mode>
      <InterfaceID></InterfaceID>
    </InterfaceID>
  </DHCPSP6OptionInterfaceID>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionInterfaceID
Table type	Multi-instance table
Row name	InterfaceID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
Mode	Mode of InterfaceID	N/A	Enumeration: • **0**—String. • **1**—Bas.	N/A
InterfaceID	Option18 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	N/A

DHCPSP6/DHCPSP6OptionRemoteID

This table contains IPv6 DHCP snooping option 37 DUID configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionRemoteID>
    <RemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
    </RemoteID>
  </DHCPSP6OptionRemoteID>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionRemoteID
Table type	Multi-instance table

Row name	RemoteID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
RemoteID	Option37 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	N/A

DHCPSP6/DHCPSP6OptionEnable

This table contains IPv6 DHCP snooping option 82 configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionEnable>
    <OptionEnable>
      <IfIndex></IfIndex>
      <InterfaceIDEnable></InterfaceIDEnable>
      <RemoteIDEnable></RemoteIDEnable>
    </OptionEnable>
  </DHCPSP6OptionEnable>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionEnable
Table type	Multi-instance table

Row name	OptionEnable
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
InterfaceIDEnable	Enable the DHCP snooping to support InterfaceID	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
RemoteIDEnable	Enable the DHCP snooping to support RemoteID	N/A	Boolean: • **true**—Enabled. • **false—Disabled (default).**

DHCPSP6/DHCPSP6Binding

This table contains IPv6 DHCP snooping entries information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Binding>
    <Binding>
      <Ipv6Address></Ipv6Address>
      <VLANID></VLANID>
      <SVLANID></SVLANID>
      <MacAddress></MacAddress>
      <Lease></Lease>
      <IfIndex></IfIndex>
    </Binding>
  </DHCPSP6Binding>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6

Table name	DHCPSP6Binding
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv6Address	IPv6 address	Index	String, dotted decimal notation.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
SVLANID	Second VLAN ID	Index	Unsigned integer. Value range: 1 to 4094 and 65535. 65535 means no SVLANID.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
Lease	Left Lease time	N/A	Unsigned integer.
IfIndex	Interface index	N/A	Unsigned integer.

DHCPSP6/DHCPSP6Config

This table contains IPv6 DHCP snooping configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Config>
    <DHCPSP6Enable></DHCPSP6Enable>
    <DHCPSP6AlarmRelayForwardEnable></DHCPSP6AlarmRelayForwardEnable>
    <DHCPSP6AlarmRelayForwardThreshold></DHCPSP6AlarmRelayForwardThreshold>
    <DHCPSP6AlarmRequestMessageEnable></DHCPSP6AlarmRequestMessageEnable>
    <DHCPSP6AlarmRequestMessageThreshold></DHCPSP6AlarmRequestMessageThreshold>
    <DHCPSP6ClientDetect></DHCPSP6ClientDetect>
    <DHCPSP6VlanEnable></DHCPSP6VlanEnable>
    <DHCPSP6LogEnable></DHCPSP6LogEnable>
```

```
  </DHCPSP6Config>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Config
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DHCPSP6Enable	Enable IPv6 DHCP snooping	N/A	Boolean: • **true**. • **false**
DHCPSP6AlarmRelayForwardEnable	Whether the function of IPv6 DHCP snooping relay forward alarm is enabled.	N/A	Boolean: • **true** • **false**
DHCPSP6AlarmRelayForwardThreshold	The threshold of snooping relay forward alarm	N/A	Unsigned integer. Value range: 1 to 1000.
DHCPSP6AlarmRequestMessageEnable	Whether the function of IPv6 DHCP snooping request message is enabled.	N/A	Boolean: • **true**. • **false**
DHCPSP6AlarmRequestMessageThreshold	The threshold of snooping request message alarm	N/A	Unsigned integer. Value range: 1 to 1000.
DHCPSP6ClientDetect	Whether the function of IPv6 DHCP snooping client detect is enabled.	N/A	Boolean: • **true** • **false**
DHCPSP6VlanEn	Whether the function of	N/A	Boolean:

Column name	Column description	Column type	Data type and restrictions
able	IPv6 DHCP snooping vlan is enabled.		• **true** • **false**
DHCPSP6LogEnable	Whether the function of IPv6 DHCP snooping log is enabled.	N/A	Boolean: • **true** • **false**

DHCPSP6/DHCPSP6Specification

This table contains DHCP snooping specification information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Specification>
    <RateLimitMinNum></RateLimitMinNum>
    <RateLimitMaxNum></RateLimitMaxNum>
  </DHCPSP6Specification>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitMinNum	The minimum rate mumber can be configured	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitMaxNum	The maximum rate mumber can be configured	N/A	Unsigned integer.	0 means that rate limit isn't supported.

DHCPSP6/DHCPSP6EthernetServiceInstance

This table contains the configuration information on Ethernet service instance about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6EthernetServiceInstance>
    <EthernetServiceInstance>
      <IfIndex></IfIndex>
      <ServiceInstance></ServiceInstance>
      <Trust></Trust>
    </EthernetServiceInstance>
  </DHCPSP6EthernetServiceInstance>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6EthernetServiceInstance
Table type	Multi-instance table
Row name	EthernetServiceInstance
Restrictions	This table supports only Layer 2 Ethernet interfaces or Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ServiceInstance	Service instance ID.	Index	Unsigned integer.	N/A
Trust	Whether to configure an interface to be trusted or not.	N/A	Boolean: • **true** • **false**	N/A

DHCPSP6/DHCPSP6Vsi

This table contains the configuration information in VSI about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6Vsi>
    <Vsi>
      <VsiName></VsiName>
      <BindingRecord></BindingRecord>
      <TrustTunnel></TrustTunnel>
    </Vsi>
  </DHCPSP6Vsi>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Vsi

Table type	Multi-instance table
Row name	Vsi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
BindingRecord	Whether enable the interface to record DHCP snooping entry or not.	N/A	Boolean: • **True** • **false**	N/A
TrustTunnel	Whether to configure tunnel interfaces to be trusted or not.	N/A	Boolean: • **true** • **false**	N/A

DHCPSP6/DHCPSP6Vlan

This table contains information about the DHCPSP6 vlan.

XML structure

```
<DHCPSP6>
  <DHCPSP6Vlan>
    <Vlan>
      <VlanIndex></VlanIndex>
      <TrustInterface></TrustInterface>
    </Vlan>
  </DHCPSP6Vlan>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Vlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanIndex	Vlan index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
TrustInterface	Trust Interface	Index	Unsigned integer.	N/A

DHCPSP6/DHCPSP6VlanBindingRecord

This table contains information about configuration of VLAN DHCPSP6 entry recording.

XML structure

```
<DHCPSP6>
  <DHCPSP6VlanBindingRecord>
    <Vlan>
      <VlanID></VlanID>
      <BindingRecord></BindingRecord>
    </Vlan>
  </DHCPSP6VlanBindingRecord>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6

Item	Description
Table name	DHCPSP6VlanBindingRecord
Table type	Multi-instance table
Row name	Vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
BindingRecord	Whether to enable DHCPv6 snooping entry recording for the VLAN	N/A	Boolean: • **true** • **false**	N/A

Contents

DHCP/dhcpsp6 1

DHCP/dhcpsp6

Message	Explanation
The configuration doesn’t meet the requirements. 当前配置不符合配置要求。	The configuration doesn’t meet the requirements, please check it.
Invalid VLAN ID. 非法的VLAN ID。	Invalid VLAN ID, please check it.
The URL of the TFTP file can’t include username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please make certain that the URL of the TFTP file isn’t include username or password.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid file name or URL, please check it.
The URL can’t include the username or password. 不要在URL中携带用户名和密码信息。	Please make certain that the URL isn’t include the username or password.
The system is saving DHCPv6 snooping entries to backup file. Please wait. 系统正在将DHCPv6 Snooping表项写入备份表项的文件中。请等待。	The system is saving DHCPv6 snooping entries to backup file.
The system is downloading DHCPv6 snooping entries from the backup file. Please wait. 系统正在从备份表项的文件中恢复DHCPv6 Snooping表项。请等待。	The system is downloading DHCPv6 snooping entries from the backup file.
The value is out of range. 参数值超出范围。	The value is out of range, please check it.
Please first enable DHCPv6 snooping logging. 首先请启用DHCP监听日志记录。	未配置DHCP监听日志记录,无法配置监听阀值。 DHCP listening logging is not configured, unable to configure listening threshold .
The “InterfaceID” cannot be configured in Bas mode. Bas模式下不可自定义选项填充内容。	The “InterfaceID” is only for String mode.
The “VLANID” needs to be specified as 0 in Bas mode. Bas模式下的VLAN需要指定为0。	The Bas mode does not support VLAN.

Contents

Diagnostic 1
Diagnostic/DiagnosticInfo 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 2
Responsed columns 2
Diagnostic/CollectDiagnosticInfo 3
XML structureFILE 3
Table description 3
Columns 3

Diagnostic

Diagnostic/DiagnosticInfo

This table contains Diagnostic information.

XML structure

```
<Diagnostic>
  <DiagnosticInfo>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <FileName></FileName>
    <InfoType></InfoType>
    <KeyInfo></KeyInfo>
    <Operation>
      <Collect></Collect>
      <Clear></Clear>
    </Operation>
  </DiagnosticInfo>
</Diagnostic>
```

Responsed XML structure

```
<Diagnostic>
  <DiagnosticInfo>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <FileName></FileName>
    <CollectStatus></CollectStatus>
    <CollectFailedReason></CollectFailedReason>
  </DiagnosticInfo>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiagnosticInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis of a node.	N/A	Unsigned short. Value range: 0 to 65535.	如果Chassis，SLOT cpu都不输入表示收集所有的。如果是集中式设备，输入0或者不输入。
Slot	Slot of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned short. Value range: 0 to 65535.	如果是单cpu，输入0或者不输入。
FileName	The file name for diagnosis.	N/A	String. Length: 1 to 127 characters.	文件名后缀必须是'.tar.gz'!
InfoType	Diagnostic information type.	N/A	Enumeration: 1—all. 2—hardware. 3—infrastructure. 4—l2. 5—l3. 6—service.	可选，默认是all
KeyInfo	Whether only collect key info.	N/A	Boolean: • True • false	可选，默认值为false
Collect	Collect diagnostic information.	N/A	This column must be empty.	N/A
Clear	Clear the diagnostic information result	N/A	This column must be empty.	输入chassis slot cpu表示清除指定板卡的诊断结果。不输入输入chassis slot cpu表示清除所有slot的结果。

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis of a node.	N/A	Unsigned short. Value range: 0 to 65535.	如果Chassis，SLOT cpu都不输入表示收集所有的。如果是集中式设备，输入0或者不输入。
Slot	Slot of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned short. Value range: 0 to 65535.	如果是单cpu，输入0或者不输入。
FileName	The file name for	N/A	String.	文件名后缀必须是

Column name	Column description	Column type	Data type and restrictions	Remarks
	diagnosis.		Length: 1 to 127 characters.	'.tar.gz'!
CollectStatus	Status of this node.	N/A	Enumeration: • 1—InProgress • 2.—Failure	N/A
CollectFailed Reason	Failed reason of this node.	N/A	Unsigned integer	“CollectStatus”字段为”Failure”时生效

Diagnostic/CollectDiagnosticInfo

This table contains collext diagnostic information.

XML structureFILE

```
<Diagnostic>
  <CollectDiagnosticInfo>
     <FileName></FileName>
     <ContextName></ContextName>
     <InfoType><InfoType>
     <KeyInfo></KeyInfo>
     <Overwrite></Overwrite>
  </CollectDiagnosticInfo>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CollectDiagnosticInfo
Table type	Single-instance
Row name	None
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The file name for diagnosis.	N/A	String. Length: 1 to 127 characters.	The extension of the diagnostic file name must be '.tar.gz'!
ContextName	The context name for diagnosis..	N/A	String. Length: 1 to 15 characters.	Context name 可选
InfoType	Diagnostic	N/A	Enumeration:	Default value is all.

Column name	Column description	Column type	Data type and restrictions	Remarks
	information type.		1—all. 2—hardware. 3—infrastructure. 4—l2. 5—l3. 6—service.	可选
KeyInfo	Whether only collect key info.	N/A	Boolean: • true false	Optional column, if not specify default is false. Default value is false. 可选
Overwrite	Whether to overwrite the configuration file if it has already existed	N/A	Boolean: • true. false.	N/A

Contents

Diagnostic 1

Diagnostic/CPUHistory 1
XML structure 1
Table description 1
Columns 1
Diagnostic/CPUAlert 2
XML structure 2
Table description 2
Columns 3
Diagnostic/MemoryAlert 3
XML structure 3
Table description 4
Columns 4
Diagnostic/CoreAlert 5
XML structure 5
Table description 5
Columns 6
Diagnostic/Configuration 6
XML structure 6
Table description 6
Columns 7
Diagnostic/DiskAlert 7
XML structure 7
Table description 7
Columns 8
Diagnostic/DMAMemoryStat 8
XML structure 8
Table description 9
Columns 9

Diagnostic

Diagnostic/CPUHistory

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUHistory>
    <CPU>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MoniterEnable></MoniterEnable>
      <HistroyCycleInSecond></HistroyCycleInSecond>
      <CPUUsageLimit></CPUUsageLimit>
    </CPU>
  </CPUHistory>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUHistory
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	ID of the CPU	Index	Unsigned integer. Value range: 0 to 65535.
MoniterEnable	CPU usage monitoring	N/A	Enumeration: • **1**—Disabled. • **2**—Enabled.
HistoryCycleInSecond	CPU usage sampling interval in seconds	N/A	Enumeration: • **5**—5 seconds. • **60**—60 seconds. • **300**—300 seconds.
CPUUsageLimit	CPU usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100.

Diagnostic/CPUAlert

This table contains usage alarm settings for logical CPUs.

XML structure

```
<Diagnostic>
  <CPUAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MinorThreshold></MinorThreshold >
      <WarningThreshold></WarningThreshold>
      <RecoveryThreshold></RecoveryThreshold>
    </Alert>
  </CPUAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical CPUs
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
MinorThreshold	CPU usage minor threshold (%)	N/A	Unsigned integer. Value range: 1 to 100.
WarningThreshold	CPU usage severe alarm threshold (%)	N/A	Unsigned integer Value range: 1 to 100
RecoveryThreshold	CPU usage recovery threshold (%)	N/A	Unsigned integer Value range: 0 to 99

Diagnostic/MemoryAlert

This table contains free-memory alarm settings.

XML structure

```
<Diagnostic>
  <MemoryAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
      <EarlyWarningThreshold></EarlyWarningThreshold>
      <SecureThreshold></SecureThreshold>
    </Alert>
  </MemoryAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	MemoryAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	For a create or replace operation, all non-index columns are required. For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit of the threshold	N/A	Enumeration: • **MB** • **Percentage**	N/A
MinorThreshold	Minor insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the minor alarm feature
SevereThreshold	Severe insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the severe alarm feature.
CriticalThreshold	Critical insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the critical alarm feature.

Column name	Column description	Column type	Data type and restrictions	Remarks
NormalThreshold	Normal free-memory state threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	N/A
EarlyWarningThreshold	Early-warning threshold for insufficient-free-memory condition	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the early warning feature.
SecureThreshold	Early-warning-removed threshold for insufficient-free-memory condition	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	N/A

Diagnostic/CoreAlert

This table contains usage alarm settings for logical Cores.

XML structure

```
<Diagnostic>
  <CoreAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CoreID></CoreID>
      <CoreThreshold></CoreThreshold>
      <CoreMinorThreshold></CoreMinorThreshold>
      <CoreRecoveryThreshold></CoreRecoveryThreshold>
    </Alert>
  </CoreAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CoreAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical Cores
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the card	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CoreID	ID of the Core	Index	Unsigned integer. Value range: 0 to 65535.
CoreThreshold	CPU usage threshold (%)	N/A	Unsigned integer Value range: 2 to 100
CoreMinorThreshold	CPU core usage minor threshold (%)	N/A	Unsigned integer Value range: 1 to 99
CoreRecoveryThreshold	CPU core usage recovery threshold (%)	N/A	Unsigned integer Value range: 0 to 98

Diagnostic/Configuration

This table contains the global settings of the diagnostic module.

XML structure

```
<Diagnostic>
  <Configuration>
     <MonitorDiskUsageInterval></MonitorDiskUsageInterval>
  </Configuration>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	Configuration

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
MonitorDiskUsageInterval	Disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800. Default: 300.

Diagnostic/DiskAlert

This table contains disk usage alarm settings.

XML structure

```
<Diagnostic>
  <DiskAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <DiskName></DiskName>
      <Threshold></Threshold>
    </Alert>
  </DiskAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiskAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
DiskName	Disk name.	Index	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100.

Diagnostic/DMAMemoryStat

This table contains free-DMA-memory alarm settings.

XML structure

```
<Diagnostic>
  <DMAMemoryStat>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Unit></Unit>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
    </Alert>
  </DMAMemoryStat>
```

```
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DMAMemoryStat
Table type	Multi-instance table
Row name	Alert
Restrictions	For a create or replace operation, all non-index columns are required. For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit for the free DMA memory thresholds	N/A	Enumeration: • **MB** • **Percentage** The default value is mb.	N/A
CriticalThreshold	Critical alarm threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage. The default value is 32.	Setting this threshold to 0 disables the critical alarm feature.
NormalThreshold	Normal state threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage. The default value is 128	N/A

Contents

Diagnostic 1

Diagnostic/CPUHistory 1
XML structure 1
Table description 1
Columns 1
Diagnostic/ProcessesCPUHistory 2
XML structure 2
Table description 3
Columns 3
Diagnostic/CPUUsage(currently not available) 3
XML structure 3
Table description 4
Columns 4
Diagnostic/ProcessesCPU(currently not available) 5
XML structure 5
Table description 6
Columns 6
Diagnostic/CPUAlert 7
XML structure 7
Table description 7
Columns 8
Diagnostic/Memories 8
XML structure 8
Table description 9
Columns 9
Diagnostic/ProcessesMemory (currently not available) 11
XML structure 11
Table description 11
Columns 12
Diagnostic/SlubInfo (currently not available) 12
XML structure 12
Table description 13
Columns 13
Diagnostic/MemoryAlert 14
XML structure 14
Table description 14
Columns 15
Diagnostic/CoreAlert 16
XML structure 16
Table description 16
Columns 17
Diagnostic/CPUGroups 18
XML structure 18
Table description 18
Columns 19
Diagnostic/Configuration 19
XML structure 19
Table description 20
Columns 20
Diagnostic/DiskAlert 20
XML structure 20
Table description 21
Columns 21
Diagnostic/DMAMemoryStat 21
XML structure 21
Table description 22
Columns 22

Diagnostic/DiagnosticInfo 23
XML structure 23
Table description 23
Columns 23
Diagnostic/LastDiagnosticInfoCollection 24
XML structure 24
Table description 25
Columns 25

Diagnostic

Diagnostic/CPUHistory

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUHistory>
    <CPU>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CPUUsage></CPUUsage>
      <Last1mUsage></Last1mUsage>
      <Last5mUsage></Last5mUsage>
      <MoniterEnable></MoniterEnable>
      <HistroyCycleInSecond></HistroyCycleInSecond>
      <CPUUsageLimit></CPUUsageLimit>
      <ChassisName></ChassisName>
      <CPUHistory></CPUHistory>
    </CPU>
  </CPUHistory>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUHistory
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.
Last1mUsage	Usage in the most recent 1-minute interval (%)	N/A	Unsigned integer. Value range: 0 to 100.
Last5mUsage	Usage in the most recent 5-minute interval (%)	N/A	Unsigned integer. Value range: 0 to 100.
MoniterEnable	CPU usage monitoring	N/A	Enumeration: • **1**—Disabled. • **2**—Enabled.
HistroyCycleInSecond	CPU usage sampling interval in seconds	N/A	Enumeration: • **5**—5 seconds. • **60**—60 seconds. • **300**—300 seconds.
CPUUsageLimit	CPU usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100.
CPUHistory	Historical CPU usage statistics	N/A	String of up to 60 integers. Each integer represents the CPU usage in a CPU usage sampling interval. Length: 0 to 304 characters. Format: HH,HH,HH,HH,HH,HH
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Diagnostic/ProcessesCPUHistory

This table contains historical CPU usage statistics by process ID.

XML structure

```
<Diagnostic>
  <ProcessesCPUHistory>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <ProcessJobID></ProcessJobID>
      <ProcessName></ProcessName>
      <CPUHistoryProcess></CPUHistoryProcess>
    </Process>
  </ProcessesCPUHistory>
```

```
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesCPUHistory
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
ProcessJobID	Process ID	Index	Unsigned integer. Value range: 1 to 2147483647
ProcessName	Process name	N/A	String. Length: 0 to 128 characters.
CPUHistoryProcess	Historical CPU usage statistics by process ID	N/A	String of up to 60 integers. Each integer represents the CPU usage in a CPU usage sampling interval. Length: 0 to 304 characters. Format: HH,HH,HH,HH,HH,HH

Diagnostic/CPUUsage(currently not available)

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUUsage>
    <CPU>
      <Chassis></Chassis>
```

```
      <Slot></Slot>
      <CPUID></CPUID>
      <CPUUsage></CPUUsage>
      <Core>
        <CoreID></CoreID>
        <CPUUsage></CPUUsage>
        <Idle></Idle>
        <User></User>
        <Kernel></Kernel>
        <Interrupt></Interrupt>
      </Core>
    </CPU>
  </CPUUsage>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUUsage
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Core	CPUInfo of core	Data structure	Members include: • CoreID • CPUUsage • Idle • User • Kernel	Contain all core of the cpu.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Interrupt	
CoreID	ID of the core	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUUsage	Core usage (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Idle	CPU idle time ratio (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
User	Ratio of time for processes in user mode to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Kernel	Ratio of time for processes in kernel mode to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats:%.2f	Accurate to the second decimal place. Example: 12.34
Interrupt	Ratio of time for interrupts to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34

Diagnostic/ProcessesCPU(currently not available)

This table contains CPU usage information for processes.

XML structure

```
<Diagnostic>
  <ProcessesCPU>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <JobID></JobID>
      <Name></Name>
      <CPUUsage></CPUUsage>
      <Priority></Priority>
      <State></State>
      <FDs></FDs>
      <Memory></Memory>
      <RunTime></RunTime>
```

```
    </Process>
  </ProcessesCPU>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesCPU
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
JobID	Job ID	Index	Unsigned integer. Value range: 1 to 2147483647	N/A
Name	Process name	N/A	String. Length: 0 to 255 characters.	N/A
CPUUsage	CPU usage of the process	N/A	Double. Value range: 0 to 100. Formats: %.2f	N/A
Priority	Thread priority	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
State	Status of the process	N/A	Enumeration: • **R**—Running. • **S**—Sleeping. • **T**—Traced or stopped. • **D**—Uninterruptible sleep. • **Z**—Zombie.	N/A
FDs	File descriptions for the process	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4294967295.	
Memory	Process memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RunTime	Running time of the process	N/A	String. Formats: • HH:MM:SS Runtime < 100h • HHh Runtime >= 100h	N/A

Diagnostic/CPUAlert

This table contains cpu usage alarm information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MinorThreshold></MinorThreshold>
      <WarningThreshold></WarningThreshold>
      <RecoveryThreshold></RecoveryThreshold>
      <CurrentState></CurrentState>
      <ChassisName></ChassisName>
    </Alert>
  </CPUAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical CPU

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
MinorThreshold	CPU usage minor threshold (%)	N/A	Unsigned integer. Value range: 1 to 100.
WarningThreshold	CPU usage severe threshold (%)	N/A	Unsigned integer. Value range: 1 to 100
RecoveryThreshold	CPU usage RecoveryThreshold (%)	N/A	Unsigned integer Value range: 0 to 99
CurrentState	Current alarm status	N/A	Enumeration: • **Normal** • **Minor** • **Severe**
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Diagnostic/Memories

This table contains memory information.

XML structure

```
<Diagnostic>
  <Memories>
    <Memory>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Total></Total>
      <Used></Used>
      <Free></Free>
      <FreeRatio></FreeRatio>
      <Buffers></Buffers>
      <Cached></Cached>
      <CommitLimit></CommitLimit>
      <CommittedAS></CommittedAS>
```

```
      <VmallocTotal></VmallocTotal>
      <VmallocUsed></VmallocUsed>
      <VmallocChunk></VmallocChunk>
      <SwapTotal></SwapTotal>
      <SwapFree></SwapFree>
      <LowTotal></LowTotal>
      <LowFree></LowFree>
      <HighTotal></HighTotal>
      <HighFree></HighFree>
      <MemoryUsage></MemoryUsage>
      <DMATotal></DMATotal>
      <DMAFree></DMAFree>
      <ChassisName></ChassisName>
    </Memory>
  </Memories>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Index	Unsigned integer. Value range: 0 to 65535.
Total	Total memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Used	Used memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Free	Free memory	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	space (KB)		Value range: 0 to 4294967295.
FreeRatio	Free memory ratio (%)	N/A	Double. Value range: 0 to 100. Formats: %.1f
Buffers	Memory space used for buffers (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Cached	Memory space used for cache (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
CommitLimit	Memory space currently available for allocation (KB)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
CommittedAS	Memory space allocated by processes (KB)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
VmallocTotal	Total allocated virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
VmallocUsed	Used virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
VmallocChunk	Free virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
SwapTotal	Total memory space used for swapping (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
SwapFree	Free memory space dedicated for swapping (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
LowTotal	Total low-memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
LowFree	Free low-memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
HighTotal	Total high-memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
HighFree	Free high-memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
MemoryUsage	Memory usage ratio (%)	N/A	Double. Value range: 0 to 100. Formats: %.1f
DMATotal	DMA Total	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	memory size (KB)		Value range: 0 to 4294967295.
DMAFree	DMA Free memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Diagnostic/ProcessesMemory (currently not available)

This table contains memory information about the Processes.

XML structure

```
<Diagnostic>
  <ProcessesMemory>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <JID></JID>
      <Name></Name>
      <Text></Text>
      <Data></Data>
      <Stack></Stack>
      <Dynamic></Dynamic>
    </Process>
  </ProcessesMemory>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesMemory
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
JID	Job ID of the process	Index	Unsigned integer. Value range: 1 to 2147483647
Name	Process name	N/A	String. Length: 0 to 255 characters.
Text	Memory space for the text segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Data	Memory space for the data segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Stack	Memory space for the stack segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dynamic	Memory space for dynamic allocation (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.

Diagnostic/SlubInfo (currently not available)

This table contains memory information about the Slub.

XML structure

```
<Diagnostic>
  <SlubInfo>
    <Slub>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Name></Name>
      <Active></Active>
      <Number></Number>
      <Size></Size>
      <Align></Align>
      <Slab></Slab>
      <PgSlab></PgSlab>
      <ASlabs></ASlabs>
```

```
      <NSlabs></NSlabs>
    <Slub>
  </SlubInfo>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	SlubInfo
Table type	Multi-instance table
Row name	Slub
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
Name	Target name	Index	String. Length: 1 to 255 characters.
Active	Number of active targets	N/A	Unsigned integer. Value range: 0 to 4294967295.
Number	Total number of targets	N/A	Unsigned integer. Value range: 0 to 4294967295.
Size	Target memory space (KB)	N/A	Unsigned integer. Value range: 0 to 2147483647.
Align	Aligned memory	N/A	Unsigned integer. Value range: 0 to 2147483647.
Slab	Number of targets in one slab	N/A	Unsigned integer. Value range: 0 to 2147483647.
PgSlab	Number of memory pages for one slab	N/A	Unsigned integer. Value range: 0 to 2147483647.
ASlabs	Number of active slabs	N/A	Unsigned integer. Value range: 0 to 4294967295.
NSlabs	Total number of slabs	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 4294967295.

Diagnostic/MemoryAlert

This table contains free-memory alarm settings and status information.

XML structure

```
<Diagnostic>
  <MemoryAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
      <EarlyWarningThreshold></EarlyWarningThreshold>
      <SecureThreshold></SecureThreshold>
      <CurrentState></CurrentState>
      <ChassisName></ChassisName>
    </Alert>
  </MemoryAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	MemoryAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit for memory thresholds	N/A	Enumeration: • MB • Percentage	N/A
MinorThreshold	Minor insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the minor alarm feature.
SevereThreshold	Severe insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the severe alarm feature.
CriticalThresholdl	Critical insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the critical alarm feature.
NormalThreshold	Normal free-memory state threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	N/A
EarlyWarningThreshold	Early-warning threshold for insufficient-free-memory condition	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the early warning feature.

Column name	Column description	Column type	Data type and restrictions	Remarks
SecureThreshold	Early-warning-removed threshold for insufficient-free-memory condition	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	N/A
CurrentState	Current memory alarm status	N/A	Enumeration: • **Minor** • **Severe** • **Critical** • **Normal** • **EarlyWarning** • **Secure**	N/A
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.	Only fcc and lcc are supported.

Diagnostic/CoreAlert

This table contains core alarm settings and status information.

XML structure

```
<Diagnostic>
  <CoreAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CoreID></CoreID>
      <CoreThreshold></CoreThreshold>
      <Current5SUsage></Current5SUsage>
      <Current1MUsage></Current1MUsage>
      <Current5MUsage></Current5MUsage>
      <LastState></LastState>
      <CoreMinorThreshold></CoreMinorThreshold>
      <CoreRecoveryThreshold></CoreRecoveryThreshold>
      <ChassisName></ChassisName>
    </Alert>
  </CoreAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic

Item	Description
Table name	CoreAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the card	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CoreID	ID of the Core	Index	Unsigned integer. Value range: 0 to 65535.
CoreThreshold	Core usage Threshold (%)	N/A	Unsigned integer. Value range: 2 to 100 Default: 4294967295
Current5SUsage	Core usage in the most recent 5-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
Current1MUsage	Core usage in the most recent 12 five-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
Current5MUsage	Core usage in the most recent 60 five-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
LastState	Previous core alarm status	N/A	Enumeration: • Normal • Warning
CoreMinorThreshold	Core usage minor threshold (%)	N/A	Unsigned integer. Value range: 1 to 99 Default: 4294967295

Column name	Column description	Column type	Data type and restrictions
CoreRecovery Threshold	Core usage recovery threshold (%)	N/A	Unsigned integer. Value range: 0 to 98 Default: 4294967295
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Diagnostic/CPUGroups

This table contains usage information about the logical CPU groups.

XML structure

```
<Diagnostic>
  <CPUGroups>
    <CPUGroup>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <GroupID></GroupID>
      <GroupName></GroupName>
      <CPUUsage></CPUUsage>
      <Last1mUsage></Last1mUsage>
      <Last5mUsage></Last5mUsage>
      <ChassisName></ChassisName>
    </CPUGroup>
  </CPUGroups>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUGroups
Table type	Multi-instance table
Row name	CPUGroup
Restrictions	Available only for logical CPU groups

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
GroupID	ID of CPU group	Index	Unsigned integer. Value range: 0 to 65535. For example: 0 means control plane, 1 means data plane
GroupName	Name of CPU group	N/A	String. Length: 1 to 64 characters.
CPUUsage	Usage in the most recent 5-second interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last1mUsage	Usage in the most recent 1-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last5mUsage	Usage in the most recent 5-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.

Diagnostic/Configuration

This table contains the global settings of the diagnostic module.

XML structure

```
<Diagnostic>
  <Configuration>
      <MonitorDiskEnable></MonitorDiskEnable>
      <DefaultMonitorDiskUsageInterval></DefaultMonitorDiskUsageInterval>
      <MonitorDiskUsageInterval></MonitorDiskUsageInterval>
  </Configuration>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	Configuration
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type
MonitorDiskEnable	Enable disk usage monitoring.	N/A	Boolean: • **true** • **false**
DefaultMonitorDiskUsageInterval	Default disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800.
MonitorDiskUsageInterval	Disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800.

Diagnostic/DiskAlert

This table contains disk usage alarm settings.

XML structure

```
<Diagnostic>
  <DiskAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <DiskName></DiskName>
      <Threshold></Threshold>
    </Alert>
  </DiskAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiskAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
DiskName	Disk name.	Index	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100.

Diagnostic/DMAMemoryStat

This table contains dma free-memory alarm settings and status information.

XML structure

```
<Diagnostic>
  <DMAMemoryStat>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
```

```
      <Unit></Unit>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
      <CurrentState></CurrentState>
      <ChassisName></ChassisName>
    </Alert>
  </DMAMemoryStat>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DMAMemoryStat
Table type	Multi-instance table
Row name	Alert
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit for dma memory thresholds	N/A	Enumeration: • MB • Percentage	N/A
CriticalThresholdl	Critical insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the critical alarm feature.
NormalThreshold	Normal free-memory state threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	N/A
CurrentState	Current memory alarm status	N/A	Enumeration: • **Critical** • **Normal**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisName	Name of chassis.	N/A	String. Length: 0 to 32 characters.	Only fcc and lcc are supported.

Diagnostic/DiagnosticInfo

This table contains diagnostic info information.

XML structure

```
<Diagnostic>
  <DiagnosticInfo>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Filename></Filename>
    <InfoType></InfoType>
    <KeyInfo></KeyInfo>
    <CollectStartTime></CollectStartTime>
    <CollectStatus></CollectStatus>
    <CollectFailedReason></CollectFailedReason>
  </DiagnosticInfo>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiagnosticInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Filename	The file name for diagnosis.	Index	String: Length: 1 to 127 characters.	N/A
InfoType	Diagnostic information type	N/A	Enumeration: • **1-ALL** • **2-**hardware • **3-**infrastructure • **4-**l2 • **5-**l3 • **6-**service	N/A
KeyInfo	Whether only collect key info.	N/A	Boolean: • True • false	N/A
CollectStartTime	Time when collect diagnostic information。	N/A	DateTime. • Format: YYYY-MM-DDTHH:MM:SS.	N/A
CollectStatus	Status of this node.	N/A	Enumeration: • 1—opInProgress • 2—opSuccess • 3—opFailure	N/A
CollectFailedReason	Failed reason of this node.	N/A	Unsigned integer.	Usefully only in failure.

Diagnostic/LastDiagnosticInfoCollection

This table contains last diagnostic info collection information.

XML structure

```
<Diagnostic>
  <LastDiagnosticInfoCollection>
    <Filename></Filename>
    <ContentName></ContentName>
    <InfoType></InfoType>
    <KeyInfo></KeyInfo>
    <StartTime></StartTime>
    <EndTime></EndTime>
    <Status></Status>
```

```
    <FailedReason></FailedReason>
  </LastDiagnosticInfoCollection>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	LastDiagnosticInfoCollection
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Filename	The file name for diagnosis.	N/A	String: Length: 1 to 127 characters.	N/A
ContextName	The context name for diagnosis..	N/A	String. Length: 1 to 15 characters.	Context name
InfoType	Diagnostic information type	N/A	Enumeration: • **1-ALL** • **2-**hardware • **3-**infrastructure • **4-**l2 • **5-**l3 • **6-**service	N/A
KeyInfo	Whether only collect key info.	N/A	Boolean: • True • false	N/A
StartTime	Time when collect diagnostic information。	N/A	DateTime. • Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndTime	Time when collect diagnostic information。	N/A	DateTime. • Format: YYYY-MM-DDTHH:MM:SS.	N/A
Status	Status of this node.	N/A	Enumeration: • 0—opInProgress • 1—opSuccess • 2—opFailure	N/A
FailedReason	Failed reason of this node.	N/A	Enumeration: • 1—Success	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Unknown error • 2—Only one process allowed at the same time • 3—Invalid context name	

Contents

Diagnostic 1
Diagnostic/CPUUsage(currently not available) 1
Diagnostic/MemoryAlert 1
Diagnostic/CoreAlert 2
Diagnostic/DMAMemoryStat 3

Diagnostic

Diagnostic/CPUUsage(currently not available)

Message	Explanation
The value of MinorThreshold should be greater than the value of RecoveryThreshold. MinorThreshold的值应该大于RecoveryThreshold的值。	The value of MinorThreshold should be greater than the value of RecoveryThreshold. MinorThreshold的值应该大于RecoveryThreshold的值。
PEX configuration not supported. 不支持设置PEX	PEX configuration not supported. 不支持设置PEX

Diagnostic/MemoryAlert

Message	Explanation
The value of SevereThreshold should be greater than or equal to the value of CriticalThreshold. SevereThreshold的值应该大于或等于CriticalThreshold的值。	The value of SevereThreshold should be greater than or equal to the value of CriticalThreshold. SevereThreshold的值应该大于或等于CriticalThreshold的值。
The value of MinorThreshold should be greater than or equal to the value of SevereThreshold. MinorThreshold的值应该大于或等于SevereThreshold的值。	The value of MinorThreshold should be greater than or equal to the value of SevereThreshold. MinorThreshold的值应该大于或等于SevereThreshold的值。
The value of NormalThreshold should be greater than or equal to the value of MinorThreshold. NormalThreshold的值应该大于或等于MinorThreshold的值。	The value of NormalThreshold should be greater than or equal to the value of MinorThreshold. NormalThreshold的值应该大于或等于MinorThreshold的值。
The value of NormalThreshold should be less than or equal to the total memory size of Device. NormalThreshold的值应该小于或等于设备内存的大小。	The value of NormalThreshold should be less than or equal to the total memory size of Device. NormalThreshold的值应该小于或等于设备内存的大小.
The value of WarningThreshold should be greater than the value of MinorThreshold. WarningThreshold的值应该大于MinorThreshold的值。	The value of WarningThreshold should be greater than the value of MinorThreshold. WarningThreshold的值应该大于MinorThreshold的值。
To disable the free-memory alarm feature, set all free-memory thresholds to 0. 如果需要关闭内存门限告警功能，请设置所有内存门限值为0。	To disable the free-memory alarm feature, set all free-memory thresholds to 0. 如果需要关闭内存门限告警功能，请设置所有内存门限值为0。
The value of EarlyWarningThreshold should be greater than or equal to the value of NormalThreshold. EarlyWarningThreshold的值应该大于或等于NormalThreshold的值。	The value of EarlyWarningThreshold should be greater than or equal to the value of NormalThreshold. EarlyWarningThreshold的值应该大于或等于NormalThreshold的值。
The value of EarlyWarningThreshold should be	The value of EarlyWarningThreshold should be less than or equal

less than or equal to the total memory size. EarlyWarningThreshold的值应该小于或等于设备内存的大小。	to the total memory size. EarlyWarningThreshold的值应该小于或等于设备内存的大小。
The value of SecureThreshold should be greater than or equal to the value of EarlyWarningThreshold. SecureThreshold的值应该大于或等于EarlyWarningThreshold的值。	The value of SecureThreshold should be greater than or equal to the value of EarlyWarningThreshold. SecureThreshold的值应该大于或等于EarlyWarningThreshold的值。
The value of SecureThreshold should be less than or equal to the total memory size. SecureThreshold的值应该小于或等于设备内存的大小。	The value of SecureThreshold should be less than or equal to the total memory size. SecureThreshold的值应该小于或等于设备内存的大小。
To disable the EarlyWarningThreshold alarm feature, set EarlyWarningThreshold and SecureThreshold to 0. 如果需要关闭预内存门限告警功能，请同时设置EarlyWarningThreshold和SecureThreshold门限值为0。	To disable the EarlyWarningThreshold alarm feature, set EarlyWarningThreshold and SecureThreshold to 0. 如果需要关闭预内存门限告警功能，请同时设置EarlyWarningThreshold和SecureThreshold门限值为0。
The device doesn't support setting EarlyWarningThreshold or SecureThreshold. 不支持设置预告警。	The device doesn't support setting EarlyWarningThreshold or SecureThreshold. 不支持设置预告警。
Please set all free-memory thresholds to 0 to disable the free-memory alarm functions first. 请先设置所有内存门限值为0，关闭内存门限告警功能。	Please set all free-memory thresholds to 0 to disable the free-memory alarm functions first. 请先设置所有内存门限值为0，关闭内存门限告警功能。
For a create or merge operation, all non-index columns are required. 当下发create或者merge时，必须下发所有非索引列。	For a create or merge operation, all non-index columns are required. 当设置内存门限时，必须下发所有非索引列。
For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified. 当下发delete或者remove或者replace时，必须下发所有的非索引列或者不下发任何非索引列。	For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified. 当下发delete或者remove或者replace时，必须下发所有的非索引列或者不下发任何非索引列。

Diagnostic/CoreAlert

Message	Explanation
The core doesn't support setting the thresholds. *该core不支持配置。*	The core doesn't support setting the thresholds. *该core不支持配置。*
The specified core doesn't exist. 设备不支持该core。	The specified core doesn't exist. 设备不支持该core。
The value of CoreThreshold must be in the range of 2 to 100. CoreThreshold的取值范围为2-100。	The value of CoreThreshold must be in the range of 2 to 100. CoreThreshold的取值范围为2-100。

Diagnostic/DMAMemoryStat

Message	Explanation
The value of NormalThreshold should be greater than or equal to the value of CriticalThreshold. NormalThreshold的值应该大于或等于CriticalThreshold的值。	The value of NormalThreshold should be greater than or equal to the value of CriticalThreshold. NormalThreshold的值应该大于或等于CriticalThreshold的值。
The value of NormalThreshold should be less than or equal to the dma total memory size of Device. NormalThreshold的值应该小于或等于设备DMA内存的大小。	The value of NormalThreshold should be less than or equal to the dma total memory size of Device. NormalThreshold的值应该小于或等于设备DMA内存的大小。
To disable the dma free-memory alarm feature, set all free-memory thresholds to 0. 如果需要关闭DMA内存门限告警功能，请设置所有内存门限值为0。	To disable the dma free-memory alarm feature, set all free-memory thresholds to 0. 如果需要关闭DMA内存门限告警功能，请设置所有内存门限值为0。
Please set all dma free-memory thresholds to 0 to disable the dma free-memory alarm functions first. 请先设置所有DMA内存门限值为0，关闭DMA内存门限告警功能。	Please set all dma free-memory thresholds to 0 to disable the dma free-memory alarm functions first. 请先设置所有DMA内存门限值为0，关闭DMA内存门限告警功能。
The device is not support dma memory. 设备不支持DMA。	The device is not support dma memory. 设备不支持DMA。
when Unit is percentage The value of NormalThreshold and CriticalThreshold must be in the range of 0 to 100. 当Unit值是percentage时，NormalThreshold和CriticalThreshold的取值范围为0-100。	when Unit is percentage The value of NormalThreshold and CriticalThreshold must be in the range of 0 to 100. 当Unit值是percentage时，NormalThreshold和CriticalThreshold的取值范围为0-100。

Contents

Diagnostics event stream 1

CPUEvent event 1
XML structure for event subscription 1
XML structure for event report 2
MemoryEvent event 5
XML structure for event subscription 6
XML structure for event report 7
CoreEvent event 9
XML structure for event subscription 9
XML structure for event report 11
DiskEvent event 14
XML structure for event subscription 14
XML structure for event report 15
CPUUsageAlarmEvent event 16
XML structure for event subscription 16
XML structure for event report 17
CPUUsageRecoverEvent event 18
XML structure for event subscription 19
XML structure for event report 20
MemoryUsageAlarmEvent event 21
XML structure for event subscription 21
XML structure for event report 22
MemoryUsageRecoverEvent event 23
XML structure for event subscription 23
XML structure for event report 24
DMAMemoryRecoverEvent event 25
XML structure for event subscription 25
XML structure for event report 26
DMAMemoryCriticalEvent event 28
XML structure for event subscription 28
XML structure for event report 29

Diagnostics event stream

CPUEvent event

This event is used to report CPU alarm information.

XML structure for event subscription

```
<CPUEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </CPU>
</CPUEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CPUEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <CPU>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </CPU>
      </CPUEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CPUEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the	Unsigned integer.	No	N/A

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
	member device where the entity resides	Value range: 0 to 65535.		
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<CPUEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Description></Description>
    <CPUUsage></CPUUsage>
    <Core>
      <CoreID></CoreID>
      <CPUUsage></CPUUsage>
      <Idle></Idle>
      <User></User>
      <Kernel></Kernel>
      <Interrupt></Interrupt>
    </Core>
    <Process>
      <JobID></JobID>
      <PID></PID>
      <Name></Name>
      <CPUUsage></CPUUsage>
      <Priority></Priority>
      <State></State>
      <FDs></FDs>
      <Memory></Memory>
      <RunTime></RunTime>
    </Process>
  </CPU>
</CPUEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPUEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
```

```
  <CPU>
    <Chassis>0</Chassis>
    <Slot>0</Slot>
    <CPUID>0</CPUID>
    <Description>CPU_THRESHOLD</Description>
    <CPUUsage>50</CPUUsage>
    <Core>
      <CoreID>0</CoreID>
      <CPUUsage>11.00</CPUUsage>
      <Idle>89.00</Idle>
      <User>4.00</User>
      <Kernel>5.00</Kernel>
      <Interrupt>2.00</Interrupt>
    </Core>
    ……
    <Core>
      <CoreID>7</CoreID>
      <CPUUsage>13.00</CPUUsage>
      <Idle>87.00</Idle>
      <User>5.00</User>
      <Kernel>5.00</Kernel>
      <Interrupt>3.00</Interrupt>
    </Core>
    <Process>
      <JobID>84</JobID>
      <PID>84</PID>
      <Name>diagd</Name>
      <CPUUsage>0.03</CPUUsage>
      <Priority>120</Priority>
      <State>R</State>
      <FDs>18</FDs>
      <Memory>10384</Memory>
      <RunTime>00:00:56</RunTime>
    </Process>
    ……
    <Process>
      <JobID>86</JobID>
      <PID>86</PID>
      <Name>syslogd</Name>
      <CPUUsage>0.03</CPUUsage>
      <Priority>120</Priority>
      <State>S</State>
      <FDs>30</FDs>
      <Memory>12984</Memory>
      <RunTime>00:00:36</RunTime>
    </Process>
  </CPU>
</CPUEvent>
```

```
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Description	CPU event description.	Enumeration: • CPU_SEVERE_THRESHOLD • CPU_SEVERE_RECOVERY • CPU_MINOR_THRESHOLD • CPU_MINOR_RECOVERY	N/A
CPUUsage	CPU usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Core	CPUInfo of core	Members include: • CoreID • CPUUsage • Idle • User • Kernel • Interrupt	N/A
CoreID	Core ID	Unsigned integer. Value range: 0 to 65535.	N/A
CPUUsage	Core CPU usage (%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Idle	CPU idle time ratio(%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
User	Ratio of the time of processes executing in user mode to CPU total time(%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Kernel	Ratio of the time of processes executing in kernel mode to CPU total time (%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Interrupt	Ratio of the time of interrupt to total cpu time.	Double. Value range: 0 to 100.	Accurate to the second decimal place. Example: 12.34

Column name	Column description	Data type and restrictions	Remarks
		Formats: %.2f	
Process	CPUInfo of process	Members include: • JobID • PID • Name • CPUUsage • Priority • State • FDs • Memory • RunTime	N/A
JobID	Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
PID	Process ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
Name	Process name	String. Length: 1 to 255 characters.	Only report the top 5 cpuusage processes.
CPUUsage	CPUUsage of Process	Double. Value range: 0 to 100. Formats: %.2f	N/A
Priority	Process priority	Unsigned integer. Value range: 0 to 65535.	N/A
State	Running state of process	Enumeration: • **R**—Running. • **S**—Sleeping. • **T**—Traced or stopped. • **D**—Uninterruptible sleep. • **Z**—Zombie.	N/A
FDs	File descriptions of process	Unsigned integer. Value range: 0 to 4294967295.	N/A
Memory	Size of the process memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
RunTime	Runtime of process	String. Formats: • HH:MM:SS Runtime < 100h • HHh Runtime >= 100h	N/A

MemoryEvent event

This event is used to report memory alarm information.

XML structure for event subscription

```
<MemoryEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</MemoryEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <MemoryEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </MemoryEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	MemoryEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<MemoryEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Description></Description>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <FreeRatio></FreeRatio>
    <LowTotal></LowTotal>
    <LowFree></LowFree>
    <HighTotal></HighTotal>
    <HighFree></HighFree>
    <TopUsageProcess>
      <JID></JID>
      <Name></Name>
      <Used></Used>
    </TopUsageProcess>
    <TopUsageSlub>
      <Name></Name>
      <Used></Used>
    </TopUsageSlub>
  </Memory>
</MemoryEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <MemoryEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <Description>Normal</Description>
      <Total>1199160</Total>
      <Used>773500</Used>
      <Free>425660</Free>
      <FreeRatio>35</FreeRatio>
      <LowTotal>895096</LowTotal>
      <LowFree>425060</LowFree>
      <HighTotal>304064</HighTotal>
      <HighFree>600</HighFree>
      <TopUsageProcess>
        <JID>1</JID>
        <Name>scmd</Name>
```

```
      <Used>8868</Used>
    </TopUsageProcess>
    ……
    <TopUsageProcess>
      <JID>78</JID>
      <Name>fsd</Name>
      <Used>5668</Used>
    </TopUsageProcess>
    <TopUsageSlub>
      <Name>kmalloc-524280</Name>
      <Used>524280</Used>
    </TopUsageSlub>
    ……
    <TopUsageSlub>
      <Name>tcpcb</Name>
      <Used>856</Used>
    </TopUsageSlub>
  </Memory>
</MemoryEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Memory event description.	Enumeration: • MEM_EARLYWARNING_THRESHOLD • MEM_EARLYWARNING_RECOVERY • MEM_MINOR_THRESHOLD • MEM_MINOR_RECOVERY • MEM_SEVERE_THRESHOLD • MEM_SEVERE_RECOVERY • MEM_CRITICAL_THRESHOLD • MEM_CRITICAL_RECOVERY	N/A
Total	Total memory size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Used	Size of the used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Free	Size of the free	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
	memory space (KB)	Value range: 0 to 4294967295.	
FreeRatio	Free memory Ratio(%)	Unsigned integer. Value range: 0 to 100.	N/A
LowTotal	Total LowMem size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
LowFree	Size of the free LowMem space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
HighTotal	Total HighMem size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
HighFree	Size of the free HighMem space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
TopUsageProcess	Memory Info of top usage process	Members include: • JID • Name • Used	Only report the top 5 memory usage processes.
JID	Process Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
Name	Process name	String. Length: 1 to 255 characters.	N/A
Used	Size of the process used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
TopUsageSlub	Memory Info of top usage slub	Members include: • Name • Used	Only report the top 5 memory usage target.
Name	Target name	String. Length: 1 to 255 characters.	N/A
Used	Size of the target used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A

CoreEvent event

This event is used to report core alarm information.

XML structure for event subscription

```
<CoreEvent>
  <Cores>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
```

```
    <CoreID></CoreID>
  </Cores>
</CoreEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CoreEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Cores>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <CoreID>0</CoreID>
        </Cores>
      </CoreEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CoreEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the card	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A
CoreID	ID of the Core.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<CoreEvent>
  <Cores>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <CoreID></CoreID>
    <CoreUsage></CoreUsage>
    <CoreThreshold></CoreThreshold>
    <CpuLast5sUsage></CpuLast5sUsage>
    <CpuLast1mUsage></CpuLast1mUsage>
    <CpuLast5mUsage></CpuLast5mUsage>
    <Process>
      <Name></Name>
      <CPU></CPU>
      <JobID></JobID>
      <PID></PID>
      <PPID></PPID>
      <InLast5sUsage></InLast5sUsage>
      <InLast1mUsage></InLast1mUsage>
      <InLast5mUsage></InLast5mUsage>
      <State></State>
      <Memory></Memory>
    </Process>
    <EventType></EventType>
    <CoreMinorThreshold></CoreMinorThreshold>
    <CoreRecoveryThreshold></CoreRecoveryThreshold>
  </Cores>
</CoreEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CoreEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Cores>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <CoreID>0</CoreID>
      <CoreUsage>6</CoreUsage>
      <CoreThreshold>5</CoreThreshold>
      <CpuLast5sUsage>3.12%</CpuLast5sUsage>
      <CpuLast1mUsage>2.56%</CpuLast1mUsage>
      <CpuLast5mUsage>5.23%</CpuLast5mUsage>
      <Process>
      <Name>diagd</Name>
        <CPU>0</CPU>
```

```
      <JobID>84</JobID>
      <PID>84</PID>
      <PPID>1</PPID>
      <InLast5sUsage>10.0%</InLast5sUsage>
      <InLast1mUsage>6.0%</InLast1mUsage>
      <InLast5mUsage>5.3%</InLast5mUsage>
      <State>R</State>
      <Memory>10384</Memory>
    </Process>
    ……
    <Process>
    <Name>syslogd</Name>
      <CPU>0</CPU>
      <JobID>86</JobID>
      <PID>86</PID>
      <PPID>1</PPID>
      <Name>syslogd</Name>
      <InLast5sUsage>10.0%</InLast5sUsage>
      <InLast1mUsage>6.0%</InLast1mUsage>
      <InLast5mUsage>5.3%</InLast5mUsage>
      <State>S</State>
      <Memory>12984</Memory>
    </Process>
    <EventType>CORE_SEVERE_THRESHOLD</EventType>
    <CoreMinorThreshold>3</CoreMinorThreshold>
    <CoreRecoveryThreshold>1</CoreRecoveryThreshold>
  </Cores>
 </CoreEvent>
</notification>
```


Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the card	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
CoreID	ID of the Core.	Unsigned integer. Value range: 0 to 65535.	N/A
CoreUsage	Core usage (%)	Unsigned integer. Value range: 0 to 100.	In last 30 minutes the core usage
CpuLast5sUsage	The core on CPU usage (%)	Double. Value range:0 to 100. Formats:	In last 5 seconds the CPU usage.

Column name	Column description	Data type and restrictions	Remarks
		%.2f	
CpuLast1mUsage	The core on CPU usage (%)	Double. Value range:0 to 100. Formats: %.2f	In last 1 minute the CPU usage.
CpuLast5mUsage	The core on CPU usage (%)	Double. Value range:0 to 100. Formats: %.2f	In last 5 minutes the CPU usage.
CoreThreshold	Core usage threshold	Unsigned integer. Value range: 2 to 100. Default: 4294967295.	N/A
Process	High-core usage processes	Members include: • Name • CPU • JobID • PID • InLast5sUsage • InLast1mUsage • InLast5mUsage • State • Memory	Only the top high-core usage processes are reported
Name	Process name	String. Length: 1 to 255 characters.	N/A
CPU	Core that held one of the top high-core usage processes when the high-core usage alarm was issued	Unsigned integer. Value range: 0 to 65535.	N/A
JobID	Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
PID	Process ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
PPID	Parent process ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
InLast5sUsage	Usage in the most recent 5-second interval (%)	Double. Value range: 0 to 100. Formats: %.1f	N/A
InLast1mUsage	Usage in the most recent 1-minute interval (%)	Double. Value range: 0 to 100. Formats: %.1f	N/A
InLast5mUsage	Usage in the most recent 5-minute interval	Double.	N/A

Column name	Column description	Data type and restrictions	Remarks
	(%)	Value range: 0 to 100. Formats: %.1f	
State	Running state of process	Enumeration: • **R**—Running. • **S**—Sleeping. • **T**—Traced or stopped. • **D**—Uninterruptible sleep. • **Z**—Zombie.	N/A
Memory	Size of the process memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
EventType	Core event type.	String: • **CORE_SEVERE_THRESHOLD**—A severe CPU core usage alarm occurred. • **CORE_SEVERE_RECOVERY**—A severe CPU core usage alarm was removed. • **CORE_MINOR_THRESHOLD**—A minor CPU core usage alarm occurred. **CORE_MINOR_RECOVERY**—A minor CPU core usage alarm was removed.	N/A
CoreMinorThreshold	Core usage minor threshold	Unsigned integer. Value range: 1 to 99. Default: 4294967295.	N/A
CoreRecoveryThreshold	Core usage recovery threshold	Unsigned integer. Value range: 0 to 98. Default: 4294967295.	N/A

DiskEvent event

This event is used to report disk alarm information.

XML structure for event subscription

```
<DiskEvent>
  <Disk>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <DiskName></DiskName>
  </Disk>
</DiskEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <DiskEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Disk>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <DiskName>flash</DiskName>
        </Disk>
      </DiskEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	DiskEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	No
DiskName	Disk name.	String. Length: 1 to 64 characters.	

XML structure for event report

```
<DiskEvent>
  <Disk>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <DiskName></DiskName>
    <Threshold></Threshold>
```

```
    <CurrentUsage></CurrentUsage>
  </Disk>
</DiskEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <DiskEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Disk>
      <Chassis>0</Chassis>
      <Slot><0/Slot>
      <CPUID>0</CPUID>
      <DiskName>flash</DiskName>
      <Threshold>80</Threshold>
      <CurrentUsage>45.55</CurrentUsage>
    </Disk>
  </DiskEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.
DiskName	Disk name.	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold (%).	Unsigned integer. Value range: 1 to 100.
CurrentUsage	Current disk usage (%).	Double. Value range: 0.00 to 100.00.

CPUUsageAlarmEvent event

This event is used to report CPU usage alarm information.

XML structure for event subscription

```
<CPUUsageAlarmEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
```

```
    <CPUID></CPUID>
  </CPU>
</CPUUsageAlarmEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CPUUsageAlarmEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <CPU>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </CPU>
      </CPUUsageAlarmEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CPUUsageAlarmEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<CPUUsageAlarmEvent>
  <CPU>
```

```
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Type></Type>
    <CPUUsage></CPUUsage>
    <Threshold></Threshold>
  </CPU>
</CPUUsageAlarmEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPUUsageAlarmEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <CPU>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <Type>1</Type>
      <CPUUsage>85</CPUUsage>
      <Threshold>80</Threshold>
    </CPU>
  </CPUUsageAlarmEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Event type	• Enumeration: • **1**—CPU_MINOR_THRESHOLD • **2**—CPU_SEVERE_THRESHOLD	N/A
CPUUsage	CPU usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Threshold	CPU usage threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

CPUUsageRecoverEvent event

This event is used to report CPU usage removal information.

XML structure for event subscription

```
<CPUUsageRecoverEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </CPU>
</CPUUsageRecoverEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CPUUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <CPU>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </CPU>
      </CPUUsageRecoverEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CPUUsageRecoverEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to	No	N/A

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
		65535.		

XML structure for event report

```
<CPUUsageRecoverEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Type></Type>
    <CPUUsage></CPUUsage>
    <Threshold></Threshold>
  </CPU>
</CPUUsageRecoverEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPUUsageRecoverEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <CPU>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <Type>1</Type>
      <CPUUsage>15</CPUUsage>
      <Threshold>80</Threshold>
    </CPU>
  </CPUUsageRecoverEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Event type	• Enumeration: • **1**—CPU_MINOR_THRESHOLD_RECOVER • **2**—CPU_SEVERE_THRESHOLD_RECOVER	N/A

Column name	Column description	Data type and restrictions	Remarks
CPUUsage	CPU usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Threshold	CPU usage threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

MemoryUsageAlarmEvent event

This event is used to report memory usage alarm information.

XML structure for event subscription

```
<MemoryUsageAlarmEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</MemoryUsageAlarmEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <MemoryUsageAlarmEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </MemoryUsageAlarmEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	MemoryUsageAlarmEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<MemoryUsageAlarmEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Type></Type>
    <MemoryUsage></MemoryUsage>
    <Threshold></Threshold>
  </Memory>
</MemoryUsageAlarmEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <MemoryUsageAlarmEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
       <Type>1</Type>
      <MemoryUsage>85</MemoryUsage>
      <Threshold>80</Threshold>
    </Memory>
  </MemoryUsageAlarmEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Data type and restrictions	Remarks
	the entity resides		
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Event type	• Enumeration: • **1**—MEM_MINOR_THRESHOLD • **2**—MEM_SEVERE_THRESHOLD • **3**—MEM_CRITICAL_THRESHOLD	N/A
MemoryUsage	Memory usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Threshold	Memory usage threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

MemoryUsageRecoverEvent event

This event is used to report memory usage removal information.

XML structure for event subscription

```
<MemoryUsageRecoverEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</MemoryUsageRecoverEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <MemoryUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </MemoryUsageRecoverEvent>
```

```
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	MemoryUsageRecoverEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<MemoryUsageRecoverEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Type></Type>
    <MemoryUsage></MemoryUsage>
    <Threshold></Threshold>
  </Memory>
</MemoryUsageRecoverEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <MemoryUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
```

```
      <Type>1</Type>
      <MemoryUsage>15</MemoryUsage>
      <Threshold>80</Threshold>
    </Memory>
  </MemoryUsageRecoverEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Type	Event type	• Enumeration: • **1**—MEM_MINOR_THRESHOLD_RECOVER • **2**—MEM_SEVERE_THRESHOLD_RECOVER • **3**—MEM_CRITICAL_THRESHOLD_RECOVER	N/A
MemoryUsage	Memory usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Threshold	Memory usage threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

DMAMemoryRecoverEvent event

This event is used to report DMA memory recovery information.

XML structure for event subscription

```
<DMAMemoryRecoverEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</DMAMemoryRecoverEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <DMAMemoryRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </DMAMemoryRecoverEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	DMAMemoryEventRecover
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU ID.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<DMAMemoryRecoverEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <FreeRatio></FreeRatio>
```

```
    <RecoverThreshold></RecoverThreshold>
  </Memory>
</DMAMemoryRecoverEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <DMAMemoryRecoverEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <Total>1199160</Total>
      <Used>773500</Used>
      <Free>425660</Free>
      <FreeRatio>35</FreeRatio>
      <RecoverThreshold>80</RecoverThreshold>
    </Memory>
  </DMAMemoryRecoverEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Unsigned integer. Value range: 0 to 65535.	N/A
Total	Total DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Used	Used DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Free	Free DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
FreeRatio	Ratio of free DMA memory space (%)	Unsigned integer. Value range: 0 to 100.	N/A
RecoverThreshold	Normal state threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

DMAMemoryCriticalEvent event

This event is used to report critical alarm information about free DMA memory.

XML structure for event subscription

```
<DMAMemoryCriticalEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</DMAMemoryCriticalEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <DMAMemoryCriticalEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </DMAMemoryCriticalEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	DMAMemoryCriticalEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
	device node.	Value range: 0 to 65535.	
CPUID	CPU ID.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<DMAMemoryCriticalEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <FreeRatio></FreeRatio>
    <CriticalThreshold></CriticalThreshold>
  </Memory>
</DMAMemoryCriticalEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <DMAMemoryCriticalEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <Total>1199160</Total>
      <Used>773500</Used>
      <Free>425660</Free>
      <FreeRatio>35</FreeRatio>
      <CriticalThreshold>80</CriticalThreshold>
    </Memory>
  </DMAMemoryCriticalEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Data type and restrictions	Remarks
CPUID	CPU ID.	Unsigned integer. Value range: 0 to 65535.	N/A
Total	Total DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Used	Used DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Free	Free DMA memory space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
FreeRatio	Ration of free DMA memory space (%)	Unsigned integer. Value range: 0 to 100.	N/A
CriticalThreshold	Normal state threshold (%) for the current event type	Unsigned integer. Value range: 0 to 100	N/A

Contents

DIM 1
DIM/CompileInspectEngine 1
XML structure 1
Table description 1
Columns 1
DIM/ImportWarningFile 1
XML structure 1
Table description 2
Columns 2
DIM/ResetWarningFile 2
XML structure 2
Table description 2
Columns 3
DIM/PcapUpload 3
XML structure 3
Table description 3
Columns 4

DIM

DIM/CompileInspectEngine

This table tiggers the inspect engine to activate all DPI settings.

XML structure

```
<DIM>
  <CompileInspectEngine>
    <Compile></Compile>
  </CompileInspectEngine>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CompileInspectEngine
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Compile	Activate all DPI settings	N/A	Boolean: • true • false	N/A

DIM/ImportWarningFile

This table contains the warning file of the warning parameter profile.

XML structure

```
<DIM>
  <ImportWarningFiles>
    <ImportWarningFile>
      <ParameterName></ParameterName>
      <Action></Action>
      <FileName></FileName>
```

```
    </ImportWarningFile>
  </ImportWarningFiles>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ImportWarningFiles
Table type	Multi-instance table
Row name	ImportWarningFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Warning parameter profile name	Index	String: case-insensitive. • Length: 1 to 63 characters.	Only support unsigned integers,characters and underlines.
Action	Action	N/A	Enumeration: • **1**—Block	N/A
FileName	Warning file name	N/A	String: case-insensitive. • Length: 1 to 255 characters.	N/A

DIM/ResetWarningFile

This table contains information about removing the warning file of the warning parameter profile.

XML structure

```
<DIM>
  <ResetWarningFiles>
    <ResetWarningFile>
      <ParameterName></ParameterName>
      <Action></Action>
    </ResetWarningFile>
  </ResetWarningFiles>
</DIM>
```

Table description

Item	Description
Feature name	DIM

Table name	ResetWarningFiles
Table type	Multi-instance table
Row name	ResetWarningFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Warning parameter profile name	Index	String: case-insensitive. • Length: 1 to 63 characters.	Only support unsigned integers,characters and underlines.
Action	Action	N/A	Enumeration: • **1**—Block	N/A

DIM/PcapUpload

This table contains configurations for uploading captured files to the cloud platform.

XML structure

```
<DIM>
  <PcapUpload>
    <URL></URL>
    <UploadTime></UploadTime>
    <UploadSize></UploadSize>
    <Enable></Enable>
  </PcapUpload>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	PcapUpload
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the cloud platform	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
UploadTime	Period of time for uploading captured files	N/A	Unsigned integer. Value range: 1 to 60, in minutes.	The unit is minute, and the default value is 5.
UploadSize	Max size of captured files to be uploaded	N/A	Unsigned integer. Value range: 1 to 20.	The unit is MB, and the default value is 10.
Enable	Enabling status of captured file uploading	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

DIM 1

DIM/BlockParameters 1
XML structure 1
Table description 1
Columns 1
DIM/CaptureParameters 1
XML structure 2
Table description 2
Columns 2
DIM/LoggingParameters 2
XML structure 3
Table description 3
Columns 3
DIM/RedirectParameters 3
XML structure 4
Table description 4
Columns 4
DIM/MailParameters 4
XML structure 4
Table description 5
Columns 5
DIM/InspectBypass 6
XML structure 6
Table description 6
Columns 6
DIM/ProxyServerParameters 6
XML structure 7
Table description 7
Columns 7
DIM/DimFileUncompress 7
XML structure 7
Table description 8
Columns 8
DIM/ProxyServerPara 8
XML structure 8
Table description 8
Columns 9
DIM/StreamFixedLength 9
XML structure 9
Table description 9
Columns 10
DIM/FileScanLength 10
XML structure 10
Table description 10
Columns 10
DIM/StreamFixedSwitch 11
XML structure 11
Table description 11
Columns 11
DIM/FileScanSwitch 11
XML structure 11
Table description 12
Columns 12
DIM/RealIPAddressEnable 12
XML structure 12
Table description 12
Columns 13

DIM/RealIPAddressPriority ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 13
DIM/RealIPAddressXff ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
DIM/TcpOptionConfig ····· 14
XML structure ····· 15
Table description ····· 15
Columns ····· 15
DIM/ExactPriority ····· 15
XML structure ····· 16
Table description ····· 16
Columns ····· 16
DIM/DIMFixedLength ····· 16
XML structure ····· 16
Table description ····· 17
Columns ····· 17
DIM/MD5ScanSwitch ····· 17
XML structure ····· 17
Table description ····· 18
Columns ····· 18
DIM/PerformanceOption ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 19
DIM/WarningParameters ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 19
DIM/IntelligentInspectServerConfig ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
DIM/IntelligentInspectExceptionDomain ····· 20
XML structure ····· 20
Table description ····· 21
Columns ····· 21
DIM/AutoUpdateParameters ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22

DIM

DIM/BlockParameters

This table contains block parameters.

XML structure

```
<DIM>
  <BlockParameters>
    <BlockParameter>
      <ParameterName></ParameterName>
      <Denyperiod></Denyperiod>
    </BlockParameter>
  </BlockParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Denyperiod	Deny period	N/A	Unsigned integer. Value range: 1 to 86400s	Default is 1800s

DIM/CaptureParameters

This table contains capture parameters.

XML structure

```
<DIM>
  <CaptureParameters>
    <CaptureParameter>
      <ParameterName></ParameterName>
      <CaptureMax></CaptureMax>
      <CaptureExceedURL></CaptureExceedURL>
      <StartTime></StartTime>
    </CaptureParameter>
  </CaptureParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CaptureParameters
Table type	Multi-instance table
Row name	CaptureParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CaptureMax	Max space for captured packets	N/A	Unsigned integer. Value range: 0 to 1024	Default is 512 Kbytes
CaptureExceedURL	The URL while the packets size exceeds the max space, they will be sent to	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
StartTime	Time when the system sends the packets	N/A	Time. Format: HH:MM:SS	Default is 01:00:00

DIM/LoggingParameters

This table contains logging parameters.

XML structure

```
<DIM>
  <LoggingParameters>
    <LoggingParameter>
      <ParameterName></ParameterName>
      <IsLogToHost></IsLogToHost>
      <IsLogMail></IsLogMail>
      <IsLogLanguageCN></IsLogLanguageCN>
    </LoggingParameter>
  </LoggingParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: • true • false	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: • true • false	N/A
IsLogLanguageCN	Support for logs in Chinese	N/A	Boolean: • true • false	Only attack name support chinese

DIM/RedirectParameters

This table contains redirect parameters.

XML structure

```
<DIM>
  <RedirectParameters>
    <RedirectParameter>
      <ParameterName></ParameterName>
      <url></url>
    </RedirectParameter>
  </RedirectParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RedirectParameters
Table type	Multi-instance table
Row name	RedirectParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
url	Target URL for redirect	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

DIM/MailParameters

This table contains mail parameters.

XML structure

```
<DIM>
  <MailParameters>
    <MailParameter>
      <ParameterName></ParameterName>
      <ServerAddr></ServerAddr>
      <SrcMailAddr></SrcMailAddr>
      <DstMailAddr></DstMailAddr>
```

```
      <LocalDomain></LocalDomain>
      <UserName></UserName>
      <Password></Password>
      <IsNeedAuthentication></IsNeedAuthentication>
      <IsNeedSPA></IsNeedSPA>
      <TimeLimit></TimeLimit>
      <MailNumLimit></MailNumLimit>
    </MailParameter>
  </MailParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	MailParameters
Table type	Multi-instance table
Row name	MailParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServerAddr	Mail server's address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMailAddr	Source mail address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMailAddr	Destination mail address	N/A	String, case-insensitive. Length: 1 to 502characters.	N/A
LocalDomain	Local domain name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserName	Mail user name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Password	Password	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsNeedAuthentication	Requires authentication by the mail server or not	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: • true • false	N/A
TimeLimit	Time interval limit	N/A	Unsigned Integer: Value range: 1 to 10 minutes	By default, DIM mail limits 10 mails in 5 minutes.
MailNumLimit	Mail max number limit	N/A	Unsigned Integer: Value range: 1 to 100	By default, DIM mail limits 10 mails in 5 minutes.

DIM/InspectBypass

This table contains bypass parameters.

XML structure

```
<DIM>
  <InspectBypass>
    <BypassByConfig></BypassByConfig>
  </InspectBypass>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	InspectBypass
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BypassByConfig	Value of bypass.	N/A	Boolean: • true • false	N/A

DIM/ProxyServerParameters

This table contains information about DIM proxy server parameters.

XML structure

```
<DIM>
  <ProxyServerParameters>
    <ProxyServerParameter>
      <ProxyAddress></ProxyAddress>
      <ProxyPort></ProxyPort>
      <UserName></UserName>
      <PassWord></PassWord>
    </ProxyServerParameter>
  </ProxyServerParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerParameters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/DimFileUncompress

This table contains the maximum length of file uncompressing.

XML structure

```
<DIM>
```

```
  <DimFileUncompress>
    <Size></Size>
  </DimFileUncompress>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DimFileUncompress
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Size	Maximum szie that can be uncompressed	N/A	Unsigned integer. Value range: 1 to 200MB.	N/A

DIM/ProxyServerPara

This table contains information about DIM proxy server parameters.

XML structure

```
<DIM>
  <ProxyServerPara>
    <ProxyAddress></ProxyAddress>
    <ProxyPort></ProxyPort>
    <UserName></UserName>
    <PassWord></PassWord>
  </ProxyServerPara>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerPara
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/StreamFixedLength

This table contains the length of data per data stream to be inspected.

XML structure

```
<DIM>
  <StreamFixedLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <Length></Length>
    </Protocol>
  </StreamFixedLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	StreamFixedLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP • MAIL	Protocol MAIL include SMTP, POP3 and IMAP
Length	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048KB.	N/A

DIM/FileScanLength

This table contains the length of file per data stream to be inspected.

XML structure

```
<DIM>
  <FileScanLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <Length></Length>
    </Protocol>
  </FileScanLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	FileScanLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP	Protocol MAIL include SMTP, POP3 and IMAP

			• MAIL • NFS • SMB	
Length	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048KB.	N/A

DIM/StreamFixedSwitch

This table contains the feature fixed length of data per data stream to be inspected setting.

XML structure

```
<DIM>
  <StreamFixedSwitch>
    <SwitchByConfig></SwitchByConfig>
  </StreamFixedSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	StreamFixedSwitch
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature fixed length of data per data stream to be inspected.	N/A	Boolean: • true • false	N/A

DIM/FileScanSwitch

This table contains the feature fixed length of file per data stream to be inspected setting.

XML structure

```
<DIM>
```

```
  <FileScanSwitch>
    <SwitchByConfig></SwitchByConfig>
  </FileScanSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	FileScanSwitch
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature fixed length of file per data stream to be inspected.	N/A	Boolean: • true • false	N/A

DIM/RealIPAddressEnable

This table contains the settings of the real source IP switch.

XML structure

```
<DIM>
  <RealIPAddressEnable>
    <DetectionEnable></DetectionEnable>
  </RealIPAddressEnable>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressEnable
Table Type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionEnable	Enabling status of detecting real source IP	N/A	Boolean: • true • false	Default is false

DIM/RealIPAddressPriority

This table contains the settings of field priority in the real source IP.

XML structure

```
<DIM>
  <RealIPAddressPriority>
  <RealIPAddrPriority>
    <RealIpAddrField></RealIpAddrField>
    <Level></Level>
  </RealIPAddrPriority>
  </RealIPAddressPriority>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressPriority
Table Type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealIpAddrField	Field of the real	Index	String: case-insensitive	N/A

	source IP		• X-Forwarder-For. • Cdn-Src-IP. • X-Real-IP. • Tcp Options.	
Level	Level of the field in the real source IP.	N/A	Unsigned integer. Value range: 0 to 100.	Default is 0

DIM/RealIPAddressXff

This table contains the settings of the X-Forwarded-For field in the real source IP acquisition method.

XML structure

```
<DIM>
  <RealIPAddressXff>
    <XffLocation></XffLocation>
  </RealIPAddressXff>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressXff
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XffLocation	Get originating source IP address from X-Forwarded-For field.	N/A	Enumeration: • **1**—tail. • **2**—head.	N/A

DIM/TcpOptionConfig

This table contains information about getting real source IP from TCP option.

XML structure

```
<DIM>
  <TcpOptionConfig>
    <TcpOptOffset></TcpOptOffset>
    <DetectLength></DetectLength>
    <DetectValue></DetectValue>
    <RealIPOffset></RealIPOffset>
  </TcpOptionConfig>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	TcpOptionConfig
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TcpOptOffset	Offset bytes after which the search operation starts in the TCP Option filed	Index	Unsigned integer. Value range: 0 to 32.	Default is 0
DetectLength	Number of bytes to search for the detection content	N/A	Unsigned integer. Value range: 2 to 40.	N/A
DetectValue	Content to be searched for	N/A	Hex string, must be enclosed within vertical bars. Length: 6 to 66 characters.	N/A
RealIPOffset	Offset from the detection content to locate the real IP address value	N/A	Unsigned integer. Value range: 0 to 32.	Default is 0

DIM/ExactPriority

This table contains the status of the accurate inspection.

XML structure

```
<DIM>
  <ExactPriority>
    <Switch></Switch>
  </ExactPriority>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ExactPriority
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	Enabling status of the exact priority feature.	N/A	Boolean: • **True**—Enabled. • **False**—Disabled (default).

DIM/DIMFixedLength

This table contains the length of data per data stream to be inspected.

XML structure

```
<DIM>
  <DIMFixedLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <FileFixedLength></FileFixedLength>
      <StreamFixedLength></StreamFixedLength>
      <MD5FixedLength></MD5FixedLength>
    </Protocol>
  </DIMFixedLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DIMFixedLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP • MAIL • NFS • SMB	The value MAIL includes the protocols of SMTP, POP3 and IMAP.
FileFixedLength	Length of file per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A
StreamFixedLength	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A
MD5FixedLength	Length of data per data stream to be MD5-inpected	N/A	Unsigned integer: Value range: 1 to 5120.	N/A

DIM/MD5ScanSwitch

This table contains the feature MD5 hash-based inspection of a fixed length of files setting.

XML structure

```
<DIM>
  <MD5ScanSwitch>
    <SwitchByConfig></SwitchByConfig>
  </MD5ScanSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	MD5ScanSwitch
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature MD5 hash-based inspection of a fixed length of files.	N/A	Boolean: • true • false	N/A

DIM/PerformanceOption

This table contains the performance option of DIM engine setting.

XML structure

```
<DIM>
  <PerformanceOption>
    <OptionValue></OptionValue>
  </PerformanceOption>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	PerformanceOption
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionValue	Performance option.	N/A	Enumeration: • **1**—High-performance. • **2**—Balanced. • **3**—High-rate. • **4**—User-defined.	Default: 2.

DIM/WarningParameters

This table contains warning parameter profile.

XML structure

```
<DIM>
  <WarningParameters>
    <WarningParameter>
      <ParameterName></ParameterName>
    </WarningParameter>
  </WarningParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	WarningParameters
Table type	Multi-instance table
Row name	WarningParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Warning parameter profile name	Index	String, case-insensitive. Length: 1 to 63 characters.	Only support unsigned integers,characters and underlines.

DIM/IntelligentInspectServerConfig

This table contains the IP address of the intelligent inspect server .This config is use by Anti-virus and DGA.

XML structure

```
<DIM>
  <IntelligentInspectServerConfig>
    <IpAddress></IpAddress>
  </IntelligentInspectServerConfig>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	IntelligentInspectServerConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the intelligent inspect server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`

DIM/IntelligentInspectExceptionDomain

This table contains exceptional domains for intelligent inspect.This config is use by IPReputation and DGA.

XML structure

```
<DIM>
  <IntelligentInspectExceptionDomain>
    <Domains>
      <Domain></Domain>
    </Domains>
  </IntelligentInspectExceptionDomain>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	IntelligentInspectExceptionDomain
Table type	Multi-instance table
Row name	Domains
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Exceptional domain for intelligent inspect	Index	String, case-insensitive. Length: 3 to 255 characters. The domain name can contain only letters, digits, hyphens (-), and dots (.). An exceptional domain name cannot start or end with a dot (.). A dot (.) acts as the delimiter between a higher-level domain name and a lower-level domain name in a multilevel domain name. The domain name at each level is a string of 1 to 63 characters.	Example: baidu.com

DIM/AutoUpdateParameters

This table contains information about signature auto-update parameters.

XML structure

```
<DIM>
  <AutoUpdateParameters>
    <AutoUpdateParameter>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
      <VrfName></VrfName>
    </AutoUpdateParameter>
  </AutoUpdateParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	AutoUpdateParameters
Table type	Single-instance table
Row name	AutoUpdateParameter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP address type	N/A	Enumeration: 1—IPv4 2—IPv6	AddressType must be configured together with Address or IfIndex.
IpAddress	IP address	N/A	IPv4 or IPv6	Cannot be configured together with IfIndex.
IfIndex	Interface index	N/A	Unsigned integer.	Cannot be configured together with IpAddress.
VrfName	VPN instance name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Contents

DIM 1

DIM/BlockParameters 1
XML structure 1
Table description 1
Columns 1
DIM/CaptureParameters 1
XML structure 2
Table description 2
Columns 2
DIM/LoggingParameters 2
XML structure 3
Table description 3
Columns 3
DIM/RedirectParameters 3
XML structure 4
Table description 4
Columns 4
DIM/MailParameters 4
XML structure 4
Table description 5
Columns 5
DIM/ActivePercentage 6
XML structure 6
Table description 6
Columns 6
DIM/InspectBypass 6
XML structure 7
Table description 7
Columns 7
DIM/ProxyServerParameters 7
XML structure 7
Table description 8
Columns 8
DIM/DimFileUncompress 8
XML structure 8
Table description 8
Columns 9
DIM/DeviceInfo 9
XML structure 9
Table description 9
Columns 9
DIM/ProxyServerPara 10
XML structure 10
Table description 10
Columns 10
DIM/StreamFixedLength 10
XML structure 11
Table description 11
Columns 11
DIM/FileScanLength 11
XML structure 11
Table description 12
Columns 12
DIM/StreamFixedSwitch 12
XML structure 12
Table description 12
Columns 13

DIM/FileScanSwitch 13
XML structure 13
Table description 13
Columns 13
DIM/RealIPAddressEnable 14
XML structure 14
Table description 14
Columns 14
DIM/RealIPAddressPriority 14
XML structure 14
Table description 15
Columns 15
DIM/RealIPAddressXff 15
XML structure 15
Table description 15
Columns 16
DIM/TcpOptionConfig 16
XML structure 16
Table description 16
Columns 16
DIM/ExactPriority 17
XML structure 17
Table description 17
Columns 17
DIM/DIMFixedLength 18
XML structure 18
Table description 18
Columns 18
DIM/MD5ScanSwitch 19
XML structure 19
Table description 19
Columns 19
DIM/PerformanceOption 19
XML structure 19
Table description 20
Columns 20
DIM/WarningParameters 20
XML structure 20
Table description 20
Columns 21
DIM/ModuleSupport 21
XML structure 21
Table description 21
Columns 22
DIM/IntelligentInspectServerConfig 23
XML structure 23
Table description 23
Columns 23
DIM/IntelligentInspectServerState 23
XML structure 23
Table description 24
Columns 24
DIM/IntelligentInspectExceptionDomain 24
XML structure 24
Table description 24
Columns 25
DIM/AutoUpdateParameters 25
XML structure 25
Table description 25
Columns 26

DIM

DIM/BlockParameters

This table contains block parameters.

XML structure

```
<DIM>
  <BlockParameters>
    <BlockParameter>
      <ParameterName></ParameterName>
      <Denyperiod></Denyperiod>
    </BlockParameter>
  </BlockParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Denyperiod	Deny period	N/A	Unsigned integer. Value range: 1 to 86400s.	Default is 1800s

DIM/CaptureParameters

This table contains capture parameters.

XML structure

```
<DIM>
  <CaptureParameters>
    <CaptureParameter>
      <ParameterName></ParameterName>
      <CaptureMax></CaptureMax>
      <CaptureExceedURL></CaptureExceedURL>
      <UploadTime></UploadTime>
    </CaptureParameter>
  </CaptureParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CaptureParameters
Table type	Multi-instance table
Row name	CaptureParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CaptureMax	Max space for captured packets	N/A	Unsigned integer. Value range: 0 to 1024	Default is 512 Kbytes
CaptureExceedURL	The URL while the packets size exceeds the max space, they will be sent to	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UploadTime	Time when the system sends the packets	N/A	Time. Format: HH:MM:SS	Default is 01:00:00

DIM/LoggingParameters

This table contains logging parameters.

XML structure

```
<DIM>
  <LoggingParameters>
    <LoggingParameter>
      <ParameterName></ParameterName>
      <IsLogToHost></IsLogToHost>
      <IsLogMail ></IsLogMail>
      <IsLogLanguageCN></IsLogLanguageCN>
    </LoggingParameter>
  </LoggingParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: • true • false	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: • true • false	N/A
IsLogLanguageCN	Support for logs in Chinese	N/A	Boolean: • true • false	Only attack name support chinese

DIM/RedirectParameters

This table contains redirect parameters.

XML structure

```
<DIM>
  <RedirectParameters>
    <RedirectParameter>
      <ParameterName></ParameterName>
      <url></url>
    </RedirectParameter>
  </RedirectParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RedirectParameters
Table type	Multi-instance table
Row name	RedirectParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
url	Target URL for redirect	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

DIM/MailParameters

This table contains mail parameters.

XML structure

```
<DIM>
  <MailParameters>
    <MailParameter>
      <ParameterName></ParameterName>
      <ServerAddr></ServerAddr>
      <SrcMailAddr></SrcMailAddr>
      <DstMailAddr></DstMailAddr>
      <LocalDomain></LocalDomain>
```

```
      <UserName></UserName>
      <Password></Password>
      <IsNeedAuthentication></IsNeedAuthentication>
      <IsNeedSPA></IsNeedSPA>
      <TimeLimit></TimeLimit>
      <MailNumLimit></MailNumLimit>
    </MailParameter>
  </MailParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	MailParameters
Table type	Multi-instance table
Row name	MailParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServerAddr	Mail server's address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMailAddr	Source mail address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMailAddr	Destination mail address	N/A	String, case-insensitive. Length: 1 to 502 characters.	N/A
LocalDomain	Local domain name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserName	Mail user name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Password	Password	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsNeedAuthentication	Requires authentication by the mail server or not	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: • true • false	N/A
TimeLimit	Time interval limit	N/A	Unsigned Integer: Value range: 1 to 10 minutes	By default, DIM mail limits 10 mails in 5 minutes.
MailNumLimit	Mail max number limit	N/A	Unsigned Integer: Value range: 1 to 100	By default, DIM mail limits 10 mails in 5 minutes.

DIM/ActivePercentage

This table contains active percentage.

XML structure

```
<DIM>
  <ActivePercentage>
    <Percentage></Percentage>
  </ActivePercentage>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ActivePercentage
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Percentage of active.	N/A	Unsigned integer: Value range: 0 to 100.	When the value range is 0 to 100,it means in active, Otherwise, means error

DIM/InspectBypass

This table contains bypass information.

XML structure

```
<DIM>
  <InspectBypass>
    <BypassByConfig></BypassByConfig>
  </InspectBypass>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	InspectBypass
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BypassByConfig	Value of bypass.	N/A	Boolean: • true • false	N/A

DIM/ProxyServerParameters

This table contains information about DIM proxy server parameters.

XML structure

```
<DIM>
  <ProxyServerParameters>
    <ProxyServerParameter>
      <ProxyAddress></ProxyAddress>
      <ProxyPort></ProxyPort>
      <UserName></UserName>
      <PassWord></PassWord>
    </ProxyServerParameter>
  </ProxyServerParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerParameters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/DimFileUncompress

This table contains the maximum length of file uncompressing.

XML structure

```
<DIM>
  <DimFileUncompress>
    <Size></Size>
  </DimFileUncompress>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DimFileUncompress
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Size	Maximum size that can be uncompressed	N/A	Unsigned integer. Value range: 1 to 200MB.	N/A

DIM/DeviceInfo

This table contains the device node where main dpid running on.

XML structure

```
<DIM>
  <DeviceInfo>
    <ModuleName></ModuleName>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </DeviceInfo>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DeviceInfo
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleName	The name of current module.	Index	String. Length: 1 to 63 characters..	N/A
Chassis	Chassis of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned integer.	N/A

			Value range: 0 to 65535.	

DIM/ProxyServerPara

This table contains information about DIM proxy server parameters.

XML structure

```
<DIM>
  <ProxyServerPara>
    <ProxyAddress></ProxyAddress>
    <ProxyPort></ProxyPort>
    <UserName></UserName>
    <PassWord></PassWord>
  </ProxyServerPara>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerPara
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/StreamFixedLength

This table contains the length of data per data stream to be inspected.

XML structure

```
<DIM>
  <StreamFixedLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <Length></Length>
    </Protocol>
  </StreamFixedLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	StreamFixedLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP • MAIL	Protocol MAIL include SMTP, POP3 and IMAP
Length	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A

DIM/FileScanLength

This table contains the length of file per data stream to be inspected.

XML structure

```
<DIM>
  <FileScanLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <Length></Length>
    </Protocol>
```

```
  </FileScanLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	FileScanLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP • MAIL • NFS • SMB	Protocol MAIL include SMTP, POP3 and IMAP
Length	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A

DIM/StreamFixedSwitch

This table contains the feature fixed length of data per data stream to be inspected setting.

XML structure

```
<DIM>
  <StreamFixedSwitch>
    <SwitchByConfig></SwitchByConfig>
  </StreamFixedSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	StreamFixedSwitch
Table Type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature fixed length of data per data stream to be inspected.	N/A	Boolean: • true • false	N/A

DIM/FileScanSwitch

This table contains the feature fixed length of file per data stream to be inspected setting.

XML structure

```
<DIM>
  <FileScanSwitch>
    <SwitchByConfig></SwitchByConfig>
  </FileScanSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	FileScanSwitch
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature fixed length of file per data stream to be inspected.	N/A	Boolean: • true • false	N/A

DIM/RealIPAddressEnable

This table contains the settings of the real source IP switch.

XML structure

```
<DIM>
  <RealIPAddressEnable>
    <DetectionEnable></DetectionEnable>
  </RealIPAddressEnable>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressEnable
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionEnable	Enabling status of detecting real source IP	N/A	Boolean: • true • false	Default is false

DIM/RealIPAddressPriority

This table contains the settings of field priority in the real source IP.

XML structure

```
<DIM>
  <RealIPAddressPriority>
    <RealIPAddrPriority>
       <RealIpAddrField></RealIpAddrField>
      <Level></Level>
     </RealIPAddrPriority>
  </RealIPAddressPriority>
```

```
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressPriority
Table Type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealIpAddrField	Field of the real source IP	Index	String: case-insensitive • X-Forwarded-For. • Cdn-Src-IP. • X-Real-IP. • Tcp Options.	N/A
Level	Level of the field in the real source IP.	N/A	Unsigned integer. Value range: 0 to 100.	Default is 0

DIM/RealIPAddressXff

This table contains the settings of the X-Forwarded-For field in the real source IP acquisition method.

XML structure

```
<DIM>
  <RealIPAddressXff>
    <XffLocation></XffLocation>
  </RealIPAddressXff>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	RealIPAddressXff
Table Type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XffLocation	Get originating source IP address from X-Forwarded-For field.	N/A	Enumeration: • **1**—tail. • **2**—head.	N/A

DIM/TcpOptionConfig

This table contains information about getting real source IP from TCP option.

XML structure

```
<DIM>
  <TcpOptionConfig>
    <TcpOptOffset></TcpOptOffset>
    <DetectLength></DetectLength>
    <DetectValue></DetectValue>
    <RealIPOffset></RealIPOffset>
  </TcpOptionConfig>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	TcpOptionConfig
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TcpOptOffset	Offset bytes after	Index	Unsigned integer.	Default is 0

	which the search operation starts in the TCP Option filed		Value range: 0 to 32.	
DetectLength	Number of bytes to search for the detection content	N/A	Unsigned integer. Value range: 2 to 40.	N/A
DetectValue	Content to be searched for	N/A	Hex string, must be enclosed within vertical bars. Length: 6 to 66 characters.	N/A
RealIPOffset	Offset from the detection content to locate the real IP address value	N/A	Unsigned integer. Value range: 0 to 32.	Default is 0

DIM/ExactPriority

This table contains the status of the accurate inspection.

XML structure

```
<DIM>
  <ExactPriority>
    <Switch></Switch>
  </ExactPriority>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ExactPriority
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	Enabling status of the exact priority feature.	N/A	Boolean: • **True**—Enabled. • **False**—Disabled.

DIM/DIMFixedLength

This table contains the length of data per data stream to be inspected.

XML structure

```
<DIM>
  <DIMFixedLength>
    <Protocol>
      <ProtocolName></ProtocolName>
      <FileFixedLength></FileFixedLength>
      <StreamFixedLength></StreamFixedLength>
      <MD5FixedLength></MD5FixedLength>
    </Protocol>
  </DIMFixedLength>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DIMFixedLength
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolName	Protocol name	Index	String: case-insensitive • HTTP • FTP • MAIL • NFS • SMB	The value MAIL includes the protocols of SMTP, POP3 and IMAP.
FileFixedLength	Length of file per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A
StreamFixedLength	Length of data per data stream to be inpected	N/A	Unsigned integer: Value range: 1 to 2048.	N/A
MD5FixedLength	Length of data per data stream to be MD5-inpected	N/A	Unsigned integer: Value range: 1 to 5120.	N/A

DIM/MD5ScanSwitch

This table contains the feature MD5 hash-based inspection of a fixed length of files setting.

XML structure

```
<DIM>
  <MD5ScanSwitch>
    <SwitchByConfig></SwitchByConfig>
  </MD5ScanSwitch>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	MD5ScanSwitch
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchByConfig	Enabling status of the feature MD5 hash-based inspection of a fixed length of files.	N/A	Boolean: • true • false	N/A

DIM/PerformanceOption

This table contains the performance option of DIM engine setting.

XML structure

```
<DIM>
  <PerformanceOption>
    <OptionValue></OptionValue>
  </PerformanceOption>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	PerformanceOption
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionValue	Performance option.	N/A	Enumeration: • **1**—High-performance. • **2**—Balanced. • **3**—High-rate. • **4**—User-defined.	N/A

DIM/WarningParameters

This table contains warning parameter profile.

XML structure

```
<DIM>
  <WarningParameters>
    <WarningParameter>
      <ParameterName></ParameterName>
    </WarningParameter>
  </WarningParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	WarningParameters
Table type	Multi-instance table
Row name	WarningParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Warning parameter profile name	Index	String, case-insensitive. Length: 1 to 63 characters.	Only support unsigned integers,characters and underlines.

DIM/ModuleSupport

This table contains the information that the modules is suppoted or not by DPI.

XML structure

```
<DIM>
  <ModuleSupport>
    <NBARSupport></NBARSupport>
    <IPSSupport></IPSSupport>
    <AVCSupport></AVCSupport>
    <UFILTERSupport></UFILTERSupport>
    <DFILTERSupport></DFILTERSupport>
    <AVSupport></AVSupport>
    <AUDITSupport></AUDITSupport>
    <FFILTERSupport></FFILTERSupport>
    <NETSHARESupport></NETSHARESupport>
    <IPREPUTATIONSupport></IPREPUTATIONSupport>
    <WAFSupport></WAFSupport>
    <CCSupport></CCSupport>
    <APTSupport></APTSupport>
  </ModuleSupport>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ModuleSupport
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NBARSupport	NBAR is supported or not by DPI.	N/A	Boolean: • true • false	N/A
IPSSupport	IPS is supported or not by DPI.	N/A	Boolean: • true • false	N/A
AVCSupport	AVC is supported or not by DPI.	N/A	Boolean: • true • false	N/A
UFILTERSupport	UFILTER is supported or not by DPI.	N/A	Boolean: • true • false	N/A
DFILTERSupport	DFILTER is supported or not by DPI.	N/A	Boolean: • true • false	N/A
AVSupport	AV is supported or not by DPI.	N/A	Boolean: • true • false	N/A
AUDITSupport	AUDIT is supported or not by DPI.	N/A	Boolean: • true • false	N/A
FFILTERSupport	FFILTER is supported or not by DPI.	N/A	Boolean: • true • false	N/A
NETSHARESupport	NETSHARE is supported or not by DPI.	N/A	Boolean: • true • false	N/A
IPREPUTATIONSupport	IPREPUTATION is supported or not by DPI.	N/A	Boolean: • true • false	N/A
WAFSupport	WAF is supported or not by DPI.	N/A	Boolean: • true • false	N/A
CCSupport	CC is supported or not by DPI.	N/A	Boolean: • true • false	N/A
APTSupport	APT is supported or not by DPI.	N/A	Boolean: • true • false	N/A

DIM/IntelligentInspectServerConfig

This table contains the IP address of the intelligent inspect server.

XML structure

```
<DIM>
  <IntelligentInspectServerConfig>
    <IpAddress></IpAddress>
  </IntelligentInspectServerConfig>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	IntelligentInspectServerConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the intelligent-inspect server	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DIM/IntelligentInspectServerState

This table contains status information of the intelligent inspect server.

XML structure

```
<DIM>
  <IntelligentInspectServerState>
    <IpAddress></IpAddress>
    <State></State>
    <Supported></Supported>
  </IntelligentInspectServerState>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	IntelligentInspectServerState
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the intelligent inspect server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`
State	Status of the intelligent inspect server	N/A	Enumeration: • **0**—Disconnected. • **1**—Connecting. • **2**—Connected.	N/A
Supported	Supported or not supported	N/A	Boolean: • true • false	N/A

DIM/IntelligentInspectExceptionDomain

This table contains exceptional domains for intelligent inspect.

XML structure

```
<DIM>
  <IntelligentInspectExceptionDomain>
    <Domains>
      <Domain></Domain>
    </Domains>
  </IntelligentInspectExceptionDomain>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	IntelligentInspectExceptionDomain
Table type	Multi-instance table

Row name	Domains
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Exceptional domain for ntelligent inspect	Index	String, case-insensitive. Length: 3 to 255 characters. The domain name can contain only letters, digits, hyphens (-), and dots (.). An exceptional domain name cannot start or end with a dot (.). A dot (.) acts as the delimiter between a higher-level domain name and a lower-level domain name in a multilevel domain name. The domain name at each level is a string of 1 to 63 characters.	Example: baidu.com

DIM/AutoUpdateParameters

This table contains information about signature auto-update parameters.

XML structure

```
<DIM>
  <AutoUpdateParameters>
    <AutoUpdateParameter>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
      <VrfName></VrfName>
    </AutoUpdateParameter>
  </AutoUpdateParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	AutoUpdateParameters
Table type	Single-instance table
Row name	AutoUpdateParameter
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP address type	N/A	Enumeration: 1—IPv4 2—IPv6	N/A
IpAddress	IP address	N/A	IPv4 or IPv6	N/A
IfIndex	Interface index	N/A	Unsigned integer.	N/A
VrfName	VPN instance name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Contents

DIM 1
DIM/CompileInspectEngine 1
DIM/StreamFixedLength 1
DIM/FileScanLength 1

DIM

DIM/CompileInspectEngine

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	The signature file is updating, Please try later. 特征库正在升级，稍后再试。
Cannot execute this operation because of memory alert. 已达到内存门限，不能执行此操作。	The device memory is not sufficient to execute this operation. 设备内存不够，不能继续操作。
Cannot update the signature library because the required service card cannot be found. 未检测到业务板，特征库升级失败。	Cannot update the signature library because the required service card cannot be found. Please check the service card's status. 未检测到业务板，特征库升级失败。请检查业务版状态。

DIM/StreamFixedLength

Message	Explanation
The data length cannot be less than the file length. 数据长度不能小于文件长度。	The data length is less than the file length, Please modify the data length. 数据定长扫描配置的长度小于文件定长扫描配置的长度，请修改。

DIM/FileScanLength

Message	Explanation
The file length cannot be greater than the data length. 文件长度不能大于数据长度。	The file length is greater than the data length, Please modify the file length. 文件定长扫描配置的长度大于数据定长扫描配置的长度，请修改。

Contents

DLP 1
DLP/ImportResourceFile 1
XML structure 1
Table description 1
Columns 1
DLP/ExportResourceFile 1
XML structure 1
Table description 2
Columns 2

DLP

DLP/ImportResourceFile

This table contains information about import resourece file.

XML structure

```
<DLP>
  <ImportResourceFile>
    <FileName></FileName>
  </ImportResourceFile>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ImportResourceFile
Table type	Multi-instance table
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The name of file imported	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required

DLP/ExportResourceFile

This table contains information about regex template list of a regex condition.

XML structure

```
<DLP>
  <ExportResourceFile>
    <ResourceType></ResourceType>
    <FileName></FileName>
  </ExportResourceFile>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ExportResourceFile
Table type	Multi-instance table
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceType	Resource Type.	N/A	Unsigned integer. Value range: 1 to 2147483647.	Required. From left to right,the bit which is 1 represents that the corresponding resource needs to be exported. Regex template corresponds to the 8th bit. Mail template corresponds to the 7th bit. Mail server corresponds to the 6th bit. Syslog template corresponds to the 5th bit. File type template corresponds to the 4th bit Upload file template correspnds to the 3rd bit. Index file corresponds to the 2nd bit Event stete corresponds to the 1st bit. For example,we need to export regex template and index file template,the resource type bit is 10000010B,so the resource type is 130.
FileName	The name of file exported	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.

Contents

DLP 1

DLP/RegexTemplateList 1
XML structure 1
Table description 1
Columns 1
DLP/MailTemplateList 2
XML structure 2
Table description 2
Columns 2
DLP/MailServerList 3
XML structure 3
Table description 4
Columns 4
DLP/SyslogTemplateList 4
XML structure 5
Table description 5
Columns 5
DLP/UploadFileTemplateList 6
XML structure 6
Table description 6
Columns 6
DLP/IndexFileTemplateList 7
XML structure 7
Table description 7
Columns 8
DLP/LocalIpv4RangeList 8
XML structure 8
Table description 8
Columns 9
DLP/LocalIpv6RangeList 9
XML structure 9
Table description 9
Columns 9
DLP/ProtocolFilterList 10
XML structure 10
Table description 10
Columns 10
DLP/FlowDirectionList 11
XML structure 11
Table description 11
Columns 11
DLP/DetectPolicyList 11
XML structure 11
Table description 12
Columns 12
DLP/DetectRuleList 12
XML structure 12
Table description 13
Columns 13
DLP/IdentityRuleList 13
XML structure 13
Table description 14
Columns 14
DLP/ExceptionDetectRuleList 14
XML structure 14
Table description 15
Columns 15

DLP/ExceptionIdentityRuleList 15
XML structure 15
Table description 16
Columns 16
DLP/ResponseRuleList 16
XML structure 16
Table description 16
Columns 17
DLP/RegexConditionList 17
XML structure 17
Table description 18
Columns 18
DLP/KeywordConditionList 19
XML structure 19
Table description 19
Columns 20
DLP/IndexFileConditionList 21
XML structure 21
Table description 21
Columns 22
DLP/FileAttriConditonList 22
XML structure 22
Table description 23
Columns 23
DLP/SenderConditionList 24
XML structure 24
Table description 25
Columns 25
DLP/ReceiverConditionList 27
XML structure 27
Table description 27
Columns 28
DLP/ProtocolConditionList 29
XML structure 29
Table description 30
Columns 30
DLP/ResponseRuleTempList 30
XML structure 31
Table description 31
Columns 31
DLP/ResponseConditionList 31
XML structure 31
Table description 32
Columns 32
DLP/ResponseActionList 33
XML structure 33
Table description 33
Columns 34

DLP

DLP/RegexTemplateList

This table contains information about regex template list of a regex condition.

XML structure

```
<DLP>
  <RegexTemplateList>
    <RegexTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <Regex></Regex>
    </RegexTemplate>
  </RegexTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	RegexTemplateList
Table type	Multi-instance table
Row name	RegexTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 1000.	Required. Because of size limit,value in range :1 to 1000 is permitted
ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Regex template name can not contain the word default as prefix when create a new template. Modification is not allowed.
Regex	Regex expression	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.

DLP/MailTemplateList

This table contains information about mail template list of a response action.

XML structure

```
<DLP>
  <MailTemplateList>
    <MailTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerID></ServerID>
      <MailToList>
        <Address></Address>
      </MailToList>
      <MailCCList>
        <CCAddress></CCAddress>
      </MailCCList>
      <MailBCCList>
        <BCCAddress></BCCAddress>
      </MailBCCList>
      <Subject></Subject>
      <Body></Body>
    </MailTemplate>
  </MailTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	MailTemplateList
Table type	Multi-instance table
Row name	MailTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted

ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Mail template name can not contain the word default as prefix when create a new template. Modification is not allowed.
ServerID	Mail Server ID.	N/A	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
MailToList	Where do the mail send to.	Data structure	Members include: • Address.	Required. (list contains up to 10 elements)
Address	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required.
MailCCList	Carbon copy.	Data structure	Members include: • CC address.	Optional. (list contains up to 10 elements)
CCAddress	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional.
MailBCCList	Blind carbon copy	Data structure	Members include: • BCC address.	Optional. (list contains up to 10 elements)
BCCAddress	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional.
Subject	Subject of the mail.	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.
Body	Body of the mail.	N/A	String, case-sensitive. Length: 1 to 511 characters.	Required.

DLP/MailServerList

This table contains information about mail server list.

XML structure

```
<DLP>
  <MailServerList>
    <MailServer>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerAddress></ServerAddress>
      <UserName></UserName>
      <Password></Password>
      <Encryption></Encryption>
      <Authenticate></Authenticate>
      <Sender></Sender>
    </MailServer>
  </MailServerList>
```

```
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	MailTemplateList
Table type	Multi-instance table
Row name	MailTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Mail Server ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Mail Server Name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required.
ServerAddress	Server address	N/A	String, case-sensitive. • Length: 1 to 63 characters.	Required. Support IP address or mail domain.
UserName	UserName	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required
Password	Password	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required
Encryption	Whether to encryption	N/A	Boolean: • true—YES • false—NO(default)..	Optional.
Authenticate	Whether to authenticate	N/A	Boolean: • true—YES • false—NO(default)..	Optional.
Sender	Mail Sender	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required

DLP/SyslogTemplateList

This table contains information about syslog template list of a response action.

XML structure

```
<DLP>
  <SyslogTemplateList>
    <SyslogTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <SyslogLevel></SyslogLevel>
      <SyslogTemp></SyslogTemp>
    </SyslogTemplate>
  </SyslogTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	SyslogTemplateList
Table type	Multi-instance table
Row name	SyslogTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Syslog template name can not contain the word default as prefix when create a new template. Modification is not allowed.
SyslogLevel	Syslog level	N/A	Enumeration: • **1**—Alert. • **2**---Critical • **3**—Error. • **4**—Warning • **5**---Notice • **6**---Info(default)	Optional.
SyslogTemp	Syslog template	N/A	String, case-sensitive. Length: 1 to 511 characters.	Required

DLP/UploadFileTemplateList

This table contains information about upload file template.

XML structure

```
<DLP>
  <UploadFileTemplateList>
    <UploadFileTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerIP></ServerIP>
      <ServerType></ServerType>
      <ShareName></ShareName>
      <WorkGroup></WorkGroup>
      <StorePath></StorePath>
      <UserName></UserName>
      <Password></Password>
    </UploadFileTemplate>
  </UploadFileTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	UploadFileTemplateList
Table type	Multi-instance table
Row name	UploadFileTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Upload file template name can not contain the word default as prefix when create a new template.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Modification is not allowed.
ServerIP	Server IP	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional If select Ftp,must fill ServerIp.
ServerType	Server Type	N/A	Enumeration: • **1**—Local.(default) • **2**—Ftp	Required If select Loacl, must fill StorePath. If select Ftp,must fill UserName Password.
ShareName	Share Name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
WorkGroup	Work Group	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
StorePath	Store Path	N/A	String, case-sensitive. Length: 1 to 253 characters.	Optional
UserName	UserName	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
Password	Password	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional

DLP/IndexFileTemplateList

This table contains information about index file template.

XML structure

```
<DLP>
  <IndexFileTemplateList>
    <IndexFileTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <IndexFileName></IndexFileName>
    </IndexFileTemplate>
  </IndexFileTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IndexFileTemplateList
Table type	Multi-instance table

Row name	IndexFileTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Index file template name can not contain the word default as prefix when create a new template. Modification is not allowed.
IndexFileName	Index file name	N/A	String, case-sensitive. Length: 1 to 255 characters.	Required.

DLP/LocalIpv4RangeList

This table contains configuration information for the intranet filtering condition.

XML structure

```
<DLP>
  <LocalIpv4RangeList>
    <NameList>
      <AddrObjectName></AddrObjectName>
    </NameList>
  </LocalIpv4RangeList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	LocalIpv4RangeList
Table type	Single-instance table
Row name	None
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrObjectName	Address object group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DLP/LocalIpv6RangeList

This table contains configuration information for the intranet filtering condition.

XML structure

```
<DLP>
  <LocalIpv6RangeList>
    <NameList>
      <AddrObjectName></AddrObjectName>
    </NameList>
  </LocalIpv6RangeList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	LocalIpv6RangeList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrObjectName	Address object group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DLP/ProtocolFilterList

This table contains configuration information for the protocol filtering condition.

XML structure

```
<DLP>
  <ProtocolFiterList>
    <SelectAll></SelectAll>
    <DiselectAll></DiselectAll>
    <NameList>
      <ProtocolName></ProtocolName>
    </NameList>
  </ProtocolFiterList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ProtocolFilterList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SelectAll	Select all	N/A	Boolean: • true(default) • false	Select all by default.
DiselectAll	Diselect all	N/A	Boolean: • true • false(default)	Select all by default
ProtocolName	Protocol type name	N/A	String, case-insensitive. Length: 1 to 31 characters.	Required. The protocol name is system pre-defined. The protocol name is allowed ftp, smtp, imap, pop3, smb, nfs, http, https.

DLP/FlowDirectionList

This table contains flow direction monitoring configuration information.

XML structure

```
<DLP>
  <FlowDirectionList>
    <directswitch></directswitch>
  </FlowDirectionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	FlowDirectionList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
directswitch	The flow direction switch	N/A	• Enumeration: • 1—Inbound. • 2—Outbound (default) • 3—All.	Outbound by default.

DLP/DetectPolicyList

This table contains Data Leakage Prevention (DLP) policies.

XML structure

```
<DLP>
  <DetectPolicyList>
    <DetectPolicy>
      <PolicyID></PolicyID>
      <PolicyName></PolicyName>
      <Description></Description>
```

```
      <ScanMode></ScanMode>
      <PolicyEnable></PolicyEnable>
    </DetectPolicy>
  </DetectPolicyList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	DetectPolicyList
Table type	Multi-instance table
Row name	DetectPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	DLP policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyName	DLP policy name	N/A	String, case insensitive. Length: 1 to 31 characters.	Required.
Description	DLP policy description	N/A	String, case insensitive. Length: 1 to 127 characters.	Optional.
ScanMode	Scan mode	N/A	Enumeration: • 1—Fast scan. (Default.) • 2—Complete scan.	Optional.
PolicyEnable	Whether to enable the DLP policy	N/A	Boolean: • **true**—Enable. (Default.) • **false**—Disable.	Optional.

DLP/DetectRuleList

This table contains DLP policy detection rules.

XML structure

```
<DLP>
  <DetectRuleList>
    <DetectRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
```

```
      <RuleName></RuleName>
      <DefaultSeriousLevel></DefaultSeriousLevel>
    </DetectRule>
  </DetectRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	DetectRuleList
Table type	Multi-instance table
Row name	DetectRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
DefaultSeriousLevel	Default severity level for the rule	N/A	Enumeration: • **1**—High. • **2**—Medium. • **3**—Low. • **4**—Info. (Default.)	Optional.

DLP/IdentityRuleList

This table contains DLP policy identity rules.

XML structure

```
<DLP>
  <IdentityRuleList>
    <IdentityRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
```

```
      <DefaultSeriousLevel></DefaultSeriousLevel>
    </IdentityRule>
  </IdentityRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IdentityRuleList
Table type	Multi-instance table
Row name	IdentityRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
DefaultSeriousLevel	Default severity level for the rule	N/A	Enumeration: • **1**—High. • **2**—Medium. • **3**—Low. • **4**—Info. (Default.)	Optional.

DLP/ExceptionDetectRuleList

This table contains DLP policy exception detection rules.

XML structure

```
<DLP>
  <ExceptionDetectRuleList>
    <ExceptionDetectRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
    </ExceptionDetectRule>
```

```
  </ExceptionDetectRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ExceptionDetectRuleList
Table type	Multi-instance table
Row name	ExceptionDetectRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Exception detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Exception detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.

DLP/ExceptionIdentityRuleList

This table contains DLP policy exception identity rules.

XML structure

```
<DLP>
  <ExceptionIdentityRuleList>
    <ExceptionIdentityRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
    </ExceptionIdentityRule>
  </ExceptionIdentityRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ExceptionIdentityRuleList
Table type	Multi-instance table
Row name	ExceptionIdentityRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Identity exception rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Identity exception rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.

DLP/ResponseRuleList

This table contains response rules used by DLP policies.

XML structure

```
<DLP>
  <ResponseRuleList>
    <ResponseRule>
      <PolicyID></PolicyID>
      <RuleList>
        <RuleID></RuleID>
      </RuleList>
    </ResponseRule>
  </ResponseRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP

Item	Description
Table name	ResponseRuleList
Table type	Multi-instance table
Row name	ResponseRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleList	Response rule ID list	Data structure	Members include: • RuleID	Optional
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.

DLP/RegexConditionList

This table contains regular expression conditions for detection rules.

XML structure

```
<DLP>
  <RegexConditionList>
    <RegexCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <MatchType></MatchType>
      <MatchCount></MatchCount>
      <RegexList>
        <RegexTemplateID></RegexTemplateID>
      </RegexList>
      <MatchComponent></MatchComponent>
    </RegexCondition>
  </RegexConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	RegexConditionList
Table type	Multi-instance table
Row name	RegexCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
MatchType	Regular expression match type	N/A	Enumeration: • 1—Exist. (Default.) • 2—Count. • 3—Unique.	Required.
MatchCount	Number of hits required	N/A	Unsigned integer. Value range: 1 to 2147483647.	Required when the match type is 2 and 3.
RegexList	Name of the regular expression list	Data structure	Members include: • RegexTemplateID	Required.
RegexTemplateID	Regular expression template ID	Index	Unsigned integer. Value range: 0 to 1000.	Required.
MatchComponent	Regular expression component match type	N/A	Enumeration: • 1—Single. (Default.) • 2—All.	Optional.

DLP/KeywordConditionList

This table contains keyword conditions for detection rules.

XML structure

```
<DLP>
  <KeywordConditionList>
    <KeywordCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <CaseSensitive></CaseSensitive>
      <EnableSimpleKey></EnableSimpleKey>
      <SimpleKeyList>
        <SimpleKey></SimpleKey>
      </SimpleKeyList>
      <EnableProximityKey></EnableProximityKey>
      <WholeWord></WholeWord>
      <MatchType></MatchType>
      <MatchCount></MatchCount>
      <MatchComponent></MatchComponent>
      <ProximityKeyList>
        <Left></Left>
        <Right></Right>
        <Distance></Distance>
      </ProximityKeyList>
    </KeywordCondition>
  </KeywordConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	KeywordConditionList
Table type	Multi-instance table
Row name	KeywordCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
CaseSensitive	Whether the rule is case sensitive	N/A	Boolean: • **true**—Enable. (Default.) • **false**—Disable.	Required.
EnableSimpleKey	Whether to enable simple keyword matching	N/A	Boolean: • **true**—Enable. (Default.) • **false**—Disable	Required. EnableSimpleKey and EnableProximityKey enable at least one.
SimpleKeyList	Name of the simple keyword list	Data structure	Members include: • SimpleKeys	Required when EnableSimpleKey is true. (length limit is 10)
SimpleKey	Simple keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
EnableProximityKey	Whether to enable neighboring keyword matching	N/A	Boolean: • **true**—Enable. (Default.) • **false**—Disable.	Required.
WholeWord	Whether to match the whole word	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Optional. This column takes effect only on English keywords.
MatchType	Keyword match type	N/A	Enumeration: • **1**—Exist. • **2**—Count. • **3—**Unique	Optional.
MatchCount	Number of hits required.	N/A	Unsigned integer. Value range: 1 to 2147483647.	Required when the match type is 2 and 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchComponent	Keyword component match type.	N/A	Enumeration: • **1**—Single. (Default.) • **2**—All.	Optional.
ProximityKeyList	Name of the neighboring keyword list	Data structure	Members include: • Left. • Right. Distances.	Required when EnableProximityKey is true.
Left	Left keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
Right	Right keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
Distance	Distance of the neighboring keywords	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required.

DLP/IndexFileConditionList

This table contains Indexed document matching (IDM) conditions for detection rules.

XML structure

```
<DLP>
  <IndexFileConditionList>
    <IndexFileCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <IndexTemplateID></IndexTemplateID>
      <Threshold></Threshold>
      <MatchType></MatchType>
    </IndexFileCondition>
  </IndexFileConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IndexFileConditionList
Table type	Multi-instance table
Row name	IndexFileCondition

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
IndexTemplateID	IDM template ID	N/A	Unsigned integer. Value range: 0 to 100.	Required.
Threshold	Ratio threshold	N/A	Unsigned integer. Value range: 0 to 100.	Optional.
MatchType	Match type	N/A	Enumeration: • 1—Exist. (Default.) • 2—Count.	Optional.

DLP/FileAttriConditonList

This table contains file attribution conditions for detection rules.

XML structure

```
<DLP>
  <FileAttriConditionList>
    <FileAttriCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <ConditionType></ConditionType>
      <FileTypeList>
```

```
      <FileTypeID></FileTypeID>
    </FileTypeList>
    <FileNameList>
      <FileName></FileName>
    </FileNameList>
    <FileSizeList>
      <Type></Type>
      <MinSize></MinSize>
      <MinSizeUnit></MinSizeUnit>
      <MaxSize></MaxSize>
      <MaxSizeUnit></MaxSizeUnit>
    </FileSizeList>
  </FileAttriCondition>
 </FileAttriConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	FileAttriConditionList
Table type	Multi-instance table
Row name	FileAttriCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
ConditionType	File attribute condition type	N/A	String, case sensitive • FILENAME.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• FILESIZE. • FILETYPE.	
FileTypeList	File type list name	Data structure	Members include: • FileTypeID.	Required when ConditionType is FILETYPE.
FileTypeID	File type ID	N/A	Unsigned integer. Value range: 0 to 1515.	Required.
FileNameList	Name of the file name list	Data structure	Members include: • FileName.	Required when ConditionType is FILENAME.
FileName	File name.	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
FileSizeList	Name of the file size list	Data structure	Members include: • Type. • MinSize • MinSizeUnit • MaxSize • MaxSizeUnit	Required when ConditionType is FILESIZE.
Type	File attribute match type	N/A	Enumeration: • 1—Size of a single file.	Required.
MinSize	Minimum file size	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required when type is 1.
MinSizeUnit	Unit for the minimum file size column	N/A	String, case sensitive. • B • KB • MB • GB	Required when type is 1.
MaxSize	Maximum file size	N/A	Unsigned integer. Value range: 0 to 2147483647	Required when type is 1.
MaxSizeUnit	Unit for the maximum file size column	N/A	String, case sensitive. • B. • KB. • MB. • GB	Required when type is 1.

DLP/SenderConditionList

This table contains sender conditions for identity rules.

XML structure

```
<DLP>
  <SenderConditionList>
    <SenderCondition>
      <RuleID></RuleID>
```

```
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <EmailList>
        <Email></Email>
      </EmailList>
      <IPType></IPType>
      <IPList>
        <IP></IP>
      </IPList>
      <IPGroupList>
         <ObjectName></ObjectName>
      </IPGroupList>
      <UserList>
        <User></User>
      </UserList>
      <GroupList>
        <GroupName></GroupName>
        <DomainName></DomainName>
      </GroupList>
    </SenderCondition>
  </SenderConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	SenderConditionList
Table type	Multi-instance table
Row name	SenderCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Identity rule • 2—Identity exception rule	Required.
ConditionID	Sender condition	Index	Unsigned integer.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
	ID		Value range: 0 to 10000.	
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
EmailList	Email list name.	Data structure	Members include: • Email	Optional. You must configure one of the following items: EmailList, IPList.
Email	Email address.	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
IPType	IP type of the IPList.	N/A	Enumeration: • 1—IPv4 • 2—IPv6	Required when you configure an IP address or address object group.
IPList	IPv4 or IPv6 list.	Data structure	Members include: • IP	Optional.
IP	IPv4 or IPv6 address	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPGroupList	IPv4 or IPv6 address object group list	Data structure	Members include: • ObjectName	Optional.
ObjectName	IPv4 or IPv6 address object group name	N/A	String, case sensitive. Length: 1 to 31characters.	Required.
UserList	User list	Data structure	Members include: • User	Optional.
User	User name	N/A	String, case sensitive. Length: 1 to 55 characters.	Required.
GroupList	User group list	Data structure	Members include: • GroupName • DomainName	Optional.
GroupName	User group name	N/A	String, case sensitive. Length: 1 to 32 characters.	Required.
DomainName	User group domain name	N/A	String, case sensitive. Length: 1 to 255 characters.	Optional.

DLP/ReceiverConditionList

This table contains receiver conditions for identity rules.

XML structure

```
<DLP>
  <ReceiverConditionList>
    <ReceiverCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <EmailList>
        <Email></Email>
      </EmailList>
      <HostList>
        <Host></Host>
      </HostList>
      <IPType></IPType>
      <IPList>
        <IP></IP>
      </IPList>
      <IPGroupList>
        <ObjectName></ObjectName>
      </IPGroupList>
      <UserList>
        <User></User>
      </UserList>
      <ReceiverType></ReceiverType>
      <ReceiverCount></ReceiverCount>
      <GroupList>
        <GroupName></GroupName>
        <DomainName></DomainName>
      </GroupList>
    </ReceiverCondition>
  </ReceiverConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ReceiverConditionList
Table type	Multi-instance table

Item	Description
Row name	ReceiverCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Identity rule • 2—Identity exception rule	Required.
ConditionID	Sender condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
EmailList	Email list name.	Data structure	Members include: • Email.	Optional.
Email	Email address.	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
HostList	Host list name	Data structure	Members include: • Host.	You must configure one of the following items: EmailList, IPList, and HostList.
Host	Host name.	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPType	IP type of the IPList.	N/A	Enumeration: • 1—IPv4 • 2—IPv6	Required when you configure an IP address or address object group.
IPList	IPv4 or IPv6 list.	Data structure	Members include: • IP	Optional.
IP	IPv4 or IPv6 address	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPGroupList	IPv4 or IPv6 address object group list	Data structure	Members include: • ObjectName	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjectName	IPv4 or IPv6 address object group name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
UserList	User list.	Data structure	Members include: • User	Optional.
User	User name.	N/A	String, case sensitive. Length: 1 to 55 characters.	Required.
ReceiverType	Receiver type	N/A	Enumeration: • **1**—All. (Default.) • **2—Count.**	Applied only to Email addresses.
ReceiverCount	Number of hits required	N/A	Unsigned integer. Value range: 1 to 2147483647.	Required when ReceiverType is 2.
GroupList	User group list.	Data structure	Members include: • **GroupName** **DomainName**	Optional.
GroupName	User group name	N/A	String, case sensitive. Length: 1 to 32 characters.	Required.
DomainName	User group domain name	N/A	String, case sensitive. Length: 1 to 255 characters.	Optional.

DLP/ProtocolConditionList

This table contains protocol conditions for detection rules.

XML structure

```
<DLP>
  <ProtocolConditionList>
    <ProtocolCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <ProtocolList>
        <ProtocolType></ProtocolType>
      </ProtocolList>
    </ProtocolCondition>
  </ProtocolConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ProtocolConditionList
Table type	Multi-instance table
Row name	ProtocolCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
ProtocolList	Protocol type list	Data structure	Members include: • ProtocolType	Required.
ProtocolType	Protocol type.	N/A	• Enumeration: • 1—FTP. • 2—SMTP. • **3—**SMB**.** • 4**—**NFS. • 5**—**POP3. • 6**—**IMAP. • 7**—**HTTP. • 8—HTTPS/SSL.	Required.

DLP/ResponseRuleTempList

This table contains DLP policy response rules.

XML structure

```
<DLP>
  <ResponseRuleTempList>
    <ResponseRuleTemp>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <Description></Description>
    </ResponseRuleTemp>
  </ResponseRuleTempList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseRuleTempList
Table type	Multi-instance table
Row name	ResponseRuleTemp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required
Description	Response rule description	N/A	String, case sensitive. Length: 0 to 127 characters.	Optional

DLP/ResponseConditionList

This table contains response conditions for response rules.

XML structure

```
<DLP>
  <ResponseConditionList>
    <ResponseCondition>
      <RuleID></RuleID>
      <RuleName></RuleName>
```

```
      <ConditionID></ConditionID>
      <ConditionType></ConditionType>
      <Operator></Operator>
      <ValueList>
        <Value></Value>
      </ValueList>
    </ResponseCondition>
  </ResponseConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseConditionList
Table type	Multi-instance table
Row name	ResponseCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required
ConditionID	Condition ID.	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ConditionType	Condition type	N/A	Enumeration: • 1—Severity. • 2—Protocol. • 3—Hits.	Required. Select a condition type based on file attributes.
Operator	Operator	N/A	Enumeration: • 1—In. • 2—Not in. • 3—Greater than or Equal to. • 4—Less than or Equal to. • 5—Between.	Required If ConditionType is 1 or 2, select 1 or 2 . If ConditionType is 3, select 3, 4, or 5.
ValueList	Value list name	Data structure	Members include: • Value.	Required.
Value	Value	N/A	Unsigned integer.	Required

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2147483647.	if ConditionType is 1, select 1, 2, 3, or 4, which means High, Medium, Low or Info, respectively. If ConditionType is 2, select one from 1 to 8, which means FTP, SMTP, SMB, NFS, POP3, IMAP, HTTP, or HTTPS, respectively. If ConditionType is 3 and Operator is 3 (Greater) or 4 (Less), one value is required. If ConditionType is 3 and Operator is 5 (Between), two values are required.

DLP/ResponseActionList

This table contains response action lists for response rules.

XML structure

```
<DLP>
  <ResponseActionList>
    <ResponseAction>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ActionID></ActionID>
      <ActionType></ActionType>
      <TemplateID></TemplateID>
      <Content></Content>
    </ResponseAction>
  </ResponseActionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseActionList
Table type	Multi-instance table
Row name	ResponseAction
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required
ActionID	Action ID.	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ActionType	Action type.	N/A	Enumeration: • 1—Uploads the file. • 2—Adds a comment. • 3—Sends a log message. • 4—Sends an email.	Required.
TemplateID	Specifies the template ID referenced by the response action type.	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required.
Content	**Specifies the content information for the response action type.**	N/A	String, case insensitive. Length: 1 to 127 characters.	Required.

Contents

DLP 3

DLP/AllocIDList 3
XML structure 3
Table description 3
Columns 3
DLP/RegexTemplateList 4
XML structure 4
Table description 4
Columns 4
DLP/MailTemplateList 5
XML structure 5
Table description 5
Columns 6
DLP/MailServerList 6
XML structure 6
Table description 7
Columns 7
DLP/SyslogTemplateList 8
XML structure 8
Table description 8
Columns 8
DLP/UploadFileTemplateList 9
XML structure 9
Table description 9
Columns 10
DLP/IndexFileTemplateList 10
XML structure 10
Table description 11
Columns 11
DLP/LocalIpv4RangeList 11
XML structure 11
Table description 12
Columns 12
DLP/LocalIpv6RangeList 12
XML structure 12
Table description 12
Columns 13
DLP/ProtocolFilterList 13
XML structure 13
Table description 13
Columns 13
DLP/FlowDirectionList 14
XML structure 14
Table description 14
Columns 14
DLP/FileTypeMapList 14
XML structure 14
Table description 15
Columns 15
DLP/SpecificationsList 15
XML structure 15
Table description 15
Columns 16
DLP/DetectPolicyList 16
XML structure 16
Table description 17
Columns 17

DLP/DetectRuleList 17
XML structure 17
Table description 18
Columns 18
DLP/IdentityRuleList 19
XML structure 19
Table description 19
Columns 19
DLP/ExceptionDetectRuleList 20
XML structure 20
Table description 20
Columns 20
DLP/ExceptionIdentityRuleList 21
XML structure 21
Table description 21
Columns 22
DLP/ResponseRuleList 22
XML structure 22
Table description 22
Columns 23
DLP/RegexConditionList 23
XML structure 23
Table description 23
Columns 24
DLP/KeywordConditionList 24
XML structure 24
Table description 25
Columns 25
DLP/IndexFileConditionList 27
XML structure 27
Table description 27
Columns 27
DLP/FileAttriConditonList 28
XML structure 28
Table description 29
Columns 29
DLP/SenderConditionList 30
XML structure 30
Table description 31
Columns 31
DLP/ReceiverConditionList 32
XML structure 32
Table description 33
Columns 33
DLP/ProtocolConditionList 35
XML structure 35
Table description 35
Columns 35
DLP/ResponseRuleTempList 36
XML structure 36
Table description 37
Columns 37
DLP/ResponseConditionList 38
XML structure 38
Table description 38
Columns 38
DLP/ResponseActionList 39
XML structure 39
Table description 40
Columns 40

DLP

DLP/AllocIDList

This table contains information about allocing local id range

XML structure

```
<DLP>
  <AllocIDList>
    <AllocID>
      <Type></Type>
      <ID></ID>
    </AllocID>
  </AllocIDList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	AllocIDList
Table type	Multi-instance table
Row name	AllocID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	The Type of ID	Index	Enumeration • 0—Policy ID. • 1—Rule ID. • 2—Condition ID or Action ID • 3—Regex ID • 4—MailTemplate ID • 5---MailServer ID • 6---Syslog ID • 7---FileTypeTemplate ID • 8---UploadFileTemplate ID • 9---IndexFileTemplate ID	Required. 0、1、2、7、10 is reserved. According to Type,we can get ID of different table index.

			• 10---EventState ID	
ID	Alloc ID	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required

DLP/RegexTemplateList

This table contains information about regex template list of a regex condition.

XML structure

```
<DLP>
  <RegexTemplateList>
    <RegexTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <Regex></Regex>
      <TotalNum></TotalNum>
    </RegexTemplate>
  </RegexTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	RegexTemplateList
Table type	Multi-instance table
Row name	RegexTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID.	Index	Unsigned integer. Value range: 1 to 1000.	Required. Because of size limit,value in range :1 to 1000 is permitted
ResourceName	Resource name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional. Regex template name can not contain the word default as prefix when create a new template. Modification is not allowed.

Regex	Regex expression	N/A	String, case-sensitive. Length: 1 to 127 characters.	Optional.
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/MailTemplateList

This table contains information about mail template list of a response action.

XML structure

```
<DLP>
  <MailTemplateList>
    <MailTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerID></ServerID>
      <MailToList>
        <Address></Address>
      </MailToList>
      <MailCCList>
        <CCAddress></CCAddress>
      </MailCCList>
      <MailBCCList>
        <BCCAddress></BCCAddress>
      </MailBCCList>
      <Subject></Subject>
      <Body></Body>
      <TotalNum></TotalNum>
    </MailTemplate>
  </MailTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	MailTemplateList
Table type	Multi-instance table
Row name	MailTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Mail template ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Send Mail name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required. Mail template name can not contain the word default as prefix when create a new template. Modification is not allowed.
ServerID	Mail Server ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
MailToList	Where do the mail send to.	Data structure	Members include: • Address.	Required.(list contains up to 10 elements
Address	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required.
MailCCList	Carbon copy.	Data structure	Members include: • CC address.	Optional. (list contains up to 10 elements)
CCAddress	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional.
MailBCCList	Blind carbon copy	Data structure	Members include: • BCC address.	Optional. (list contains up to 10 elements)
BCCAddress	Address list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional.
Subject	Subject of the mail.	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.
Body	Body of the mail.	N/A	String, case-sensitive. Length: 1 to 512 characters.	Optional.
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/MailServerList

This table contains information about mail server list.

XML structure

```
<DLP>
  <MailServerList>
```

```
    <MailServer>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerAddress></ServerAddress>
      <UserName></UserName>
      <Password></Password>
      <Encryption></Encryption>
      <Authenticate></Authenticate>
      <Sender></Sender>
      <TotalNum></TotalNum>
    </MailServer>
  </MailServerList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	MailTemplateList
Table type	Multi-instance table
Row name	MailTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Mail Server ID.	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Mail Server Name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required.
ServerAddress	Server address	N/A	String, case-sensitive. • Length: 1 to 63 characters.	Required. Support IP address or mail domain.
UserName	UserName	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required
Password	Password	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required
Encryption	Whether to encryption	N/A	Boolean: • true—YES • false—NO	Optional.
Authenticate	Whether to	N/A	Boolean:	Optional.

	authenticate		• true—YES • false—NO	
Sender	Mail Sender	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/SyslogTemplateList

This table contains information about syslog template list of a response action.

XML structure

```
<DLP>
  <SyslogTemplateList>
    <SyslogTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <SyslogLevel></SyslogLevel>
      <SyslogTemp></SyslogTemp>
      <TotalNum></TotalNum>
    </SyslogTemplate>
  </SyslogTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	SyslogTemplateList
Table type	Multi-instance table
Row name	SyslogTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Syslog template ID.	index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Syslog	N/A	String, case-sensitive.	Required.

	template name.		Length: 1 to 63 characters.	Syslog template name can not contain the word default as prefix when create a new template. Modification is not allowed.
SyslogLevel	Syslog level	N/A	Enumeration: • **1**—Alert. • **2**---Critical • **3**—Error. • **4**—Warning • **5**---Notice • **6**---Info	Optional.
SyslogTemp	Syslog template	N/A	String, case-sensitive. Length: 1 to 511 characters.	Required.
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/UploadFileTemplateList

This table contains information about upload file template.

XML structure

```
<DLP>
  <UploadFileTemplateList>
    <UploadFileTemplate>
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <ServerIP></ServerIP>
      <ServerType></ServerType>
      <ShareName></ShareName>
      <WorkGroup></WorkGroup>
      <StorePath></StorePath>
      <UserName></UserName>
      <Password></Password>
      <TotalNum></TotalNum>
    </UploadFileTemplate>
  </UploadFileTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	UploadFileTemplateList
Table type	Multi-instance table

Row name	UploadFileTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	Resource ID	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Resource Name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Required.
ServerIP	Server IP	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
ServerType	Server Type	N/A	Enumeration: • **1**—Local.(default) • **2**—Ftp	Required If select Loacl, must fill StorePath. If select Ftp,must fill StorePath UserName Password.
ShareName	Share Name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
WorkGroup	Work Group	N/A	String, case-sensitive. Length: 1 to 253 characters.	Optional
StorePath	Store Path	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
UserName	UserName	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
Password	Password	N/A	String, case-sensitive. Length: 1 to 63 characters.	Optional
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/IndexFileTemplateList

This table contains information about index file template.

XML structure

```
<DLP>
  <IndexFileTemplateList>
    <IndexFileTemplate>
```

```
      <ResourceID></ResourceID>
      <ResourceName></ResourceName>
      <IndexFileName></IndexFileName>
      <TotalNum></TotalNum>
    </IndexFileTemplate>
  </IndexFileTemplateList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IndexFileTemplateList
Table type	Multi-instance table
Row name	IndexFileTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResourceID	File index template ID	Index	Unsigned integer. Value range: 1 to 100.	Required. Because of size limit,value in range :1 to 100 is permitted
ResourceName	Index file full name	N/A	String, case-sensitive. Length: 1 to 127 characters.	Required.
IndexFileName	Index file name	N/A	String, case-sensitive. Length: 1 to 255 characters.	Required.
TotalNum	Total Number of datas	N/A	Unsigned integer. Value range: 1 to 2147481647	Optional

DLP/LocalIpv4RangeList

This table contains configuration information for the intranet filtering condition.

XML structure

```
<DLP>
  <LocalIpv4RangeList>
    <NameList>
      <AddrObjectName></AddrObjectName>
    </NameList>
```

```
  </LocalIpv4RangeList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	LocalIpv4RangeList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrObjectName	Address object group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DLP/LocalIpv6RangeList

This table contains configuration information for the intranet filtering condition.

XML structure

```
<DLP>
  <LocalIpv6RangeList>
    <NameList>
      <AddrObjectName></AddrObjectName>
    </NameList>
  </LocalIpv6RangeList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	LocalIpv6RangeList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrObjectName	Address object group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

DLP/ProtocolFilterList

This table contains configuration information for the protocol filtering condition.

XML structure

```
<DLP>
  <ProtocolFiterList>
    <SelectAll></SelectAll>
    <DiselectAll></DiselectAll>
    <NameList>
      <ProtocolName></ProtocolName>
    </NameList>
  </ProtocolFiterList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ProtocolFilterList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SelectAll	Select all	N/A	Boolean: • true • false	N/A
DiselectAll	Diselect all	N/A	Boolean: • true • false	N/A
ProtocolName	Protocol type	N/A	String, case-insensitive.	Required.

	name		Length: 1 to 31 characters.	The protocol name is system pre-defined. The protocol name is allowed ftp, smtp, imap, pop3, smb, nfs, http, https.

DLP/FlowDirectionList

This table contains monitor flow direction configuration information.

XML structure

```
<DLP>
  <FlowDirectionList>
    <directswitch></directswitch>
  </FlowDirectionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	FlowDirectionList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
directswitch	The flow direction switch	N/A	• Enumeration: • 1—Inbound. • 2—Outbound • 3—All.	N/A

DLP/FileTypeMapList

This table contains mappings between file type IDs and file type names.

XML structure

```
<DLP>
  <FileTypeMapList>
```

```
    <FileTypeMap>
      <FileTypeID></FileTypeID>
      <FileTypeName></FileTypeName>
    </FileTypeMap>
  </FileTypeMapList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	FileTypeMapList
Table type	Multi-instance table
Row name	FileTypeMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileTypeID	File type ID	Index	Unsigned integer. Value range: 0 to 1515.
FileTypeNam e	File type name	N/A	String, case sensitive. Length: 1 to 31 characters.

DLP/SpecificationsList

This table contains information about DLP policy specifications.

XML structure

```
<DLP>
  <SpecificationsList>
    <Specifications>
      <SpecType></SpecType>
      <MaxNumber></MaxNumber>
    </Specifications>
  </SpecificationsList>
</DLP>
```

Table description

Item	Description
Feature name	DLP

Item	Description
Table name	SpecificationsList
Table type	Multi-instance table
Row name	Specifications
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpecType	Specifications Type	Index	Enumeration: • 1—Policy. • 2—ResponseRuleTemp. • 3—DetectRule. • 4—ExceptDetectRule • 5—IdetityRule. • 6—ExceptIdetityRule. • 7—ResponseRuleQuote • 8—Condition	Required.
MaxNumber	The max number of the specifications	N/A	Unsigned integer. Value range: 0 to 30.	Required

DLP/DetectPolicyList

This table contains DLP policies.

XML structure

```
<DLP>
  <DetectPolicyList>
    <DetectPolicy>
      <PolicyID></PolicyID>
      <PolicyName></PolicyName>
      <Description></Description>
      <ScanMode></ScanMode>
      <PolicyEnable></PolicyEnable>
      <AllPolicyCount></AllPolicyCount>
    </DetectPolicy>
  </DetectPolicyList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	DetectPolicyList
Table type	Multi-instance table
Row name	DetectPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	DLP policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyName	DLP policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	Required.
Description	DLP policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional.
ScanMode	Scan mode	N/A	Enumeration • 1—Fast scan. • 2—Complete scan.	Optional.
PolicyEnable	Whether to enable the DLP policy	N/A	Boolean: • **true**—Enable • **false**—Disable	Optional.
AllPolicyCount	Number of policies.	N/A	Unsigned integer. Value range: 0 to 20.	Optional.

DLP/DetectRuleList

This table contains DLP policy detection rules.

XML structure

```
<DLP>
  <DetectRuleList>
    <DetectRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
```

```
      <DefaultSeriousLevel></DefaultSeriousLevel>
      <ConditionTypeList>
        <ConditionType></ConditionType>
      </ConditionTypeList>
    </DetectRule>
  </DetectRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	DetectRuleList
Table type	Multi-instance table
Row name	DetectRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
DefaultSeriousLevel	Default severity level for the rule	N/A	Enumeration: • **1**—High. • **2**—Medium. • **3**—Low. • **4**—Info	Optional.
ConditionTypeList	Codition type list	Data structure	Members include: • **ConditionType.**	Optional.
ConditionType	Condition type	N/A	Enumeration: • **1**—Regex. • **2**—Key Word. • **3**—Index File. • **4**—File name • **5**—File size • **6**—File type • **7**—Protocol	Required.

DLP/IdentityRuleList

This table contains DLP policy identity rules.

XML structure

```
<DLP>
  <IdentityRuleList>
    <IdentityRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ConditionTypeList>
        <ConditionType></ConditionType>
      </ConditionTypeList >
      <DefaultSeriousLevel></DefaultSeriousLevel>
    </IdentityRule>
  </IdentityRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IdentityRuleList
Table type	Multi-instance table
Row name	IdentityRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
DefaultSeriousLevel	Default severity level for the rule	N/A	Enumeration: • **1**—High. • **2**—Medium. • **3**—Low. • **4**—Info	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
ConditionTypeList	Codition type list	Data structure	Members include: • **ConditionType.**	Optional.
ConditionType	Condition type	N/A	Enumeration: • **1**—Sender. • **2**—Receiver.	Required.

DLP/ExceptionDetectRuleList

This table contains DLP policy exception detection rules.

XML structure

```
<DLP>
  <ExceptionDetectRuleList>
    <ExceptionDetectRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ConditionTypeList>
        <ConditionType></ConditionType>
      </ConditionTypeList >
    </ExceptionDetectRule>
  </ExceptionDetectRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ExceptionDetectRuleList
Table type	Multi-instance table
Row name	ExceptionDetectRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Exception detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Exception detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
ConditionTypeList	Codition type list	Data structure	Members include: • **ConditionType.**	Optional.
ConditionType	Condition type	N/A	Enumeration: • **1**—Regex. • **2**—Key Word. • **3**—Index File. • **4**—File name • **5**—File size • **6**—File type • **7**—Protocol	Required.

DLP/ExceptionIdentityRuleList

This table contains DLP policy exception identity rules.

XML structure

```
<DLP>
  <ExceptionIdentityRuleList>
    <ExceptionIdentityRule>
      <PolicyID></PolicyID>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ConditionTypeList>
        <ConditionType></ConditionType>
      </ConditionTypeList >
    </ExceptionIdentityRule>
  </ExceptionIdentityRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ExceptionIdentityRuleList
Table type	Multi-instance table
Row name	ExceptionIdentityRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleID	Identity exception rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Identity exception rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
ConditionTypeList	Codition type list	Data structure	Members include: • **ConditionType.**	Optional
ConditionType	Condition type	N/A	Enumeration: • **1**—Sender. • **2**—Receiver.	Required.

DLP/ResponseRuleList

This table contains response rules used by DLP policies.

XML structure

```
<DLP>
  <ResponseRuleList>
    <ResponseRule>
      <PolicyID></PolicyID>
      <RuleList>
        <RuleID></RuleID>
        <RuleName></RuleName>
       </RuleList>
    </ResponseRule>
  </ResponseRuleList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseRuleList
Table type	Multi-instance table
Row name	ResponseRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleList	Response rule ID list	Data structure	Members include: • RuleID • RuleName	Optional.
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.

DLP/RegexConditionList

This table contains regular expression conditions for detection rules.

XML structure

```
<DLP>
  <RegexConditionList>
    <RegexCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <MatchType></MatchType>
      <MatchCount></MatchCount>
      <RegexList>
        <RegexTemplateID></RegexTemplateID>
      </RegexList>
      <MatchComponent></MatchComponent>
    </RegexCondition>
  </RegexConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	RegexConditionList
Table type	Multi-instance table

Item	Description
Row name	RegexCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detect Rule • 2—Except Detect Rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
MatchType	Regular expression match type	N/A	Enumeration: • 1—Exist. • 2—Count. • 3—Unique.	Required.
MatchCount	Number of hits required	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required when the match type is 2.
RegexList	Name of the regular expression list	Data structure	Members include: • RegexTemplateID.	Optional.
RegexTemplateID	Regular expression template ID	Index	Unsigned integer. Value range: 0 to 1000.	Required.
MatchComponent	Regular expression component match type	N/A	Enumeration: • 1—Single. • 2—All.	Optional.

DLP/KeywordConditionList

This table contains keyword conditions for detection rules.

XML structure

```
<DLP>
```

```
  <KeywordConditionList>
    <KeywordCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <CaseSensitive></CaseSensitive>
      <EnableSimpleKey></EnableSimpleKey>
      <SimpleKeyList>
        <SimpleKey></SimpleKey>
      </SimpleKeyList>
      <EnableProximityKey></EnableProximityKey>
      <WholeWord></WholeWord>
      <MatchType></MatchType>
      <MatchCount></MatchCount>
      <MatchComponent></MatchComponent>
      <ProximityKeyList>
        <Left></Left>
        <Right></Right>
        <Distance></Distance>
      </ProximityKeyList>
    </KeywordCondition>
  </KeywordConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	KeywordConditionList
Table type	Multi-instance table
Row name	KeywordCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular	Index	Unsigned integer.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
	expression condition ID		Value range: 0 to 10000.	
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
CaseSensitive	Whether the rule is case sensitive	N/A	Boolean: • **true**—Enable. • **false—Disable.**	Required.
EnableSimpleKey	Whether to enable simple keyword matching	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Required.
SimpleKeyList	Name of the simple keyword list	Data structure	Members include: • **SimpleKey.**	Optional. (length limit is 10)
SimpleKey	Simple keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
EnableProximityKey	Whether to enable neighboring keyword matching	N/A	Boolean: • **true**—Enable. • **false**—Disable	Required.
WholeWord	Whether to match the whole word	N/A	Boolean: • **true**—Enable. • **false—Disable.**	Optional. This column takes effect only on English keywords.
MatchType	Keyword match type	N/A	Enumeration: • **1**—Exist. • **2**—Count. • **3—Unique.**	Optional.
MatchCount	Number of hits required.	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required when the match type is 2.
MatchComponent	Keyword component match type.	N/A	Enumeration: • **1**—Single. • **2—All.**	Optional.
ProximityKeyList	Name of the neighboring keyword list	Data structure	Members include: • Left. • Right. • Distances.	Optional.
Left	Left keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
Right	Right keyword	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
Distance	Distance of the neighboring keywords	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required.

DLP/IndexFileConditionList

This table contains Indexed document matching (IDM) conditions for detection rules.

XML structure

```
<DLP>
  <IndexFileConditionList>
    <IndexFileCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <IndexTemplateID></IndexTemplateID>
      <Threshold></Threshold>
      <MatchType></MatchType>
    </IndexFileCondition>
  </IndexFileConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	IndexFileConditionList
Table type	Multi-instance table
Row name	IndexFileCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration:	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Detection rule • 2—Detection exception rule	
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
IndexTemplateID	IDM template ID	N/A	Unsigned integer. Value range: 0 to 100.	Required.
Threshold	Ratio threshold	N/A	Unsigned integer. Value range: 0 to 100.	Optional.
MatchType	Match type	N/A	Enumeration: • 1—Exist. • 2—Matched.	Optional.

DLP/FileAttriConditonList

This table contains file attribution conditions for detection rules.

XML structure

```
<DLP>
  <FileAttriConditionList>
    <FileAttriCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <ConditionType></ConditionType>
      <FileTypeList>
        <FileTypeID></FileTypeID>
      </FileTypeList>
      <FileNameList>
        <FileName></FileName>
      </FileNameList>
      <FileSizeList>
        <Type></Type>
        <MinSize></MinSize>
        <MinSizeUnit></MinSizeUnit>
        <MaxSize></MaxSize>
        <MaxSizeUnit></MaxSizeUnit>
```

```
      </FileSizeList>
    </FileAttriCondition>
  </FileAttriConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	FileAttriConditionList
Table type	Multi-instance table
Row name	FileAttriCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
ConditionType	File attribute condition type	N/A	String, case sensitive • FILENAME • FILESIZE • FILETYPE	Required.
FileTypeList	File type list name	Data structure	Members include: • FileTypeID.	Optional.
FileTypeID	File type ID	N/A	Unsigned integer. Value range: 0 to 1515.	Required.
FileNameList	Name of the file name list	Data structure	Members include: • FileName.	Optional.
FileName	File name.	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
FileSizeList	Name of the file	Data	Members include:	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
	size list	structure	• Type. • MinSize • MinSizeUnit • MaxSize • MaxSizeUnit	
Type	File attribute match type	N/A	Enumeration: • 1—Size of a single file.	Optional.
MinSize	Minimum file size	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required when type is 1.
MinSizeUnit	Unit for the minimum file size column	N/A	String, case sensitive. • B. • KB. • MB. • GB.	Required when type is 1.
MaxSize	Maximum file size	N/A	Unsigned integer. Value range: 0 to 2147483647	Required when type is 1.
MaxSizeUnit	Unit for the maximum file size column	N/A	String, case sensitive. • B. • KB. • MB. • GB.	Required when type is 1.

DLP/SenderConditionList

This table contains sender conditions for identity rules.

XML structure

```
<DLP>
  <SenderConditionList>
    <SenderCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <EmailList>
        <Email></Email>
      </EmailList>
      <IPType></IPType>
      <IPList>
        <IP></IP>
      </IPList>
      <IPGroupList>
         <ObjectName></ObjectName>
```

```
      </IPGroupList>
      <UserList>
        <User></User>
      </UserList>
      <GroupList>
        <GroupName></GroupName>
        <DomainName></DomainName>
      </GroupList>
    </SenderCondition>
  </SenderConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	SenderConditionList
Table type	Multi-instance table
Row name	SenderCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Identity rule • 2—Identity exception rule	Required.
ConditionID	Sender condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
EmailList	Email list name.	Data structure	Members include: • Email.	Optional.
Email	Email address.	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
IPType	IP type of the IPList.	N/A	Enumeration: • 1—IPv4	Required when you configure an IP address or address object

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—IPv6	group.
IPList	IPv4 or IPv6 list.	Data structure	Members include: • IP	Optional.
IP	IPv4 or IPv6 address	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPGroupList	IPv4 or IPv6 address object group list	Data structure	Members include: • ObjectName	Optional.
ObjectName	IPv4 or IPv6 address object group name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
UserList	User list	Data structure	Members include: • User	Optional.
User	User name	N/A	String, case sensitive. Length: 1 to 55 characters.	Required.
GroupList	User group list	Data structure	Members include: • ObjectName • DomainName	Optional. GroupName and DomainName must be configured at the same time.
GroupName	User group name	N/A	String, case sensitive. Length: 1 to 32 characters.	Required.
DomainName	User group domain name	N/A	String, case sensitive. Length: 1 to 255 characters.	Optional.

DLP/ReceiverConditionList

This table contains receiver conditions for identity rules.

XML structure

```
<DLP>
  <ReceiverConditionList>
    <ReceiverCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <EmailList>
```

```
      <Email></Email>
    </EmailList>
    <HostList>
      <Host></Host>
    </HostList>
    <IPType></IPType>
    <IPList>
      <IP></IP>
    </IPList>
    <IPGroupList>
      <ObjectName></ObjectName>
    </IPGroupList>
    <UserList>
      <User></User>
    </UserList>
    <ReceiverType></ReceiverType>
    <ReceiverCount></ReceiverCount>
    <GroupList>
      <GroupName></GroupName>
      <DomainName></DomainName>
    </GroupList>
  </ReceiverCondition>
</ReceiverConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ReceiverConditionList
Table type	Multi-instance table
Row name	ReceiverCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Identity rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleType	Rule type	Index	Enumeration: • 1—Identity rule • 2—Identity exception rule	Required.
ConditionID	Sender condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Identity rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
EmailList	Email list name.	Data structure	Members include: • Email.	Optional.
Email	Email address.	N/A	String, case sensitive. Length: 1 to 63 characters.	Required.
HostList	Host list name	Data structure	Members include: • Host.	You must configure one of the following items: EmailList, IPList, and HostList.
Host	Host name.	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPType	IP type of the IPList.	N/A	Enumeration: • 1—IPv4 • 2—IPv6	Required. Required when you configure an IP address or address object group.
IPList	IPv4 or IPv6 list.	Data structure	Members include: • IP	Optional.
IP	IPv4 or IPv6 address	N/A	String, case sensitive. Length: 1 to 127 characters.	Required.
IPGroupList	IPv4 or IPv6 address object group list	Data structure	Members include: • ObjectName	Optional.
ObjectName	IPv4 or IPv6 address object group name	N/A	String, case sensitive. Length: 1 to 31characters.	Required.
UserList	User list.	Data structure	Members include: • User	Optional.
User	User name.	N/A	String, case sensitive. Length: 1 to 55 characters.	Required.
ReceiverType	Receiver type	N/A	Enumeration: • **1**—All. • **2—Count.**	Applied only to Email addresses.
ReceiverCount	Number of hits required	N/A	Unsigned integer. Value range: 0 to 2147483647.	Optional.
GroupList	User group list.	Data structure	Members include: • ObjectName	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
			DomainName	
GroupName	User group name	N/A	String, case sensitive. Length: 1 to 32 characters.	Required.
DomainName	User group domain name	N/A	String, case-sensitive. Length: 1 to 255 characters.	Optional.

DLP/ProtocolConditionList

This table contains protocol conditions for detection rules.

XML structure

```
<DLP>
  <ProtocolConditionList>
    <ProtocolCondition>
      <RuleID></RuleID>
      <RuleType></RuleType>
      <ConditionID></ConditionID>
      <PolicyID></PolicyID>
      <RuleName></RuleName>
      <ProtocolList>
        <ProtocolType></ProtocolType>
      </ProtocolList>
    </ProtocolCondition>
  </ProtocolConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ProtocolConditionList
Table type	Multi-instance table
Row name	ProtocolCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Detection rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleType	Rule type	Index	Enumeration: • 1—Detection rule • 2—Detection exception rule	Required.
ConditionID	Regular expression condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
PolicyID	Policy ID	N/A	Unsigned integer. Value range: 0 to 10000.	Required when you create a condition.
RuleName	Detection rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required when you create a condition.
ProtocolList	Protocol type list	Data structure	Members include: • ProtocolType	Required.
ProtocolType	Protocol type.	N/A	Enumeration: • 1—FTP. • 2—SMTP. • **3—**SMB**.** • 4—NFS. • 5—POP3. • 6—IMAP. • 7—HTTP. • 8—HTTPS/SSL.	Required.

DLP/ResponseRuleTempList

This table contains DLP policy response rules.

XML structure

```
<DLP>
  <ResponseRuleTempList>
    <ResponseRuleTemp>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <Description></Description>
      <ConditionList>
        <ConditionID></ConditionID>
        <ConditionType></ConditionType>
      </ConditionList>
      <ActionList>
        <ActionID></ActionID>
        <ActionType></ActionType>
      </ActionList>
      <TotalNum></TotalNum>
    </ResponseRuleTemp>
  </ResponseRuleTempList>
```

```
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseRuleTempList
Table type	Multi-instance table
Row name	ResponseRuleTemp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
Description	Response rule description	N/A	String, case sensitive. Length: 0 to 127 characters.	Optional.
ConditionList	Condition list name.	Data structure	Members include: • ConditionID • ConditionType	Optional.
ConditionID	Condition ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ConditionType	Condition type	N/A	Enumeration: • 1—Severity. • 2—Protocol.. • 3—Hits.	Required.
ActionList	Action list name.	Data structure	Members include: • ActionID • ActionType	Optional.
ActionID	Action ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ActionType	Action type	N/A	Enumeration: • 1—Uploads the file. • 2—Adds a comment. • 3—Sends a log message. • 4—Sends an email.	Required
TotalNum	Total number of response rules	N/A	Unsigned integer. Value range: 0 to 30.	Required

DLP/ResponseConditionList

This table contains response conditions for response rules.

XML structure

```
<DLP>
  <ResponseConditionList>
    <ResponseCondition>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ConditionID></ConditionID>
      <ConditionType></ConditionType>
      <Operator></Operator>
      <ValueList>
        <Value></Value>
      </ValueList>
    </ResponseCondition>
  </ResponseConditionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseConditionList
Table type	Multi-instance table
Row name	ResponseCondition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
ConditionID	Condition id.	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ConditionType	Condition type	N/A	Enumeration: • 1—Severity. • 2—Protocol. • 3—Hits.	Required. Select a condition type based on file attributes.

Column name	Column description	Column type	Data type and restrictions	Remarks
Operator	Operator	N/A	Enumeration: • 1—IN. • 2—Not in. • 3—Greater. • 4—Less. • 5—Between.	Required If ConditionType is 1 or 2, select 1 or 2 . If ConditionType is 3, select 3, 4, or 5.
ValueList	Value list name	Data structure	Members include: • Value.	Required.
Value	Value	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required if ConditionType is 1, select 1, 2, 3, or 4, which means High, Medium, Low or Info, respectively. If ConditionType is 2, select one from 1 to 8, which means FTP, SMTP, SMB, NFS, POP3, IMAP, HTTP, or HTTPS, respectively. If ConditionType is 3 and Operator is 3 (Greater) or 4 (Less), one value is required. If ConditionType is 3 and Operator is 5 (Between), two values are required.

DLP/ResponseActionList

This table contains response action lists for response rules.

XML structure

```
<DLP>
  <ResponseActionList>
    <ResponseAction>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ActionID></ActionID>
      <ActionType></ActionType>
      <TemplateID></TemplateID>
      <Content></Content>
    </ResponseAction>
  </ResponseActionList>
</DLP>
```

Table description

Item	Description
Feature name	DLP
Table name	ResponseActionList
Table type	Multi-instance table
Row name	ResponseAction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Response rule ID	Index	Unsigned integer. Value range: 0 to 10000.	Required.
RuleName	Response rule name	N/A	String, case sensitive. Length: 1 to 31 characters.	Required.
ActionID	Action ID.	Index	Unsigned integer. Value range: 0 to 10000.	Required.
ActionType	Action type.	N/A	Enumeration: • 1—Uploads the file. • 2—Adds a comment. • 3—Sends a log message. • 4—Sends an email.	Required.
TemplateID	Specifies the template ID referenced by the response action type.	N/A	Unsigned integer. Value range: 0 to 2147483647.	Required.
Content	**Specifies the content information for the response action type.**	N/A	String, case insensitive. Length: 1 to 127 characters.	Required.

Contents

DLP 2
DLP/RegexTemplateList 2
DLP/MailTemplateList 2
DLP/ MailServerList 2
DLP/UploadFileTemplateList 3
DLP/IndexFileTemplateList 3
DLP/ImportResourceFile 4
DLP/ExportResourceFile 4
DLP/LocalIpv4RangeList 4
DLP/LocalIpv6RangeList 4
DLP/ProtocolFilterList 5
DLP/DetectPolicyList 5
DLP/DetectRuleList 5
DLP/IdentityRuleList 5
DLP/ExceptionDetectRuleList 6
DLP/ExceptionIdentityRuleList 6
DLP/ResponseRuleList 6
DLP/RegexConditionList 7
DLP/KeywordConditionList 7
DLP/IndexFileConditionList 7
DLP/FileAttriConditonList 8
DLP/SenderConditionList 8
DLP/ReceiverConditionList 8
DLP/ProtocolConditionList 9
DLP/ResponseRuleTempList 9
DLP/ResponseConditionList 9
DLP/ResponseActionList 9
DLP/ImportPolicyFile 10

DLP

DLP/RegexTemplateList

Message	Explanation
The resource id has been existed. 资源id已存在。	The resource id .can't be created repeatedly. 资源id不能重复创建。
The resource name has been existed. 资源名已存在。	The resource name .can't be created repeatedly. 资源名不能重复创建。
The numberof resource is out of range. 配置的资源条数已超出规格。	The max number of regex template list is 1000 正则表达式模版表的最大条数是1000。。
The number of resource is out of range. 正则表达式不合法。	The regex must be valid. 正则表达式必须是有效的。

DLP/MailTemplateList

Message	Explanation
The resource id has been existed. 资源id已存在。	The resource id .can't be created repeatedly. 资源id不能重复创建。
The resource name has been existed. 资源名已存在。	The resource name .can't be created repeatedly. 资源名不能重复创建。
The mail server id is out of range. 邮件服务器ID超过范围。	The mail server id of mail template list is from 1 to 100.. 邮件告警模版表的服务器id是在1~100内的。
The numberof resource is out of range. 配置的资源条数已超出规格。	The max number of mail template list is from 1 to 100.. 邮件告警模版表的最大条数是100。

DLP/ MailServerList

Message	Explanation
The resource id has been existed. 资源id已存在。	The resource id .can't be created repeatedly. 资源id不能重复创建。
The resource name has been existed. 资源名已存在。	The resource name .can't be created repeatedly. 资源名不能重复创建。
The numberof resource is out of range. 配置的资源条数已超出规格。	The max number of mail server list is 100.. 邮件服务器表的最大条数是100。。

The mail (server) address is illegal. 输入的邮箱（服务器）地址非法。	The mail address must be valid ip address or mail domain. 邮件服务器地址必须是有效的ip地址或者邮箱域名。

DLP/UploadFileTemplateList

Message	Explanation
The resource id has been existed. 资源id已存在。	The resource id .can't be created repeatedly. 资源id不能重复创建。
The resource name has been existed. 资源名已存在。	The resource name .can't be created repeatedly. 资源名不能重复创建。
The ip address is invalid 输入的ip地址无效。	The ip address must be valid. Ip地址必须是有效的。
The numberof resource is out of range. 配置的资源条数已超出规格。	The max number of upload file template list is100.. 文件上传服务器模版表的最大条数是100。。
There is no available hard disk, please select ftp server. 无可用硬盘，请选择ftp服务器。	The hard disk must exist when server type is local. 当服务器类型选择local时本地必须有硬盘。

DLP/IndexFileTemplateList

Message	Explanation
The resource id has been existed. 资源id已存在。	The resource id .can't be created repeatedly. 资源id不能重复创建。
The resource name has been existed. 资源名已存在。	The resource name .can't be created repeatedly. 资源名不能重复创建。
The numberof resource is out of range. 配置的资源条数已超出规格。	The max number of index file template list is100.. 指纹文件模版表的最大条数是100。
The IDM resource file has been existed. 该指纹索引文件已经存在。	The same name of index file is not allowed to be imported when creating a new config. 当新建一条配置的时候不允许导入有重复文件名的指纹文件。
The finger file imported is invalid. 导入的指纹文件无效。	The finger file imported must be from IDMTool software. 导入的指纹文件必须是由IDMTool软件产生的。

DLP/ImportResourceFile

Message	Explanation
The imported file is illegal. 导入的文件非法。	The imported file must be valid. 导入的文件必须是有效的。

DLP/ExportResourceFile

Message	Explanation
The space of device is not enough to export config file package. 设备空间不足，无法导出。	There must be enough space left for exporting package. 必须有足够的空间容纳导出的配置压缩包。

DLP/LocalIpv4RangeList

Message	Explanation
The number of object groups exceeds the limit. 对象组数量超限。	The number of object groups exceeds the limit. 对象组数量超过最大限制。
There is an IP type that does not match object group. 存在IP类型与当前引用的地址对象组不匹配。	There is an IP type that does not match object group. 当前引用的地址对象组列表里存在IP类型不符合的对象组。
Failed to add intranet filter condition. 添加内外网过滤条件失败。	Failed to add intranet filter condition. 更新下发内外网过滤条件失败。

DLP/LocalIpv6RangeList

Message	Explanation
The number of object groups exceeds the limit. 对象组数量超限。	The number of object groups exceeds the limit. 对象组数量超过最大限制。
There is an IP type that does not match object group. 存在IP类型与当前引用的地址对象组不匹配。	There is an IP type that does not match object group. 当前引用的地址对象组列表里存在IP类型不符合的对象组。
Failed to add intranet filter condition. 添加内外网过滤条件失败。	Failed to add intranet filter condition. 更新下发内外网过滤条件失败。

DLP/ProtocolFilterList

Message	Explanation
There are types of protocols that are not supported. 存在不支持的协议类型。	The resource id .can't be created repeatedly. 下发的协议列表里存在业务不支持的协议类型。
Failed to add protocol type filter condition. 添加协议类型过滤条件失败。	Failed to add protocol type filter condition. 更新下发协议过滤条件失败。

DLP/DetectPolicyList

Message	Explanation
The number of policy is out of range. 策略条数超出规格。	The maximum specification of policy configuration is 20. 策略配置的最大规格是20个。
The policy name has been existed. 该策略名已存在。	The policy name can't be created repeatedly. 策略名称不能重复创建。
The policy node can't be found. 对应的策略节点不存在。	The policy for the specified ID does not exist. 指定ID的策略不存在。

DLP/DetectRuleList

Message	Explanation
The number of rule is out of range. 规则条数超出规格。	The maximum specification of detection rules under the policy is 5. 策略下检测规则的最大规格是5个。
The detect rule name has been existed. 检测规则名称已存在。	The detection rule name can't be created repeatedly. 检测规则名称不能重复创建。
The rule does not exist. 查找不到规则配置。	The detection rule for the specified ID does not exist. 指定ID的检测规则不存在。

DLP/IdentityRuleList

Message	Explanation
The number of rule is out of range. 规则条数超出规格。	The maximum specification of identity rules under the policy is 5. 策略下身份规则的最大规格是5个。
The identity rule name has been existed..	The identity rule name can't be created repeatedly.

该身份规则名称已存在。	身份规则名称不能重复创建。
The rule does not exist. 查找不到规则配置。	The identity rule for the specified ID does not exist. 指定ID的身份规则不存在。

DLP/ExceptionDetectRuleList

Message	Explanation
The number of rule is out of range. 规则条数超出规格。	The maximum specification of exception rules under the policy is 5. 策略下例外检测规则的最大规格是5个。
The exception detect rule name has been existed. 该例外检测规则名称已存在。	The identity rule name can’t be created repeatedly. 例外检测规则名称不能重复创建。
The rule does not exist. 查找不到规则配置。	The identity rule for the specified ID does not exist. 指定ID的例外检测规则不存在。

DLP/ExceptionIdentityRuleList

Message	Explanation
The number of rule is out of range. 规则条数超出规格。	The maximum specification of exception identity rules under the policy is 5. 策略下身份规则的最大规格是5个。
The exception identity rule name has been existed. 该例外身份规则名称已存在。	The exception identity rule name can’t be created repeatedly. 例外身份规则名称不能重复创建。
The rule does not exist. 查找不到规则配置。	The identity rule for the specified ID does not exist. 指定ID的例外身份规则不存在。

DLP/ResponseRuleList

Message	Explanation
The number of rule is out of range. 规则条数超出规格。	The maximum specification of exception identity rules under the policy is 5. 策略下相应规则的最大规格是5个。
The quote template don't exist.. 引用模板不存在。	The resource name can’t be created repeatedly. 资源名称不能重复创建。

DLP/RegexConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of regex condition under detection rule is 5. 检测规则下正则条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified regex condition under the specified rule does not exist. 指定规则下的指定正则条件不存在。
The quote template don't exist.. 引用模板不存在。	

DLP/KeywordConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of keyword condition under detection rule is 5. 检测规则下关键字条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified keyword condition under the specified rule does not exist. 指定规则下的指定关键字条件不存在。

DLP/IndexFileConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of index file condition under detection rule is 5. 检测规则下索引文件条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified index file condition under the specified rule does not exist. 指定规则下的指定索引文件条件不存在。
The quote template don't exist..	

引用模板不存在。	

DLP/FileAttriConditonList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specifications of file name, file type and file size conditions under the detection rule are 5 respectively. 检测规则下文件名、文件类型和文件大小条件的最大规格分别是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified file attribute condition under the specified rule does not exist. 指定规则下的指定文件属性条件不存在。
There are types of filetypes that are not supported. 存在不支持的文件类型。	

DLP/SenderConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of sender condition under identity rule is 5. 身份规则下发送者条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified sender condition under the specified rule does not exist. 指定规则下的指定发送者条件不存在。

DLP/ReceiverConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of receiver condition under identity rule is 5. 身份规则下接收者条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。

The condition configuration does not exist. 该条件配置不存在。	The specified receiver condition under the specified rule does not exist. 指定规则下的指定接收者条件不存在。

DLP/ProtocolConditionList

Message	Explanation
The rule contains conditions of this type that are out of limit. 该规则包含的该类型条件超限。	The maximum specification of protocol condition under detection rule is 5. 检测规则下协议条件的最大规格是5个。
The condition configuration already exists. 该条件配置已存在。	Condition id cannot be repeat. 条件的id值不能重复。
The condition configuration does not exist. 该条件配置不存在。	The specified protocol condition under the specified rule does not exist. 指定规则下的指定协议条件不存在。

DLP/ResponseRuleTempList

Message	Explanation
The response rule template has been existed. 该条响应规则模版已存在。	The response rule template id can’t be created repeatedly. 响应规则模板id不能重复。
The response rule template node can't be found. 对应的响应规则模版节点不存在。	The response rule template for the specified ID does not exist. 指定id的响应规则模板不存在。
The rule name of response rule template has been existed. 该条响应规则模版的资源名已存在。	The name of the response rule template can’t be created repeatedly. 响应规则模板名称不能重复。

DLP/ResponseConditionList

Message	Explanation
The number of response condition in response template is out of range. 响应规则包含的响应条件条数超出规格。	The maximum specification of the condition under the response rule template is 5. 响应规则模版下条件的最大规格是5个。

DLP/ResponseActionList

Message	Explanation
The number of response action in response	The maximum specification of actions under the response

template is out of range. 响应规则包含的响应动作条数超出规格。	rule template is 5. 响应规则模版下动作的最大规格是5个。

DLP/ImportPolicyFile

Message	Explanation
The configer file size is zero. 配置文件是空文件。	The imported profile package cannot be an empty file. 导入的配置文件包不能是空文件。
The configer file format is error. 配置文件格式错误。	Failed to add protocol type filter condition. 更新下发协议过滤条件失败。
The configer file packet is don't exist. 配置文件包不存在。	
The imported file type is illegal. 导入的文件类型非法。	
The configer file packet extracted failed. 配置文件包解压失败。	

Contents

DNS 1
DNS/DNSClearHost 1
XML structure 1
Table description 1
Columns 1

DNS

DNS/DNSClearHost

This table is used to clear DNS host entries.

XML structure

```
<DNS>
  <DNSClearHost>
    <ClearHost>
      <VRF></VRF>
      <Type></Type>
      <QueryType></QueryType>
    </ClearHost>
  </DNSClearHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSClearHost
Table type	Multi-instance table
Row name	ClearHost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the length of characters is 0.
Type	Domain name-to-IP address mapping type	Index	Enumeration: • **1**—Static. • **2**—Dynamic. • 3—Cached.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueryType	Query type	Index	Enumeration: • **1**—A. • **2**—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address. If all the query type is set, the length of the column is 0.

Contents

DNS 1

DNS/DNSHost 1
XML structure 1
Table description 1
Columns 1
DNS/DNSServer 2
XML structure 2
Table description 2
Columns 3
DNS/DNSDomain 3
XML structure 3
Table description 4
Columns 4
DNS/DNSConfig 4
XML structure 4
Table description 5
Columns 5
DNS/DNSIfServer 6
XML structure 6
Table description 7
Columns 7
DNS/DNSHostAge 8
XML structure 8
Table description 8
Columns 8
DNS/DNSServerGroup 8
XML structure 9
Table description 9
Columns 9
DNS/DNSGroupServer 9
XML structure 9
Table description 10
Columns 10
DNS/DNSDomainRule 11
XML structure 11
Table description 11
Columns 11
DNS/DNSDomainRuleExt 12
XML structure 12
Table description 12
Columns 12

DNS

DNS/DNSHost

This table contains DNS host configuration information.

XML structure

```
<DNS>
  <DNSHost>
    <Host>
      <VRF></VRF>
      <HostName></HostName>
      <Type></Type>
      <QueryType></QueryType>
      <Result></Result>
    </Host>
  </DNSHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHost
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the value is null.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Domain name-to-IP address mapping type	Index	Enumeration: • **1**—Static.	N/A
QueryType	Query type	Index	Enumeration: • **1**—A. • **2**—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address.
Result	Replied result	N/A	String, case insensitive. Length: 1 to 45 characters.	Required. An IPv4 address as QueryType is A, an IPv6 address as QueryType is AAAA.

DNS/DNSServer

This table contains DNS server configuration information.

XML structure

```
<DNS>
  <DNSServer>
    <Server>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
    </Server>
  </DNSServer>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSServer
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
Type	DNS server type	Index	Enumeration: • **1**—Static.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

DNS/DNSDomain

This table contains information about domain name suffix configuration.

XML structure

```
<DNS>
  <DNSDomain>
    <Domain>
      <VRF></VRF>
      <Type></Type>
      <DomainName></DomainName>
    </Domain>
  </DNSDomain>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the domain name suffix is on the public network, the value is null.
Type	Domain name suffix type	Index	Enumeration: • **1**—Static.	N/A
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.

DNS/DNSConfig

This table contains DNS configuration information.

XML structure

```
<DNS>
  <DNSConfig>
    <DNSProxyEnable></DNSProxyEnable>
    <DNSDSCP></DNSDSCP>
    <DNSDSCP6></DNSDSCP6>
    <DNSSnoopingLogEnable></DNSSnoopingLogEnable>
    <DNSSnoopingRateLimit></DNSSnoopingRateLimit>
    <DNSTransparentProxyEnable></DNSTransparentProxyEnable>
```

```
    <DNSRedirectEnable></DNSRedirectEnable>
    <DNSCacheEnable></DNSCacheEnable>
    <DNSFastReplyEnable></DNSFastReplyEnable>
    <DNSFastReplyIgnoreClientVPN></DNSFastReplyIgnoreClientVPN>
    <DNSSnoopingEnable></DNSSnoopingEnable>
    <DNSCacheTTLMinimum></DNSCacheTTLMinimum>
    <DNSCacheTTLMaximum></DNSCacheTTLMaximum>
  </DNSConfig>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSProxyEnable	Whether the function of DNS proxy is enabled	N/A	Boolean: • **true** • **false**(default)	Support for this function depends on the device model.
DNSDSCP	DSCP value for DNS packets sent by a DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
DNSDSCP6	DSCP value for IPv6 DNS packets sent by an IPv6 DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
DNSSnoopingLogEnable	Whether the DNS snooping logging function is enabled	N/A	Boolean: • **true** • **false** (default)	Support for this function depends on the device model.
DNSSnoopingRateLimit	Limit rate on DNS packet	N/A	Usigned integer. Value range: 64 to 512. Default: 0.	The value range depends on the device model.
DNSTransparentProxyEnable	Whether the function of DNS transparent proxy is enabled	N/A	Boolean: • **true** • **false** (default)	Support for this function depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSRedirectEnable	Whether the function of DNS redirect is enabled	N/A	Boolean: • **true** • **false**(default)	Support for this feature depends on the device model.
DNSCacheEnable	Whether the function of DNS cache is enabled	N/A	Boolean: • **true** • **false**(default)	Support for this function depends on the device model.
DNSFastReplyEnalbe	Whether the function of DNS fast reply is enabled	N/A	Boolean: • **true** • **false**(default)	Support for this function depends on the device model.
DNSFastReplyIgnoreClientVPN	Whether the function of ignoring client VPN for DNS fast reply is enabled	N/A	Boolean: • **true** • **false**(default)	Support for this function depends on the device model. By default, the DNS client only queries a domain in the cache from the DNS server in the same VPN. Configure this function to enable the DNS client to query a domain from different VPNs.
DNSSnoopingEnable	Whether the function of DNS snooping is enabled	N/A	Boolean: • **true** • **false (default)**	Support for this function depends on the device model.
DNSCacheTTLMinimum	The minimum TTL of dns cache	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
DNSCacheTTLMaximum	The maximum TTL of dns cache	N/A	Unsigned integer. Value range: 60 to 3600.	N/A

DNS/DNSIfServer

This table contains DNS server of interface information.

XML structure

```
<DNS>
  <DNSIfServer>
    <Server>
      <IfIndex></IfIndex>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndexOut></IfIndexOut>
    </Server>
  </DNSIfServer>
```

```
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSIfServer
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
Type	DNS server type	Index	Enumeration: • **1**—Static.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: • **1**—IPv4.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndexOut	Output interface Index	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

DNS/DNSHostAge

This table contains information about DNS aging time.

XML structure

```
<DNS>
  <DNSHostAge>
    <HostAge>
      <VRF></VRF>
      <HostName></HostName>
      <AgingTime></AgingTime>
    </HostAge>
  </DNSHostAge>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHostAge
Table type	Multi-instance table
Row name	HostAge
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).
AgingTime	Aging time of host name	N/A	Unsigned integer. Value range 0 to 604800.	If AgingTime is set to 0, it means the host exists permanently.

DNS/DNSServerGroup

This table contains DNS server groups.

XML structure

```
<DNS>
  <DNSServerGroup>
    <ServerGroup>
      <GroupID></GroupID>
      <VRF></VRF>
      <GroupName></GroupName>
    </ServerGroup>
  </DNSServerGroup>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSServerGroup
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Index of the DNS server group.	Index	Unsigned integer. Value range 1 to 16.	
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
GroupName	The description of the group.	N/A	String, case insensitive. Length: 1 to 253 characters.	

DNS/DNSGroupServer

This table contains DNS servers of a server group.

XML structure

```
<DNS>
  <DNSGroupServer>
    <GroupServer>
```

```
      <GroupID></GroupID>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
    </GroupServer>
  </DNSGroupServer>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSGroupServer
Table type	Multi-instance table
Row name	GroupServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	DNS server group ID.	Index	Unsigned integer. Value range 1 to 16.	Dns Server-Group ID.
AddressType	Server address type	Index	Enumeration: ● **1**—IPv4. ● **2**—IPV6.	The server address type contains only IPv4 and IPv6.
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

DNS/DNSDomainRule

This table will be discarded.It is recommended to use a new table DNSDomainRuleExt.

XML structure

```
<DNS>
  <DNSDomainRule>
    <DomainRule>
      <RuleID></RuleID>
      <DomainName></DomainName>
      <Type></Type>
      <VRF></VRF>
      <ServerGroupID></ServerGroupID>
    </DomainRule>
  </DNSDomainRule>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomainRule
Table type	Multi-instance table
Row name	DomainRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Domain name rule ID.	Index	Unsigned integer. Value range 1 to 16.	Domain name rule ID.
DomainName	Domain name.	Index	String, case sensitive. Length: 1 to 253 characters.	Domain name matched by domain name rule.
Type	Domain name type.	N/A	Enumeration: ● **1**—domain. ● **2**—subdomain.	Domain types are divided into domain and subdomains
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerGroupID	Index of the DNS server group.	N/A	Unsigned integer. Value range 1 to 16.	Server group bound to domain name rules.

DNS/DNSDomainRuleExt

This table contains the DNS domain rule information.

XML structure

```
<DNS>
  <DNSDomainRuleExt>
    <DomainRule>
      <RuleID></RuleID>
      <Type></Type>
      <DomainName></DomainName>
      <VRF></VRF>
      <ServerGroupID></ServerGroupID>
    </DomainRule>
  </DNSDomainRuleExt>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomainRuleExt
Table type	Multi-instance table
Row name	DomainRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Domain name rule ID.	Index	Unsigned integer. Value range 1 to 16.	Domain name rule ID.
Type	Domain name type.	Index	Enumeration: ● **1**—domain. ● **2**—subdomain.	Domain types are divided into domains and subdomains

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case sensitive. Length: 1 to 253 characters.	Domain name matched by domain name rule.
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
ServerGroupID	Index of the DNS server group.	N/A	Unsigned integer. Value range 1 to 16.	Server group bound to domain name rules.

Contents

DNS 1

DNS/DNSHost 1
XML structure 1
Table description 1
Columns 1
DNS/DNSHostCache 2
XML structure 2
Table description 3
Columns 3
DNS/DNSServer 4
XML structure 4
Table description 4
Columns 5
DNS/DNSDomain 5
XML structure 5
Table description 6
Columns 6
DNS/DNSConfig 6
XML structure 6
Table description 7
Columns 7
DNS/DNSSpecification 8
XML structure 8
Table description 9
Columns 9
DNS/DNSIfServer 9
XML structure 9
Table description 10
Columns 10
DNS/DNSHostAge 11
XML structure 11
Table description 11
Columns 12
DNS/DNSServerGroup 12
XML structure 12
Table description 12
Columns 13
DNS/DNSGroupServer 13
XML structure 13
Table description 13
Columns 14
DNS/DNSDomainRule 14
XML structure 14
Table description 15
Columns 15
DNS/DNSDomainRuleExt 15
XML structure 15
Table description 16
Columns 16

DNS

DNS/DNSHost

This table contains DNS host information.

XML structure

```
<DNS>
  <DNSHost>
    <Host>
      <VRF></VRF>
      <HostName></HostName>
      <Type></Type>
      <QueryType></QueryType>
      <AgeTime></AgeTime>
      <Result></Result>
    </Host>
  </DNSHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHost
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the value is null.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Domain name-to-IP address mapping type	Index	Enumeration: • **1**—Static. • **2**—Dynamic.	N/A
QueryType	Query type	Index	Enumeration: • **1**—A. • **2**—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address.
AgeTime	Time in seconds that a mapping can be stored in the cache.	N/A	Unsigned integer. Value range: 1 to 604800 seconds.	No aging time for a static mapping. No aging time for a mapping whose lifetime is specified as 0.
Result	Replied result	N/A	String, case insensitive.	IPv4 address string as QueryType is A, IPv6 address string as QueryType is AAAA. Seperated by space if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3. 1::1 2::2 3::3.

DNS/DNSHostCache

This table contains DNS host cache information.

XML structure

```
<DNS>
  <DNSHostCache>
    <HostCache>
      <VRF></VRF>
      <HostName></HostName>
      <Server></Server>
      <Type></Type>
      <QueryType></QueryType>
      <AgeTime></AgeTime>
      <Result></Result>
    </HostCache>
  </DNSHostCache>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHostCache
Table type	Multi-instance table
Row name	HostCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the value is null.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).
Server	IP address of DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	N/A
Type	Domain name-to-IP address mapping type	Index	Enumeration: • **1**—Cached	N/A
QueryType	Query type	Index	Enumeration: • **1**—A. • **2**—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address.
AgeTime	Time in seconds that a mapping can be stored in the cache.	N/A	Unsigned integer. Value range: 1 to 4294967295 seconds.	No aging time for a static mapping. No aging time for a mapping whose lifetime is specified as 0 by the table of DNS/DNSDomainAge.

Column name	Column description	Column type	Data type and restrictions	Remarks
Result	Replied result	N/A	String, case insensitive.	It is an IPv4 address if QueryType is A, IPv6 and it is an IPv6 address if QueryType is AAAA. Separated by spaces if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3. 1::1 2::2 3::3.

DNS/DNSServer

This table contains DNS server information.

XML structure

```
<DNS>
  <DNSServer>
    <Server>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Priority></Priority>
    </Server>
  </DNSServer>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSServer
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
Type	DNS server type	Index	Enumeration: • **1**—Static. • **2**—Dynamic.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index	Index	Unsigned integer.	The system returns null if AddressType is 1or the IpAddress is not a link-local address.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Priority	Priority of DNS server	N/A	Unsigned integer. Value range: 0 to 5.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

DNS/DNSDomain

This table contains domain name suffix information.

XML structure

```
<DNS>
  <DNSDomain>
    <Domain>
      <VRF></VRF>
      <Type></Type>
      <DomainName></DomainName>
      <Priority></Priority>
    </Domain>
  </DNSDomain>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the domain name suffix is on the public network, the value is null.
Type	Domain name suffix type	Index	Enumeration: • **1**—Static. • **2**—Dynamic.	N/A
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.
Priority	Priority of domain name suffix	N/A	Unsigned integer. Value range: 0 to 15.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

DNS/DNSConfig

This table contains DNS configuration information.

XML structure

```
<DNS>
  <DNSConfig>
    <DNSProxyEnable></DNSProxyEnable>
```

```
    <DNSDSCP></DNSDSCP>
    <DNSDSCP6></DNSDSCP6>
    <DNSSnoopingLogEnable></DNSSnoopingLogEnable>
    <DNSSnoopingRateLimit></DNSSnoopingRateLimit>
    <DNSTransparentProxyEnable></DNSTransparentProxyEnable>
    <DNSRedirectEnable></DNSRedirectEnable>
    <DNSCacheEnable></DNSCacheEnable>
    <DNSFastReplyEnable></DNSFastReplyEnable>
    <DNSFastReplyIgnoreClientVPN></DNSFastReplyIgnoreClientVPN>
    <DNSSnoopingEnable></DNSSnoopingEnable>
    <DNSCacheTTLMinimum></DNSCacheTTLMinimum>
    <DNSCacheTTLMaximum></DNSCacheTTLMaximum>
  </DNSConfig>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSProxyEnable	Whether the function of DNS proxy is enabled	N/A	Boolean: • **true** • **False**	Support for this function depends on the device model.
DNSDSCP	DSCP value for DNS packets sent by a DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DNSDSCP6	DSCP value for IPv6 DNS packets sent by an IPv6 DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DNSSnoopingLogEnable	Whether the DNS snooping logging function is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model.
DNSSnoopingRateLimit	Limit rate on DNS packets, in Kbps	N/A	Usigned integer. Value range: 64 to 512. Default: 0.	The value range depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSTransparentProxyEnable	Whether the function of DNS transparent proxy is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model.
DNSRedirectEnable	Whether the function of DNS redirect is enabled	N/A	Boolean: • **true** • **false**	Support for this feature depends on the device model.
DNSCacheEnable	Whether the function of DNS cache is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model.
DNSFastReplyEnalbe	Whether the function of DNS fast reply is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model.
DNSFastReplyIgnoreClientVPN	Whether the function of ignoring client VPN for DNS fast reply is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model. By default, the DNS client only queries a domain in the cache from the DNS server in the same VPN. Configure this function to enable the DNS client to query a domain from different VPNs.
DNSSnoopingEnable	Whether the function of DNS snooping is enabled	N/A	Boolean: • **true** • **false**	Support for this function depends on the device model.
DNSCacheTTLMinimum	The minimum TTL of dns cache	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
DNSCacheTTLMaximum	The maximum TTL of dns cache	N/A	Unsigned integer. Value range: 60 to 3600.	N/A

DNS/DNSSpecification

This table contains DNS specification information.

XML structure

```
<DNS>
  <DNSSpecification>
    <SupportDNSProxy></SupportDNSProxy>
    <SupportDNSFastReply></SupportDNSFastReply>
    <SupportDNSCache></SupportDNSCache>
    <SupportDNSRedirect></SupportDNSRedirect>
    <SupportDNSDomainRule></SupportDNSDomainRule>
    <SupportDNSServerGroup></SupportDNSServerGroup>
```

```
  </DNSSpecification>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDNS Proxy	Whether the function of DNS proxy is supported.	N/A	Boolean: • **true** • **false**	N/A
SupportDNS FastReply	Whether the function of DNS fast reply is supported.	N/A	Boolean: • **true** • **false**	N/A
SupportDNS Cache	Whether the function of DNS cache is supported.	N/A	Boolean: • **true** • **false**	N/A
SupportDNS Redirect	Whether DNS redirect is supported	N/A	Boolean: • **true** • **false**	N/A
SupportDNS DomainRule	Whether the DNS domain rule is supported	N/A	Boolean: • **true** • **false**	N/A
SupportDNS ServerGroup	Whether the DNS server group is supported	N/A	Boolean: • **true** • **false**	N/A

DNS/DNSIfServer

This table contains DNS server of interface information.

XML structure

```
<DNS>
```

```
  <DNSIfServer>
    <Server>
      <IfIndex></IfIndex>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndexOut></IfIndexOut>
      <IfName></IfName>
      <IfNameOut></IfNameOut>
      <Priority></Priority>
    </Server>
  </DNSIfServer>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSIfServer
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
Type	DNS server type	Index	Enumeration: • **1**—Static. • **2**—Dynamic.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: • **1**—IPv4.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndexOut	Output interface Index	Index	Unsigned integer.	The system returns null if AddressType is 1 or the IpAddress is not a link-local address.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
IfNameOut	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	The system returns null if AddressType is 1 or the IpAddress is not a link-local address.
Priority	Priority of DNS server	N/A	Unsigned integer. Value range: 0 to 5.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

DNS/DNSHostAge

This table contains the aging time of a host name.

XML structure

```
<DNS>
  <DNSHostAge>
    <HostAge>
      <VRF></VRF>
      <HostName></HostName>
      <AgingTime></AgingTime>
    </HostAge>
  </DNSHostAge>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHostAge
Table type	Multi-instance table
Row name	HostAge
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).
AgingTime	Aging time	N/A	Unsigned integer. Value range 0 to 604800.	If AgingTime is set to be 0, it means the host exists permanently.

DNS/DNSServerGroup

This table contains DNS server groups.

XML structure

```
<DNS>
  <DNSServerGroup>
    <ServerGroup>
      <GroupID></GroupID>
      <VRF></VRF>
      <GroupName></GroupName>
    </ServerGroup>
  </DNSServerGroup>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSServerGroup
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Index of the DNS server group	Index	Unsigned integer. Value range 1 to 16.	
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
GroupName	The description of the group.	N/A	String, case insensitive. Length: 1 to 253 characters.	

DNS/DNSGroupServer

This table contains DNS servers of a server group.

XML structure

```
<DNS>
  <DNSGroupServer>
    <GroupServer>
      <GroupID></GroupID>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
      <Priority></Priority>
    </GroupServer>
  </DNSGroupServer>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSGroupServer
Table type	Multi-instance table
Row name	GroupServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	DNS server group ID.	Index	Unsigned integer. Value range 1 to 16.	
AddressType	Server address type.	Index	Enumeration: ● **1**—IPv4. ● **2**—IPV6.	The server address type contains only IPv4 and IPv6.
IpAddress	IP address of the DNS server.	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index.	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Priority	Priority of domain name matching.	N/A	Unsigned integer. Value range 0 to 5.	Priority of domain name matching.

DNS/DNSDomainRule

This table will be discarded.It is recommended to use a new table DNSDomainRuleExt.

XML structure

```
<DNS>
  <DNSDomainRule>
    <DomainRule>
      <RuleID></RuleID>
      <DomainName></DomainName>
      <Type></Type>
      <VRF></VRF>
      <ServerGroupID></ServerGroupID>
    </DomainRule>
  </DNSDomainRule>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomainRule
Table type	Multi-instance table
Row name	DomainRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Domain name rule ID.	Index	Unsigned integer. Value range 1 to 16.	Domain name rule ID.
DomainName	Domain name.	Index	String, case sensitive. Length: 1 to 253 characters.	Domain name matched by domain name rule.
Type	Domain name type.	N/A	Enumeration: ● **1**—domain. ● **2**—subdomain.	Domain types are divided into domains and subdomains
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
ServerGroupID	Index of the DNS server group.	N/A	Unsigned integer. Value range 1 to 16.	Server group bound to domain name rules.

DNS/DNSDomainRuleExt

This table contains the DNS domain rule information.

XML structure

```
<DNS>
  <DNSDomainRuleExt>
    <DomainRule>
      <RuleID></RuleID>
      <Type></Type>
      <DomainName></DomainName>
      <VRF></VRF>
      <ServerGroupID></ServerGroupID>
    </DomainRule>
```

```
  </DNSDomainRuleExt>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomainRuleExt
Table type	Multi-instance table
Row name	DomainRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Domain name rule ID.	Index	Unsigned integer. Value range 1 to 16.	Domain name rule ID.
Type	Domain name type.	Index	Enumeration: ● **1**—domain. ● **2**—subdomain.	Domain types are divided into domain and subdomains
DomainName	Domain name.	Index	String, case sensitive. Length: 1 to 253 characters.	Domain name matched by domain name rule.
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the value is null.
ServerGroupID	Index of the DNS server group.	N/A	Unsigned integer. Value range 1 to 16.	Server group bound to domain name rules.

Contents

DNS 1
DNS/DNSHost 1
DNS/DNSServer 1
DNS/DNSDomain 2
DNS/DNSConfig 3
DNS/DNSHostAge 4
DNS/DNSServerGroup 4
DNS/DNSGroupServer 5
DNS/DNSDomainRule 5
DNS/DNSDomainRuleExt 6

DNS

DNS/DNSHost

Message	Explanation
Invalid host name. 非法的主机名。	Invalid host name. 非法的主机名。
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications. DNS 支持的可配 VRF 个数超过上限，请检查配置或者设备规格。
Maximum number of IPv4 DNS entries already reached. 可配主机IP地址个数超过上限。	Maximum number of IPv4 DNS entries already reached. Please check configuration or specifications 可配主机 IP 地址个数超过上限。请检查配置或者设备规格
Failed to create the IPv4 DNS entry. 创建主机名及其对应的主机IP地址失败。	Failed to create the IPv4 DNS entry. Please modify configuration under guidance. 创建主机名及其对应的主机 IP 地址失败，请按照配置说明修改
Invalid IPv6 address. 非法的IPv6地址。	nvalid IPv6 address. 非法的 IPv6 地址。
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration Please modify configuration under guidance. 无效配置，请按照配置说明修改
Maximum number of IPv6 DNS entries already reached. 可配主机IPv6地址个数超过上限。	Maximum number of IPv6 DNS entries already reached. Please check configuration or specifications 可配主机 IPv6 地址个数超过上限,请检查配置或者设备规格
Failed to create the IPv6 DNS entry. 创建主机名及其对应的主机IPv6地址失败。	Failed to create the IPv6 DNS entry. Please modify configuration under guidance. 创建主机名及其对应的主机 IPv6 地址失败，请按照配置说明修改

DNS/DNSServer

Message	Explanation
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications DNS 支持的可配 VRF 个数超过上限，请检查配置或者设备规格

Maximum number of DNS servers already reached. 可配域名服务器个数超过上限。	Maximum number of DNS servers already reached. . Please check configuration or specifications 可配域名服务器个数超过上限，请检查配置或者设备规格
Failed to specify the DNS server. 指定域名服务器失败。	Failed to specify the DNS server. Please modify configuration under guidance. 指定域名服务器失败，请按照配置说明修改
An output interface must be specified when the IPv6 address of the DNS server is a link-local address. 需要为一个链路本地地址指定一个报文出接口。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改.
An output interface is not configurable when the IPv6 address of the DNS server is a global unicast address. 不需要为一个全局单播地址指定一个报文出接口。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改.
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的 IPv6 地址。
Failed to specify the IPv6 DNS server. 指定IPv6域名服务器失败。	Failed to specify the IPv6 DNS server. Please modify configuration under guidance. 指定 IPv6 域名服务器失败, please modify configuration under guidance。
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
An output interface is not configurable when you specify a DNS server by its IPv4 address. 不需要为一个IPv4地址指定一个报文出接口。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改

DNS/DNSDomain

Message	Explanation
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications. DNS 支持的可配 VRF 个数超过上限，请检查配置或者设备规格
Invalid domain name suffix. 无效的域名后缀。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
Failed to create the domain name suffix. 创建域名后缀失败。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
Maximum number of domain name suffixes already reached.	Maximum number of domain name suffixes already reached. Please check configuration or specifications.

可配域名后缀个数超过上限。	可配域名后缀个数超过上限, , 请检查配置或者设备规格

DNS/DNSConfig

Message	Explanation
Failed to enable DNS proxy. 使能DNS代理功能失败。	Failed to enable DNS proxy. Please modify configuration under guidance. 使能 DNS 代理功能失败, 无效配置，请按照配置说明修改
Failed to enable DNS snooping logging function. 开启DNS Snooping日志功能失败。	Failed to enable DNS snooping logging function. Please modify configuration under guidance. 开启 DNS Snooping 日志功能失败，请按照配置说明修改
Failed to specify DNS snooping limit rate. 开启DNS Snooping的报文限速功能失败。	Failed to specify snooping limit rate. Please check device's specifications. 开启 DNS Snooping 的报文限速功能失败,请检查设备规格。
The value is out of range. 配置的参数超出范围。	The value is out of range. Please modify configuration under guidance. 参数超出范围，请按照配置说明修改
Failed to enable DNS transparent proxy. 使能DNS透明代理功能失败。	Failed to enable DNS transparent proxy, please modify configuration under guidance. 使能 DNS 透明代理功能失败,请按照配置说明修改
Failed to enable DNS cache. 开启DNS Cache功能失败。	Failed to enable DNS cache. Please modify configuration under guidance. 开启 DNS Cache 功能失败，请按照配置说明修改
Failed to enable DNS fast reply. 开启DNS快速应答功能失败。	Failed to enable DNS fast reply. Please modify configuration under guidance. 开启 DNS 快速应答功能失败，请按照配置说明修改
Failed to enable DNS redirect. 开启DNS重定向功能失败。	Failed to enable DNS redirect. Please modify configuration under guidance. 开启 DNS 重定向功能失败，请按照配置说明修改
Operation failed. The transparent proxy and fast reply functions cannot be configured at the same time. 操作失败。不能同时配置透明代理功能和快速应答功能。	Operation failed. The transparent proxy and fast reply functions cannot be configured at the same time. Please modify configuration under guidance. 操作失败。不能同时配置透明代理功能和快速应答功能，请按照配置说明修改
操作失败。透明代理和snooping不能同时配置。 Operation failed. The transparent proxy and snooping cannot be configured at the same time.	Operation failed. The transparent proxy and snooping cannot be configured at the same time. Please modify configuration under guidance. 操作失败。透明代理和 snooping 不能同时配置，请按照配置说明修改
操作失败。DNS缓存的TTL的最大值不能小于DNS缓存的TTL的最小值。 Operation failed. The maximum TTL of dns cache can not be less than the minimum TTL of dns cache.	Operation failed. The maximum TTL of dns cache can not be less than the minimum TTL of dns cache. Please modify configuration under guidance. 操作失败。DNS 缓存的 TTL 的最大值不能小于 DNS 缓存的 TTL 的最小值，请按照配置说明修改

DNS/DNSHostAge

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid host name. 非法的域名。	Invalid host name. 非法的域名。
Maximum number of host name aging timers already reached. DNS支持可配置的域名老化时间个数超过上限。	Maximum number of host name aging timers already reached. Please check configuration or specifications DNS 支持可配置的域名老化时间个数超过上限。请检查配置或者设备规格。
Failed to create an aging timer for host name. 为域名创建老化时间失败。	Failed to create an aging timer for host names. Please modify configuration under guidance. 为域名创建老化时间失败，请按照配置说明修改。

DNS/DNSServerGroup

Message	Explanation
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications DNS支持的可配VRF个数超过上限，请检查配置或者设备规格
Maximum number of DSN servers already reached. 可配域名服务器个数超过上限。	Maximum number of DNS servers already reached. Please check configuration or specifications 可配域名服务器个数超过上限，请检查配置或者设备规格
Failed to specify the DNS server. 指定域名服务器失败。	Failed to specify the DNS server. Please modify configuration under guidance. 指定域名服务器失败，请按照配置说明修改
Invalid IPv4 address. 非法的IPv4地址。	Invalid IPv4 address. 非法的 IPv4 地址。
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的 IPv6 地址。
An output interface is not configurable when you specify a DNS server by its IPv4 address. 不需要为一个IPv4地址指定一个报文出接口。	When you issue an IPv4 address, you cannot specify an interface for it. 当你下发一个 IPv4 地址时不可以为它指定出接口。
An output interface is not configurable when the IPv6 address of the DNS server is a global unicast address. 不需要为一个全局单播地址指定一个报文出接口。	Unable to configure the output interface when the IPv6 address of the DNS server is a global unicast address. 当 DNS 服务器的 IPv6 地址是全局单播地址时，无法配置输出接口。

An output interface must be specified when the IPv6 address of the DNS server is a link-local address. 需要为一个链路本地地址指定一个报文出接口。	When the IPv6 address of the DNS server is the local link address, the packet output interface needs to be configured. 当 DNS 服务器的 IPv6 地址是本地链路地址时，需要配置报文出接口。
No VRF can be specified when a DNS server group is deleted. 删除域名服务器组时不能指定VRF。	No VRF can be specified when a DNS server group is deleted, and the VRF attribute column cannot be deleted. 删除域名服务器组时不能指定 VRF，且 VRF 属性列不支持删除。

DNS/DNSGroupServer

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	Invalid IPv4 address. 非法的 IPv4 地址。
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的 IPv6 地址。
An output interface is not configurable when you specify a DNS server by its IPv4 address. 不需要为一个IPv4地址指定一个报文出接口。	When you issue an IPv4 address, you cannot specify an interface for it. 当你下发一个 IPv4 地址时不可以为它指定出接口。
An output interface is not configurable when the IPv6 address of the DNS server is a global unicast address. 不需要为一个全局单播地址指定一个报文出接口。	Unable to configure the output interface when the IPv6 address of the DNS server is a global unicast address. 当 DNS 服务器的 IPv6 地址是全局单播地址时，无法配置输出接口。
An output interface must be specified when the IPv6 address of the DNS server is a link-local address. 需要为一个链路本地地址指定一个报文出接口。	When the IPv6 address of the DNS server is the local link address, the packet output interface needs to be configured. 当 DNS 服务器的 IPv6 地址是本地链路地址时，需要配置报文出接口。

DNS/DNSDomainRule

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid host name. 非法的主机名。	Invalid host name. 非法的主机名。
This domain rule has already been bound to another server group. 本条域名规则已经被其他的服务器组绑定。	The same domain rule cannot be bound to different server groups. 同一条域名规则不可以被不同的服务器组绑定。

This configuration has already been bound to another vpn. 当前配置已经绑定了其他的vpn。	The same domain name rule cannot be bound to different VRFs. 同一条域名规则不可以被不同的 VRF 绑定
Maximum number of domain-names already reached. 已经达到可配置的最大域名。	Maximum number of domain-names already reached. Please check the configuration or device specifications. 可配置的域名个数超过上限，请检查配置或者设备规格。
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications. DNS 支持的可配 VRF 个数超过上限，请检查配置或者设备规格。
Failed to create the domain rule. 创建域名规则失效。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改

DNS/DNSDomainRuleExt

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid host name. 非法的主机名。	Invalid host name. 非法的主机名。
This domain rule has already been bound to another server group. 本条域名规则已经被其他的服务器组绑定。	The same domain rule cannot be bound by different server groups. 同一条域名规则不可以被不同的服务器组绑定。
This configuration has already been bound to another VRF. 当前配置已经绑定了其他的vpn。	The same domain name rule cannot be bound to different VRFs. 同一条域名规则不可以被不同的 VRF 绑定
Maximum number of domain-names already reached. 已经达到可配置的最大域名。	Maximum number of domain-names already reached. Please check the configuration or device specifications. 可配置的域名个数超过上限，请检查配置或者设备规格。
Maximum number of VRFs already reached. DNS支持的可配VRF个数超过上限。	Maximum number of VRFs already reached. Please check configuration or specifications. DNS 支持的可配 VRF 个数超过上限，请检查配置或者设备规格。
Failed to create the domain rule. 创建域名规则失效。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改

Contents

DNS host event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2

DNS host event

This event is used to report dns host information when the address of dns is changed.

XML structure for event subscription

```
<DNSEvent>
  <DNSHost>
      <VRF></VRF>
      <HostName></HostName>
      <HostNameType></HostNameType>
      <QueryType></QueryType>
  </DNSHost>
</DNSEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DNSHost</stream>
    <filter type="subtree">
      <DNSEvent xmlns="http://www.h3c.com/netconf/event:1.0/DNSHost:1.0">
        <DNSHost>
          <VRF></VRF>
          <HostName>baidu.com</HostName>
          <HostNameType>2</HostNameType>
          <QueryType>1</QueryType>
        </DNSHost>
      </DNSEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DNSHost
Event name	DNSEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DNSEvent:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
VRF	VRF instance name	String, case sensitive. Length: 1 to 31 characters.	No

HostName	Host name	String, case insensitive. Length: 1 to 253 characters.	NO
HostNameType	Host name type	Enumeration: • **1**—Full host name. • **2**—Sub host name	NO
QueryType	Query type	Enumeration: • **1**—A. • **2**—AAAA.	NO

XML structure for event report

```
<DNSEvent>
  <DNSHost>
    <HostName></HostName>
    <HostNameType></HostNameType>
    <QueryType></QueryType>
    <Result></Result>
    <HostEvent></HostEvent>
  </DNSHost>
</DNSEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <DNSEvent xmlns="http://www.h3c.com/netconf/event:1.0/DNSEvent:1.0">
    <DNSHost>
      <HostName>baidu.com</HostName>
      <HostNameType>2</HostNameType>
      <QueryType>1</QueryType>
      <Result>1.1.1.1 2.2.2.2</Result>
      <HostEvent>2</HostEvent>
    </DNSHost>
  </DNSEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
HostName	Host name	String, case insensitive. Length: 1 to 253 characters.	NO
HostNameType	Host name type	Enumeration: • **1**—Full host name. • **2**—Sub host name	NO

Column name	Column description	Data type and restrictions	Support for extended queries
QueryType	Query type	Enumeration: • **1**—A. • **2**—AAAA.	NO
Result	Replied result	String, case insensitive.	IPv4 address string as QueryType is A, IPv6 address string as QueryType is AAAA. Result is null as full host is deleted. Separated by space if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3. 1::1 2::2 3::3.
HostEvent	Host event type	Enumeration: • **1**—Update. • **2**—Add • **3**—Delete	Host event can be 1，if host name type equals 1. Host event can be 2,3，if host name type equals 2.

Contents

Domain 1
Domain/Domains 1
XML structure 1
Table description 1
Columns 1
Domain/ResetUserRecords 1
XML structure 1
Table description 2
Columns 2
Domain/ActiveWebServers 2
XML structure 2
Table description 3
Columns 3

Domain

Domain/Domains

Domain status table.

XML structure

```
<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <State></State>
    </Domain>
  </Domains>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters.
State	Status of the domain	N/A	Enumeration: • **0**—Block. • **1**—Active.

Domain/ResetUserRecords

This table clears user online or offline records.

XML structure

```
<Domain>
```

```
  <ResetUserRecords>
      <RecordType></RecordType>
  </ResetUserRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	ResetUserRecords
Table type	Single-instance table
Row name	ResetUserRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecordType	Type of user records to be cleared	Index	Enumeration: • **0**—Abnormal offline records. • **1**—Normal offline records. • **2**—Offline records. • **3**—Online failure records.

Domain/ActiveWebServers

This table sets active web servers.

XML structure

```
<Domain>
  <ActiveWebServers>
    <ActiveWebServer>
      <DomainName></DomainName>
      <ActiveServer></ActiveServer>
      <ActiveIpv6Server></ActiveIpv6Server>
    </ActiveWebServer>
  </ActiveWebServers>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	ActiveWebServers
Table type	Multi-instance table
Row name	ActiveWebServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DomainName	Domain name	Index	String, case-insensitive. • Length: 1 to 255 characters.
ActiveServer	Active IPv4 Web server	N/A	Enumeration: • **0**—None. • **1**—Primary. • **2**—Secondary.
ActiveIpv6Server	Active IPv6 Web server	N/A	Enumeration: • **0**—None. • **1**—Primary. • **2**—Secondary.

Contents

Domain 1

Domain/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
Domain/SessionLimit 2
XML structure 2
Table description 2
Columns 2
Domain/Domains 3
XML structure 3
Table description 6
Columns 6
Domain/Schemes 15
XML structure 15
Table description 16
Columns 16
Domain/BroadcastSchemes 19
XML structure 19
Table description 19
Columns 19
Domain/EnableAbnormalOfflineRecords 20
XML structure 20
Table description 20
Columns 20
Domain/EnableNormalOfflineRecords 20
XML structure 20
Table description 21
Columns 21
Domain/EnableOfflineRecords 21
XML structure 21
Table description 21
Columns 22
Domain/EnableOnlineFailRecords 22
XML structure 22
Table description 22
Columns 22
Domain/CriticalProfiles 23
XML structure 23
Table description 23
Columns 23
Domain/CriticalProfileVRFs 24
XML structure 24
Table description 24
Columns 25
Domain/Interfaces 25
XML structure 25
Table description 26
Columns 26
Domain/AuthorProfiles 26
XML structure 26
Table description 27
Columns 27
Domain/AuthorProfileVRFs 27
XML structure 27
Table description 28
Columns 28

Domain

Domain/GlobalConfig

Global domain configuration information table.

XML structure

```
<Domain>
  <GlobalConfig>
    <DefaultDomain></DefaultDomain>
    <IfUnknownDomain></IfUnknownDomain>
    <DeviceId></DeviceId>
  </GlobalConfig>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	A maximum of 1024 domains can be created.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultDomain	Default domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	By default, the default domain is the predefined domain named system.
IfUnknownDomain	ISP domain that accommodates users assigned to nonexistent domains	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
DeviceId	Device ID of the access device	N/A	Unsigned integer. Value range: 1 to 255.	Default: 0.

Domain/SessionLimit

The maximum number of concurrent users that can log on to the device through the specified method.

XML structure

```
<Domain>
  <SessionLimit>
    <Ftp></Ftp>
    <Telnet></Telnet>
    <Http></Http>
    <Ssh></Ssh>
    <Https></Https>
    <Snetconf></Snetconf>
    <Scp></Scp>
    <Sftp></Sftp>
    <Stelnet></Stelnet>
  </SessionLimit>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	SessionLimit
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ftp	Maximum number of concurrent FTP users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. • In non-FIPS mode, the value for this column can take effect. • In FIPS mode, this column is ignored.
Telnet	Maximum number of concurrent Telnet users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32. • In non-FIPS mode, the value for this column can take

Column name	Column description	Column type	Data type and restrictions	Remarks
				effect. • In FIPS mode, this column is ignored.
Http	Maximum number of concurrent HTTP users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. • In non-FIPS mode, the value for this column can take effect. • In FIPS mode, this column is ignored.
Ssh	Maximum number of concurrent SSH users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Https	Maximum number of concurrent HTTPS users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32.
Snetconf	Maximum number of concurrent NETCONF over SSH users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Scp	Maximum number of concurrent SCP users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Sftp	Maximum number of concurrent SFTP users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Stelnet	Maximum number of concurrent Stelnet users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.

Domain/Domains

Basic domain information table.

XML structure

```
<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <SessTimeIncldeIdle></SessTimeIncldeIdle>
      <AcctStartDelayTime></AcctStartDelayTime>
      <AcctStartFailAction></AcctStartFailAction>
      <AcctUpdateFail>
```

```
  <MaxTimes></MaxTimes>
  <AcctUpdateFailAction></AcctUpdateFailAction>
</AcctUpdateFail>
<AuthenFailOnlineDomain></AuthenFailOnlineDomain>
<AuthenRadiusRecover>
  <Action></Action>
  <RecoverDomainName></RecoverDomainName>
</AuthenRadiusRecover>
<AuthenRadiusUnavailableDomain></AuthenRadiusUnavailableDomain>
<ServiceType></ServiceType>
<AccessLimit></AccessLimit>
<UserAddrType></UserAddrType>
<BasicServiceIpType></BasicServiceIpType>
<TimeoutDelaytime></TimeoutDelaytime>
<AuthorAttrs>
  <AclNumber></AclNumber>
  <InboundCIR></InboundCIR>
  <InboundPIR></InboundPIR>
  <OutboundCIR></OutboundCIR>
  <OutboundPIR></OutboundPIR>
  <IdleTime></IdleTime>
  <IdleFlow></IdleFlow>
  <ProfileName></ProfileName>
  <IpPoolName></IpPoolName>
  <Ipv4PoolGroupName></Ipv4PoolGroupName>
  <Ipv6PoolName></Ipv6PoolName>
  <Ipv6PoolGroupName></Ipv6PoolGroupName>
  <IpPoolName></IpPoolName>
  <Ipv6PoolName></Ipv6PoolName>
  <Ipv6Address></Ipv6Address>
  <Ipv6PrefixLength></Ipv6PrefixLength>
  <Ipv6NdPrefixPoolName></Ipv6NdPrefixPoolName>
  <PrimDnsIpaddr></PrimDnsIpaddr>
  <PrimDnsIpv6addr></PrimDnsIpv6addr>
  <SecDnsIpaddr></SecDnsIpaddr>
  <SecDnsIpv6addr></SecDnsIpv6addr>
  <PortalUrl></PortalUrl>
  <Unlimited></Unlimited>
  <RedirectTimes></RedirectTimes>
  <VRF></VRF>
  <IgmpMaxAccessNum></IgmpMaxAccessNum>
  <MldMaxAccessNum></MldMaxAccessNum>
  <SessGroupProfileName></SessGroupProfileName>
  <SessTimeOut></SessTimeOut>
  <InboundUserPriority></InboundUserPriority>
  <OutboundUserPriority></OutboundUserPriority>
  <UserGroupName></UserGroupName>
  <VsiName></VsiName>
```

```
  <VlanID></VlanID>
  <MicroSegmentID></MicroSegmentID>
  <AuthorProfile></AuthorProfile>
</AuthorAttrs>
<ItaPolicyName></ItaPolicyName>
<Ipv6InterfaceID></Ipv6InterfaceID>
<RedirectActiveTime></RedirectActiveTime>
<RedirectMoveTemporary></RedirectMoveTemporary>
<RedirectSerIpaddr></RedirectSerIpaddr>
<RedirectSerIpv6addr></RedirectSerIpv6addr>
<ServiceRateLimitMode></ServiceRateLimitMode>
<WebServerIpaddr></WebServerIpaddr>
<WebServerIpv6addr></WebServerIpv6addr>
<SecWebServerIpaddr></SecWebServerIpaddr>
<SecWebServerIpv6addr></SecWebServerIpv6addr>
<WebServerUrl></WebServerUrl>
<WebServerTrackId></WebServerTrackId>
<WebServerIpv6Url></WebServerIpv6Url>
<WebServerIpv6TrackId></WebServerIpv6TrackId>
<SecUrlWebServerIpaddr></SecUrlWebServerIpaddr>
<SecUrlWebServerIpv6addr></SecUrlWebServerIpv6addr>
<SecUrlSecWebServerIpaddr></SecUrlSecWebServerIpaddr>
<SecUrlSecWebServerIpv6addr></SecUrlSecWebServerIpv6addr>
<SecWebServerUrl></SecWebServerUrl>
<SecWebServerTrackId></SecWebServerTrackId>
<SecWebServerIpv6Url></SecWebServerIpv6Url>
<SecWebServerIpv6TrackId></SecWebServerIpv6TrackId>
<NasIdName></NasIdName>
<AcctQuotaOut>
  <Action></Action>
  <RedirectUrl></RedirectUrl>
  <StopAcct></StopAcct>
  <UserProfileName></UserProfileName>
  <NoAcctUpdate></NoAcctUpdate>
</AcctQuotaOut>
<AcctDualStack></AcctDualStack>
<UserAutoSave></UserAutoSave>
<CheckInterfaceVPN></CheckInterfaceVPN>
<DynamicAuthorEffectiveAttrs>
  <Car></Car>
  <SessGroupProfile></SessGroupProfile>
  <SessTimeOut></SessTimeOut>
  <Url></Url>
  <UserGroup></UserGroup>
  <UserPriority></UserPriority>
  <UserProfile></UserProfile>
  <WebServer></WebServer>
</DynamicAuthorEffectiveAttrs>
```

```
    </Domain>
  </Domains>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	A maximum of 1024 domains can be created. The domain named system is predefined and can't be deleted.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	A predefined domain named system exists.
SessTimeIncludeIdle	Whether to include the idle cut period or user online detection period in the user online duration to be sent to the server	N/A	Boolean: • **true**—The idle cut period or user online detection period is included in the user online duration to be sent to the server. • **false**—The idle cut period or **user** online detection period is excluded from the user online duration to be sent to the server.	Default: false. Only portal users support the user online detection period.
AcctStartDelayTime	Delay time for sending accounting-start request message.	N/A	Unsigned integer. Value range: 1 to 300, in seconds.	N/A
AcctStartFailAction	Access control for users that encounter accounting-start failures	N/A	Enumeration: • **0—**Allows the users to stay online. • **1—**Logs off the users.	Default: 0.
AcctUpdateFail	Configuration for users that encounter accounting-updat	Data structure	Members include: • MaxTimes. • AcctUpdateFailAction.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	e failures			
MaxTimes	Maximum number of consecutive accounting-update failures allowed for each user	N/A	Unsigned integer. Value range: 1 to 255.	Default: 1.
AuthenFailOnlineDomain	ISP domain name for auth-fail online	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
AuthenRadiusRecover	Access control for fail-permit users when a RADIUS authentication server recovers	Data structure	Members include: • Action. • RecoverDomainName	N/A
Action	Action to take on the fail-permit users when a RADIUS authentication server recovers	N/A	Enumeration: • **0**—Allows the users to stay online for reauthentication in a new ISP domain. • **1**—Logs off the users. • **2**—reauth.	N/A
RecoverDomainName	Name of the new ISP domain for the fail-permit users after a RADIUS authentication server recovers	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	RecoverDomain must be set to the same as to DomainName
AuthenRadiusUnavailableDomain	Name of the fail-permit domain for reauthenticating users in this ISP domain when all RADIUS servers in this ISP domain become unavailable	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	N/A
AcctUpdateFailAction	Access control for users that encounter accounting-update failures	N/A	Enumeration: • **0**—Allows the users to stay online. • **1**—Logs off the users.	Default: 0.
ServiceType	Service type of the domain	N/A	Enumeration: • **0**—High-Speed Internet (HSI) service. • **1**—Set Top Box (STB) service. • **2**—Voice over IP (VoIP) service.	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessLimit	Maximum number of concurrent access users	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
UserAddrType	User address type of the domain	N/A	Enumeration: • 0—public-ipv4. • 1—private-ipv4. • 2—public-ds. • 3—private-ds. • 4—ds-lite. • 5—ipv6. • 6—nat64.	N/A
BasicServiceIpType	Basic service IP type	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—IPv4-IPv6. • **4**—IPv6-PD. • **5**—IPv4-IPv6PD. • **6**— IPv6-IPv6PD • **7**— IPv4-IPv6-IPv6PD	N/A
TimeoutDelay time	DHCPv6 request timeout timer	N/A	Unsigned integer. Value range: 30 to 1000, in seconds.	Default: 60 seconds .
AuthorAttrs	Authorization attributes	Data structure	Members include: • AclNumber. • InboundCIR. • InboundPIR. • OutboundCIR. • OutboundPIR. • IdleTime. • IdleFlow. • TrafficDirection. • ProfileName. • IpPoolName. • Ipv4PoolGroupName. • Ipv6PoolName. • Ipv6PoolGroupName • Ipv6Address. • Ipv6PrefixLength. • Ipv6NdPrefixPoolName. • PrimDnsIpaddr. • PrimDnsIpv6addr. • SecDnsIpaddr. • SecDnsIpv6addr. • PortalUrl. • Unlimited. • RedirectTimes • VRF. • IgmpMaxAccessNum.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• MldMaxAccessNum. • SessGroupProfileName. • SessTimeOut. • InboundUserPriority • OutboundUserPriority • UserGroupName • VRF. • IgmpMaxAccessNum. • MldMaxAccessNum. • SessTimeOut. • VsiName. • VlanID. • MicroSegmentID. • AuthorProfile.	
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
InboundCIR	Input information rate and committed information rate	N/A	Unsigned integer.	The InboundCIR, InboundPIR, OutboundCIR, and OutboundPIR columns are strongly correlated. The value for the InboundCIR column must be smaller than or equal to the value for the InboundPIR column. The InboundCIR and OutboundCIR columns must be issued in pairs.
InboundPIR	Input information rate and peak information rate	N/A	Unsigned integer.	N/A
OutboundCIR	Output information rate and committed information rate	N/A	Unsigned integer.	The value for the OutboundCIR column must be smaller than or equal to the value for the OutboundPIR column. The InboundCIR and OutboundCIR columns must be issued in pairs.
OutboundPIR	Output information rate and peak information rate	N/A	Unsigned integer.	N/A
IdleTime	Idle timeout period	N/A	Unsigned integer. Value range: 1 to 129600, in minutes.	N/A
IdleFlow	The minimum traffic that must be generated in	N/A	Unsigned integer. Value range: 1 to 10240000, in	Default: 10240 bytes.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the idle timeout period		bytes.	
TrafficDirection	The traffic direction for idle cut	N/A	Enumeration: • **0**—both. • **1**—inbound • **2**—outbound	Default: 0.
ProfileName	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid characters include letters, digits, minus signs (-), dots (.), and underscores (_). The name must start with a letter or a digit, and it cannot be all digits.
IpPoolName	IPv4 address pool name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Ipv4PoolGroupName	IPv4 address pool group name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6PoolName	IPv6 address pool name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6PoolGroupName	IPv6 address pool group name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address for specifying the prefix	N/A	Hexadecimal string, colon-separated.	For example, `2001:12::22:33`.
Ipv6PrefixLength	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6NdPrefixPoolName	IPv6 ND prefix pool name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
PrimDnsIpaddr	IPv4 address of the primary DNS server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
PrimDnsIpv6addr	IPv6 address of the primary DNS server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecDnsIpaddr	IPv4 address of the secondary DNS server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecDnsIpv6addr	IPv6 address of the secondary DNS server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
PortalUrl	Portal redirect URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
Unlimited	Do not limit the times to redirect each user	N/A	Boolean: • **true**—Enable. • **false**—Disable.(default)	The specific times are specificed by the RedirectTimes parameter,if Unlimited

Column name	Column description	Column type	Data type and restrictions	Remarks
				is false the redirect time default 2.
RedirectTimes	Maximum number of redirects	N/A	Unsigned integer. Value range: 1 to 10.	N/A
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
IgmpMaxAccessNum	The maximum number of IGMP groups that an IPv4 user can join concurrently	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
MldMaxAccessNum	The maximum number of MLD groups that an IPv6 user can join concurrently	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
SessGroupProfileName	Session group profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SessTimeOut	Session timeout timer	N/A	Unsigned integer. Value range: 1 to 4294967295.	Users are logged off when the session timeout timer expires for the users.
InboundUserPriority	Inbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
OutboundUserPriority	Outbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
UserGroupName	User group name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VsiName	Vsi Name	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
VlanID	Vlan ID	N/A	Unsigned integer. Value range: 1 to 4094	N/A
MicroSegmentID	Microsegment ID	N/A	Unsigned interger. Value range: 1 to 65535	N/A
AuthorProfile	AuthorProfile	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
ItaPolicyName	ITA policy name	N/A	String, not case-insensitive. Length: 1 to 31 characters.	Specifies the ITA service policy adopted by the current ISP domain.
Ipv6InterfaceID	Assign interface IDs to PPP users during IPv6CP negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	When IPv6CP negotiation is configured, the device forcibly assigns an interface ID to a PPP user. It does not accept non-zero and

Column name	Column description	Column type	Data type and restrictions	Remarks
				non-conflicting interface IDs carried in user packets.
RedirectActiveTime	Redirect URL active period	N/A	Unsigned integer. Value range: 1 to 900.	N/A
RedirectMoveTemporary	Enable the temporary redirect feature	N/A	Boolean: • —**true**—Enable. • —**false**—Disable.	Default: false
RedirectSerIpaddr	IPv4 address of the Web server that owns the redirect URL	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
RedirectSerIpv6addr	IPv6 address of the Web server that owns the redirect URL	N/A	IPv6: Hexadecimal string.	IPv6 example: `1:12::22:33`.
ServiceRateLimitMode	The rate limit mode for EDSG services	N/A	Enumeration: • **0**—separate. • **1**—merge.	Default:separate.
WebServerIpaddr	IPv4 address of the Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
WebServerIpv6addr	IPv6 address of the Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecWebServerIpaddr	IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecWebServerIpv6addr	IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
WebServerUrl	The Web server URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified URL does not start with http:// or https://, the system considers that the URL starts with http://.
WebServerTrackId	Track ID for the IPv4 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	This column and the WebServerUrl column must be specified in pairs.
WebServer Ipv6Url	Web server IPv6 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv6 URL does not start with http:// or https://, the system considers that the IPv6 URL starts with http://.
WebServerIpv6TrackId	Track ID for the IPv6 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	This column and the WebServerIpv6Url column must be

Column name	Column description	Column type	Data type and restrictions	Remarks
				specified in pairs.
SecUrlWebServerIpaddr	IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecUrlWebServerIpv6addr	IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecUrlSecWebServerIpaddr	Secondary IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecUrlSecWebServerIpv6addr	Secondary IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecWebServerUrl	Secondary Web server IPv4 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv4 URL does not start with http:// or https://, the system considers that the IPv4 URL starts with http://.
SecWebServerTrackId	Track ID for the secondary IPv4 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	This column and the SecWebServerUrl column must be specified in pairs.
SecWebServerIpv6Url	Secondary Web server IPv6 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv6 URL does not start with http:// or https://, the system considers that the IPv6 URL starts with http://.
SecWebServerIpv6TrackId	Track ID for the secondary IPv6 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	This column and the SecWebServerIpv6Url column must be specified in pairs.
NasIdName	NAS ID	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
AcctQuotaOut	Configuration for users that encounter accounting quota-out	Data structure	Members include: • Action. • RedirectUrl • StopAcct • UserProfileName • NoAcctUpdate	N/A
Action	Access control for users that encounter accounting quota-out	N/A	Enumeration: • **0**—online. • **1**—offline. • **2**—redirect-url.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
RedirectUrl	Portal redirect URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
StopAcct	Send stop charging message	N/A	Boolean: • false—Do not send stop charging message. • true—Send stop charging message.	Default: false.
UserProfileName	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
NoAcctUpdate	Do not send accounting update packets to obtain new quotas	N/A	Boolean: • false—Send accounting update packets to obtain new quotas. • true—Do not send accounting update packets to obtain new quotas.	Default: false.
AcctDualStack	Accounting scheme for dual-stack	N/A	Enumeration: • **0**—separate. • **1**—merge.	Default: 1.
UserAutoSave	Whether to enable automatic backup of user information	N/A	Boolean: • **true**—Enable automatic backup of access user information. • **false**—Disable automatic backup of access user information.	Default: true.Transfer control separation environment not supported
CheckInterfaceVPN	Whether to enable strict check for VPN instances associated with the access interfaces	N/A	Boolean: • **true**—Enable strict check for VPN instances associated with the access interfaces. • **false**—Disable strict check for VPN instances associated with the access interfaces.	N/A
DynamicAuthorEffectiveAttrs	Dynamically assigned attributes that will take effect on a user after the user is assigned to this ISP domain from another ISP domain	Data structure	Members include: • Car. • SessGroupProfile. • SessTimeOut.. • Url. • UserPriority. • UserGroup. • UserProfile. • WebServer	N/A
Car	Whether to assign the CAR attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
SessGroupPr	Whether to	N/A	Boolean:	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
ofile	assign the session group profile atttribute through CoA messages		• true. • false.	
SessTimeOut	Whether to assign the session timeout time atttribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
Url	Whether to assign the redirect URL atttribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
UserGroup	Whether to assign the user group attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
UserPriority	Whether to assign the user priority attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
UserProfile	Whether to assign the user profile attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
WebServer	Whether to assign the Web server attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.

Domain/Schemes

Domain scheme table.

XML structure

```
<Domain>
  <Schemes>
    <Scheme>
      <DomainName></DomainName>
      <AaaType></AaaType>
      <AccessType></AccessType>
      <SchemeList></SchemeList>
      <SchemeNameList></SchemeNameList>
```

```
    </Scheme>
  </Schemes>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
AaaType	AAA type	Index	Enumeration: • **0**—Authentication. • **4**—Authorization. • **5**—Accounting.	There are some restrictions among the column AccessType, the column AaaType, and the column SchemeList. Those restrictions will be described in the Restrictions section below the table.
AccessType	Access type	Index	Enumeration: • **0**—Login. • **1**—Super. • **2**—Command. • **3**—LAN access. • **4**—PPP. • **5**—Default. • **6**—Portal. • **7**—IKE. • **8**—IPoE. • **9**—SSL VPN. • **10**—ADVPN. • **11**—ONU. • **12**—PPPoEA	
SchemeList	AAA method types	N/A	String. Length: 1 to 9 characters, using the format of 1-2-4. The hyphen (-) is used to separate the digits that represent different AAA methods, including: • **1**—HWTACACS.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—RADIUS. • **3**—LDAP. • **4**—Local. • **5**—None. The string 1-2-4 indicates that HWTACACS is specified as the primary authentication, authorization, or accounting method. If the HWTACACS method fails, the RADIUS method applies. If the RADIUS method fails, the local method applies.	
SchemeNameList	Scheme name list	N/A	String, case-insensitive. Length: 0 to 68 characters, may contain 0 to 2 scheme names. Every scheme name contains two parts: Scheme name length and scheme name string. The scheme name is in the format of xxmm……mm. • The xx argument represents the scheme name length. Use two digits to set the scheme name length. • The mm……mm argument represents the scheme name string. The string is 1 to 32 characters. For example: • The string 08abcdefgh represents a scheme whose name is abcdefgh and whose name length is 8 characters. • The string 10testtestte04test represents two schemes. One scheme is named as testtestte and the name length is 10 characters. The other scheme is named as test and the name length is 4 characters.	If this column is not available, no schemes are specified.

Restrictions:

- The letter Y indicates that a specific access type supports a specific method for authentication, authorization, or accounting.
- You can specify one primary method and multiple backup methods for authentication, authorization, or accounting. An AAA method with a lower level can be the backup of another

method that has a higher level. The following list arranges the methods from high level to low level:

- RADIUS, TACACS, and LDAP.
- Local.
- None.

Among the highest-level methods, the RADIUS method and TACACS method can be the backup of each other.

- In FIPS mode, all access types can't use the none method for authentication, authorization, or accounting.

AAA method (level) / Access type +AAA type		RADIUS (3)	TACACS (3)	LDAP (3)	Local (2)	None (1)
Default	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Login	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Super	Authentication	Y	Y			
Command	Authorization		Y		Y	Y
	Accounting		Y			
LAN access (MAC authentication or 802.1X)	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
PPP	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y	Y	Y	Y
	Accounting	Y	Y		Y	Y
Portal	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
IKE	Authentication	Y			Y	Y
IPoE	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
SSL VPN	Authentication	Y		Y	Y	Y
	Authorization	Y		Y	Y	Y
	Accounting	Y			Y	Y
ADVPN	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y

ONU	Authentication	Y			Y	Y
PPPoEA	Accounting	Y				Y

Domain/BroadcastSchemes

RADIUS broadcast scheme table for a domain.

XML structure

```
<Domain>
  <BroadcastSchemes>
    <BroadcastScheme>
      <DomainName></DomainName>
      <AccessType></AccessType>
      <SchemeName></SchemeName>
    </BroadcastScheme>
  </BroadcastSchemes>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	BroadcastSchemes
Table type	Multi-instance table
Row name	BroadcastScheme
Restrictions	Configure this table only for domains that have been configured RADIUS accounting.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The name can't contain the following characters: \ | / : * ? " < > @	N/A
AccessType	Access type	Index	Enumeration: • **3**—LAN access. • **4**—PPP. • **6**—Portal. • **8**—IPoE.	At present, only one RADIUS broadcast scheme is supported for a domain.

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String. Length: 1 to 32 characters.	

Domain/EnableAbnormalOfflineRecords

This table controls the enabling status of the user abnormal offline recording feature.

XML structure

```
<Domain>
  <EnableAbnormalOfflineRecords>
    <Enable></Enable>
  </EnableAbnormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableAbnormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the user abnormal offline recording feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The default varies by device model.

Domain/EnableNormalOfflineRecords

This table controls the enabling status of the user normal offline recording feature.

XML structure

```
<Domain>
```

```
  <EnableNormalOfflineRecords>
    <Enable></Enable>
  </EnableNormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableNormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the user normal offline recording feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The default varies by device model.

Domain/EnableOfflineRecords

This table controls the enabling status of the user offline recording feature.

XML structure

```
<Domain>
  <EnableOfflineRecords>
    <Enable></Enable>
  </EnableOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOfflineRecords
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the user offline recording feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The default varies by device model.

Domain/EnableOnlineFailRecords

This table controls the enabling status of the user online failure recording feature.

XML structure

```
<Domain>
  <EnableOnlineFailRecords>
    <Enable></Enable>
  </EnableOnlineFailRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOnlineFailRecords
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the user online failure recording feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The default varies by device model.

Domain/CriticalProfiles

This table contains critical profile information.

XML structure

```
<Domain>
  <CriticalProfiles>
    <CriticalProfile>
      <ProfileName></ProfileName>
      <DefaultMicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </DefaultMicroSegment>
    </CriticalProfile>
  </CriticalProfiles>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	CriticalProfiles
Table type	Multi-instance table
Row name	CriticalProfile
Restrictions	A maximum of 16 critical profiles can be created.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Critical profile name	Index	String. Length: 1 to 31 characters.	N/A
DefaultMicroSegment	Default critical microsegment for users that have failed 802.1X or MAC authentication because of unreachable servers	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	If a user does not match any critical microsegment in the critical profile when it fails authentication because of unreachable servers, the user is assigned to the default critical microsegment.

Column name	Column description	Column type	Data type and restrictions	Remarks
MicroSegmentID	ID of the default critical microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the critical microsegment on the port	N/A	Enumeration: • **0**—Keeps the users online (default). • **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Domain/CriticalProfileVRFs

This table contains critical microsegment and VPN instance mapping information in critical profiles.

XML structure

```
<Domain>
  <CriticalProfileVRFs>
    <CriticalProfileVRF>
      <ProfileName></ProfileName>
      <VRF></VRF>
      <MicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </MicroSegment>
    </CriticalProfileVRF>
  </CriticalProfileVRFs>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	CriticalProfileVRFs
Table type	Multi-instance table
Row name	CriticalProfileVRF
Restrictions	None
Support for row creation and	Yes

Item	Description
deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Critical profile name	Index	String. Length: 1 to 31 characters.	You must create a critical profile first before you create, merge, or replace vpn-instances for it.
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MicroSegment	Critical microsegment for users that have failed 802.1X or MAC authentication because of unreachable servers	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	N/A
MicroSegmentID	ID of the critical microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the critical microsegment on the port	N/A	Enumeration: • **0**—Keeps the users online (default). • **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Domain/Interfaces

This table contains information about roaming domain on interface.

XML structure

```
<Domain>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <RoamDomain></RoamDomain>
```

```
    </Interface>
  </Interfaces>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String, case-insensitive. Length: 1 to 47 characters.	N/A
RoamDomain	Roming domain on interface	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

Domain/AuthorProfiles

This table contains author profile information.

XML structure

```
<Domain>
  <AuthorProfiles>
    <AuthorProfile>
      <ProfileName></ProfileName>
      <DefaultMicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </DefaultMicroSegment>
    </AuthorProfile>
  </AuthorProfiles>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	AuthorProfiles
Table type	Multi-instance table
Row name	AuthorProfile
Restrictions	A maximum of 16 Author profiles can be created.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Author profile name	Index	String. Length: 1 to 31 characters.	N/A
DefaultMicroSegment	Default author microsegment for users that have failed 802.1X or MAC or WEB authentication	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	If a user does not match any author microsegment in the author profile when it fails authentication, the user is assigned to the default author microsegment.
MicroSegmentID	ID of the default author microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the author microsegment	N/A	Enumeration: • **0**—Keeps the users online (default). • **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Domain/AuthorProfileVRFs

This table contains author microsegment and VPN instance mapping information in author profiles.

XML structure

```
<Domain>
```

```
  <AuthorProfileVRFs>
    <AuthorProfileVRF>
      <ProfileName></ProfileName>
      <VRF></VRF>
      <MicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </MicroSegment>
    </AuthorProfileVRF>
  </AuthorProfileVRFs>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	AuthorProfileVRFs
Table type	Multi-instance table
Row name	AuthorProfileVRF
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Author profile name	Index	String. Length: 1 to 31 characters.	You must create a author profile first before you create, merge, or replace vpn-instances for it.
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MicroSegment	Author microsegment for users that have failed 802.1X or MAC or WEB authentication	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSI Name. • UrlUserLogoff.	N/A
MicroSegmentID	ID of the author microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the author microsegment	N/A	Enumeration: • **0**—Keeps the users online (default). • **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Contents

Domain 1

Domain/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
Domain/SessionLimit 2
XML structure 2
Table description 2
Columns 2
Domain/Domains 3
XML structure 3
Table description 6
Columns 6
Domain/Schemes 16
XML structure 16
Table description 16
Columns 17
Domain/BroadcastSchemes 19
XML structure 19
Table description 20
Columns 20
Domain/Specification 20
XML structure 21
Table description 21
Columns 21
Domain/UserAbnormalOfflineRecords 22
XML structure 22
Table description 22
Columns 23
Domain/UserNormalOfflineRecords 24
XML structure 24
Table description 25
Columns 25
Domain/UserOfflineRecords 26
XML structure 26
Table description 27
Columns 27
Domain/UserOnlineFailRecords 28
XML structure 28
Table description 29
Columns 29
Domain/EnableAbnormalOfflineRecords 30
XML structure 30
Table description 30
Columns 31
Domain/EnableNormalOfflineRecords 31
XML structure 31
Table description 31
Columns 31
Domain/EnableOfflineRecords 32
XML structure 32
Table description 32
Columns 32
Domain/EnableOnlineFailRecords 32
XML structure 32
Table description 33
Columns 33

Domain/CriticalProfiles 33
XML structure 33
Table description 33
Columns 34
Domain/CriticalProfileVRFs 34
XML structure 34
Table description 35
Columns 35
Domain/GlobalStatistics 36
XML structure 36
Table description 36
Columns 37
Domain/DomainUserStatistics 38
XML structure 38
Table description 38
Columns 39
Domain/DomainUpUserStatistics 40
XML structure 40
Table description 41
Columns 41
Domain/DomainUpListUserStatistics 42
XML structure 42
Table description 42
Columns 43
Domain/NasIDProfiles 44
XML structure 45
Table description 45
Columns 45
Domain/NasIDProfiles/NasIDSCVLANs 45
XML structure 46
Table description 46
Columns 46
Domain/NasIDProfiles/NasIDVLANs 46
XML structure 46
Table description 46
Columns 47
Domain/Interfaces 47
XML structure 47
Table description 47
Columns 48
Domain/AuthorProfiles 48
XML structure 48
Table description 48
Columns 49
Domain/AuthorProfileVRFs 49
XML structure 49
Table description 50
Columns 50

Domain

Domain/GlobalConfig

Global domain configuration information table.

XML structure

```
<Domain>
  <GlobalConfig>
    <DefaultDomain></DefaultDomain>
    <IfUnknownDomain></IfUnknownDomain>
    <UserMaxSessNoFamily></UserMaxSessNoFamily>
    <DeviceId></DeviceId>
  </GlobalConfig>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	A maximum of 1024 domains can be created.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultDomain	Default domain.	N/A	String, case-insensitive. Length: 1 to 255 characters.	By default, the default domain is the predefined domain named system.
IfUnknownDomain	ISP domain that accommodates users assigned to nonexistent domains.	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	N/A
UserMaxSessNoFamily	Whether to process shared-account users as non-family users	N/A	Boolean: • true. • false.	N/A
DeviceId	Device ID of the access device	N/A	Unsigned integer. Value range: 1 to 255.	Default: 0.

Domain/SessionLimit

The maximum number of concurrent users that can log on to the device through the specific method.

XML structure

```
<Domain>
  <SessionLimit>
    <Ftp></Ftp>
    <Telnet></Telnet>
    <Http></Http>
    <Ssh></Ssh>
    <Https></Https>
    <Snetconf></Snetconf>
    <Scp></Scp>
    <Sftp></Sftp>
    <Stelnet></Stelnet>
  </SessionLimit>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	SessionLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ftp	Maximum number of concurrent FTP users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. • In non-FIPS mode, the value for this column can take effect. • In FIPS mode, this column is ignored.
Telnet	Maximum number of concurrent Telnet users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32. • In non-FIPS mode, the value for this column can take effect. • In FIPS mode, this

Column name	Column description	Column type	Data type and restrictions	Remarks
				column is ignored.
Http	Maximum number of concurrent HTTP users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. • In non-FIPS mode, the value for this column can take effect. • In FIPS mode, this column is ignored.
Ssh	Maximum number of concurrent SSH users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Https	Maximum number of concurrent HTTPS users	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32.
Snetconf	Maximum number of concurrent NETCONF over SSH users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Scp	Maximum number of concurrent SCP users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Sftp	Maximum number of concurrent SFTP users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Stelnet	Maximum number of concurrent Stelnet users	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.

Domain/Domains

Basic domain information table.

XML structure

```
<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <SessTimeIncldeIdle></SessTimeIncldeIdle>
      <State></State>
      <AcctStartDelayTime></AcctStartDelayTime>
      <AcctStartFailAction></AcctStartFailAction>
      <AcctUpdateFail>
        <MaxTimes></MaxTimes>
```

```
  <AcctUpdateFailAction></AcctUpdateFailAction>
</AcctUpdateFail>
<AuthenFailOnlineDomain></AuthenFailOnlineDomain>
<AuthenRadiusRecover>
  <Action></Action>
  <RecoverDomainName></RecoverDomainName>
</AuthenRadiusRecover>
<AuthenRadiusUnavailableDomain></AuthenRadiusUnavailableDomain>
<ServiceType></ServiceType>
<AccessLimit></AccessLimit>
<UserAddrType></UserAddrType>
<BasicServiceIpType></BasicServiceIpType>
<TimeoutDelaytime></TimeoutDelaytime>
<AuthorAttrs>
  <AclNumber></AclNumber>
  <InboundCIR></InboundCIR>
  <InboundPIR></InboundPIR>
  <OutboundCIR></OutboundCIR>
  <OutboundPIR></OutboundPIR>
  <IdleTime></IdleTime>
  <IdleFlow></IdleFlow>
  <TrafficDirection></TrafficDirection>
  <ProfileName></ProfileName>
  <IpPoolName></IpPoolName>
  <Ipv4PoolGroupName></Ipv4PoolGroupName>
  <Ipv6PoolName></Ipv6PoolName>
  <Ipv6PoolGroupName></Ipv6PoolGroupName>
  <Ipv6Address></Ipv6Address>
  <Ipv6PrefixLength></Ipv6PrefixLength>
  <Ipv6NdPrefixPoolName></Ipv6NdPrefixPoolName>
  <PrimDnsIpaddr></PrimDnsIpaddr>
  <PrimDnsIpv6addr></PrimDnsIpv6addr>
  <SecDnsIpaddr></SecDnsIpaddr>
  <SecDnsIpv6addr></SecDnsIpv6addr>
  <PortalUrl></PortalUrl>
  <Unlimited></Unlimited>
  <RedirectTimes></RedirectTimes>
  <VRF></VRF>
  <IgmpMaxAccessNum></IgmpMaxAccessNum>
  <MldMaxAccessNum></MldMaxAccessNum>
  <SessGroupProfileName></SessGroupProfileName>
  <SessTimeOut></SessTimeOut>
  <InboundUserPriority></InboundUserPriority>
  <OutboundUserPriority></OutboundUserPriority>
  <UserGroupName></UserGroupName>
  <VsiName></VsiName>
  <VlanID></VlanID>
  <MicroSegmentID></MicroSegmentID>
```

```
  <AuthorProfile></AuthorProfile>
</AuthorAttrs>
<ItaPolicyName></ItaPolicyName>
<Ipv6InterfaceID></Ipv6InterfaceID>
<RedirectActiveTime></RedirectActiveTime>
<RedirectMoveTemporary></RedirectMoveTemporary>
<RedirectSerIpaddr></RedirectSerIpaddr>
<RedirectSerIpv6addr></RedirectSerIpv6addr>
<ServiceRateLimitMode></ServiceRateLimitMode>
<WebServerIpaddr></WebServerIpaddr>
<WebServerIpv6addr></WebServerIpv6addr>
<SecWebServerIpaddr></SecWebServerIpaddr>
<SecWebServerIpv6addr></SecWebServerIpv6addr>
<WebServerUrl></WebServerUrl>
<WebServerTrackId></WebServerTrackId>
<WebServerIpv6Url></WebServerIpv6Url>
<WebServerIpv6TrackId></WebServerIpv6TrackId>
<SecUrlWebServerIpaddr></SecUrlWebServerIpaddr>
<SecUrlWebServerIpv6addr></SecUrlWebServerIpv6addr>
<SecUrlSecWebServerIpaddr></SecUrlSecWebServerIpaddr>
<SecUrlSecWebServerIpv6addr></SecUrlSecWebServerIpv6addr>
<SecWebServerUrl></SecWebServerUrl>
<SecWebServerTrackId></SecWebServerTrackId>
<SecWebServerIpv6Url></SecWebServerIpv6Url>
<SecWebServerIpv6TrackId></SecWebServerIpv6TrackId>
<NasIdName></NasIdName>
<AcctQuotaOut>
  <Action></Action>
  <RedirectUrl></RedirectUrl>
  <StopAcct></StopAcct>
  <UserProfileName></UserProfileName>
  <NoAcctUpdate></NoAcctUpdate>
</AcctQuotaOut>
<AcctDualStack></AcctDualStack>
<UserSession>
  <MaxNumber></MaxNumber>
  <CaseInsensitive></CaseInsensitive>
</UserSession >
<AuthCustSessTimeout></AuthCustSessTimeout>
<L2tpForce></L2tpForce>
<L2tpGroup>
  <Name></Name>
  <Number></Number>
</L2tpGroup>
<IPv6NdAutoMFlag></IPv6NdAutoMFlag>
<IPv6NdAutoOFlag></IPv6NdAutoOFlag>
<UserAutoSave></UserAutoSave>
<CheckInterfaceVPN></CheckInterfaceVPN>
```

```
      <DynamicAuthorEffectiveAttrs>
        <Car></Car>
        <SessGroupProfile></SessGroupProfile>
        <SessTimeOut></SessTimeOut>
        <Url></Url>
        <UserGroup></UserGroup>
        <UserPriority></UserPriority>
        <UserProfile></UserProfile>
        <WebServer></WebServer>
      </DynamicAuthorEffectiveAttrs>
    </Domain>
  </Domains>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	A maximum of 1024 domains can be created. The domain named system is predefined and cannot be deleted.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	A predefined domain named system exists.
SessTimeIncludeIdle	Whether to include the idle cut period or user online detection period in the user online duration to be sent to the server	N/A	Boolean: • true—The idle cut period or user online detection period is included in the user online duration to be sent to the server. • false—The idle cut period or user online detection period is excluded from the user online duration to be sent to the server.	Default: false. Only portal users support the user online detection period.
State	Status of the domain	N/A	Enumeration: • **0**—Blocked. • **1**—Active.	Default: 1.
AcctStartFail	Access control	N/A	Enumeration:	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	for users that encounter accounting-start failures		• **0**—Allows the users to stay online. • **1**—Logs off the users.	
AcctUpdateFail	Configuration for users that encounter accounting-update failures	Data structure	Members include: • MaxTimes. • AcctUpdateFailAction.	N/A
AuthenFailOnlineDomain	ISP domain name for auth-fail online	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
AuthenRadiusRecover	Access control for fail-permit users when a RADIUS authentication server recovers	Data structure	Members include: • Action. • RecoverDomainName.	N/A
Action	Action to take on the fail-permit users when a RADIUS authentication server recovers	N/A	Enumeration: • **0**—Allows the users to stay online for reauthentication in a new ISP domain. • **1**—Logs off the users. • **2**—reauth.	N/A
RecoverDomainName	Name of the new ISP domain for the fail-permit users after a RADIUS authentication server recovers	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	RecoverDomain must be set to the same as to DomainName
AuthenRadiusUnavailableDomain	Name of the fail-permit domain for reauthenticating users in this ISP domain when all RADIUS servers in this ISP domain become unavailable	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	N/A
MaxTimes	Maximum number of consecutive accounting-update failures allowed for each user	N/A	Unsigned integer. Value range: 1 to 255.	Default: 1.
AcctUpdateFailAction	Access control for users that encounter accounting-update failures	N/A	Enumeration: • **0**—Allows the users to stay online. • **1**—Logs off the users.	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type of the domain	N/A	Enumeration: • **0**—High-Speed Internet (HSI) service. • **1**—Set Top Box (STB) service. • **2**—Voice over IP (VoIP) service.	Default: 0.
AccessLimit	Maximum number of concurrent access users	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
UserAddrType	User address type of the domain	N/A	Enumeration: • **0**—public-ipv4. • **1**—private-ipv4. • **2**—public-ds. • **3**—private-ds. • **4**—ds-lite. • **5**—ipv6. • **6**—nat64.	N/A
BasicServiceIpType	Basic service IP type	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6. • **3**—IPv4-IPv6. • **4**—IPv6-PD. • **5**—IPv4-IPv6PD. • **6**—IPv6-IPv6PD • **7**—IPv4-IPv6-IPv6PD	N/A
TimeoutDelay time	DHCPv6 request timeout timer	N/A	Unsigned integer. Value range: 30 to 1000, in seconds.	Default: 60 seconds .
AuthorAttrs	Authorization attributes	Data structure	Members include: • AclNumber. • InboundCIR. • InboundPIR. • OutboundCIR. • OutboundPIR. • IdleTime. • IdleFlow. • TrafficDirection. • ProfileName. • IpPoolName. • Ipv4PoolGroupName. • Ipv6PoolName. • Ipv6PoolGroupName • Ipv6Address. • Ipv6PrefixLength. • Ipv6NdPrefixPoolName. • PrimDnsIpaddr. • PrimDnsIpv6addr.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• SecDnsIpaddr. • SecDnsIpv6addr. • PortalUrl. • Unlimited. • RedirectTimes • VRF. • IgmpMaxAccessNum. • MldMaxAccessNum. • SessGroupProfileName. • SessTimeOut. • InboundUserPriority • OutboundUserPriority • UserGroupName • AuthorProflie	
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
InboundCIR	Input information rate and committed information rate	N/A	Unsigned integer.	The InboundCIR, InboundPIR, OutboundCIR, and OutboundPIR columns are strongly correlated. The value for the InboundCIR column must be smaller than or equal to the value for the InboundPIR column. The InboundCIR and OutboundCIR columns must be issued in pairs.
InboundPIR	Input information rate and peak information rate	N/A	Unsigned integer.	N/A
OutboundCIR	Output information rate and committed information rate	N/A	Unsigned integer.	The value for the OutboundCIR column must be smaller than or equal to the value for the OutboundPIR column. The InboundCIR and OutboundCIR columns must be issued in pairs.
OutboundPIR	Output information rate and peak information rate	N/A	Unsigned integer.	N/A
IdleTime	Idle timeout period	N/A	Unsigned integer. Value range: 1 to 129600, in minutes.	N/A
IdleFlow	The minimum traffic that must be generated in	N/A	Unsigned integer. Value range: 1 to 10240000, in	Default: 10240 bytes.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the idle timeout period		bytes.	
TrafficDirection	The traffic direction for idle cut	N/A	Enumeration: • **0**—both. • **1**—inbound • **2**—outbound	Default: 0.
ProfileName	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid characters include letters, digits, minus signs (-), dots (.), and underscores (_). The name must start with a letter or a digit, and it cannot be all digits.
IpPoolName	IPv4 address pool name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Ipv4PoolGroupName	IPv4 address pool group name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6PoolName	IPv6 address pool name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6PoolGroupName	IPv6 address pool group name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address for specifying the prefix	N/A	Hexadecimal string, colon-separated.	For example, `2001:12::22:33`.
Ipv6PrefixLength	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6NdPrefixPoolName	IPv6 ND prefix pool name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
PrimDnsIpaddr	IPv4 address of the primary DNS server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
PrimDnsIpv6addr	IPv6 address of the primary DNS server	N/A	IPv6: Hexadecimal string.	IPv6 example: 1:2:3:4:5:6:7:8.
SecDnsIpaddr	IPv4 address of the secondary DNS server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
SecDnsIpv6addr	IPv6 address of the secondary DNS server	N/A	IPv6: Hexadecimal string.	IPv6 example: 1:2:3:4:5:6:7:8.
PortalUrl	Portal redirect URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
Unlimited	Do not limit the times to redirect each user	N/A	Boolean: • **true**—Enable. • **false**—Disable.(default)	The specific times are specificed by the RedirectTimes parameter,if Unlimited

Column name	Column description	Column type	Data type and restrictions	Remarks
				is false the redirect time default 2.
RedirectTimes	Maximum number of redirects	N/A	Unsigned integer. Value range: 1 to 10.	N/A
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
IgmpMaxAccessNum	The maximum number of IGMP groups that an IPv4 user can join concurrently	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
MldMaxAccessNum	The maximum number of MLD groups that an IPv6 user can join concurrently	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
SessGroupProfileName	Session group profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SessTimeOut	The users will be offline when the time is over	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
InboundUserPriority	Inbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
OutboundUserPriority	Outbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
UserGroupName	User-group name	N/A	String, not case-insensitive. Length: 1 to 32 characters.	N/A
VsiName	Vsi Name	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
VlanID	Vlan ID	N/A	Unsigned integer. Value range: 1 to 4094	N/A
MicroSegmentID	Microsegment ID	N/A	Unsigned interger. Value range: 1 to 65535	N/A
AuthorProfile	AuthorProfile	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
ItaPolicyName	ITA policy name	N/A	String, not case-insensitive. Length: 1 to 31 characters.	Specifies the ITA service policy adopted by the current ISP domain.
Ipv6InterfaceID	Assign interface IDs to PPP users during IPv6CP negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	When IPv6CP negotiation is configured, the device forcibly assigns an interface ID to a PPP user. It does not accept non-zero and non-conflicting interface

Column name	Column description	Column type	Data type and restrictions	Remarks
				IDs carried in user packets.
RedirectActiveTime	Redirect URL active period	N/A	Unsigned integer. Value range: 1 to 900.	N/A
RedirectMoveTemporary	Enable the temporary redirect feature	N/A	Boolean: • —**true**—Enable. • —**false**—Disable.	N/A
RedirectSerIpaddr	IPv4 address of the Web server that owns the redirect URL	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
RedirectSerIpv6addr	IPv6 address of the Web server that owns the redirect URL	N/A	IPv6: Hexadecimal string.	IPv6 example: `21:12::22:33`.
ServiceRateLimitMode	The rate limit mode for EDSG services	N/A	Enumeration: • **0**—separate. • **1**—merge.	N/A
WebServerIpaddr	IPv4 address of the Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
WebServerIpv6addr	IPv6 address of the Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecWebServerIpaddr	IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecWebServerIpv6addr	IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
WebServerUrl	The Web server URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified URL does not start with http:// or https://, the system considers that the URL starts with http://.
WebServerTrackId	Track ID for the IPv4 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
WebServerIpv6Url	Web server IPv6 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv6 URL does not start with http:// or https://, the system considers that the IPv6 URL starts with http://.
WebServerIpv6TrackId	Track ID for the IPv6 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
SecUrlWebServerIpaddr	IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.

Column name	Column description	Column type	Data type and restrictions	Remarks
SecUrlWebServerIpv6addr	IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecUrlSecWebServerIpaddr	Secondary IPv4 address of the secondary Web server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
SecUrlSecWebServerIpv6addr	Secondary IPv6 address of the secondary Web server	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
SecWebServerUrl	Secondary Web server IPv4 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv4 URL does not start with http:// or https://, the system considers that the IPv4 URL starts with http://.
SecWebServerTrackId	Track ID for the secondary IPv4 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
SecWebServerIpv6Url	Secondary Web server IPv6 URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	It should start with http:// or https://. If the specified IPv6 URL does not start with http:// or https://, the system considers that the IPv6 URL starts with http://.
SecWebServerIpv6TrackId	Track ID for the secondary IPv6 Web server	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
NasIdName	NAS ID	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
AcctQuotaOut	Configuration for users that encounter accounting quota-out	Data structure	Members include: • Action. • RedirectUrl • StopAcct • UserProfileName NoAcctUpdate	N/A
Action	Access control for users that encounter accounting quota-out	N/A	Enumeration: • **0**—online. • **1**—offline. • **2**—redirect-url.	N/A
RedirectUrl	Portal redirect URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
StopAcct	Send stop charging message	N/A	Boolean: • false—Do not send stop charging message.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true—Send stop charging message.	
UserProfileName	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
NoAcctUpdate	Do not send accounting update packets to obtain new quotas	N/A	Boolean: • false—Send accounting update packets to obtain new quotas. • true—Do not send accounting update packets to obtain new quotas.	N/A
AcctDualStack	Accounting scheme for dual-stack	N/A	Enumeration: • **0**—separate. • **1**—merge.	N/A
UserSession	Shared-account user parameters	Data structure	Members include: • MaxNumber. • CaseInsensitive.	N/A
MaxNumber	Set the maximum number of concurrent logins for a user account	N/A	Unsigned integer. Value range: 1 to 512.	N/A
CaseInsensitive	Whether to not use capitalization to differentiate usernames	N/A	Boolean: • **true**—Not use capitalization to differentiate usernames. • **false**—Use capitalization to differentiate usernames.	N/A
AuthCustSessTimeout	Authorization session timeout timer for none-authentication users	N/A	Unsigned integer. Value range: 1 to 4294967294, in seconds.	N/A
L2tpForce	Whether to enable forcible use of RADIUS server-authorized L2TP attributes	N/A	Boolean: • **ture**—Enabled. • **false**—Disabled.	N/A
L2tpGroup	L2TP group specified for the ISP domain	Data structure	Members include: • Name. • Number.	N/A
Name	L2TP group name	N/A	String,case-sensitive. Length: 1 to 32 characters.	N/A
Number	L2TP group number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
IPv6NdAutoMFlag	Whether to set the managed	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address configuration flag (M) to 1 in RA advertisements to be sent		• **true**. • **false**.	
IPv6NdAutoOFlag	Whether to set the other stateful configuration flag (O) to 1 in RA advertisements to be sent	N/A	Boolean: • **true**. • **false**.	N/A
UserAutoSave	Whether to enable automatic backup of user information	N/A	Boolean: • **true**—Enable automatic backup of access user information. • **false**—Disable automatic backup of access user information.	N/A
CheckInterfaceVPN	Whether to enable strict check for VPN instances associated with the access interfaces	N/A	Boolean: • **true**—Enable strict check for VPN instances associated with the access interfaces. • **false**—Disable strict check for VPN instances associated with the access interfaces.	N/A
DynamicAuthorEffectiveAttrs	Dynamically assigned attributes that will take effect on a user after the user is assigned to this ISP domain from another ISP domain	Data structure	Members include: • Car. • SessGroupProfile. • SessTimeOut. • Url. • UserPriority. • UserGroup. • UserProfile. • WebServer.	N/A
Car	Whether to assign the CAR attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
SessGroupProfile	Whether to assign the session group profile atttribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
SessTimeOut	Whether to assign the session timeout time atttribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
Url	Whether to	N/A	Boolean:	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	assign the redirect URL atttribute through CoA messages		• true. • false	
UserGroup	Whether to assign the user group attribute through CoA messages	N/A	Boolean: • true. • False.	Default: false.
UserPriority	Whether to assign the user priority attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
UserProfile	Whether to assign the user profile attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.
WebServer	Whether to assign the Web server attribute through CoA messages	N/A	Boolean: • true. • false.	Default: false.

Domain/Schemes

Domain scheme table.

XML structure

```
<Domain>
  <Schemes>
    <Scheme>
      <DomainName></DomainName>
      <AaaType></AaaType>
      <AccessType></AccessType>
      <SchemeList></SchemeList>
      <SchemeNameList></SchemeNameList>
    </Scheme>
  </Schemes>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Schemes

Table type	Multi-instance table
Row name	Scheme
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
AaaType	AAA type.	Index	Enumeration: • 0—Authentication. • 4—Authorization. • 5—Accounting.	There are some restrictions among the columns AccessType, AaaType, and SchemeList. Those restrictions will be described in the Restrictions section below the table.
AccessType	Access type.	Index	Enumeration: • 0—Login. • 1—Super. • 2—Command. • 3—LAN access. • 4—PPP. • 5—Default. • 6—Portal. • 7—IKE. • 8—IPoE. • 9—SSL VPN. • 10—ADVPN. • 11—ONU. • 12—PPPoEA	
SchemeList	AAA method types.	N/A	String. Length: 1 to 9 characters, using the format of 1-2-4. A hyphen (-) is used to separate the digits that represent different AAA methods, including: • 1—HWTACACS. • 2—RADIUS. • 3—LDAP. • 4—Local. • 5—None. The string 1-2-4 indicates that HWTACACS is specified as the primary authentication, authorization, or accounting method. If the HWTACACS method fails, the RADIUS method applies. If the RADIUS method fails, the local method applies.	
SchemeNam	Scheme name	N/A	String, case-insensitive.	If this column is not available, no schemes

Column name	Column description	Column type	Data type and restrictions	Remarks
eList	list.		Length: 0 to 68 characters, which can contain 0 to 2 scheme names. Every scheme name contains two parts: Scheme name length and scheme name string. The scheme name is in the format of xxmm……mm. • The xx argument represents the scheme name length. Use two digits to set the scheme name length. • The mm……mm argument represents the scheme name string. The string is 1 to 32 characters. For example: • The string 08abcdefgh represents a scheme whose name is abcdefgh and whose name length is 8 characters. • The string 10testtestte04test represents two schemes. One scheme is named as testtestte and the name length is 10 characters. The other scheme is named as test and the name length is 4 characters.	are specified.

Restrictions:

- The letter Y indicates that a specific access type supports a specific method for authentication, authorization, or accounting.
- You can specify one primary method and multiple backup methods for authentication, authorization, or accounting. An AAA method with a lower level can be the backup of another method that has a higher level. The following list arranges the methods from high level to low level:
  - RADIUS, TACACS, or LDAP.
  - Local.
  - None.

  Among the highest-level methods, the RADIUS method and the TACACS method can be the backup of each other.
- In FIPS mode, all access types cannot use the none method for authentication, authorization, or accounting.

AAA method (level) Access type +AAA type	RADIUS (3)	TACACS (3)	LDAP (3)	Local (2)	None (1)

Default	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Login	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Super	Authentication	Y	Y			
Command	Authorization		Y		Y	Y
	Accounting		Y			
LAN access (MAC authentication or 802.1X)	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
PPP	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y	Y	Y	Y
	Accounting	Y	Y		Y	Y
Portal	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
IKE	Authentication	Y			Y	Y
IPoE	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
SSL VPN	Authentication	Y		Y	Y	Y
	Authorization	Y		Y	Y	Y
	Accounting	Y			Y	Y
ADVPN	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
ONU	Authentication	Y			Y	Y
PPPoEA	Accounting	Y				Y

Domain/BroadcastSchemes

RADIUS broadcast scheme table for a domain.

XML structure

```
<Domain>
  <BroadcastSchemes>
```

```
    <BroadcastScheme>
      <DomainName></DomainName>
      <AccessType></AccessType>
      <SchemeName></SchemeName>
    </BroadcastScheme>
  </BroadcastSchemes>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	BroadcastSchemes
Table type	Multi-instance table
Row name	BroadcastScheme
Restrictions	Configure this table only for domains that have been configured RADIUS accounting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The name can't contain the following characters: \ | / : * ? " < > @	N/A
AccessType	Access type.	Index	Enumeration: • 3—LAN access. • 4—PPP. • 6—Portal. • 8—IPoE.	At present, only one RADIUS broadcast scheme is supported for a domain.
SchemeName	RADIUS scheme name.	Index	String. Length: 1 to 32 characters.	

Domain/Specification

The domain feature capability differs on different devices or on the same device in different states.

- Additional description for the table Domain/SessionLimit, including what service types are supported on the device in the current state. The device can limit the number of concurrent online users only for the service types that are supported in the current state.
- Additional description for the table Domain/Schemes. Whether the device supports the none method as the authentication, authorization, or accounting method.

XML structure

```
<Domain>
  <Specification>
    <SessionLimitSpecification>
      <Ftp></Ftp>
      <Telnet></Telnet>
      <Http></Http>
      </SessionLimitSpecification>
      <SchemesSpecification>
      <None></None>
    </SchemesSpecification>
  </Specification>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLimit Specification	Additional description for the table Domain/Session Limit.	Data structure	Members include: • Ftp. • Telnet. • Http.	N/A
Ftp	Whether to support the column Ftp in the table Domain/Session Limit.	N/A	Boolean: • true. • false.	• In FIPS mode, the default is false. • In non-FIPS mode, the default is true.
Telnet	Whether to support the column Telnet in the table Domain/Session Limit.	N/A	Boolean: • true. • false.	
Http	Whether to support the column Http in the table	N/A	Boolean: • true. • false.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	Domain/Session Limit.			
SchemesSpecification	Additional description for the table Domain/Schemes.	Data structure	The member is None.	N/A
None	Whether to support the none method for authentication, authorization, and accounting.	N/A	Boolean: • true. • false.	In FIPS mode, the none method is not supported for authentication, authorization, or accounting of all users.

Domain/UserAbnormalOfflineRecords

This table contains user abnormal offline records.

XML structure

```
<Domain>
  <UserAbnormalOfflineRecords>
    <UserAbnormalOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
      <Chassis></Chassis>
    </UserAbnormalOfflineRecord>
  </UserAbnormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	UserAbnormalOfflineRecords

Item	Description
Table type	Multi-instance table
Row name	UserAbnormalOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user abnormal offline record	Index	Unsigned integer. Value range: 1 to 2^{64}-1.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: • **1**—PPP. • **2**—IPoE. • **3**—Portal. • **4**—Login. • **5**—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
OfflineReason	Reason that the user went offline	N/A	String, case-sensitive.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on

Column name	Column description	Column type	Data type and restrictions
			the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.

Domain/UserNormalOfflineRecords

This table contains user normal offline records.

XML structure

```
<Domain>
  <UserNormalOfflineRecords>
    <UserNormalOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
      <Chassis></Chassis>
    </UserNormalOfflineRecord>
  </UserNormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	UserNormalOfflineRecords
Table type	Multi-instance table
Row name	UserNormalOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user normal offline record	Index	Unsigned integer. Value range: 1 to 2^{64}-1.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user.	N/A	Enumeration: • **1**—PPP. • **2**—IPoE. • **3**—Portal. • **4**—Login. • **5**—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
OfflineReason	Reason that the user went offline	N/A	String, case-sensitive.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime.

Column name	Column description	Column type	Data type and restrictions
			Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.

Domain/UserOfflineRecords

This table contains user offline records, including user abnormal offline records and user normal offline records.

XML structure

```
<Domain>
  <UserOfflineRecords>
    <UserOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
      <Chassis></Chassis>
    </UserOfflineRecord>
```

```
  </UserOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	UserOfflineRecords
Table type	Multi-instance table
Row name	UserOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user offline record	Index	Unsigned integer. Value range: 1 to 2^{64}-1.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: • **1**—PPP. • **2**—IPoE. • **3**—Portal. • **4**—Login. • **5**—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.

Column name	Column description	Column type	Data type and restrictions
OfflineReason	Reason that the user went offline	N/A	String, case-sensitive.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.

Domain/UserOnlineFailRecords

This table contains user online failure records.

XML structure

```
<Domain>
  <UserOnlineFailRecords>
    <UserOnlineFailRecord>
      <SerialNumber></SerialNumber>
      <OnlineRequestTime></OnlineRequestTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <ServerReplyMessage></ServerReplyMessage>
      <OnlineFailureReason></OnlineFailureReason>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
```

```
    <Chassis></Chassis>
   </UserOnlineFailRecord>
  </UserOnlineFailRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	UserOnlineFailRecords
Table type	Multi-instance table
Row name	UserOnlineFailRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user online failure record	Index	Unsigned integer. Value range: 1 to 2^{64}-1.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: • **1**—PPP. • **2**—IPoE. • **3**—Portal. • **4**—Login. • **5**—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the	N/A	Hexadecimal string,

Column name	Column description	Column type	Data type and restrictions
	user		colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
ServerReplyMessage	Server reply message	N/A	String, case-sensitive. Length: 1 to 252 characters.
OnlineFailureReason	Online failure reason	N/A	String, case-sensitive.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 2^{16}-1.

Domain/EnableAbnormalOfflineRecords

This table contains the enabling status of the user abnormal offline recording feature.

XML structure

```
<Domain>
  <EnableAbnormalOfflineRecords>
    <Enable></Enable>
  </EnableAbnormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableAbnormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description		Data type and restrictions	Remarks
Enable	Whether the user abnormal offline recording feature is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	The default varies by device model.

Domain/EnableNormalOfflineRecords

This table contains the enabling status of the user normal offline recording feature.

XML structure

```
<Domain>
  <EnableNormalOfflineRecords>
    <Enable></Enable>
  </EnableNormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableNormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user normal offline recording feature is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	The default varies by device model.

Domain/EnableOfflineRecords

This table contains the enabling status of the user offline recording feature.

XML structure

```
<Domain>
  <EnableOfflineRecords>
    <Enable></Enable>
  </EnableOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user offline recording feature is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	The default varies by device model.

Domain/EnableOnlineFailRecords

This table contains the enabling status of the user online failure recording feature.

XML structure

```
<Domain>
  <EnableOnlineFailRecords>
    <Enable></Enable>
  </EnableOnlineFailRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOnlineFailRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user online failure recording feature is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	The default varies by device model.

Domain/CriticalProfiles

This table contains critical profile information.

XML structure

```
<Domain>
  <CriticalProfiles>
    <CriticalProfile>
      <ProfileName></ProfileName>
      <DefaultMicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </DefaultMicroSegment>
    </CriticalProfile>
  </CriticalProfiles>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	CriticalProfiles
Table type	Multi-instance table
Row name	CriticalProfile

Item	Description
Restrictions	A maximum of 16 critical profiles can be created.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Critical profile name	Index	String. Length: 1 to 31 characters.	N/A
DefaultMicroSegment	Default critical microsegment for users that have failed 802.1X or MAC authentication because of unreachable servers	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	If a user does not match any critical microsegment in the critical profile when it fails authentication because of unreachable servers, the user is assigned to the default critical microsegment.
MicroSegmentID	ID of the default critical microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the critical microsegment on the port	N/A	Enumeration: **0**—Keeps the users online **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Domain/CriticalProfileVRFs

This table contains critical microsegment and VPN instance mapping information in critical profiles.

XML structure

```
<Domain>
  <CriticalProfileVRFs>
    <CriticalProfileVRF>
      <ProfileName></ProfileName>
      <VRF></VRF>
```

```
      <MicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </MicroSegment>
    </CriticalProfileVRF>
  </CriticalProfileVRFs>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	CriticalProfileVRFs
Table type	Multi-instance table
Row name	CriticalProfileVRF
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Critical profile name	Index	String. Length: 1 to 31 characters.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MicroSegment	Critical microsegment for users that have failed 802.1X or MAC authentication because of unreachable servers	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	N/A
MicroSegmentID	ID of the critical microsegment	N/A	Unsigned integer. Value range: 1 to 65535	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been	N/A	Enumeration: **0**—Keeps the users online	This column is applicable only to MAC authentication

Column name	Column description	Column type	Data type and restrictions	Remarks
	assigned authorization URLs on a port when the first user is assigned to the critical microsegment on the port		**1**—Logs off the users.	users.

Domain/GlobalStatistics

This table contains global user statistics.

XML structure

```
<Domain>
  <DomainGlobalStatistics>
      <AccessNum></AccessNum>
      <OnlineNum></OnlineNum>
      <OnlinePPPUser></OnlinePPPUser>
      <OnlinePPPoEUser></OnlinePPPoEUser>
      <OnlinePPPoAUser></OnlinePPPoAUser>
      <OnlinePPPoFRUser></OnlinePPPoFRUser>
      <OnlineLnsUser></OnlineLnsUser>
      <OnlineLacUser></OnlineLacUser>
      <OnlinePPPoEAUser></OnlinePPPoEAUser>
      <OnlineIPoEUser></OnlineIPoEUser>
      <OnlineIPoEBindUser></OnlineIPoEBindUser>
      <OnlineIPoEPreAuthUser></OnlineIPoEPreAuthUser>
      <OnlineIPoEWebUser></OnlineIPoEWebUser>
      <OnlineIPoE8021XUser></OnlineIPoE8021XUser>
      <OnlineIPoELeasedUser></OnlineIPoELeasedUser>
  </DomainGlobalStatistics>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	DomainGlobalStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessNum	Total number of access users in all domains	N/A	Unsigned integer.	N/A
OnlineNum	Total number of online users in all domains	N/A	Unsigned integer.	N/A
OnlinePPPUser	Total number of online PPP users in all domains	N/A	Unsigned integer.	N/A
OnlinePPPoEUser	Number of online PPP over Ethernet (PPPoE) users in all domains	N/A	Unsigned integer.	N/A
OnlinePPPoAUser	Number of online PPP over ATM (PPPoA) users in all domains	N/A	Unsigned integer.	N/A
OnlinePPPoFRUser	Number of online PPP over Frame Relay (PPPoFR) users in all domains	N/A	Unsigned integer.	N/A
OnlineLnsUser	Number of online LNS users in all domains	N/A	Unsigned integer.	N/A
OnlineLacUser	Number of online LAC users in all domains	N/A	Unsigned integer.	N/A
OnlinePPPoEAUser	Number of online PPP over Ethernet Agency (PPPoEA) users in all domains	N/A	Unsigned integer.	N/A
OnlineIPoEUser	Total number of online IPoE users in all domains	N/A	Unsigned integer.	N/A
OnlineIPoEPreAuthUser	Number of online IPoE users that use pre-authentication in all domains	N/A	Unsigned integer.	N/A
OnlineIPoEBindUser	Number of online IPoE users that use bind authentication in all domains	N/A	Unsigned integer.	N/A
OnlineIPoEWebUser	Number of online IPoE users that	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	use Web authentication in all domains			
OnlineIPoE8021XUser	Number of online IPoE users that use 802.1X authentication in all domains	N/A	Unsigned integer.	N/A
OnlineIPoELeasedUser	Number of online IPoE leased users in all domains	N/A	Unsigned integer.	N/A

Domain/DomainUserStatistics

This table contains user statistics in an ISP domain.

XML structure

```
<Domain>
  <DomainUserStatistics>
    <DomainUserStatistic>
      <DomainName></DomainName>
      <AccessNum></AccessNum>
      <OnlineNum></OnlineNum>
      <OnlinePPPUser></OnlinePPPUser>
      <OnlinePPPoEUser></OnlinePPPoEUser>
      <OnlinePPPoAUser></OnlinePPPoAUser>
      <OnlinePPPoFRUser></OnlinePPPoFRUser>
      <OnlineLnsUser></OnlineLnsUser>
      <OnlineLacUser></OnlineLacUser>
      <OnlinePPPoEAUser></OnlinePPPoEAUser>
      <OnlineIPoEUser></OnlineIPoEUser>
      <OnlineIPoEBindUser></OnlineIPoEBindUser>
      <OnlineIPoEPreAuthUser></OnlineIPoEPreAuthUser>
      <OnlineIPoEWebUser></OnlineIPoEWebUser>
      <OnlineIPoE8021XUser></OnlineIPoE8021XUser>
      <OnlineIPoELeasedUser></OnlineIPoELeasedUser>
    </DomainUserStatistic>
  </DomainUserStatistics>
</Domain>
```

Table description

Item	Description
Feature name	Domain

Item	Description
Table name	DomainUserStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	N/A
AccessNum	Total number of access users in the domain	N/A	Unsigned integer.	N/A
OnlineNum	Total number of online users in the domain	N/A	Unsigned integer.	N/A
OnlinePPPUser	Total number of online PPP users in the domain	N/A	Unsigned integer.	N/A
OnlinePPPoEUser	Number of online PPP over Ethernet (PPPoE) users in the domain	N/A	Unsigned integer.	N/A
OnlinePPPoAUser	Number of online PPP over ATM (PPPoA) users in the domain	N/A	Unsigned integer.	N/A
OnlinePPPoFRUser	Number of online PPP over Frame Relay (PPPoFR) users in the domain	N/A	Unsigned integer.	N/A
OnlineLnsUser	Number of online LNS users in the domain	N/A	Unsigned integer.	N/A
OnlineLacUser	Number of online LAC users in the domain	N/A	Unsigned integer.	N/A
OnlinePPPoEAUser	Number of online PPP over Ethernet Agency (PPPoEA) users in the domain	N/A	Unsigned integer.	N/A
OnlineIPoEUser	Total number of online IPoE	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	users in the domain			
OnlineIPoEPreAuthUser	Number of online IPoE users that use pre-authentication in the domain	N/A	Unsigned integer.	N/A
OnlineIPoEBindUser	Number of online IPoE users that use bind authentication in the domain	N/A	Unsigned integer.	N/A
OnlineIPoEWebUser	Number of online IPoE users that use Web authentication in the domain	N/A	Unsigned integer.	N/A
OnlineIPoE8021XUser	Number of online IPoE users that use 802.1X authentication in the domain	N/A	Unsigned integer.	N/A
OnlineIPoELeasedUser	Number of online IPoE leased users in the domain	N/A	Unsigned integer.	N/A

Domain/DomainUpUserStatistics

This table contains user statistics for an ISP domain on an UP.

XML structure

```
<Domain>
  <DomainUpUserStatistics>
    <DomainUpUserStatistic>
      <Upid></Upid>
      <DomainName></DomainName>
      <AccessNum></AccessNum>
      <OnlineNum></OnlineNum>
      <OnlinePPPUser></OnlinePPPUser>
      <OnlinePPPoEUser></OnlinePPPoEUser>
      <OnlinePPPoAUser></OnlinePPPoAUser>
      <OnlinePPPoFRUser></OnlinePPPoFRUser>
      <OnlineLnsUser></OnlineLnsUser>
      <OnlineLacUser></OnlineLacUser>
      <OnlineIPoEUser></OnlineIPoEUser>
      <OnlineIPoEBindUser></OnlineIPoEBindUser>
      <OnlineIPoEPreAuthUser></OnlineIPoEPreAuthUser>
```

```
      <OnlineIPoEWebUser></OnlineIPoEWebUser>
      <OnlineIPoELeasedUser></OnlineIPoELeasedUser>
    </DomainUpUserStatistic>
  </DomainUpUserStatistics>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	DomainUpUserStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Upid	UP ID	Index	Unsigned short. Value range: 1024 to 2047.
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @
AccessNum	Total number of access users	N/A	Unsigned integer.
OnlineNum	Total number of online users	N/A	Unsigned integer.
OnlinePPPUser	Total number of online PPP users	N/A	Unsigned integer.
OnlinePPPoEUser	Number of online PPP over Ethernet (PPPoE) users	N/A	Unsigned integer.
OnlinePPPoAUser	Number of online PPP over ATM (PPPoA) users	N/A	Unsigned integer.
OnlinePPPoFRUser	Number of online PPP over Frame Relay (PPPoFR) users	N/A	Unsigned integer.
OnlineLnsUser	Number of online LNS users	N/A	Unsigned integer.
OnlineLacUser	Number of online LAC users	N/A	Unsigned integer.
OnlineIPoEUser	Total number of online IPoE users	N/A	Unsigned integer.
OnlineIPoEBindUser	Number of IPoE users that use bind authentication	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
OnlineIPoEPreAuthUser	Number of IPoE users that use pre-authentication	N/A	Unsigned integer.
OnlineIPoEWebUser	Number of online IPoE users that use Web authentication	N/A	Unsigned integer.
OnlineIPoELeasedUser	Number of online IPoE leased users	N/A	Unsigned integer.

Domain/DomainUpListUserStatistics

This table contains user statistics for an ISP domain on a list of UPs.

XML structure

```
<Domain>
  <DomainUpListUserStatistics>
    <DomainUpListUserStatistic>
      <UpidList></UpidList>
      <DomainName></DomainName>
      <AccessNum></AccessNum>
      <OnlineNum></OnlineNum>
      <OnlinePPPUser></OnlinePPPUser>
      <OnlinePPPoEUser></OnlinePPPoEUser>
      <OnlinePPPoAUser></OnlinePPPoAUser>
      <OnlinePPPoFRUser></OnlinePPPoFRUser>
      <OnlineLnsUser></OnlineLnsUser>
      <OnlineLacUser></OnlineLacUser>
      <OnlineIPoEUser></OnlineIPoEUser>
      <OnlineIPoEBindUser></OnlineIPoEBindUser>
      <OnlineIPoEPreAuthUser></OnlineIPoEPreAuthUser>
      <OnlineIPoEWebUser></OnlineIPoEWebUser>
      <OnlineIPoELeasedUser></OnlineIPoELeasedUser>
      <OnlineIPv4User></OnlineIPv4User>
      <OnlineIPv6User></OnlineIPv6User>
      <OnlineDualStackUser></OnlineDualStackUser>
    </DomainUpListUserStatistic>
  </DomainUpListUserStatistics>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	DomainUpidListUserStatistics
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ | / : * ? " < > @	N/A
UpidList	UP ID list	Index	String. Length: 0 to 32767 characters.	The string can contain only UP IDs, hyphens, and commas, and it cannot end with a comma or hyphen. The UP IDs must be in the range of 1024 to 2047. The string cannot contain spaces. For example: 1024,1025,1026,1029-1036,1110-1120.
AccessNum	Total number of access users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineNum	Total number of online users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlinePPPUser	Total number of online PPP users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlinePPPoEUser	Number of online PPP over Ethernet (PPPoE) users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlinePPPoAUser	Number of online PPP over ATM (PPPoA) users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlinePPPoFRUser	Number of online PPP over Frame Relay (PPPoFR) users in the domain on the UPs	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OnlineLnsUser	Number of online LNS users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineLacUser	Number of online LAC users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPoEUser	Total number of online IPoE users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPoEBindUser	Number of online IPoE users that use bind authentication in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPoEPreAuthUser	Number of online IPoE users that use pre-authentication in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPoEWebUser	Number of online IPoE users that use Web authentication in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPoELeasedUser	Number of online IPoE leased users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPv4User	Total number of online IPv4 users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineIPv6User	Total number of online IPv6 users in the domain on the UPs	N/A	Unsigned integer.	N/A
OnlineDualStackUser	Total number of online dual-stack users in the domain on the UPs	N/A	Unsigned integer.	N/A

Domain/NasIDProfiles

This table contains NAS-ID profile information.

XML structure

```
<Domain>
  <NasIDProfiles>
    <NasIDProfile>
      <ProfileName></ProfileName>
      <NasIDSCVLANs>
        <NasIDSCVLAN>
          <CVLANID></CVLANID>
          <SVLANID></SVLANID>
          <Name></Name>
        </NasIDSCVLAN>
      </NasIDSCVLANs>
      <NasIDVLANs>
        <NasIDVLAN>
          <VLANID></VLANID>
          <Name></Name>
        </NasIDVLAN>
      </NasIDVLANs>
    </NasIDProfile>
  </NasIDProfiles>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	NasIDProfiles
Table type	Multi-instance table
Row name	NasIDProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	NAS-ID profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.

Domain/NasIDProfiles/NasIDSCVLANs

This table contains information about inner and outer VLAN IDs bound to each NAS-ID.

XML structure

See the XML structure of Domain/NasIDProfiles

Table description

Item	Description
Feature name	Domain
Table name	NasIDSCVLANs
Table type	Multi-instance table
Row name	NasIDSCVLAN
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
CVLANID	Inner VALN ID	Index	Unsigned integer. Value range: 1 to 4094.
SVLANID	Outer VALN ID	Index	Unsigned integer. Value range: 1 to 4094.
Name	NAS-ID name	N/A	String, case-insensitive. Length: 1 to 31 characters.

Domain/NasIDProfiles/NasIDVLANs

This table contains information about VLANs bound to each NAS-ID.

XML structure

See the XML structure of Domain/NasIDProfiles

Table description

Item	Description
Feature name	Domain
Table name	NasIDVLANs
Table type	Multi-instance table
Row name	NasIDVLAN
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
Name	NAS-ID name	N/A	String, case-insensitive. Length: 1 to 31 characters.

Domain/Interfaces

This table contains information about roaming domain on interface.

XML structure

```
<Domain>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <RoamDomain></RoamDomain>
    </Interface>
  </Interfaces>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String, case-insensitive. Length: 1 to 47 characters.	N/A
RoamDomain	Roming domain on interface	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

Domain/AuthorProfiles

This table contains author profile information.

XML structure

```
<Domain>
  <AuthorProfiles>
    <AuthorProfile>
      <ProfileName></ProfileName>
      <DefaultMicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </DefaultMicroSegment>
    </AuthorProfile>
  </AuthorProfiles>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	AuthorProfiles
Table type	Multi-instance table
Row name	AuthorProfile
Restrictions	A maximum of 16 author profiles can be created.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Author profile name	Index	String. Length: 1 to 31 characters.	N/A
DefaultMicroSegment	Default author microsegment for users that have failed 802.1X or MAC or WEB authentication	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	If a user does not match any author microsegment in the author profile when it fails authentication, the user is assigned to the default author microsegment.
MicroSegmentID	ID of the default author microsegment	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the author microsegment	N/A	Enumeration: **0**—Keeps the users online **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Domain/AuthorProfileVRFs

This table contains author microsegment and VPN instance mapping information in author profiles.

XML structure

```
<Domain>
  <AuthorProfileVRFs>
    <AuthorProfileVRF>
      <ProfileName></ProfileName>
      <VRF></VRF>
      <MicroSegment>
        <MicroSegmentID></MicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </MicroSegment>
    </AuthorProfileVRF>
```

```
  </AuthorProfileVRFs>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	AuthorProfileVRFs
Table type	Multi-instance table
Row name	AuthorProfileVRF
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Author profile name	Index	String. Length: 1 to 31 characters.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MicroSegment	Author microsegment for users that have failed 802.1X or MAC or WEB authentication	Data structure	Members include: • MicroSegmentID. • MicroSegmentVSIName. • UrlUserLogoff.	N/A
MicroSegmentID	ID of the author microsegment	N/A	Unsigned integer. Value range: 1 to 65535	N/A
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.	N/A
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on a port when the first user is assigned to the author microsegment	N/A	Enumeration: **0**—Keeps the users online **1**—Logs off the users.	This column is applicable only to MAC authentication users.

Contents

Domain 1
Domain/GlobalConfig 1
Domain/Domains 1
Domain/NasIDProfiles/NasIDSCVLANs 3
Domain/NasIDProfiles/NasIDVLANs 3

Domain

Domain/GlobalConfig

Message	Explanation
Domain name must not include \\, |, /, :, *, ?, "", <, > and @. 域名不能包含字符\\、|、/、:、*、?、""、<、>和@。	Domain name must not include \\, |, /, :, *, ?, "", <, > and @.
The specified domain does not exist. 指定的ISP域不存在。	When the default domain is modified, the specified ISP domain does not exist.

Domain/Domains

Message	Explanation
Domain name must not include \\, |, /, :, *, ?, "", <, > and @. 域名不能包含字符\\、|、/、:、*、?、""、<、>和@。	Domain name must not include \\, |, /, :, *, ?, "", <, > and @.
The number of domains has reached the limit. 系统中ISP域的数目已经达到上限。	The number of domains has reached the limit.
It's system domain, cannot be deleted! 不能删除系统中预定义的ISP域system。	Connot delele the predefined ISP domain in the system.
It's default domain, cannot be deleted! 不能删除系统缺省的ISP域。	Connot delete the default ISP domain in the system.
The specified domain does not exist. 指定的ISP域不存在。	The specified ISP domain does not exist.
The IP addresses of the primary and secondary servers must be different. Web服务器主备IP地址不可以相同。	The IP addresses of the primary and secondary servers must be different.
The redirect URL policy must be configured with a redirect URL. redirect-url策略必须配置重定向URL。	You must configure a redirect URL in a redirect URL policy.
Only a redirect URL policy can be used for this configuration. redirect-url策略才可以进行该配置。	Only a redirect URL policy can be used for this configuration.
Only offline policy can configure max-times. 仅offline策略可以配置计费更新失败次数。	Only offline policy can configure max-times.
The CAR can be configured only if both Inbound CIR and Outbound CIR exist. 域下授权属性car仅当Inbound Cir和Outbound Cir同时存在时才可以配置。	The CAR can be configured only if both Inbound CIR and Outbound CIR exist.
PIR can't be smaller than CIR.	PIR can't be smaller than CIR.

域下授权属性car的配置PIR不能小于CIR。	
To use the unlimited attribute, you must also configure the redirect URL. 域下授权属性unlimited必须配置重定向URL。	To use the unlimited attribute, you must also configure the redirect URL.
To configure IdleFlow or TrafficDirection, you must also configure the idle-cut. 域下授权属性IdleFlow或TrafficDirection必须配置idlecut。	To configure IdleFlow or TrafficDirection, you must also configure the idle-cut.
All CAR columns must be specified when you delete or remove a CAR. 域下授权属性car删除时必须全部指定。	All CAR columns must be specified when you delete or remove a CAR.
To specify an L2TP group, you cannot use group number and group name in pairs. L2TP组只能通过Group-number或group-name指定。	To specify an L2TP group, you cannot use group number and group name in pairs.
The domain has been used to process users that have failed authentication. Please first remove the authen-fail domain configuration. 被指定为用户认证失败后使用的域不允许删除。若要删除该域，请先取消对该域的引用。	The domain has been used to process users that have failed aut hentication. Please first remove the authen-fail domain configura tion.
Automatic backup of access user information is not supported. 不支持用户信息自动备份功能。	Automatic backup of access user information is not supported.
The domain has been used as the new domain for user processing after all RADIUS servers become unavailable.Please first remove the authen-radius-unavailable online domain configuration. 被指定为用户逃生的域不允许删除。若要删除该域，请先取消对该域的引用。	The domain has been used as the new domain for user processing after all RADIUS servers become unavailable.Please first remove the authen-radius-unavailable online domain configuration.
The domain has been used as the new domain for user processing after RADIUS server recovery. Please first remove the authen-radius-recover online domain configuration. 被指定为用户逃生恢复的域不允许删除。若要删除该域，请先取消对该域的引用。	The domain has been used as the new domain for user processing after RADIUS server recovery. Please first remove the authen-radius-recover online domain configuration.
The recovery domain name (RecoverDomainName) must be the same as the specified authentication domain name (DomainName). 逃生恢复域名（RecoverDomainName）必须与指定的认证域名（DomainName）相同。	The recovery domain name (RecoverDomainName) must be the same as the specified authentication domain name (DomainName).
The RecoverDomain column must be specified in pair with the Action column. 不能单独对逃生恢复域参数执行创建、删除及修改操作。	The RecoverDomain column must be specified in pair with the Action column.
The ISP domain cannot be deleted because it has been specified as a fail-permit domain. Please delete the fail-permit domain configuration first. 被指定为逃生域的ISP域不允许删除。若要删除该	The ISP domain cannot be deleted because it has been specified as a fail-permit domain. Please delete the fail-permit domain configuration first.

域，请先取消对该域的引用。	
The ISP domain cannot be deleted because it has been specified as a fail-permit recovery domain. Please delete the fail-permit recovery domain configuration first. 被指定为逃生恢复域的ISP域不允许删除。若要删除该域，请先取消对该域的引用。	The ISP domain cannot be deleted because it has been specified as a fail-permit recovery domain. Please delete the fail-permit recovery domain configuration first.
When the value for the Action parameter in the AuthenRadiusRecover structure is 1 (offline), do not specify recovery domain parameters. 逃生恢复策略为offline时，不支持同时下发逃生恢复域的相关参数。	When the value for the Action parameter in the AuthenRadiusRecover structure is 1 (offline), do not specify recovery domain parameters.
When the value for the Action column in the AuthenRadiusRecover structure is 0 (online), you must specify recovery domain parameters. 逃生恢复策略为online时，必须指定逃生恢复域相关参数。	When the value for the Action column in the AuthenRadiusRecover structure is 0 (online), you must specify recovery domain parameters.
The primary and secondary URLs of the server must be different. 主用和备用重定向Web服务器URL不能相同。	The primary and secondary URLs of the server must be different.
If you specify a track entry ID, you must also specify a Web server URL. 配置Track ID的同时必须配置对应的Web服务URL。	If you specify a track entry ID, you must also specify a Web server URL.
The primary and secondary IPv6 URLs of the server must be different. 主用和备用重定向Web服务器IPv6 URL不能相同。	The primary and secondary IPv6 URLs of the server must be different.
If you specify a track entry ID, you must also specify a Web server IPv6 URL. 配置Track ID的同时必须配置对应的Web服务器IPv6 URL。	If you specify a track entry ID, you must also specify a Web server IPv6 URL.

Domain/NasIDProfiles/NasIDSCVLANs

Message	Explanation
A CVLAN or SVLAN ID and a NAS-ID must be specified in pairs. CVLAN ID或SVLAN和NAS-ID必须同时存在。	A CVLAN or SVLAN ID and a NAS-ID must be specified in pairs.

Domain/NasIDProfiles/NasIDVLANs

Message	Explanation
A VLAN ID and NAS-ID must be specified in pairs. VLAN ID和NAS-ID必须同时存在。	A VLAN ID and NAS-ID must be specified in pairs.

Contents

Dot1X 1
Dot1X/ClearAllStatistics 1
XML structure 1
Table description 1
Columns 1
Dot1X/ClearInterStatistics 1
XML structure 1
Table description 2
Columns 2
Dot1X/ResetGVLANUser 2
XML structure 2
Table description 3
Columns 3
Dot1X/ResetOneGVLANUser 3
XML structure 3
Table description 3
Columns 4
Dot1X/ResetAccessUsers 4
XML structure 4
Table description 4
Columns 5

Dot1X

Dot1X/ClearAllStatistics

This table clear Dot1X all interfaces' statisitcs.

XML structure

```
<Dot1X>
  <ClearAllStatistics>
    <Clear></Clear>
  </ClearAllStatistics>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ClearAllStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all interfaces' statistics.	N/A	• This column must be empty

Dot1X/ClearInterStatistics

This table clears Dot1X interface statisitcs information.

XML structure

```
<Dot1X>
  <ClearInterStatistics>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <Clear></Clear>
    </Interface>
  </ClearInterStatistics>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ClearInterStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's statistics or guest VLAN's users.	Index	Unsigned integer.
Clear	Clears the interface's statistics.	N/A	• This column must be empty

Dot1X/ResetGVLANUser

This table resets Dot1X interface's all users in guest VLAN.

XML structure

```
<Dot1X>
  <ResetGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetGVLANUser>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ResetGVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Clears the interface's guest VLAN's users.	Index	Unsigned integer.
ResetAll	Resets the interface' users in guest VLAN.	N/A	• This column must be empty

Dot1X/ResetOneGVLANUser

This table resets one of Dot1X interface users of guest VLAN.

XML structure

```
<Dot1X>
  <ResetOneGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneGVLANUser>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ResetOneGVLANUser
Table type	Multi-instance table

Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's guest VLAN's user.	Index	Unsigned integer.
UserMAC	The designated user's MAC.	Index	MAC address
Reset	Resets the interface's designated user in guest VLAN	N/A	• This column must be empty

Dot1X/ResetAccessUsers

This table logs off online 802.1X users.

XML structure

```
<Dot1X>
  <ResetAccessUsers>
    <IfIndex></IfIndex>
    <MAC></MAC>
    <UserName></UserName>
    <Vlan></Vlan>
    <Vsi></Vsi>
    <MicroSegmentID></MicroSegmentID>
    <OnlineType></OnlineType>
  </ResetAccessUsers>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ResetAccessUsers
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	N/A	Unsigned integer.
MAC	User MAC address	N/A	MAC address.
UserName	Username	N/A	String. Length: 1 to 253 characters.
Vlan	User VLAN	N/A	Unsigned integer. Value range: 1 to 4094.
Vsi	User VSI name	N/A	String. Length: 1 to 31 characters.
MicroSegmentID	User microsegment ID	N/A	Unsigned integer. Value range: 1 to 65535.
OnlineType	Type of online users	N/A	Enumeration: • 1—Successful. • 2—Preauth domain. • 3—Auth-Fail domain. • 4—Critical domain.

Contents

Dot1X 1
Dot1X/Protocol 1
XML structure 1
Table description 1
Columns 2
Dot1X/EAD 3
XML structure 3
Table description 3
Columns 4
Dot1X/EADFreeIPs 4
XML structure 4
Table description 4
Columns 5
Dot1X/EADFreeMicroSegments 5
XML structure 5
Table description 5
Columns 5
Dot1X/Smarton 5
XML structure 6
Table description 6
Columns 6
Dot1X/Interfaces 6
XML structure 6
Table description 7
Columns 8

Dot1X

Dot1X/Protocol

This table contains 802.1X protocol parameters.

XML structure

```
<Dot1X>
  <Protocol>
    <Enable></Enable>
    <AuthenMethod></AuthenMethod>
    <DomainDelimiterAt></DomainDelimiterAt>
    <DomainDelimiterSlash></DomainDelimiterSlash>
    <DomainDelimiterBackSlash></DomainDelimiterBackSlash>
    <DomainDelimiterDot></DomainDelimiterDot>
    <QuietEnable></QuietEnable>
    <QuietInterval></QuietInterval>
    <HandshakeInterval></HandshakeInterval>
    <ReauthenInterval></ReauthenInterval>
    <ServerInterval></ServerInterval>
    <SupplicantInterval></SupplicantInterval>
    <ReqIDInterval></ReqIDInterval>
    <RequestRetryCount></RequestRetryCount>
    <GVlanInterval></GVlanInterval>
    <GVsiInterval></GVsiInterval>
  </Protocol>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Protocol
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable 802.1X globally	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
AuthenMethod	Authentication method of 802.1X	N/A	Enumeration: • **1**—CHAP (default). • **2**—PAP. • **3**—EAP.
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
DomainDelimiterDot	Delimiter "." between username and domain	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
QuietEnable	Whether to enable the 802.1X quiet feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
QuietInterval	Quiet timer value	N/A	Unsigned integer Value range: 10 to 120 seconds. Default: 60 seconds.
HandshakeInterval	Handshake timer value	N/A	Unsigned integer. Value range: 5 to 1024 seconds. Default: 15 seconds.
ReauthenInterval	Periodic reauthentication timer value	N/A	Unsigned integer. Value range: 60 to 86400 seconds. Default: 3600 seconds.
ServerInterval	Server timeout timer value	N/A	Unsigned integer. Value range: 100 to 300 seconds. Default: 100 seconds.
SupplicantInterval	Client timeout timer value	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 120 seconds. Default: 30 seconds.
ReqIDInterval	Username request timeout timer value	N/A	Unsigned integer. Value range: 1 to 120 seconds. Default: 30 seconds.
RequestRetryCount	Maximum number of attempts for sending an authentication request to a client	N/A	Unsigned integer. Value range: 1 to 10. Default: 2.
GVlanInterval	User aging timer value for 802.1X guest VLANs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVsiInterval	User aging timer value for 802.1X guest VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.

Dot1X/EAD

This table contains 802.1X EAD assistant parameters.

XML structure

```
<Dot1X>
  <EAD>
    <AssistEnable></AssistEnable>
    <AssistURL></AssistURL>
    <AuthenEscapePermit></AuthenEscapePermit>
  </EAD>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EAD
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AssistEnable	Whether to enable the EAD assistant feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
AssistURL	Redirect URL used with EAD assistant	N/A	String. Length: 1 to 64 characters.
AuthenEscapePermit	Whether to permit authentication escape.	N/A	Boolean: • **true**—Enabled • **false—Disabled**

Dot1X/EADFreeIPs

This table contains 802.1X EAD assistant free IPs.

XML structure

```
<Dot1X>
  <EADFreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </EADFreeIPs>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IPv4Address	IP address used in the EAD assistant feature	Index	String, dotted decimal notation.
IPv4Mask	IP address mask	Index	Ipv4Mask.

Dot1X/EADFreeMicroSegments

This table contains parameters about 802.1X EAD assistant free microsegments.

XML structure

```
<Dot1X>
  <EADFreeMicroSegments>
    <EADFreeMicroSegment>
      <FreeMicroSegmentID></FreeMicroSegmentID>
    </EADFreeMicroSegment>
  </EADFreeMicroSegments>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeMicroSegments
Table type	Multi-instance table
Row name	EADFreeMicroSegment
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FreeMicroSegmentID	Microsegment ID used in the EAD assistant feature	Index	Unsigned integer. Value range: 1 to 65535.

Dot1X/Smarton

This table contains 802.1X SmartOn information. The table is only supported by NEC device.

XML structure

```
<Dot1X>
  <Smarton>
    <SwitchID></SwitchID>
    <Password></Password>
    <RetryCount></RetryCount>
  </Smarton>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Smarton
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SwitchID	SmartOn switch ID	N/A	String. • Length: 1 to 30 characters.
Password	SmartOn password	N/A	String. Length: 1 to 16 characters. Not return.
RetryCount	Maximum number of attempts for retransmitting an EAP-Request/Notification packet to a client	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.

Dot1X/Interfaces

This table contains interface-specific 802.1X information.

XML structure

```
<Dot1X>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <Enable></Enable>
      <SmartonEnable></SmartonEnable>
      <PortControl></PortControl>
      <PortMethod></PortMethod>
      <ReauthenEnable></ReauthenEnable>
      <MulticastTrigger></MulticastTrigger>
      <UnicastTrigger></UnicastTrigger>
      <HandshakeEnable></HandshakeEnable>
      <SecHandshakeEnable></SecHandshakeEnable>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MandDomain></MandDomain>
      <MaxUser></MaxUser>
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <FailVLAN></FailVLAN>
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <FailVSI></FailVSI>
      <CriticalVSI></CriticalVSI>
      <GuestVSI></GuestVSI>
      <CriticalEapol></CriticalEapol>
      <CriticalMicroSegment>
        <CriticalMicroSegmentID></CriticalMicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
      </CriticalMicroSegment>
      <CriticalProfile></CriticalProfile>
      <GVlanDelayEapolEnable></GVlanDelayEapolEnable>
      <GVlanDelayNewMACEnable></GVlanDelayNewMACEnable>
      <GVsiDelayEapolEnable></GVsiDelayEapolEnable>
      <GVsiDelayNewMACEnable></GVsiDelayNewMACEnable>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Whether to enable 802.1X on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
SmartonEnable	Whether to enable the SmartOn feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
PortControl	Port control status of the interface	N/A	Enumeration: • **1**—authorized-force. • **2**—unauthorized-force. • **3**—auto (default).
PortMethod	Control method of the interface	N/A	Enumeration: • **1**—Port-based. • **2**—MAC-based (default).
ReauthenEnable	Whether to enable periodic reauthentication	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
FailVLAN	VLAN for users that have failed 802.1X authentication	N/A	Unsigned integer. Value range: 1 to 4094. Default: No 802.1X Auth-Fail VLAN is configured.
CriticalVLAN	VLAN for users that have failed 802.1X authentication because of unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094. Default: No 802.1X critical VLAN is configured.
GuestVLAN	VLAN used before 802.1X authentication	N/A	Unsigned integer. Value range: 1 to 4094. Default: No 802.1X guest VLAN is configured.
FailVSI	VSI for users that have failed 802.1X authentication because of any reason other than unreachable servers	N/A	String. Length: 1 to 31 characters.
CriticalVSI	VSI for users that have failed 802.1X authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
GuestVSI	VSI with restricted services for non-authenticated 802.1X users	N/A	String. Length: 1 to 31 characters.
CriticalEapol	Whether to enable the device to send an EAP-Success packet to	N/A	Boolean: • **true**—Enabled.

Column name	Column description	Column type	Data type and restrictions
	an 802.1X client when its client user is assigned to the critical VLAN or VSI on the interface		• **false**—Disabled (default).
HandshakeEnable	Whether to enable the online user handshake feature	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.
SecHandshakeEnable	Whether to enable the online user handshake security feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
ReauthUnreachableMode	Whether to allow authenticated 802.1X users to stay online when no server is reachable to perform 802.1X reauthentication for these users	N/A	Enumeration: • **0**—Offline (default). • **1**—Online.
MandDomain	Mandatory authentication domain on this interface	N/A	String. Length: 1 to 255 characters.
MaxUser	Maximum number of users allowed on this interface	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 4294967295.
MaxPreAuthUser	Maximum number of preauth-domain users allowed on this interface	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 4294967295.
MaxAuthFailUser	Maximum number of auth-fail-domain users allowed on this interface	N/A	Unsigned integer. Value range: 1 to 4294967295. • Default: 4294967295.
MulticastTrigger	Enabling status of multicast trigger on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
UnicastTrigger	Whether to enable unicast trigger on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
CriticalMicroSegment	Microsegment for users that have failed 802.1X authentication because of unreachable servers	Data structure	N/A
CriticalMicroSegmentID	VSI name for the critical microsegment	N/A	Unsigned integer. Value range: 1 to 65535.
MicroSegmentVSIName	VSI name for critical micro-segment	N/A	String. Length: 1 to 31 characters.
CriticalProfile	Critical profile for users that have failed 802.1X authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
GVlanDelayEapolEnab	Whether to enable	N/A	Boolean:

Column name	Column description	Column type	Data type and restrictions
le	EAPOL-triggered 802.1X guest VLAN assignment delay on the interface		• **true**—Enabled. • **false**—Disabled (default).
GVlanDelayNewMACEnable	Whether to enable new MAC-triggered 802.1X guest VLAN assignment delay on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
GVsiDelayEapolEnable	Whether to enable EAPOL-triggered 802.1X guest VSI assignment delay on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
GVsiDelayNewMACEnable	Whether to enable new MAC-triggered 802.1X guest VSI assignment delay on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0—**Disable online users to bypass offline detection when all authentication servers are unavailable. • **1—**Enable online users to bypass offline detection and stay online when all authentication servers are unavailable.

Contents

Dot1X 1

Dot1X/Protocol 1
XML structure 1
Table description 1
Columns 2
Dot1X/EAD 3
XML structure 3
Table description 3
Columns 3
Dot1X/EADFreeIPs 4
XML structure 4
Table description 4
Columns 4
Dot1X/EADFreeMicroSegments 4
XML structure 5
Table description 5
Columns 5
Dot1X/Smarton 5
XML structure 5
Table description 6
Columns 6
Dot1X/Interfaces 6
XML structure 6
Table description 7
Columns 8
Dot1X/InterfaceUsers 11
XML structure 11
Table description 12
Columns 12

Dot1X

Dot1X/Protocol

This table contains information about 802.1X protocol parameters.

XML structure

```
<Dot1X>
  <Protocol>
    <Enable></Enable>
    <AuthenMethod></AuthenMethod>
    <DomainDelimiterAt></DomainDelimiterAt>
    <DomainDelimiterSlash></DomainDelimiterSlash>
    <DomainDelimiterBackSlash></DomainDelimiterBackSlash>
    <DomainDelimiterDot></DomainDelimiterDot>
    <QuietEnable></QuietEnable>
    <QuietInterval></QuietInterval>
    <HandshakeInterval></HandshakeInterval>
    <ReauthenInterval></ReauthenInterval>
    <ServerInterval></ServerInterval>
    <SupplicantInterval></SupplicantInterval>
    <ReqIDInterval></ReqIDInterval>
    <RequestRetryCount></RequestRetryCount>
    <OnlineUserNum></OnlineUserNum>
    <GVlanInterval></GVlanInterval>
    <GVsiInterval></GVsiInterval>
  </Protocol>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Protocol
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether 802.1X is enabled globally	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
AuthenMethod	Authentication method of 802.1X	N/A	Enumeration: • **1**—CHAP. • **2**—PAP. • **3**—EAP.
DomainDelimiterAt	Delimiter “@” between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
DomainDelimiterSlash	Delimiter “/” between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
DomainDelimiterBackslash	Delimiter “\” between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
DomainDelimiterDot	Delimiter “.” between username and domain name	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
QuietEnable	Status of the 802.1X quiet feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
QuietInterval	Quiet timer value	N/A	Unsigned integer. Value range: 10 to 120 seconds.
HandshakeInterval	Handshake timer value	N/A	Unsigned integer. Value range: 5 to 1024 seconds.
ReauthenInterval	Periodic reauthentication timer value	N/A	Unsigned integer. Value range: 60 to 86400 seconds.
ServerInterval	Server timeout timer value	N/A	Unsigned integer. Value range: 100 to 300 seconds.
SupplicantInterval	Client timeout timer value	N/A	Unsigned integer. Value range: 1 to 120 seconds.
ReqIDInterval	Username request timeout timer value	N/A	Unsigned integer. Value range: 1 to 120 seconds.
RequestRetryCount	Maximum number of attempts for sending an authentication request to a client	N/A	Unsigned integer. Value range: 1 to 10.

Column name	Column description	Column type	Data type and restrictions
OnlineUserNum	Current online user count	N/A	Unsigned integer.
GVlanInterval	User aging timer value for 802.1X guest VLANs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVsiInterval	User aging timer value for 802.1X guest VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.

Dot1X/EAD

This table contains 802.1X EAD assistant information.

XML structure

```
<Dot1X>
  <EAD>
    <AssistEnable></AssistEnable>
    <AssistURL></AssistURL>
    <AuthenEscapePermit></AuthenEscapePermit>
  </EAD>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EAD
Table type	Single-instance table
Row name	None
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AssistEnable	Status of the EAD assistant feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled.
AssistURL	Redirect URL used with EAD assistant	N/A	String. Length: 1 to 64 characters.

Column name	Column description	Column type	Data type and restrictions
AuthenEscapePermit	Whether to permit authentication escape.	N/A	Boolean: • **true**—Enabled • **false**—Disabled

Dot1X/EADFreeIPs

This table contains 802.1X EAD assistant free IPs.

XML structure

```
<Dot1X>
  <EADFreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </EADFreeIPs>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IPv4Address	IP address used in the EAD assistant feature	Index	String, dotted decimal notation.
IPv4Mask	IP address mask	Index	IPv4Mask.

Dot1X/EADFreeMicroSegments

This table contains parameters about 802.1X EAD assistant free microsegments.

XML structure

```
<Dot1X>
  <EADFreeMicroSegments>
    <EADFreeMicroSegment>
      <FreeMicroSegmentID></FreeMicroSegmentID>
    </EADFreeMicroSegment>
  </EADFreeMicroSegments>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeMicroSegments
Table type	Multi-instance table
Row name	EADFreeMicroSegment
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FreeMicrooSegmentID	Microsegment ID used in the EAD assistant feature	Index	Unsigned integer. Value range: 1 to 65535.

Dot1X/Smarton

This table contains 802.1X SmartOn information. The table is only supported by NEC device.

XML structure

```
<Dot1X>
  <Smarton>
    <SwitchID></SwitchID>
    <Password></Password>
    <RetryCount></RetryCount>
  </Smarton>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Smarton
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SwitchID	SmartOn switch ID	N/A	String. Length: 1 to 30 characters.
Password	SmartOn password	N/A	Null or ****Not return.
RetryCount	Maximum number of attempts for retransmitting an EAP-Request/Notification packet to a client	N/A	Unsigned integer. Value range: 1 to 10.

Dot1X/Interfaces

This table contains interface-specific 802.1X information.

XML structure

```
<Dot1X>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <SmartonEnable></SmartonEnable>
      <PortControl></PortControl>
      <PortMethod></PortMethod>
      <PortRole></PortRole>
      <ReauthenEnable></ReauthenEnable>
      <MulticastTrigger></MulticastTrigger>
      <UnicastTrigger></UnicastTrigger>
      <HandshakeEnable></HandshakeEnable>
      <SecHandshakeEnable></SecHandshakeEnable>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MandDomain></MandDomain>
      <MaxUser></MaxUser>
```

```
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <FailVLAN></FailVLAN>
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <FailVSI></FailVSI>
      <CriticalVSI></CriticalVSI>
      <GuestVSI></GuestVSI>
      <CriticalEapol></CriticalEapol>
      <OnlineUserNum></OnlineUserNum>
      <RcvPktNum></RcvPktNum>
      <SndPktNum></SndPktNum>
      <StartPktNum></StartPktNum>
      <LogoffPktNum></LogoffPktNum>
      <RespIDPktNum></RespIDPktNum>
      <RespPktNum></RespPktNum>
      <ReqIDPktNum></ReqIDPktNum>
      <ReqPktNum></ReqPktNum>
      <RcvErrorPktNum></RcvErrorPktNum>
      <CriticalMicroSegment>
        <CriticalMicroSegmentID></CriticalMicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
      </CriticalMicroSegment>
      <CriticalProfile></CriticalProfile>
      <GVlanDelayEapolEnable></GVlanDelayEapolEnable>
      <GVlanDelayNewMACEnable></GVlanDelayNewMACEnable>
      <GVsiDelayEapolEnable></GVsiDelayEapolEnable>
      <GVsiDelayNewMACEnable></GVsiDelayNewMACEnable>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Enabling status of 802.1X on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
SmartonEnable	Enabling status of the SmartOn feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
PortControl	Port control status of the interface	N/A	Enumeration: • **1**—authorized-force. • **2**—unauthorized-force. • **3**—auto.
PortMethod	Control method of the interface	N/A	Enumeration: • **1**—Port-based. • **2**—MAC-based.
PortRole	Role of the interface in authentication	N/A	Enumeration: • **1**—Authenticator.
ReauthenEnable	Enabling status of periodic reauthentication	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
FailVLAN	VLAN for users that have failed 802.1X authentication	N/A	Unsigned integer. Value range: 1 to 4094.
CriticalVLAN	VLAN for users that have failed 802.1X authentication because of unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094.
GuestVLAN	VLAN used before 802.1X authentication	N/A	Unsigned integer. Value range: 1 to 4094.
FailVSI	VSI for users that have failed 802.1X authentication because of any reason other than unreachable servers	N/A	String. Length: 1 to 31 characters.
CriticalVSI	VSI for users that have failed 802.1X authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
GuestVSI	VSI with restricted services for non-authenticated 802.1X users	N/A	String. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
CriticalEapol	Status of the feature that enables the device to send an EAP-Success packet to an 802.1X client when its client user is assigned to the critical VLAN or VSI on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
HandshakeEnable	Enabling status of the online user handshake feature on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
SecHandshakeEnable	Enabling status of the online user handshake security feature on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ReauthUnreachableMode	Whether to allow authenticated 802.1X users to stay online when no server is reachable to perform 802.1X reauthentication for these users	N/A	Enumeration: • **0**—Offline. • **1**—Online.
MandDomain	Mandatory authentication domain on this interface	N/A	String. Length: 1 to 255 characters.
MaxUser	Maximum number of users allowed on this interface	N/A	Unsigned integer. Value range: 1 to 4294967295.
MaxPreAuthUser	Maximum number of preauth-domain users allowed on this interface	N/A	Unsigned integer. Value range: 1 to 4294967295
MaxAuthFailUser	Maximum number of auth-fail-domain users allowed on this interface MaxPreAuthUser	N/A	Unsigned integer. Value range: 1 to 4294967295
MulticastTrigger	Enabling status of multicast trigger on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
UnicastTrigger	Enabling status of unicast trigger on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
OnlineUserNum	Number of online 802.1X users on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
RcvPktNum	Number of received EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
SndPktNum	Number of sent EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
StartPktNum	Number of received EAPOL-Start packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
LogoffPktNum	Number of received EAPOL-LogOff packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
RespIDPktNum	Number of received EAP-Response/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
RespPktNum	Number of received EAP-Response(other than EAP-Response/ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
ReqIDPktNum	Number of sent EAP-Request/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
ReqPktNum	Number of sent EAP-Request (other than EAP-Request /ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
RcvErrorPktNum	Number of received error packets on the interface	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.
CriticalMicroSegment	Microsegment for users that have failed 802.1X authentication because of unreachable servers	Data structure	N/A
CriticalMicroSegmentID	Critical microsegment ID	N/A	Unsigned integer. Value range: 1 to 65535.
MicroSegmentVSIName	VSI name for the critical microsegment	N/A	String. Length: 1 to 31 characters.
CriticalProfile	Critical profile for users that have failed 802.1X authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
GVlanDelayEapolEnable	Whether EAPOL-triggered 802.1X guest VLAN assignment delay is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
GVlanDelayNewMACEnable	Whether new MAC-triggered 802.1X guest VLAN assignment delay is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
GVsiDelayEapolEnable	Whether EAPOL-triggered 802.1X guest VSI assignment delay is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
GVsiDelayNewMACEnable	Whether new MAC-triggered 802.1X guest VSI assignment delay is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0—**Online users cannot bypass offline detection when all authentication servers are unavailable. • **1—**Online users can bypass offline detection to stay online when all authentication servers are unavailable**.**

Dot1X/InterfaceUsers

This table displays 802.1X user information.

XML structure

```
<Dot1X>
  <InterfaceUsers>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Name></Name>
      <Domain></Domain>
      <Ipv4Addr></Ipv4Addr>
      <Ipv6Addr></Ipv6Addr>
      <InitialVLAN></InitialVLAN>
      <AuthzVLAN></AuthzVLAN>
      <AuthzACLGroup></AuthzACLGroup>
      <AuthzUserProfile></AuthzUserProfile>
      <TermAction></TermAction>
      <TimeoutPeriod></TimeoutPeriod>
      <LogonTime></LogonTime>
      <OnlineDuration></OnlineDuration>
      <AuthzVSI></AuthzVSI>
      <AuthzMicroSegmentID></AuthzMicroSegmentID>
      <AuthzURL></AuthzURL>
      <AuthzIPv6URL></AuthzIPv6URL>
```

```
      <DrniNasIpType></DrniNasIpType>
      <DrniUserState></DrniUserState>
      <MLagNasIpType></MLagNasIpType>
      <MLagUserState></MLagUserState>
      <OnlineType></OnlineType>
    </Interface>
  </InterfaceUsers>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	InterfaceUsers
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
UserMAC	MAC address of a user on the interface	Index	MAC address.
Name	Username	N/A	String. Length: 1 to 253 characters.
Domain	ISP domain used for 802.1X authentication	N/A	String. Length: 1 to 255 characters.
Ipv4Addr	IPv4 address of the user	N/A	String, dotted decimal notation.
Ipv6Addr	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
InitialVLAN	VLAN to which the user belongs before 802.1X authentication	N/A	Unsigned integer Value range: 1 to 4094.
AuthzVLAN	VLAN ID assigned to the user by the AAA server after the user passes authentication	N/A	Unsigned integer Value range: 1 to 4094.
AuthzACLGroup	ACL group number assigned to the user by the AAA server after the user passes authentication	N/A	Unsigned integer.
AuthzUserProfile	User profile name assigned to the user by the AAA server after the user passes authentication	N/A	String.

Column name	Column description	Column type	Data type and restrictions
TermAction	Action attribute assigned by the AAA server when the session timeout timer expires	N/A	Enumeration: • **0**—Default. • **1**—Radius-request.
TimeoutPeriod	Period value of session timeout timer assigned by the server	N/A	Unsigned integer
LogonTime	Time from which the user logs on	N/A	String.Format: YYYY-MM-DD HH:MM:SS.
OnlineDuration	Online duration of the user	N/A	Unsigned integer.
AuthzVSI	VSI name assigned to the user by the AAA server after the user passes authentication	N/A	String. Length: 1 to 31 characters.
AuthzMicroSegmentID	Microsegment ID assigned to the user by the AAA server after the user passes authentication	N/A	Unsigned integer. Value range: 1 to 65535.
AuthzURL	URL assigned to the user by the AAA server after the user passes authentication	N/A	String. Length: 1 to 255 characters.
AuthzIPv6URL	IPv6 URL assigned to the user by the AAA server after the user passes authentication	N/A	String. Length: 1 to 255 characters.
DrniNasIpType	In DRNI networking, the nas ip address type used for user authentication on DR interface	N/A	Enumeration: • **1**—Local. • **2**—Peer.
DrniUserState	User status on DR interface in DRNI network	N/A	Enumeration: • **0**—Inactive. • **1**—Active.
MLagNasIpType	In MLAG networking, the nas ip address type used for user authentication on MLAG interface	N/A	Enumeration: • “Local". • “Peer”.
MLagUserState	User status on MLAG interface in MLAG network	N/A	Enumeration: • “Inactive”. • “Active”.
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successful. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.

Contents

802.1X 1
802.1X/IF 1
802.1X /FreeIp 2
802.1X /EADFreeMicroSegments 2
802.1X /Protocol 3
802.1X /EadAssist 3

802.1X

802.1X/IF

Message	Explanation
Can't set a nonexistent VLAN as a guest VLAN. 无法将一个不存在的VLAN配置为Guest VLAN。	VLAN do not exist。 指定的VLAN不存在
Can't set a nonexistent VLAN as an Auth-Fail VLAN. 无法将一个不存在的VLAN配置为Auth-Fail VLAN。	VLAN do not exist。 指定的VLAN不存在
Can't set a nonexistent VLAN as a critical VLAN. 无法将一个不存在的VLAN配置为Critical VLAN。	VLAN do not exist。 指定的VLAN不存在
Failed to enable 802.1X on the interface, because it is a link aggregation member port 端口使能802.1X失败，因为端口为聚合口成员。	Failed to enable 802.1X on the interface, because it is a link aggregation member port 聚合口成员不能配置802.1X
Can't enable 802.1X for port security mode is configured on the port. 使能802.1X失败，因为该端口已经使能端口安全。	Can't enable 802.1X for port security mode is configured on the port. 使能802.1X失败，因为该端口已经使能端口安全。
Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。	Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。
Can't configure port-control for port security is enabled. 配置端口控制失败，因为已经使能端口安全。	Can't configure port-control for port security is enabled. 配置端口控制失败，因为已经使能端口安全。
Can't configure port-control for port security mode is configured on the port. 配置端口控制失败，因为该端口已经使能端口安全。	Can't configure port-control for port security mode is configured on the port. 配置端口控制失败，因为该端口已经使能端口安全。
Can't configure port-method for port security is enabled. 配置端口控制方式失败，因为已经使能端口安全。	Can't configure port-method for port security is enabled. 配置端口控制方式失败，因为已经使能端口安全。
Can't configure port-method for port security mode is configured on the port. 配置端口控制方式失败，因为该端口已经使能端口安全。	Can't configure port-method for port security mode is configured on the port. 配置端口控制方式失败，因为该端口已经使能端口安全。
Can't configure port-method for MAC authentication is enabled on the port. 配置端口控制方式失败，因为MAC地址认证已经使能。	Can't configure port-method for MAC authentication is enabled on the port. 配置端口控制方式失败，因为MAC地址认证已经使能。
The specified number must be higher than the current number of online users. 配置的最大用户数必须大于当先在线用户数。	The specified number must be higher than the current number of online users. 配置的最大用户数必须大于当先在线用户数。
Can't set a dynamic VLAN as an guest VLAN. 无法将一个动态VLAN配置成Guest VLAN。	Can't set a dynamic VLAN as an guest VLAN. 无法将一个动态VLAN配置成Guest VLAN。
Can't set a dynamic VLAN as a Auth-Fail VLAN.	Can't set a dynamic VLAN as a Auth-Fail VLAN.

无法将一个动态VLAN配置成Auth-Fail VLAN。	无法将一个动态VLAN配置成Auth-Fail VLAN。
Can't set a dynamic VLAN as a critical VLAN. 无法将一个动态VLAN配置成Critical VLAN。	Can't set a dynamic VLAN as a critical VLAN. 无法将一个动态VLAN配置成Critical VLAN。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。
This operation conflicts with VSI configuration. 此操作和VSI配置冲突。	VLAN configuration conflicts with VSI configuration. VLAN配置和VSI配置冲突。
This operation conflicts with VLAN configuration. 此操作和VLAN配置冲突。	VLAN configuration conflicts with VSI configuration. VLAN配置和VSI配置冲突。
Can't enable 802.1X on an IPP port. 不能使能802.1X，因为这是一个IPP接口。	Can't enable 802.1X on an IPP port. 不能使能802.1X，因为这是一个IPP接口。
This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。	This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。
This operation conflicts with the URL-unavailable domain configuration. 此操作和URL逃生域配置冲突。	The 802.1X guest VLAN or VSI, Auth-Fail VLAN or VSI, and critical VLAN, VSI, microsegment, or profile settings conflict with the URL-unavailable domain configuration. 802.1X认证的Guest VLAN/VSI, Auth-fail VLAN/VSI和Critical VLAN/VSI/microsegment/profile配置都与URL逃生域配置冲突。

802.1X /FreeIp

Message	Explanation
The maximum number of free-IP segments has reached. Free-IP 片段的最大数目已经达到。.	The maximum number of free-IP segments has reached. Free-IP 片段数超限。
Invalid IP address or subnet mask. 无效的IP地址或子网掩码。	Invalid IP address or subnet mask. 无效的IP地址或子网掩码。

802.1X /EADFreeMicroSegments

Message	Explanation
Maximum number of free microsegments already reached. 免认证微分段的最大数目已经达到。.	Maximum number of free microsegments already reached. 免认证微分段数目超限。

802.1X /Protocol

Message	Explanation
Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。	Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。
Can't disable 802.1X for port security is enabled. 去使能802.1x失败，因为已经使能端口安全。	Can't disable 802.1X for port security is enabled. 去使能802.1x失败，因为已经使能端口安全。

802.1X /EadAssist

Message	Explanation
Can't enable the EAD assistant function when MAC authentication is enabled globally. 使能EAD快速部署失败，因为已经使能MAC地址认证	Can't enable the EAD assistant function when MAC authentication is enabled globally. 使能EAD快速部署失败，因为已经使能MAC地址认证
Can't enable the EAD assistant function when port security is enabled globally. 使能EAD快速部署失败，因为已经使能端口安全	Can't enable the EAD assistant function when port security is enabled globally.. 使能EAD快速部署失败，因为已经使能端口安全

Contents

Dot1X event stream 1
Dot1XAuthTrace event 1
XML structure for event subscription 1
XML structure for event report 1

Dot1X event stream

802.1X event stream description.

Dot1XAuthTrace event

This event is used to report 802.1X authentication information, including user login time and logoff time, or authentication failure time and reason.

XML structure for event subscription

```
<Dot1XAuthTrace>
</Dot1XAuthTrace>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Dot1X</stream>
    <filter type="subtree">
      <Dot1XAuthTrace xmlns="http://www.h3c.com/netconf/event:1.0/Dot1X:1.0">
      </Dot1XAuthTrace>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Dot1X
Event name	Dot1XAuthTrace
Event namespace	http://www.h3c.com/netconf/event:1.0/Dot1X:1.0
Support for extended query	No

XML structure for event report

```
<Dot1XAuthTrace>
  <User>
    <UserMAC></UserMAC>
    <SN></SN>
    <UserName></UserName>
    <IfName></IfName>
    <AuthorVLAN></AuthorVLAN>
    <Type></Type>
    <StartTime></StartTime>
    <LoginTime></LoginTime>
    <AuthFailTime></AuthFailTime>
    <AuthFailReason></AuthFailReason>
```

```
    <LogoffTime></LogoffTime>
    <LogoffReason></LogoffReason>
    <ErrorCode></ErrorCode>
  </User>
</Dot1XAuthTrace>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-07-05T10:24:36</eventTime>
  <Dot1XAuthTrace xmlns="http://www.h3c.com/netconf/event:1.0/Dot1x:1.0">
    <User>
      <UserMAC>00-01-00-01-00-01</UserMAC>
      <SN>DPPMWWB76</SN>
      <UserName>00-01-00-01-00-01</UserName>
      <IfName>GigabitEthernet1/0/1</IfName>
      <AuthorVLAN>1</AuthorVLAN>
      <Type>1</Type>
      <StartTime>1562322257484</StartTime>
      <LoginTime>1562322264066</LoginTime>
      <AuthFailTime></AuthFailTime>
      <AuthFailReason></AuthFailReason>
      <LogoffTime></LogoffTime>
      <LogoffReason></LogoffReason>
      <ErrorCode>0</ErrorCode>
    </User>
  </Dot1XAuthTrace>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
UserMAC	User MAC address	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	No	Example: 00-01-00-01-00-01.
SN	Device serial number	String. Length: 1 to 32 characters.	No	N/A
UserName	Username	String. Length: 1 to 253 characters.	No	N/A
IfName	Name of the interface through which the user accesses the device	String. Length: 2 to 47 characters.	No	Example: GigabitEthernet2/0/2.

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
AuthorVLAN	ID of the authorization VLAN	Unsigned short. Value range: 1 to 4094.	No	This column is empty when the event type is 3.
Type	Authentication event type	Enumeration: • **1**—User login. • **2**—User logoff. • **3**—User authentication failure.	No	N/A
StartTime	Time when the authentication started	Unsigned integer64. Unit: microsecond.	No	N/A
LoginTime	Time when the user logged in	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 3.
AuthFailTime	Time when the user failed authentication	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 1 or 2.
AuthFailReason	Authentication failure reason	String. Length: 1 to 253 characters.	No	This column is empty when the event type is 1 or 2.
LogoffTime	Time when the user logged off	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 1 or 3.
LogoffReason	User logoff reason	String. Length: 1 to 253 characters.	No	This column is empty when the event type is 1 or 3. Logoff reasons: • Supplicant logoff. • Supplicant restart. • Reauthentication failure. • Port went down and then came up again. • The port was administratively down. • Online handshake failure. • Idle timeout. • Session timeout. • Real-time accounting failure. • Port status error. • Deauthorization by the device. • The server logged the user off. • Unknown reason.

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
ErrorCode	Error code	Unsigned integer.	No	Error codes: • **0**—Authentication success code. • **1 to 19999**—Authentication failure codes. • **20000 to 39999**—User logoff reason codes. • **50000**—Unknown reason code. Authentication failure codes: • **1 to 1999**—Supplicant reasons. • **2000 to 3999**—Device reasons. • **4000 to 5999**—Authentication server reasons. User logoff reason codes: • **20000 to 21999**—Supplicant reasons. • **22000 to 23999**—Device reasons. • **24000 to 25999**—Authentication server reasons.

Contents

DRNI 1
DRNI/ResetDrcpStatisticsTable 1
XML structure 1
Table description 1
Columns 1

DRNI

DRNI/ResetDrcpStatisticsTable

This table is used to reset the DRCP statistics.

XML structure

```
<DRNI>
  <ResetDrcpStatisticsTable>
    <ResetDrcpStatistics>
      <IfIndex></IfIndex>
    </ResetDrcpStatistics>
  </ResetDrcpStatisticsTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	ResetDrcpStatisticsTable
Table type	Multi-instance table
Row name	ResetDrcpStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the value of the column is set to 0, all entries will be cleared.

Contents

DRNI/Base ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
DRNI/Role ····· 2
XML structure ····· 2
Table description ····· 3
Columns ····· 3
DRNI/Keepalive ····· 3
XML structure ····· 3
Table description ····· 4
Columns ····· 4
DRNI/IPPTable ····· 5
XML structure ····· 5
Table description ····· 5
Columns ····· 5
DRNI/DRPortTable ····· 6
XML structure ····· 6
Table description ····· 6
Columns ····· 6
DRNI/PortTable ····· 7
XML structure ····· 7
Table description ····· 7
Columns ····· 8
DRNI/MAD/MADTable ····· 8
XML structure ····· 8
Table description ····· 8
Columns ····· 9
DRNI/MAD/UserIncludeInterfaces ····· 9
XML structure ····· 9
Table description ····· 10
Columns ····· 10
DRNI/MAD/UserExcludeInterfaces ····· 10
XML structure ····· 10
Table description ····· 11
Columns ····· 11
DRNI/GlobalConsistencyTable ····· 11
XML structure ····· 11
Table description ····· 11
Columns ····· 12
DRNI/IfVirtualIpAddressTable ····· 12
XML structure ····· 12
Table description ····· 12
Columns ····· 13
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress ····· 13
Table description ····· 13
Columns ····· 13
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable ····· 14
Table description ····· 14
Columns ····· 14
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress ····· 14
Table description ····· 14
Columns ····· 15

DRNI

DRNI/Base

This table contains DRNI Base information.

XML structure

```
<DRNI>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
    <AuthenticationKey></AuthenticationKey>
    <SequenceCheckEnable></SequenceCheckEnable>
    <StandaloneDelay></StandaloneDelay>
    <ExtraVlan></ExtraVlan>
  </Base>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same DR MAC address for the DR member devices in a DR system.
SystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	Configure the same DR system priority for the DR member devices in a DR system.

SystemNumber	DR system number	N/A	Unsigned integer. Value range: 1 or 2.	Assign different DR system numbers to the DR member devices in a DR system.
RestoreDelay	Data restoration interval in seconds	N/A	Unsigned integer. Value range: 1 to 3600. Default: 30.	N/A
AutoRecoveryReloadDelay	Reload delay timer in seconds for DR system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A
AuthenticationKey	Encrypted authentication key of packets.	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form.
SequenceCheckEnable	Whether the sequence number check on packets is enabled	N/A	Boolean: • true • false(default)	N/A
StandaloneDelay	Delay that the device must wait before changing to DRNI standalone mode, in seconds	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
ExtraVlanList	VLANs permitted by non-DR interfaces	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< ExtraVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.

DRNI/Role

This table contains DRNI Role information.

XML structure

```
<DRNI>
  <Role>
    <LocalRolePriority></LocalRolePriority>
  </Role>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalRolePriority	DR role priority of the local DR member device	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	The lower the value, the higher the priority.

DRNI/Keepalive

This table contains DRNI Keepalive information.

XML structure

```
<DRNI>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
    <KeepaliveHoldTime></KeepaliveHoldTime>
    <VRF></VRF>
    <TrackID></TrackID>
  </Keepalive>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Keepalive
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV4. • KeepaliveSourceIPV4.	N/A
KeepaliveDestinationIPV4	Destination IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPV4	Source IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.2 This column must be with the KeepaliveDestinationIPV4 column.
IPV6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV6. • KeepaliveSourceIPV6.	N/A
KeepaliveDestinationIPV6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPV6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:2 This column must be with the KeepaliveDestinationIPV6 column.
KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535. Default: 6400	The KeepaliveUDPPort must be with the IP address and KeepaliveUDPPort will be deleted when you delete IP address.
KeepaliveInterval	Keepalive interval in milliseconds	N/A	Unsigned integer Value range: 100 to 10000. Default: 1000.	N/A

KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20 Default: 5.	The DR keepalive timeout timer must be two times the DR keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10. Default: 3.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.
TrackID	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	A value of 0 indicates that this column is not configured.

DRNI/IPPTable

This table contains information about IPP ports.

XML structure

```
<DRNI>
  <IPPTable>
    <IPP>
      <IPPNumber></IPPNumber>
      <IfIndex></IfIndex>
    </IPP>
  </IPPTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	IPPTable
Table type	Multi-instance table
Row name	IPP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPPNumber	IPP ID	Index	Unsigned integer.	The IPP ID must be

				fixed at 1.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/DRPortTable

This table contains information about DR ports.

XML structure

```
<DRNI>
  <DRPortTable>
    <DRPort>
      <DRGroupId></DRGroupId>
      <IfIndex></IfIndex>
      <AllowSingleMember></AllowSingleMember>
    </DRPort>
  </DRPortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	DRPortTable
Table type	Multi-instance table
Row name	DRPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DRGroupId	DR group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A

IfIndex	IfIndex value of the Layer 2 aggregate interface.	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllowSingleMember	Whether allow the aggregate interface to be the single member in the DR group	N/A	Boolean: • true • false(default)	N/A

DRNI/PortTable

This table contains information about DRNI ports.

XML structure

```
<DRNI>
  <PortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrcpShortPeriodEnable></DrcpShortPeriodEnable>
      <PortSystemPriority></PortSystemPriority>
      <PortSystemMAC></PortSystemMAC>
    </Port>
  </PortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	PortTable
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DrcpShortPeriodEnable	Whether enable the short DRCP timeout timer.	N/A	Boolean: • true • false(default)	N/A
PortSystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	Configure the same DR system priority on the DR interfaces in the same DR group
PortSystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same DR MAC address on the DR interfaces in the same DR group

DRNI/MAD/MADTable

This table contains information about DRNI MAD.

XML structure

```
<DRNI>
  <MAD>
    <MADTable>
      <MADDefaultAction></MADDefaultAction>
      <MADPersistent></MADPersistent>
      <ExcludeLogicalInterfaces></ExcludeLogicalInterfaces>
    </MADTable>
  </MAD>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	MADTable

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MADDefaultAction	The default action of DRNI MAD.	N/A	Enumeration: • 0—Down(Default). • 1—None.	• Down. Interfaces will be set to DRNI MAD SHUTDOWN state when the IPL goes down except excluded interfaces. • None: Interfaces will not be set to DRNI MAD SHUTDOWN state when the IPL goes down except included interfaces.
`MADPersistent`	DRNI MAD DOWN state persistence	N/A	Boolean: • true • false(default)	N/A
`ExcludeLogicalInterfaces`	Whether all logical interfaces are excluded from the shutdown action by DRNI MAD	N/A	Boolean: • true • false(default)	N/A

DRNI/MAD/UserIncludeInterfaces

This table contains interfaces manually included in the DRNI MAD shutdown action.

XML structure

```
<DRNI>
  <MAD>
    <UserIncludeInterfaces>
      <UserIncludeInterface>
        <IfIndex></IfIndex>
      </UserIncludeInterface>
    </UserIncludeInterfaces>
  </MAD>
```

```
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	UserIncludeInterfaces
Table type	Multi-instance table
Row name	UserIncludeInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/MAD/UserExcludeInterfaces

This table contains interfaces manually excluded from the DRNI MAD shutdown action.

XML structure

```
<DRNI>
  <MAD>
    <UserExcludeInterfaces>
      <UserExcludeInterface>
        <IfIndex></IfIndex>
      </UserExcludeInterface>
    </UserExcludeInterfaces>
  </MAD>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	UserExcludeInterfaces
Table type	Multi-instance table
Row name	UserExcludeInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/GlobalConsistencyTable

This table contains DRNI global consistency information.

XML structure

```
<DRNI>
  <GlobalConsistencyTable>
    <LocalConsistencyEnable></LocalConsistencyEnable>
    <LocalConsistencyMode></LocalConsistencyMode>
  </GlobalConsistencyTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	GlobalConsistencyTable
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LocalConsistencyEnable	Whether the local consistency check function is enabled.	N/A	Boolean: • true(Default) • false
LocalConsistencyMode	Local consistency check mode.	N/A	Enumeration: • 0—strict(Default). • 1—loose.

DRNI/IfVirtualIpAddressTable

This table contains information about virtual IP addresses on interfaces.

XML structure

```
<DRNI>
  <IfVirtualIpAddressTable>
    <IfVirtualIpAddress>
      <IfIndex></IfIndex>
      <VirtualIpAddressTable>
        <VirtualIpAddress>
          <IpAddress></IpAddress>
          <PrefixLength></PrefixLength>
          <MacAddress></MacAddress>
          <ActiveMode></ActiveMode>
        </VirtualIpAddress>
      </VirtualIpAddressTable>
    </IfVirtualIpAddress>
  </IfVirtualIpAddressTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	IfVirtualIpAddressTable
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfVirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress

This table contains information about virtual IP addresses on all interfaces.

Table description

Item	Description
Feature name	DRNI
Table name	IfVirtualIpAddress
Table type	Multi-instance table
Row name	IfVirtualIpAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
VirtualIpAddressTable	Virtual IP address list	Subtable	N/A	For more information, see the DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/Virtu

Column name	Column description	Column type	Data type and restrictions	Remarks
				allpAddressTable table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

This table contains information about all virtual IP addresses on an interface.

Table description

Item	Description
Feature name	DRNI
Table name	VirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress

This table contains information about a virtual IP address on an interface.

Table description

Item	Description
Feature name	DRNI
Table name	VirtualIpAddress
Table type	Multi-instance table
Row name	VirtualIpAddress

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	DRNI virtual IP address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLengh	Length of the address prefix	N/A	Unsigned integer	Value range: 1 to 128 for IPv6 1 to 32 for IPv4
MacAddress	MAC address of the DRNI virtual IP address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1
ActiveMode	Whether the virtual IP address is effective on the local device.	N/A	Enumeration: •0—Primary (Default). •1—Active. •2—Standby.	N/A

Contents

DRNI 1

DRNI/Base 1
XML structure 1
Table description 1
Columns 1
DRNI/Role 2
XML structure 2
Table description 3
Columns 3
DRNI/Keepalive 4
XML structure 4
Table description 5
Columns 5
DRNI/IPPTable 6
XML structure 6
Table description 7
Columns 7
DRNI/DRPortTable 7
XML structure 7
Table description 7
Columns 8
DRNI/PortTable 8
XML structure 8
Table description 9
Columns 9
DRNI/MAD/MADTable 11
XML structure 11
Table description 12
Columns 12
DRNI/MAD/UserIncludeInterfaces 12
XML structure 13
Table description 13
Columns 13
DRNI/MAD/SystemIncludeInterfaces 13
XML structure 14
Table description 14
Columns 14
DRNI/MAD/UserExcludeInterfaces 14
XML structure 14
Table description 15
Columns 15
DRNI/MAD/SystemExcludeInterfaces 15
XML structure 15
Table description 16
Columns 16
DRNI/GlobalConsistencyTable 16
XML structure 16
Table description 17
Columns 17
DRNI/InterfaceConsistencyTable 17
XML structure 18
Table description 18
Columns 18
DRNI/DrcpStatisticsTable 19
XML structure 19
Table description 19
Columns 19

DRNI/IfVirtualIpAddressTable ····· 20
XML structure ····· 20
Table description ····· 21
Columns ····· 21
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress ····· 21
Table description ····· 21
Columns ····· 22
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable ····· 22
Table description ····· 22
Columns ····· 22
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress ····· 23
Table description ····· 23
Columns ····· 23

DRNI

DRNI/Base

This table contains DRNI Base information.

XML structure

```
<DRNI>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
    <AuthenticationKey></AuthenticationKey>
    <SequenceCheckEnable></SequenceCheckEnable>
    <StandaloneDelay></StandaloneDelay>
    <ExtraVlan></ExtraVlan>
  </Base>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1. Configure the same DR MAC address for the DR member devices in a DR system.
SystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535.	Configure the same DR system priority for the DR member devices in a DR system.
SystemNumber	DR system	N/A	Unsigned integer.	Assign different DR

	number		Value range: 1 to.2.	system numbers to the DR member devices in a DR system.
RestoreDelay	Data restoration interval in seconds	N/A	Unsigned integer. Value range: 1 to 3600.	N/A
AutoRecoveryReloadDelay	Reload delay timer in seconds for DR system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A
AuthenticationKey	Encrypted authentication key of packets	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form.
SequenceCheckEnable	Whether the sequence number check on packets is enabled	N/A	Boolean: • true • false	N/A
StandaloneDelay	Delay that the device must wait before changing to DRNI standalone mode, in seconds	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
ExtraVlanList	VLANs permitted by non-DR interfaces	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< ExtraVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.

DRNI/Role

This table contains DRNI Role information.

XML structure

```
<DRNI>
  <Role>
    <LocalRolePriority></LocalRolePriority>
    <PeerRolePriority></PeerRolePriority>
    <LocalBridgeMAC></LocalBridgeMAC>
    <PeerBridgeMAC></PeerBridgeMAC>
    <LocalConfiguredRole></LocalConfiguredRole>
```

```
    <PeerConfiguredRole></PeerConfiguredRole>
    <LocalEffectiveRole></LocalEffectiveRole>
    <PeerEffectiveRole></PeerEffectiveRole>
    <LocalRoleTrigger></LocalRoleTrigger>
  </Role>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalRolePriority	DR role priority of the local DR member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
PeerRolePriority	DR role priority of the peer DR member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
LocalBridgeMAC	Bridge MAC address of the local DR member device	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PeerBridgeMAC	Bridge MAC address of the peer DR member device	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
LocalConfiguredRole	DR role calculated based on the role priority and bridge MAC address of the local DR member device	N/A	Enumeration: • 0—none. • 1—primary. • 2—secondary.	N/A
PeerConfiguredRole	DR role calculated based on the role priority and bridge MAC address of the peer DR member device	N/A	Enumeration: • 0—none. • 1—primary. • 2—secondary.	N/A

LocalEffective Role	Current role of the local DR member device	N/A	Enumeration: • 0—none. • 1—primary. • 2—secondary.	N/A
PeerEffective Role	Current role of the peer DR member device	N/A	Enumeration: • 0—none. • 1—primary. • 2—secondary.	N/A
LocalRoleTrigger	The trigger for the current role	N/A	Enumeration: • 0—DR system initialization. • 1—IPL down and all DR interfaces down. • 2—IPL and keepalive link down. • 3—IPL calculation. • 4—IPL down and role calculation based on keepalive link. • 5—Local role is None and peer role is Primary before IPL comes up. • 6—Local role is Primary and peer role is None before IPL comes up.	N/A

DRNI/Keepalive

This table contains DRNI Keepalive information.

XML structure

```
<DRNI>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
    <KeepaliveHoldTime></KeepaliveHoldTime>
    <KeepaliveLinkStatus></KeepaliveLinkStatus>
    <VRF></VRF>
    <LastDropCausation></LastDropCausation>
    <TrackID></TrackID>
```

```
  </Keepalive>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Keepalive
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV4. • KeepaliveSourceIPV4.	N/A
KeepaliveDestinationIPV4	Destination IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPV4	Source IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.2 This column must be with the **KeepaliveDestinationIPV4** column.
IPV6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV6. • KeepaliveSourceIPV6.	N/A
KeepaliveDestinationIPV6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPV6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:2 This column must be with the **KeepaliveDestinationIPV6** column.
KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535.	The **KeepaliveUDPPort** must be with the IP address and **KeepaliveUDPPort** will be deleted when you delete IP address.
KeepaliveInterval	Keepalive Interval in	N/A	Unsigned integer. Value range: 100 to 10000.	N/A

	milliseconds			
KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20.	The DR keepalive timeout timer must be two times the DR keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10.	N/A
KeepaliveLinkStatus	Keepalive link status	N/A	Enumeration: • 0—unknown. • 1—up. • 2—down.	N/A
VRF	VPN instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.
LastDropCausation	Cause for keepalive packet drop	N/A	Enumeration: • 0—None. • 1—Invalid packet type. • 2—The local role is none. • 3—Incorrect packet length. • 4—System MAC inconsistency. • 5—System priority inconsistency. • 6—Incorrect system number. • 7—Invalid packet interval. • 8—Sequence number check failed. • 9—Failed authentication.	If an incoming keepalive packet is not dropped, the cause is None.
TrackID	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	A value of 0 indicates that this column is not configured.

DRNI/IPPTable

This table contains DRNI IPP information.

XML structure

```
<DRNI>
  <IPPTable>
    <IPP>
      <IPPNumber></IPPNumber>
      <IfIndex></IfIndex>
    </IPP>
  </IPPTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	IPPTable
Table type	Multi -instance table
Row name	IPP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPPNumber	IPP ID	Index	Unsigned integer. Value range: 1.	The IPP ID must be fixed at 1.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/DRPortTable

This table contains information about DR ports.

XML structure

```
<DRNI>
  <DRPortTable>
    <DRPort>
      <DRGroupId></DRGroupId>
      <IfIndex></IfIndex>
      <AllowSingleMember></AllowSingleMember>
    </DRPort>
  </DRPortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI

Table name	DRPortTable
Table type	Multi-instance table
Row name	DRPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DRGroupId	DR group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
IfIndex	IfIndex value of the Layer 2 aggregate interface	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllowSingleMember	Whether allow the aggregate interface to be the single member in the DR group	N/A	Boolean: • true • false	N/A

DRNI/PortTable

This table contains information about DRNI ports.

XML structure

```
<DRNI>
  <PortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrcpShortPeriodEnable></DrcpShortPeriodEnable>
      <PortStatus></PortStatus>
```

```
      <LocalDRCPState></LocalDRCPState>
      <PeerDRCPState></PeerDRCPState>
      <LocalSelectedMemberList></LocalSelectedMemberList>
      <PeerSelectedMemberList></PeerSelectedMemberList>
      <PortStatusCausation></PortStatusCausation>
      <PortSystemMAC></PortSystemMAC>
      <PortSystemPriority></PortSystemPriority>
    </Port>
  </PortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	PortTable
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DrcpShortPeriodEnable	Whether the short DRCP timeout timer is enable	N/A	Boolean: • true • false	N/A
PortStatus	Port status	N/A	Enumeration: • 0—down. • 1—up.	N/A
LocalDRCPState	DRCP state on the local port	N/A	DRCP state flags. The flag field is one byte long, represented by ABCDEFGH from the lowest bit to the highest bit. A letter is displayed when its bit is 1 and is not displayed when its bit is 0. • A—Indicates whether DRCP is enabled on the	N/A

			local device.1 indicates enabled.0 indicates disabled. • B—Indicates whether DRCP is enabled on the DR peer.1 indicates enabled.0 indicates disabled. • C—Indicates whether DRCP is enabled on a third DR member device. 1 indicates enabled.0 indicates disabled. • D—Indicates whether the local IPP has determined that DRCP is enabled on the DR peer.1 indicates yes.0 indicates no. • E—Indicates the DRCP timeout timer.1 indicates the short timeout timer.0 indicates the long timeout timer. • F—Indicates whether the local IPP permits the packets that contain the negotiated gateway conversation IDs.1 indicates yes.0 indicates no. • G—Indicates whether the local IPP permits the packets that contain the negotiated port conversation IDs.1 indicates yes.0 indicates no. • H—Indicates whether the local DRCPDU receive machine is in default or expired state.1 indicates yes.0 indicates no.	
PeerDRCPState	DRCP state on the peer port	N/A	This column has the same data type and restrictions as **LocalDRCPState**.	N/A
LocalSelectedMemberList	Local DR member device's selected aggregate member ports in a distributed relay group	N/A	Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8,the second octet specifying ports 9 through 16,and so on. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Each port of the bridge is represented by a single bit within the value of this object If a bit has a value of 1 then the port is included in the set of	N/A

			ports; a port is not included if its bit has a value of 0.	
PeerSelectedMemberList	Peer DR member device's selected aggregate member ports in a distributed relay group	N/A	This column has the same data type and restrictions as **LocalSelectedMemberList**.	N/A
PortStatusCausation	The cause for the port status change	N/A	Enumeration: • 0—None. • 1—Aggregate interface down. • 100—No correct DRCPDUs received. • 101—Tunnel interface down. • 200—The device role was None. • 201—No peer DR interface configured. • 202—DRNI MAD check. • 203—Configuration consistency check failed.	N/A
PortSystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same DR MAC address on the DR interfaces in the same DR group
PortSystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	Configure the same DR system priority on the DR interfaces in the same DR group

DRNI/MAD/MADTable

This table contains information about DRNI MAD.

XML structure

```
<DRNI>
  <MAD>
    <MADTable>
      <MADDefaultAction></MADDefaultAction>
      <MADState></MADState>
      <MADPersistent></MADPersistent>
      <ExcludeLogicalInterfaces></ExcludeLogicalInterfaces>
    </MADTable>
  </MAD>
```

```
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	MADTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MADDefaultAction	The default action of DRNI MAD	N/A	Enumeration: • 0—Down. • 1—None.	• Down. Interfaces will be set to DRNI MAD SHUTDOWN state when the IPL goes down except excluded interfaces. • None: Interfaces will not be set to DRNI MAD SHUTDOWN state when the IPL goes down except included interfaces.
MADState	Whether the DR system is on MAD state	N/A	Boolean: • true • false	N/A
`MADPersistent`	DRNI MAD DOWN state persistence	N/A	Boolean: • true • false	N/A
`ExcludeLogicalInterfaces`	Whether all logical interfaces are excluded from the shutdown action by DRNI MAD	N/A	Boolean: • true • false	N/A

DRNI/MAD/UserIncludeInterfaces

This table contains interfaces manually included in the DRNI MAD shutdown action.

XML structure

```
<DRNI>
  <MAD>
    <UserIncludeInterfaces>
      <UserIncludeInterface>
        <IfIndex></IfIndex>
        <Active></Active>
      </UserIncludeInterface>
    </UserIncludeInterfaces>
  </MAD>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	UserIncludeInterfaces
Table type	Multi-instance table
Row name	UserIncludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Active	Whether the manual configuration is effective	N/A	Boolean: • true • false	N/A

DRNI/MAD/SystemIncludeInterfaces

This table contains interfaces included in the DRNI MAD shutdown action by the system.

XML structure

```
<DRNI>
  <MAD>
    <SystemIncludeInterfaces>
      <SystemIncludeInterface>
        <IfIndex></IfIndex>
      </SystemIncludeInterface>
    </SystemIncludeInterfaces>
  </MAD>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	SystemIncludeInterfaces
Table type	Multi-instance table
Row name	SystemIncludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/MAD/UserExcludeInterfaces

This table contains interfaces manually excluded from the DRNI MAD shutdown action.

XML structure

```
<DRNI>
  <MAD>
    <UserExcludeInterfaces>
      <UserExcludeInterface>
        <IfIndex></IfIndex>
```

```
      <Active></Active>
    </UserExcludeInterface>
  </UserExcludeInterfaces>
</MAD>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	UserExcludeInterfaces
Table type	Multi-instance table
Row name	UserExcludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Active	Whether the manual configuration is effective	N/A	Boolean: • true • false	N/A

DRNI/MAD/SystemExcludeInterfaces

This table contains interfaces excluded from the DRNI MAD shutdown action by the system.

XML structure

```
<DRNI>
  <MAD>
    <SystemExcludeInterfaces>
      <SystemExcludeInterface>
        <IfIndex></IfIndex>
      </SystemExcludeInterface>
    </SystemExcludeInterfaces>
  </MAD>
```

```
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	SystemExcludeInterfaces
Table type	Multi-instance table
Row name	SystemExcludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

DRNI/GlobalConsistencyTable

This table contains information about DRNI global consistency check.

XML structure

```
<DRNI>
  <GlobalConsistencyTable>
    <LocalConsistencyEnable></LocalConsistencyEnable>
    <PeerConsistencyEnable></PeerConsistencyEnable>
    <LocalConsistencyMode></LocalConsistencyMode>
    <PeerConsistencyMode></PeerConsistencyMode>
    <Type1Result></Type1Result>
    <Type1InConsistency></Type1InConsistency>
    <Type2Result></Type2Result>
    <Type2InConsistency></Type2InConsistency>
  </GlobalConsistencyTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	GlobalConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LocalConsistencyEnable	Whether local consistency check function is enabled	N/A	Boolean: • true • false
PeerConsistencyEnable	Whether peer consistency check function is enabled	N/A	Boolean: • true • false
LocalConsistencyMode	Local consistency check mode	N/A	Enumeration: • 0—Strict. • 1—Loose.
PeerConsistencyMode	Peer consistency check mode	N/A	Enumeration: • 0—Strict. • 1—Loose.
Type1Result	The result of type1 consistency check	N/A	Enumeration: • 0—None. • 1—Success. • 2—Failed.
Type1InConsistency	The module that failed type1 consistency check	N/A	String.
Type2Result	The result of type2 consistency check	N/A	Enumeration: • 0—None. • 1—Success. • 2—Failed.
Type2InConsistency	The module that failed type2 consistency check	N/A	String.

DRNI/InterfaceConsistencyTable

This table contains information about DRNI interface consistency check.

XML structure

```
<DRNI>
  <InterfaceConsistencyTable>
    <InterfaceConsistency>
      <IfIndex></IfIndex>
      <Type1Result></Type1Result>
      <Type1InConsistency></Type1InConsistency>
      <Type2Result></Type2Result>
      <Type2InConsistency></Type2InConsistency>
    </InterfaceConsistency>
  </InterfaceConsistencyTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	InterfaceConsistencyTable
Table type	Multi-instance table
Row name	InterfaceConsistency
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Type1Result	The result of type1 consistency check	N/A	Enumeration: • 0—None. • 1—Success. • 2—Failed.	N/A
Type1InConsistency	The module that failed type1 consistency check	N/A	String.	N/A
Type2Result	The result of type2 consistency check	N/A	Enumeration: • 0—None. • 1—Success.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Failed.	
Type2InConsistency	The module that failed type2 consistency check	N/A	String.	N/A

DRNI/DrcpStatisticsTable

This table contains information about DRCPDU statistics.

XML structure

```
<DRNI>
  <DrcpStatisticsTable>
    <DrcpStatistics>
      <IfIndex></IfIndex>
      <SendPackets></SendPackets>
      <RcvNormalPackets></RcvNormalPackets>
      <RcvErrPackets></RcvErrPackets>
      <RcvUnKnownPackets></RcvUnKnownPackets>
      <LastRcvFailedReason></LastRcvFailedReason>
      <LastRcvSrcMAC></LastRcvSrcMAC>
    </DrcpStatistics>
  </DrcpStatisticsTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	DrcpStatisticsTable
Table type	Multi-instance table
Row name	DrcpStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SendPackets	The count of sent packets	N/A	Unsigned integer.	N/A
RcvNormalPackets	The count of received normal packets	N/A	Unsigned integer.	N/A
RcvErrPackets	The count of received error packets	N/A	Unsigned integer.	N/A
RcvUnKnownPackets	The count of received unknown packets	N/A	Unsigned integer.	N/A
LastRcvFailedReason	Last dropped packet reason	N/A	Enumeration: • 0—None. • 1—Incorrect port. • 2—Incorrect packet type. • 3—Incorrect packet version. • 4—Incorrect packet length. • 5—Received packets of oneself. • 6—Local DR interface not configured. • 7—System MAC inconsistency. • 8—System priority inconsistency. • 9—Incorrect system number. • 10—Incorrect sequence number. • 11—Failed authentication. • 12—Other error.	If receive packet successful, the reason is none.
LastRcvSrcMAC	The source MAC address of last received packet.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-01-00-01-00-01.

DRNI/IfVirtualIpAddressTable

This table contains information about virtual IP addresses on interfaces.

XML structure

```
<DRNI>
```

```
  <IfVirtualIpAddressTable>
    <IfVirtualIpAddress>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VirtualIpAddressTable>
        <VirtualIpAddress>
          <IpAddress></IpAddress>
          <PrefixLength></PrefixLength>
          <MacAddress></MacAddress>
          <ActiveMode></ActiveMode>
        </VirtualIpAddress>
      </VirtualIpAddressTable>
    </IfVirtualIpAddress>
  </IfVirtualIpAddressTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	IfVirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfVirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress

This table contains information about virtual IP addresses on all interface.

Table description

Item	Description
Feature name	DRNI
Table name	IfVirtualIpAddress
Table type	Multi-instance table

Item	Description
Row name	IfVirtualIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
VirtualIpAddressTable	Virtual IP address list	Subtable	N/A	For more information, see the DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

This table contains information about all virtual IP addresses on an interface.

Table description

Item	Description
Feature name	DRNI
Table name	VirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualIpAddr	Virtual IP	Sublist	N/A	For more information, see the DRNI/

Column name	Column description	Column type	Data type and restrictions	Remarks
ess	address list			IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress table.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress

This table contains information about a virtual IP address on an interface.

Table description

Item	Description
Feature name	DRNI
Table name	VirtualIpAddress
Table type	Multi-instance table
Row name	VirtualIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	DRNI virtual IP address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLengh	Length of the address prefix	N/A	Unsigned integer	Value range: 1 to 128 for IPv6 1 to 32 for IPv4
MacAddress	MAC address of the DRNI virtual IP address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1
ActiveMode	Whether the virtual IP address is effective on the local device	N/A	Enumeration: 0—Primary. 1—Active. 2—Standby.	N/A

Contents

DRNI 2
DRNI/Base 2
DRNI/Role 2
DRNI/Keepalive 2
DRNI/IPPTable 3
DRNI/DRPortTable 3
DRNI/MAD/MADTable 4
DRNI/PortTable 4
DRNI/MAD/UserIncludeInterfaces 4
DRNI/MAD/SystemIncludeInterfaces 5
DRNI/MAD/UserExcludeInterfaces 5
DRNI/MAD/SystemExcludeInterfaces 5
DRNI/GlobalConsistencyTable 5
DRNI/InterfaceConsistencyTable 5
DRNI/DrcpStatisticsTable 5
DRNI/ResetDrcpStatisticsTable 6
DRNI/IfVirtualIpAddressTable 6
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress 6
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable 6
DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress 6

DRNI

DRNI/Base

Message	Explanation
The MAC address cannot be an all-zero address, a multicast address, or a broadcast address. 不允许配置MAC地址为全零MAC地址、组播MAC地址或广播MAC地址。	The system MAC address cannot be an all-zero address, a multicast address, or a broadcast address.

DRNI/Role

Message	Explanation
None. 无。	None.

DRNI/Keepalive

Message	Explanation
Please specify the destination IP addresses of keepalive packets. 指定Keepalive报文的目的IP地址。	Specify the destination IP address of the keepalive link.
The destination and source IP addresses cannot be the same. 目的IP地址和源IP地址不能相同。	The destination address must be different from the source address.
You cannot specify both IPv4 and IPv6 addresses for keepalive packets. Keepalive报文参数不能同时指定IPv4地址和IPv6地址。	The destination and source addresses of the keepalive link must both be IPv4 or IPv6.
Invalid destination or source IP address. 无效的源/目的IP地址。	The IP address is invalid. You must specify a valid destination or source IP address for the keepalive link.
Please delete all parameters of keepalive configuration. 请删除所有的keepalive配置参数。	You need to delete all parameters.
The source and destination IP addresses of keepalive packets must have the same Internet protocol version. Keepalive报文的源IP地址和目的IP地址必须使用相同的IP地址协议。	The Internet protocol version of destination and source address must be the same.

DRNI/IPPTable

Message	Explanation
The interface is already configured as a DR interface. 该接口已经是DR口。	The interface is a DR interface. You cannot configure it as an IPP.
The device already has an IPP. 设备已经存在一个IPP口。	A device can have only one IPP.
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.
The tunnel interface must be in VXLAN mode. Tunnel接口想要配置为IPP口，该Tunnel接口必须处于VXLAN模式。	If you want to configure a tunnel interface as the IPP, it must be in VXLAN mode. 如果想要指定一个Tunnel接口为IPP口，该Tunnel接口必须处于VXLAN模式。
Operation failed. The VXLAN tunnel has been assigned to a VXLAN, or the VXLAN tunnel interface is automatically created. 操作失败，该Tunnel已经与VXLAN关联，或者该Tunnel接口是自动生成的Tunnel接口。	The VXLAN tunnel interface that you want to configure as an IPP has already been assigned to a VXLAN, or it is automatically created. 想要配置为IPP口的Tunnel接口不能与VXLAN关联，或者Tunnel接口不能是自动生成的Tunnel接口。
The type interface is not support to assign as IPP interface. 该类型的接口不支持配置为IPP口。	The IPP must be a Layer 2 aggregate interface or tunnel interface. 仅支持将二层聚合接口和Tunnel接口配置为IPP口。
`Can't configure the interface as an IPP because of a driver error.` 不能配置为IPP口，因为驱动错误	An error occurred in assigning the IPP role to an interface. 绑定IPP口时，驱动发生错误

DRNI/DRPortTable

Message	Explanation
The interface is already configured as an IPP. 该接口已经是IPP口。	The interface is already an IPP. You cannot configure it as a DR interface.
The interface must be a Layer 2 aggregate interface. 该接口必须是二层聚合接口。	You must specify a Layer 2 aggregate interface.
The DR group with the specified ID is already configured on another interface. 该DR口ID已经存在。	A device cannot have two DR groups with the same ID.
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.
The interface is already a DR interface in another DR group. 接口已经是另外一个DR组中的DR口了。	The interface is a DR interface in another DR group. You must specify another interface. 接口已经是另外一个DR组中的DR口，可以尝试更换为另一个接口。

The interface is a member of an S-MLAG group. 接口是一个S-MLAG组的成员接口。	Can't assign the interface to the DR interface because the interface is a member of an S-MLAG group. 接口无法加入该DR接口，因为它已经是一个S-MLAG组的成员接口。
Can't configure the interface as a DR interface because of a driver error. 不能配置为DR口，因为驱动错误。	An error occurred in assigning the DR interface role to an interface. 绑定DR口时，驱动发生错误。
Please first remove the aggregate interface from the DR group. 请先将该聚合接口从DR组中移除。	The interface is already in the DR group. You can enable an aggregate interface to be the single member in a DR group only when you assign the aggregate interface to the DR group. 已经存在该DR组，且与当前配置冲突。

DRNI/MAD/MADTable

Message	Explanation
Can’t change the system MAC address. Please first assign the interface to a DR group. 只有聚合接口配置为DR接口后，才允许在该聚合接口视图下配置系统MAC地址。	The interface must be a DR interface. 该接口必须是DR口。
Can’t change the system priority. Please first assign the interface to a DR group. 只有聚合接口配置为DR接口后，才允许在该聚合接口视图下配置系统优先级。	The interface must be a DR interface.. 该接口必须是DR口。

DRNI/PortTable

Message	Explanation
None. 无。	None.

DRNI/MAD/UserIncludeInterfaces

Message	Explanation
The interface is already excluded from the MAD shutdown action by DRNI. 该接口已经配置为DRNI保留接口。	The interface has been excluded from Mad shutdown action, you must undo the operation first. 该接口已经配置为DRNI保留接口，请先删除该配置。
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.

DRNI/MAD/SystemIncludeInterfaces

Message	Explanation
None. 无。	None.

DRNI/MAD/UserExcludeInterfaces

Message	Explanation
The interface is already included in the MAD shutdown action by DRNI. 该接口已经配置为需要被置为DRNI MAD DOWN状态。	The interface has been included in Mad shutdown action, you must undo the operation first. 该接口已经配置为需要被置为DRNI MAD DOWN状态，请先删除该配置。
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.

DRNI/MAD/SystemExcludeInterfaces

Message	Explanation
None. 无。	None.

DRNI/GlobalConsistencyTable

Message	Explanation
None. 无。	None.

DRNI/InterfaceConsistencyTable

Message	Explanation
None. 无。	None.

DRNI/DrcpStatisticsTable

Message	Explanation
None.	None.

无。	

DRNI/ResetDrcpStatisticsTable

Message	Explanation
None. 无。	None.

DRNI/IfVirtualIpAddressTable

Message	Explanation
None. 无。	None.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress

Message	Explanation
None. 无。	None.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

Message	Explanation
None. 无。	None.

DRNI/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress

Message	Explanation
Invalid IP address or subnet mask. 无效的IP地址或子网掩码长度。	Invalid IP address or subnet mask. 无效的IP地址或子网掩码长度。
The number of virtual IP addresses assigned to the interface has reached the upper limit. 虚拟IP地址的数量已达到上限。	Maximum number of virtual IP addresses is already reached. 接口下已配置的虚拟IP地址数已达到上限。
The subnet overlaps with another interface.	The subnet of the IP address overlaps with the subnet of another interface on the device.

虚拟IP地址的网段与其他接口下IP地址的网段重复。	接口IP地址配置所在网段与本设备其他接口网段重复。
The IPv6 address overlaps with another interface. 虚拟IPv6地址与其他接口上的IPv6地址重复。	The IPv6 address is used by another interface on the device. 本接口的IPv6地址与本设备其他接口的IPv6地址冲突。
Invalid IPv6 address. You must enter an IPv6 global unicast address. 无效的IPv6地址。仅支持IPv6单播地址。	The IPv6 address is not a valid IPv6 global unicast address. 该IPv6地址不是一个有效的单播地址。
The MAC address has been associated with another IPv4 address. 该MAC地址已经被其他虚拟IPv4地址使用。	The MAC address is used by another IP address. MAC地址已经被其他IP地址使用。
The MAC address has been associated with another IPv6 address. 该MAC地址已经被其他虚拟IPv6地址使用。	The MAC address is used by another IPv6 address. MAC地址已经被其他IPv6地址使用。
Make sure the IP addresses associated with this MAC address are in the same state. 对于同一MAC地址，虚拟IPv4地址和虚拟IPv6地址在DR设备上的状态必须一致。	All IP addresses associated with this MAC address must be in the same state. MAC地址对应的所有IP地址必须处于相同的状态。
The MAC address cannot be an all-zero address, a multicast address, or a broadcast address. 不允许配置MAC地址为全零MAC地址、组播MAC地址或广播MAC地址。	The system MAC address cannot be an all-zero address, a multicast address, or a broadcast address.

Contents

DRNI event stream 1

BaseInfoEvent event 1
XML structure for event subscription 1
XML structure for event report 1
RoleInfoEvent event 2
XML structure for event subscription 2
XML structure for event report 3
PortInfoEvent event 3
XML structure for event subscription 3
XML structure for event report 4
KeepaliveInfoEvent event 4
XML structure for event subscription 5
XML structure for event report 5
PortStatusEvent event 6
XML structure for event subscription 6
XML structure for event report 6

DRNI event stream

BaseInfoEvent event

This event is used to report DRNI BaseInfo.

XML structure for event subscription

```
<BaseInfoEvent>
</BaseInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DRNI</stream>
    <filter type="subtree">
      <BaseInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </BaseInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	BaseInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<BaseInfoEvent>
  <BaseInfo>
    <SystemMAC></SystemMAC>
    <OperationType></OperationType>
  </BaseInfo>
</BaseInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BaseInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <BaseInfo>
      <SystemMAC>00-01-00-01-00-01</SystemMAC>
      <OperationType>1</OperationType>
```

```
    </BaseInfo>
  </BaseInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
SystemMAC	DR system MAC address	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No	You must configure the same DR system MAC address for the DR member devices in a DR system.
OperationType	Operation type	Enumeration: • **1**—Create. • **2**—Modify. • **3**—Delete.	No	The operation type specifies the operation that DRNI BaseInfo should perform.

RoleInfoEvent event

This event is used to report DRNI RoleInfo.

XML structure for event subscription

```
<RoleInfoEvent>
</RoleInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DRNI</stream>
    <filter type="subtree">
      <RoleInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </RoleInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	RoleInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<RoleInfoEvent>
  <LocalBridgeMAC></LocalBridgeMAC>
  <PeerBridgeMAC></PeerBridgeMAC>
</RoleInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <RoleInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <RoleInfo>
      <LocalBridgeMAC>00-01-00-01-00-01</LocalBridgeMAC>
      <PeerBridgeMAC>00-01-00-01-00-03</PeerBridgeMAC>
    </RoleInfo>
  </RoleInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query
LocalBridgeMAC	Bridge MAC address of the local device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No
PeerBridgeMAC	Bridge MAC address of the peer device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No

PortInfoEvent event

This event is used to report DRNI PortInfo.

XML structure for event subscription

```
<PortInfoEvent>
</PortInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DRNI</stream>
    <filter type="subtree">
      <PortInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </PortInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	PortInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<PortInfoEvent>
  <PortInfo>
    <IfIndex></IfIndex>
    <DRGroupId></DRGroupId>
    <OperationType></OperationType>
  </PortInfo>
</PortInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PortInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <PortInfo>
      <IfIndex>66</IfIndex>
      <DRGroupId>66</DRGroupId>
      <OperationType>1</OperationType>
    </PortInfo>
  </PortInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Aggregation interface ifIndex	Unsigned integer.	No	Interface name is not supported.
DRGroupId	DR group ID	Unsigned integer. Value range: 1 to 1024.	No	N/A
OperationType	Operation type	Enumeration: • **1**—Create. • **2**—Modify. • **3**—Delete.	No	The operation type specifies the operation that DNRI PortInfo should perform.

KeepaliveInfoEvent event

This event is used to report DRNI keepalive information.

XML structure for event subscription

```
cfoEvent>
</KeepaliveInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DRNI</stream>
    <filter type="subtree">
      <KeepaliveInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </KeepaliveInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	KeepaliveInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<KeepaliveInfoEvent>
  <KeepaliveLinkStatus></KeepaliveLinkStatus>
</KeepaliveInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <KeepaliveInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <KeepaliveInfo>
      <KeepaliveLinkStatus>2</KeepaliveLinkStatus>
    </KeepaliveInfo>
  </KeepaliveInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query
KeepaliveLink Status	Keepalive link status	Enumeration: • 1—Up. • 2—Down.	No

PortStatusEvent event

This event is used to report DRNI port status.

XML structure for event subscription

```
<PortStatusEvent>
</PortStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>DRNI</stream>
    <filter type="subtree">
      <PortStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </PortStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	PortStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<PortStatusEvent>
  <PortStatusInfo>
    <IfIndex></IfIndex>
    <IfName></IfName>
    <PortStatus></PortStatus>
    <PortStatusCausation></PortStatusCausation>
  </PortStatusInfo>
</PortStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PortStatusEvent     xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <PortStatusInfo>
      <IfIndex>66</IfIndex>
      <IfName>Bridge-Aggregation1</IfName>
      <PortStatus>1</PortStatus>
      <PortStatusCausation>0</PortStatusCausation>
```

```
    </PortStatusInfo>
  </PortStatusEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	Interface name is not supported.
IfName	Interface name	String Length: 1 to 47 characters.	No	N/A
PortStatus	Port status	Enumeration: • 0—Down. • 1—Up.	No	N/A
PortStatusCausation	The cause for the port status change	Enumeration: • 0—None. • 1—Aggregate interface down. • 100—No correct DRCPDUs received. • 101—Tunnel interface down. • 102---Peer no correct DRCPDUs received. • 103---Removed from a IPP group. • 200—The device role was None. • 201—No peer DR interface configured. • 202—DRNI MAD check. • 203—Configuration consistency check failed. • 204—Removed from a DR group.	No	N/A

Contents

DropStatistics 1
DropStatistics/ClearAppStatistics 1
XML structure 1
Table description 1
Columns 1
DropStatistics/ExportPacket 2
XML structure 2
Table description 2
Columns 2

DropStatistics

DropStatistics/ClearAppStatistics

This table contains information about the cleared statistics of packet loss.

XML structure

```
<DropStatistics>
  <ClearAppStatistics>
    <ClearAppStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <Clear></Clear>
    </ClearAppStatistic>
  </ClearAppStatistics>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	ClearAppStatistics
Table type	Multi-instance table
Row name	ClearAppStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the application	N/A	String. Length: 1 to 15 characters.	N/A
Clear	Clear statistics of packet loss for	N/A	This column must be empty.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	an application			

DropStatistics/ExportPacket

This table is used to export captured packets to a file.

XML structure

```
<DropStatistics>
  <ExportPacket>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <AppName></AppName>
  </ExportPacket>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	ExportPacket
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the application	N/A	String. Length: 1 to 15 characters.	This column is required.

Contents

DropStatistics 1
DropStatistics/StatisticsCfg 1
XML structure 1
Table description 1
Columns 1

DropStatistics

DropStatistics/StatisticsCfg

This table contains the dropped-packet statistics settings.

XML structure

```
<DropStatistics>
  <StatisticsCfg>
    <FilterType></FilterType>
    <SrcAddress></SrcAddress>
    <DstAddress></DstAddress>
    <UserName></UserName>
    <DomainName></DomainName>
  </StatisticsCfg>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	StatisticsCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Enumeration: • **0**—Does not filter. • **1**—Filters by address. • **2**—Filters by user.	Leaving this column empty has the same effect as setting it to **0**.
SrcAddress	Source address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DstAddress	Destination address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated.	
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

Contents

DropStatistics 1

DropStatistics/SummaryStatistics 1
XML structure 1
Table description 1
Columns 1
DropStatistics/AppDetailStatistics 2
XML structure 2
Table description 2
Columns 2
DropStatistics/AppSupportInfos 3
XML structure 3
Table description 3
Columns 3
DropStatistics/AppDropAddresses 4
XML structure 4
Table description 4
Columns 5
DropStatistics/AppDetailDropAddresses 5
XML structure 5
Table description 6
Columns 6
DropStatistics/StatisticsCfg 7
XML structure 7
Table description 7
Columns 7
DropStatistics/SummaryIPCounts 8
XML structure 8
Table description 8
Columns 8
DropStatistics/DetailIPCounts 9
XML structure 9
Table description 9
Columns 10

DropStatistics

DropStatistics/SummaryStatistics

This table contains the summaries of packet loss.

XML structure

```
<DropStatistics>
  <SummaryStatistics>
    <SummaryStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SumStatisticsString></SumStatisticsString>
    </SummaryStatistic>
  </SummaryStatistics>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	SummaryStatistics
Table type	Multi-instance table
Row name	SummaryStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
SumStatistics String	Summaries of packet loss.	N/A	String.	Separate the pack loss applications with comma(,). Separate the application and value

Column name	Column description	Column type	Data type and restrictions	Remarks
				with colon(:). Can not contain spaces.

DropStatistics/AppDetailStatistics

This table contains the details of packet loss for an application.

XML structure

```
<DropStatistics>
  <AppDetailStatistics>
    < AppDetailStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <AppDetailString></AppDetailString>
    </AppDetailStatistic>
  </AppDetailStatistics>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDetailStatistics
Table type	Multi-instance table
Row name	AppDetailStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the Application	Index	String. Length: 1 to 15 characters.	N/A
AppDetailString	Details of theapplication's packet loss.	N/A	String.	Separate the pack loss types with comma(,). Separate the type and value with colon(:). Can not contain spaces.

DropStatistics/AppSupportInfos

This table contains support of applications for packet capture.

XML structure

```
<DropStatistics>
  <AppSupportInfos>
    <AppSupportInfo>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <SupportPktCapture></SupportPktCapture>
    </AppSupportInfo>
  </AppSupportInfos>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppSupportInfos
Table type	Multi-instance table
Row name	AppSupportInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the application	Index	String. Length: 1 to 15 characters.	N/A
SupportPktCapture	Support for packet capture	N/A	Boolean: • **true**—Supports packet capture. • **false**—Does not support packet capture.	N/A

DropStatistics/AppDropAddresses

This table contains dropped-packet statistics for connections of features.

XML structure

```
<DropStatistics>
  <AppDropAddresses>
    <AppDropAddress>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <SrcAddress></SrcAddress>
      <DstAddress></DstAddress>
      <UserName></UserName>
      <DomainName></DomainName>
      <OriginalNum></OriginalNum>
      <ReplyNum></ReplyNum>
    </AppDropAddress>
  </AppDropAddresses>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDropAddresses
Table type	Multi-instance table
Row name	AppDropAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Feature name	Index	String. Length: 1 to 15 characters.	N/A
SrcAddress	Source address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DstAddress	Destination address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
OriginalNum	Number of packets dropped for original	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ReplyNum	Number of packets dropped for reply	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

DropStatistics/AppDetailDropAddresses

This table contains detailed dropped-packet statistics for connections of features.

XML structure

```
<DropStatistics>
  <AppDetailDropAddresses>
    <AppDetailDropAddress>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
```

```
      <DropReason></DropReason>
      <SrcAddress></SrcAddress>
      <DstAddress></DstAddress>
      <UserName></UserName>
      <DomainName></DomainName>
      <OriginalNum></OriginalNum>
      <ReplyNum></ReplyNum>
    </AppDetailDropAddress>
  </AppDetailDropAddresses>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDetailDropAddresses
Table type	Multi-instance table
Row name	AppDetailDropAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Feature name	Index	String. Length: 1 to 15 characters.	N/A
DropReason	Drop reason	Index	String. Length: 1 to 63 characters.	N/A
SrcAddress	Source address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DstAddress	Destination address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A

DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
OriginalNum	Number of packets dropped for original	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ReplyNum	Number of packets dropped for reply	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

DropStatistics/StatisticsCfg

This table contains the dropped-packet statistics settings.

XML structure

```
<DropStatistics>
  <StatisticsCfg>
    <FilterType></FilterType>
    <SrcAddress></SrcAddress>
    <DstAddress></DstAddress>
    <UserName></UserName>
    <DomainName></DomainName>
  </StatisticsCfg>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	StatisticsCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Enumeration: • **0**—Does not filter. • **1**—Filter by address. • **2**—Filters by user.	Leaving this column empty has the same effect as setting it to **0**.
SrcAddress	Source address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon separated.	
DstAddress	Destination address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
UserName	UserName	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	DomainName	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DropStatistics/SummaryIPCounts

This table is used to obtain the number of connections of a feature for which dropped-packet statistics are configured.

XML structure

```
<DropStatistics>
  <SummaryIPCounts>
    <SummaryIPCount>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <Count></Count>
    </SummaryIPCount>
  </SummaryIPCounts>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	SummaryIPCounts
Table type	Multi-instance table
Row name	SummaryIPCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	where the interface resides		Value range: 0 to 65535.
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
AppName	Feature name	Index	String. Length: 1 to 15 characters.
Count	Number of connections of a feature for which dropped-packet statistics are configured	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

DropStatistics/DetailIPCounts

This table is used to obtain the number of connections of a feature that have packets dropped due to a specific reason.

XML structure

```
<DropStatistics>
  <DetailIPCounts>
    <DetailIPCount>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <DropReason></DropReason>
      <Count></Count>
    </DetailIPCount>
  </DetailIPCounts>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	DetailIPCounts
Table type	Multi-instance table
Row name	DetailIPCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
AppName	Feature name	Index	String. Length: 1 to 15 characters.
DropReason	Drop reason	Index	String. Length: 1 to 63 characters.
Count	Number of connections of a feature that have packets dropped due to a specific reason	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Contents

DropStatistics 2
DropStatistics/ExportPacket 2
DropStatistics/StatisitcsCfg 2

DropStatistics

DropStatistics/ExportPacket

Message	Explanation
Failed to create the file. 创建文件失败。	When saving the dropped packets to a file, the system failed to create the file due to insufficient space or other reasons. 保存报文到文件时由于空间不足或者其他原因导致失败。
No packets dropped. 没有报文被丢弃。	When saving the dropped packets to a file, there is no packet dropped. 没有需要保存到文件的报文。

DropStatistics/StatisitcsCfg

Message	Explanation
The source IP address field and destination IP address field cannot be null at the same time. 源IP和目的IP地址不能同时为空。	When configuring dropped packet counting based on IP addresses, the source IP and destination IP cannot be both null. 根据IP地址进行丢包统计时不允许源IP地址和目的IP地址都为空。
The source IP address and the destination IP address must be the same type. 源IP与目的IP地址类型必须一致。	When configuring dropped packet counting based on IP addresses, the source IP and the destination IP must belong to the same address family. 根据IP地址进行丢包统计时源IP地址和目的IP地址地址族必须一致。
Invalid source IP address or destination IP address. 源IP或者目的IP地址非法。	When configuring dropped packet counting based on IP addresses, but the source IP or the destination IP is invalid. 根据IP地址进行丢包统计时源IP地址或者目的IP地址非法。
A username is required. 用户名为空。	When configuring dropped packet counting based on users, the username cannot be null. 根据用户名进行丢包统计时用户名不允许为空。
A filter type is required. 过滤类型为空。	When configuring dropped packet counting based on filter conditions, the filter type cannot be null. 使用过滤条件进行丢包统计时过滤类型不能为空。
Not enough memory for the operation. 操作失败，当前设备内存不足。	When configuring dropped packet counting based on filter conditions, the device memory is not enough. 使用过滤条件进行丢包统计时设备内存空间不足。
Another statistics collection is in progress. Please wait... 同时只能有一个进程在配置，请稍候。	When configuring dropped packet counting based on filter conditions, another user is modifying the filter conditions. 使用过滤条件进行丢包统计时，其他用户尝试修改过滤条件。

Contents

EAA 1

EAA/System 1
XML structure 1
Table description 1
Columns 1
EAA/System/RtmSyslogBuffer 1
XML structure 2
Table description 2
Columns 2
EAA/Environments 2
XML structure 2
Table description 2
Columns 3
EAA/CliPolicys 3
XML structure 3
Table description 5
Columns 6
EAA/CliPolicys/CliPolicy 6
XML structure 6
Table description 6
Columns 6
EAA/CliPolicys/CliPolicy/CliPolicyEvent 7
XML structure 7
Table description 7
Columns 7
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli 9
XML structure 9
Table description 9
Columns 10
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug 10
XML structure 10
Table description 10
Columns 11
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface 11
XML structure 11
Table description 11
Columns 12
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess 13
XML structure 13
Table description 13
Columns 13
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp 14
XML structure 14
Table description 14
Columns 14
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification 15
XML structure 15
Table description 15
Columns 16
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSyslog 16
XML structure 16
Table description 16
Columns 17
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack 17
XML structure 17
Table description 17
Columns 18

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 19
EAA/CliPolicys/CliPolicy/CliPolicyActions ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 19
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction ····· 19
XML structure ····· 20
Table description ····· 20
Columns ····· 20
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 21
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSwitchover ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 25
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
EAA/CliPolicys/CliPolicy/CliPolicyUserRoles ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 27
EAA/ScriptPolicys ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27
EAA/Email ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
Appendix ····· 29

EAA

EAA/System

This table contains information about EAA.

XML structure

```
<EAA>
  <System>
    <RunStatus></RunStatus>
    <RtmSyslogBuffer>
      <SyslogBufferSize></SyslogBufferSize>
    </RtmSyslogBuffer>
  </System>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RunStatus	Monitor status of EAA	N/A	EnableState: • **enable** (default). • **disable**.	Monitor status of EAA.
RtmSyslogBuffer	RTM syslog buffer	Subtable	N/A	For more information, see the System/RtmSyslogBuffer table.

EAA/System/RtmSyslogBuffer

This table contains information about EAA.

XML structure

See the XML structure of EAA/System

Table description

Item	Description
Feature name	EAA
Table name	RtmSyslogBuffer
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyslogBuffer Size	Syslog buffer size	N/A	Unsigned integer. Value range: 1 to 500000	N/A

EAA/Environments

This table contains environment information about EAA.

XML structure

```
<EAA>
  <Environments>
    <Environment>
      <EnvironmentName></EnvironmentName>
      <EnvironmentValue></EnvironmentValue>
    </Environment>
  </Environments>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	Environments
Table type	Multi-instance table

Row name	Environment
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Environment Name	Environment name	Index	String. Length: 1 to 63 characters.	N/A
Environment Value	Environment value	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length. For environmental variables definition, please see “Appendix”.

EAA/CliPolicys

This table contains CLI policy information.

XML structure

```
<EAA>
  <CliPolicys>
    <CliPolicy>
      <CliPolicyName></CliPolicyName>
      <RunningTime></RunningTime>
      <CliPolicyEvent>
        <EventCli>
          <CliStatus></CliStatus>
          <Mode></Mode>
          <Pattern></Pattern>
        </EventCli>
        <EventHotplug>
          <HotplugStatus></HotplugStatus>
          <Chassis></Chassis>
          <Slot></Slot>
          <SubSlot></SubSlot>
        </EventHotplug>
        <EventInterface>
          <IfList></IfList>
          <MonitorObj></MonitorObj>
```

```
    <StartOp></StartOp>
    <StartVal></StartVal>
    <RestartOp></RestartOp>
    <RestartVal></RestartVal>
    <Interval></Interval>
  </EventInterface>
  <EventProcess>
    <ProcessType></ProcessType>
    <Name></Name>
    <Instance></Instance>
    <Chassis></Chassis>
    <Slot></Slot>
  </EventProcess>
  <EventSnmp>
    <Oid></Oid>
    <Monitor></Monitor>
    <StartOp></StartOp>
    <StartVal></StartVal>
    <RestartOp></RestartOp>
    <RestartVal></RestartVal>
    <Interval></Interval>
  </EventSnmp>
  <EventSnmpNotification>
    <Oid></Oid>
    <OidVal></OidVal>
    <Option></Option>
    <Drop></Drop>
  </EventSnmpNotification>
  <EventSyslog>
    <Priority></Priority>
    <Msg></Msg>
    <Occur></Occur>
    <Period></Period>
  </EventSyslog>
  <EventTrack>
    <TrackList></TrackList>
    <State></State>
    <SuppressTime></SuppressTime>
  </EventTrack>
  <EventPeriod>
    <Period></Period>
  </EventPeriod>
</CliPolicyEvent>
<CliPolicyActions>
  <CliPolicyAction>
    <ActionNum></ActionNum>
    <ActionContent>
      <ActionSyslog>
```

```
            <Priority></Priority>
            <Facility></Facility>
            <Msg></Msg>
          </ActionSyslog>
          <ActionReboot>
            <Reboot></Reboot>
            <Chassis></Chassis>
            <Slot></Slot>
            <SubSlot></SubSlot>
          </ActionReboot>
          <ActionSwitchover>
            <State></State>
          </ActionSwitchover>
          <ActionCli>
            <Command></Command>
          </ActionCli>
          <ActionEmail>
            <Rcpt></Rcpt>
            <Subject></Subject>
            <Content></Content>
          </ActionEmail>
        </ActionContent>
      </CliPolicyAction>
    </CliPolicyActions>
    <CliPolicyUserRoles>
      <CliPolicyUserRole>
        <UserRoleName></UserRoleName>
      </CliPolicyUserRole>
    </CliPolicyUserRoles>
  </CliPolicy>
 </CliPolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	CliPolicys
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicy	CliPolicy table	Sublist	N/A	For more information, see the EAA/CliPolicys/CliPolicy table.

EAA/CliPolicys/CliPolicy

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	CliPolicy
Table type	Multi-instance table
Row name	CliPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicyName	CLI policy name	Index	String. Length: 1 to 63 characters.	N/A
RunningTime	Action execution timeout	N/A	Unsigned integer. Value range: 0 to 31536000	0 means never time out.
CliPolicyEvent	CliPolicyEvent information of the CLI policy name	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent table.
CliPolicyActions	CliPolicyActions information of the CLI policy	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/Cli

Column name	Column description	Column type	Data type and restrictions	Remarks
	name			PolicyActions table.
CliPolicyUserRoles	CliPolicyUserRoles information of the CLI policy name	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyUserRoles table.

EAA/CliPolicys/CliPolicy/CliPolicyEvent

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyEvent
Table type	Single-instance table
Row name	N/A
Restrictions	Event tables are mutually exclusive and can not occur at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EventCli	Cli event information of the CLI policy	Subtable	N/A	EventCli tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli table.
EventHotplug	Hotplug event information of the CLI policy	Subtable	N/A	EventHotplug tables are mutually exclusive with other event tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
	name			For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug table.
EventInterface	Interface event information of the CLI policy name	Subtable	N/A	EventInterface tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface table.
EventProcess	Process event information of the CLI policy name	Subtable	N/A	EventProcess tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess table.
EventSnmp	Snmp event information of the CLI policy name	Subtable	N/A	EventSnmp tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp table.
EventSnmpNotification	SnmpNotification event information of the CLI policy name	Subtable	N/A	EventSnmpNotification tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification table.
EventSyslog	Syslog event information of the CLI policy name	Subtable	N/A	EventSyslog tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/Cli

Column name	Column description	Column type	Data type and restrictions	Remarks
				PolicyEvent/EventSyslog table.
EventTrack	Track event information of the CLI policy name	Subtable	N/A	EventTrack tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack table.
EventPeriod	Period event information of the CLI policy name	Subtable	N/A	Period tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod table.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli

This table contains EAA, CLI event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	EventCli
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliStatus	CLI type status	N/A	Enumeration: • **0**—sync. • **1**—async. • **2**—async-skip.	N/A
Mode	CLI monitoring mode	N/A	Enumeration: • **0**—tab. • **1**—help. • **2**—execute.	N/A
Pattern	Regular expression matching command line	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug

This table contains EAA, hotplug event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventHotplug
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HotplugStatus	Hotplug state	N/A	Enumeration: • **0**—all. • **1**—insert • **2**—remove.	N/A
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	65535 means not set subslot.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface

This table contains EAA, interface event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventInterface
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfList	List of interface items	N/A	Number string. It is a comma-separated list of interface items. An item can be an individual interface name or an interface range. Use a hyphen (-) to separate the start and end interface item of a range. The string cannot end with a comma or hyphen, or contain any spaces.	Up to 8 items can be entered. Example: null0,GigabitEthernet0/0/1-GigabitEthernet0/0/2.
MonitorObj	Monitoring object	N/A	Enumeration: • **0**—input-errors. • **1**—ouput-errors. • **2**—input-drops. • **3**—ouput-drops. • **4**—rcv-broadcasts. • **5**—rcv-bps. • **6**—rcv-pps. • **7**—tx-bps. • **8**—tx-pps. • **9**—tx-kbps. • **10**—rcv-kbps. • **11**—tx-kpps. • **12**—rcv-kpps.	N/A
StartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
StartVal	Value of the monitored objects	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RestartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
RestartVal	Value of the monitored objects	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Sampling period	N/A	Unsigned integer. Value range: 1 to 4294967295.	The default value is 300.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess

This table contains EAA, process event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventProcess
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessType	Process type	N/A	Enumeration: • **0**—start. • **1**—shutdown. • **2**—restart. • **3**—exception.	N/A
Name	Process name	N/A	String. Length: 1 to 63 characters.	N/A
Instance	Process ID	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp

This table contains EAA, SNMP event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSnmp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Oid	SNMP OID	N/A	String. Length: 1 to 256 characters.	N/A
Monitor	Monitor object	N/A	Enumeration: • **1**—get. • **2**—get-next.	N/A
StartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	
StartVal	Value of the monitored objects	N/A	String. Length: 1 to 512 characters.	N/A
RestartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
RestartVal	Value of the monitored objects	N/A	String. Length: 1 to 512 characters.	N/A
Interval	Sampling period	N/A	Unsigned integer. Value range: 1 to 4294967295.	The default value is 300.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification

This table contains EAA, SNMP notification event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSnmpNotification
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Oid	Trap SNMP OID	N/A	String. Length: 1 to 256 characters.	N/A
OidVal	OID value	N/A	String. Length: 1 to 512 characters.	N/A
Option	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
Drop	Drop trap	N/A	Boolean: • **false** (default). • **true**.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSyslog

This table contains EAA, Syslog event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSyslog
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Log level	N/A	Enumeration: • **0**—LOG_EMERG. • **1**—LOG_ALERT. • **2**—LOG_CRIT. • **3**—LOG_ERR. • **4**—LOG_WARNING. • **5**—LOG_NOTICE. • **6**—LOG_INFO. • **7**—LOG_DEBUG. • **8**—ALL.	N/A
Msg	Regular expression matching Syslog message	N/A	String. Length: 1 to 255 characters.	N/A
Occur	Occurrences	N/A	Unsigned integer. Value range: 1 to 32.	N/A
Period	Time range is seconds	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack

This table contains EAA, track event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventTrack
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackList	List of track items	N/A	Number string. It is a comma-separated list of track items. An item can be an individual track ID or a track ID range. Use a hyphen (-) to separate the start and end track item of a range. The string cannot end with a comma or hyphen, or contain any spaces.	The track list is in the range of 1 to 1024. Up to 16 items can be entered. Example: 1,2,3,5-8,10-20.
State	Monitor change status of track items	N/A	Enumeration: • **1**—positive. • **2**—negative.	N/A
SuppressTime	Suppress time	N/A	Unsigned integer.	The default value is 0.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod

This table contains EAA, period event policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventPeriod
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period for triger the event	N/A	Unsigned integer. • Value range: 1 to 43200	Period for triger the event in minutes.

EAA/CliPolicys/CliPolicy/CliPolicyActions

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyActions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicyAction	CliPolicyAction information	Sublist	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction table

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyAction
Table type	Multi-instance table
Row name	CliPolicyAction
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionNum	Action number	Index	Unsigned integer. Value range: 0 to 231	N/A
ActionContent	Action content	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent table.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionContent
Table type	Single-instance table
Row name	N/A

Restrictions	Action operations are mutually exclusive and only one type of action exists in the current table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionSyslog	Syslog action	Subtable	N/A	CliPolicyActionSyslog tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog table.
ActionReboot	Reboot action	Subtable	N/A	CliPolicyActionReboot tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot table.
ActionSwitchover	Switchover action	Subtable	N/A	CliPolicyActionSwitchover tables are mutually exclusive with other action tables.
ActionCli	CLI action	Subtable	N/A	CliPolicyActionCli tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli table.
ActionEmail	Email action	Subtable	N/A	CliPolicyActionEmail tables are mutually exclusive with other action tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
				For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail table.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionSyslog
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Log level	N/A	Enumeration: • **0**—LOG_EMERG. • **1**—LOG_ALERT. • **2**—LOG_CRIT. • **3**—LOG_ERR. • **4**—LOG_WARNING. • **5**—LOG_NOTICE. • **6**—LOG_INFO. • **7**—LOG_DEBUG.	N/A
Facility	Logging facility used by the log	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	host		• **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	
Msg	Output log contents	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionReboot
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reboot	Reboot operation	N/A	EnableState: • **enable**.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSwitchover

This table contains information about the switchover policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionSwitchover
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	state of switchover	N/A	EnableState: • **enable**.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionCli
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Command	Command line	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail

This table contains information about the email policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA

Table name	ActionEmail
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rcpt	Recipients of the email	N/A	String. Length: 1 to 255 characters.	Recipients of the email.
Subject	Email subject	N/A	String. Length: 1 to 255 characters.	Email subject.
Content	Email content	N/A	String. Length: 1 to 255 characters.	Email content.

EAA/CliPolicys/CliPolicy/CliPolicyUserRoles

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyUserRoles
Table type	Multi-instance table
Row name	CliPolicyUserRole
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserRoleName	CLI policy user role name	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no user role have set yet, or can repeat of up to 64.

EAA/ScriptPolicys

This table contains Tcl policy information.

XML structure

```
<EAA>
  <ScriptPolicys>
    <ScriptPolicy>
      <ScriptType></ScriptType>
      <PolicyName></PolicyName>
      <PolicyFile></PolicyFile>
    </ScriptPolicy>
  </ScriptPolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	ScriptPolicys
Table type	Multi-instance table
Row name	ScriptPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScriptType	script policy type	Index	Enumeration: • **2**—RTM_POLICYTYPE.	The script currently supported isTCL script, later may support other scripts.

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	script policy name	Index	String. Length: 1 to 63 characters.	N/A
PolicyFile	Script policy file	N/A	String. Length: 1 to 512 characters.	The script currently supported isTCL script, later may support other scripts. The TCL file suffix must be “.tcl”. TCL filename is case sensitive. The TCL file must be a file on the device storage medium. The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/Email

This table contains email information about EAA.

XML structure

```
<EAA>
  <Email>
    <Domain></Domain>
    <Username></Username>
    <Password></Password>
    <MaxSize></MaxSize>
  </Email>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	Email
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Email server domain	N/A	String. Length: 1 to 255 characters.	Email server domain.
Username	Email username	N/A	String. Length: 1 to 255 characters.	Email username.
Password	Email password	N/A	String. Length: 1 to 255 characters.	Email password.
MaxSize	Max size for an email	N/A	Unsigned integer. Value range: 1 to 50	Max size for an email in MB.

Appendix

EAA environment variables decouple the configuration of action arguments from the monitor policy so you can modify a policy easily.

An EAA environment variable is defined as a <*variable_name variable_value*> pair and can be used in different policies. When you define an action, you can enter a variable name with a leading dollar sign (**$***variable_name*). EAA will replace the variable name with the variable value when it performs the action.

To change the value for an action argument, modify the value specified in the variable pair instead of editing each affected monitor policy.

EAA environment variables include system-defined variables and user-defined variables.

System-defined variables

System-defined variables are provided by default, and they cannot be created, deleted, or modified by users. System-defined variable names start with an underscore (_) sign. The variable values are set automatically depending on the event setting in the policy that uses the variables.

System-defined variables include the following types:

- **Public variable**—Available for any events.
- **Event-specific variable**—Available only for a type of event.

Table 2 shows all system-defined variables.

Table 2 System-defined EAA environment variables by event type

Variable name	Description
Any event:	

Variable name	Description
_event_id	Event ID.
_event_type	Event type.
_event_type_string	Event type description.
_event_time	Time when the event occurs.
_event_severity	Severity level of an event.
CLI:	
_cmd	Commands that are matched.
Syslog:	
_syslog_pattern	Log message content.
Hotplug:	
_slot	(Centralized devices.) 0. (Distributed devices) ID of the slot where card hot-swapping occurs. (Centralized IRF devices.) ID of the member device that joins or leaves the IRF fabric.
_subslot	ID of the subslot where subcard hot-swapping occurs.
Interface:	
_ifname	Interface name.
SNMP:	
_oid	OID of the MIB variable where an SNMP operation is performed.
_oid_value	Value of the MIB variable.
SNMP-Notification:	
_oid	OID that is included in the SNMP notification.
Process:	
_process_name	Process name.

User-defined variables

You can use user-defined variables for all types of events.

User-defined variable names can contain digits, characters, and the underscore sign (_), except that the underscore sign cannot be the leading character.

Contents

EAA 1

EAA/System 1
XML structure 1
Table description 1
Columns 1
EAA/System/RtmSyslogBuffer 1
XML structure 2
Table description 2
Columns 2
EAA/Environments 2
XML structure 2
Table description 2
Columns 3
EAA/CliPolicys 3
XML structure 3
Table description 5
Columns 6
EAA/CliPolicys/CliPolicy 6
XML structure 6
Table description 6
Columns 6
EAA/CliPolicys/CliPolicy/CliPolicyEvent 7
XML structure 7
Table description 7
Columns 7
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli 9
XML structure 9
Table description 9
Columns 10
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug 10
XML structure 10
Table description 10
Columns 11
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface 11
XML structure 11
Table description 11
Columns 12
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess 13
XML structure 13
Table description 13
Columns 13
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp 14
XML structure 14
Table description 14
Columns 14
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification 15
XML structure 15
Table description 15
Columns 16
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSyslog 16
XML structure 16
Table description 16
Columns 17
EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack 17
XML structure 17
Table description 17
Columns 18

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod 18
XML structure 18
Table description 18
Columns 19
EAA/CliPolicys/CliPolicy/CliPolicyActions 19
XML structure 19
Table description 19
Columns 19
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction 19
XML structure 20
Table description 20
Columns 20
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent 20
XML structure 20
Table description 20
Columns 21
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog 22
XML structure 22
Table description 22
Columns 22
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot 23
XML structure 23
Table description 23
Columns 23
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSwitchover 24
XML structure 24
Table description 24
Columns 24
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli 25
XML structure 25
Table description 25
Columns 25
EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail 25
XML structure 25
Table description 25
Columns 26
EAA/CliPolicys/CliPolicy/CliPolicyUserRoles 26
XML structure 26
Table description 26
Columns 27
EAA/ScriptPolicys 27
XML structure 27
Table description 27
Columns 27
EAA/ActivePolicy 28
XML structure 28
Table description 28
Columns 29
EAA/RegisteredPolicy 29
XML structure 29
Table description 30
Columns 30
EAA/Email 31
XML structure 31
Table description 31
Columns 31

EAA

EAA/System

This table contains system information about EAA.

XML structure

```
<EAA>
  <System>
    <RunStatus></RunStatus>
    <RtmSyslogBuffer>
      <SyslogBufferSize></SyslogBufferSize>
    </RtmSyslogBuffer>
  </System>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RunStatus	Monitor status of EAA	N/A	EnableState: • **enable** (default). • **disable**.	Monitor status of EAA.
RtmSyslogBuffer	RTM syslog buffer	Subtable	N/A	For more information, see the System/RtmSyslogBuffer table.

EAA/System/RtmSyslogBuffer

This table contains syslog buffer information about EAA.

XML structure

See the XML structure of EAA/System

Table description

Item	Description
Feature name	EAA
Table name	RtmSyslogBuffer
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyslogBuffer Size	Syslog buffer size	N/A	Unsigned integer. Value range: 1 to 500000	N/A

EAA/Environments

This table contains environment information about EAA.

XML structure

```
<EAA>
  <Environments>
    <Environment>
      <EnvironmentName></EnvironmentName>
      <EnvironmentValue></EnvironmentValue>
    </Environment>
  </Environments>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	Environments
Table type	Multi-instance table

Row name	Environment
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Environment Name	Environment name	Index	String. Length: 1 to 63 characters.	N/A
Environment Value	Environment value	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length. For environmental variables definition, please see “Appendix”.

EAA/CliPolicys

This table contains CLI policy information.

XML structure

```
<EAA>
  <CliPolicys>
    <CliPolicy>
      <CliPolicyName></CliPolicyName>
      <RunningTime></RunningTime>
      <CliPolicyEvent>
        <EventCli>
          <CliStatus></CliStatus>
          <Mode></Mode>
          <Pattern></Pattern>
        </EventCli>
        <EventHotplug>
          <HotplugStatus></HotplugStatus>
          <Chassis></Chassis>
          <Slot></Slot>
          <SubSlot></SubSlot>
        </EventHotplug>
        <EventInterface>
          <IfList></IfList>
          <MonitorObj></MonitorObj>
```

```
    <StartOp></StartOp>
    <StartVal></StartVal>
    <RestartOp></RestartOp>
    <RestartVal></RestartVal>
    <Interval></Interval>
  </EventInterface>
  <EventProcess>
    <ProcessType></ProcessType>
    <Name></Name>
    <Instance></Instance>
    <Chassis></Chassis>
    <Slot></Slot>
  </EventProcess>
  <EventSnmp>
    <Oid></Oid>
    <Monitor></Monitor>
    <StartOp></StartOp>
    <StartVal></StartVal>
    <RestartOp></RestartOp>
    <RestartVal></RestartVal>
    <Interval></Interval>
  </EventSnmp>
  <EventSnmpNotification>
    <Oid></Oid>
    <OidVal></OidVal>
    <Option></Option>
    <Drop></Drop>
  </EventSnmpNotification>
  <EventSyslog>
    <Priority></Priority>
    <Msg></Msg>
    <Occur></Occur>
    <Period></Period>
  </EventSyslog>
  <EventTrack>
    <TrackList></TrackList>
    <State></State>
    <SuppressTime></SuppressTime>
  </EventTrack>
  <EventPeriod>
    <Period></Period>
  </EventPeriod>
</CliPolicyEvent>
<CliPolicyActions>
  <CliPolicyAction>
    <ActionNum></ActionNum>
    <ActionContent>
      <ActionSyslog>
```

```
            <Priority></Priority>
            <Facility></Facility>
            <Msg></Msg>
          </ActionSyslog>
          <ActionReboot>
            <Reboot></Reboot>
            <Chassis></Chassis>
            <Slot></Slot>
            <SubSlot></SubSlot>
          </ActionReboot>
          <ActionSwitchover>
            <State></State>
          </ActionSwitchover>
          <ActionCli>
            <Command></Command>
          </ActionCli>
          <ActionEmail>
            <Rcpt></Rcpt>
            <Subject></Subject>
            <Content></Content>
          </ActionEmail>
        </ActionContent>
      </CliPolicyAction>
    </CliPolicyActions>
    <CliPolicyUserRoles>
      <CliPolicyUserRole>
        <UserRoleName></UserRoleName>
      </CliPolicyUserRole>
    </CliPolicyUserRoles>
  </CliPolicy>
 </CliPolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	CliPolicys
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicy	CliPolicy table	Sublist	N/A	For more information, see the EAA/CliPolicys/CliPolicy table.

EAA/CliPolicys/CliPolicy

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	CliPolicy
Table type	Multi-instance table
Row name	CliPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicyName	CLI policy name	Index	String. Length: 1 to 63 characters.	N/A
RunningTime	Action execution timeout	N/A	Unsigned integer. Value range: 0 to 31536000	0 means never time out.
CliPolicyEvent	CliPolicyEvent information of the CLI policy name	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent table.
CliPolicyActions	CliPolicyActions information of the CLI policy	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/Cli

Column name	Column description	Column type	Data type and restrictions	Remarks
	name			PolicyActions table.
CliPolicyUserRoles	CliPolicyUserRoles information of the CLI policy name	Subtable	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyUserRoles table.

EAA/CliPolicys/CliPolicy/CliPolicyEvent

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyEvent
Table type	Single-instance table
Row name	N/A
Restrictions	Event tables are mutually exclusive and can not occur at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EventCli	Cli event information of the CLI policy	Subtable	N/A	EventCli tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli table.
EventHotplug	Hotplug event information of the CLI policy	Subtable	N/A	EventHotplug tables are mutually exclusive with other event tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
	name			For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug table.
EventInterface	Interface event information of the CLI policy name	Subtable	N/A	EventInterface tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface table.
EventProcess	Process event information of the CLI policy name	Subtable	N/A	EventProcess tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess table.
EventSnmp	Snmp event information of the CLI policy name	Subtable	N/A	EventSnmp tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp table.
EventSnmpNotification	SnmpNotification event information of the CLI policy name	Subtable	N/A	EventSnmpNotification tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification table.
EventSyslog	Syslog event information of the CLI policy name	Subtable	N/A	EventSyslog tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/Cli

Column name	Column description	Column type	Data type and restrictions	Remarks
				PolicyEvent/EventSyslog table.
EventTrack	Track event information of the CLI policy name	Subtable	N/A	EventTrack tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack table.
EventPeriod	Period event information of the CLI policy name	Subtable	N/A	Period tables are mutually exclusive with other event tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod table.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventCli

This table contains EAA, CLI event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys

Table description

Item	Description
Feature name	EAA
Table name	EventCli
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliStatus	CLI type status	N/A	Enumeration: • **0**—sync. • **1**—async. • **2**—async-skip.	N/A
Mode	CLI monitoring mode	N/A	Enumeration: • **0**—tab. • **1**—help. • **2**—execute	N/A
Pattern	Regular expression matching command line	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventHotplug

This table contains EAA, hotplug event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventHotplug
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HotplugStatus	Hotplug state	N/A	Enumeration: • **0**—all. • **1**—insert • **2**—remove.	N/A
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventInterface

This table contains EAA, interface event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventInterface
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfList	List of interface items	N/A	Number string. It is a comma-separated list of interface items. An item can be an individual interface name or an interface range. Use a hyphen (-) to separate the start and end interface item of a range. The string cannot end with a comma or hyphen, or contain any spaces.	Up to 8 items can be entered. Example: null0,GigabitEthernet0/0/1-GigabitEthernet0/0/2.
MonitorObj	Monitoring object	N/A	Enumeration: • **0**—input-errors. • **1**—output-errors. • **2**—input-drops. • **3**—ouput-drops. • **4**—rcv-broadcasts. • **5**—rcv-bps. • **6**—rcv-pps. • **7**—tx-bps. • **8**—tx-pps • **9**—tx-kbps. • **10**—rcv-kbps. • **11**—tx-kpps. • **12**—rcv-kpps.	N/A
StartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
StartVal	Value of the monitored objects	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RestartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
RestartVal	Value of the monitored objects	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Sampling period	N/A	Unsigned integer. Value range: 1 to 4294967295.	The default value is 300.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventProcess

This table contains EAA, process event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventProcess
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessType	Process type	N/A	Enumeration: • **0**—start. • **1**—shutdown. • **2**—restart. • **3**—exception.	N/A
Name	Process name	N/A	String. Length: 1 to 63 characters.	N/A
Instance	Process ID	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmp

This table contains EAA, SNMP event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSnmp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Oid	SNMP OID	N/A	String. Length: 1 to 256 characters.	N/A
Monitor	Monitor object	N/A	Enumeration: • **1**—get. • **2**—get-next.	N/A
StartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	
StartVal	Value of the monitored objects	N/A	String. Length: 1 to 512 characters.	N/A
RestartOp	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
RestartVal	Value of the monitored objects	N/A	String. Length: 1 to 512 characters.	N/A
Interval	Sampling period	N/A	Unsigned integer. Value range: 1 to 4294967295.	The default value is 300.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSnmpNotification

This table contains EAA, SNMP notification event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSnmpNotification
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Oid	Trap SNMP OID	N/A	String. Length: 1 to 256 characters.	N/A
OidVal	OID value	N/A	String. Length: 1 to 512 characters.	N/A
Option	Comparison operator	N/A	Enumeration: • **0**—gt. • **1**—ge. • **2**—eq. • **3**—ne. • **4**—le. • **5**—lt.	N/A
Drop	Drop trap	N/A	Boolean: • **false** (default). • **true**.	This column must be empty.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventSyslog

This table contains EAA, Syslog event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventSyslog
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Log level	N/A	Enumeration: • **0**—LOG_EMERG. • **1**—LOG_ALERT. • **2**—LOG_CRIT. • **3**—LOG_ERR. • **4**—LOG_WARNING. • **5**—LOG_NOTICE. • **6**—LOG_INFO. • **7**—LOG_DEBUG. • **8**—ALL.	N/A
Msg	Regular expression matching Syslog message	N/A	String. Length: 1 to 255 characters.	N/A
Occur	Occurrences	N/A	Unsigned integer. Value range: 1 to 32.	N/A
Period	Time range is seconds	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventTrack

This table contains EAA, track event, and monitor policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventTrack
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackList	List of track items	N/A	Number string. It is a comma-separated list of track items. An item can be an individual track ID or a track ID range. Use a hyphen (-) to separate the start and end track item of a range. The string cannot end with a comma or hyphen, or contain any spaces.	The track list is in the range of 1 to 1024. Up to 16 items can be entered. Example: 1,2,3,5-8,10-20.
State	Monitor change status of track items	N/A	Enumeration: • **1**-positive. • **2**-negative.	N/A
SuppressTime	Suppress time	N/A	Unsigned integer.	The default value is 0.

EAA/CliPolicys/CliPolicy/CliPolicyEvent/EventPeriod

This table contains EAA, period event policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	EventPeriod
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period for triger the event	N/A	Unsigned integer. • Value range: 1 to 43200	Period for triger the event in minutes.

EAA/CliPolicys/CliPolicy/CliPolicyActions

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyActions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CliPolicyAction	CliPolicyAction information	Sublist	N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction table

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyAction
Table type	Multi-instance table
Row name	CliPolicyAction
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionNum	Action number	Index	Unsigned integer. Value range: 0 to 231	N/A
ActionContent	Action content	Subtable	• N/A	For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent table.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionContent
Table type	Single-instance table
Row name	N/A

Restrictions	Action operations are mutually exclusive and only one type of action exists in the current table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionSyslog	Syslog action	Subtable	• N/A	CliPolicyActionSyslog tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog table.
ActionReboot	Reboot action	Subtable	• N/A	CliPolicyActionReboot tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot table.
ActionSwitchover	Switchover action	Subtable	• N/A	CliPolicyActionSwitchover tables are mutually exclusive with other action tables.
ActionCli	CLI action	Subtable	• N/A	CliPolicyActionCli tables are mutually exclusive with other action tables. For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli table.
ActionEmail	Email action	Subtable	• N/A	CliPolicyActionEmail tables are mutually exclusive with other action tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
				For more information, see the EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail table.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSyslog

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionSyslog
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Log level	N/A	Enumeration: • **0**—LOG_EMERG. • **1**—LOG_ALERT. • **2**—LOG_CRIT. • **3**—LOG_ERR. • **4**—LOG_WARNING. • **5**—LOG_NOTICE. • **6**—LOG_INFO. • **7**—LOG_DEBUG.	N/A
Facility	Logging facility used by the log	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	host		• **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	
Msg	Output log contents	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionReboot

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionReboot
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reboot	Reboot operation	N/A	EnableState: **enable**.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionSwitchover

This table contains information about the switchover policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionSwitchover
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	state of switchover	N/A	EnableState: • **enable**.	N/A

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionCli

This table contains information about the CLI policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	ActionCli
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Command	Command line	N/A	String. Length: 1 to 512 characters.	The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/CliPolicys/CliPolicy/CliPolicyActions/CliPolicyAction/ActionContent/ActionEmail

This table contains information about the email policy action.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA

Table name	ActionEmail
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rcpt	Recipients of the email	N/A	String. Length: 1 to 255 characters.	Recipients of the email.
Subject	Email subject	N/A	String. Length: 1 to 255 characters.	Email subject.
Content	Email content	N/A	String. Length: 1 to 255 characters.	Email content.

EAA/CliPolicys/CliPolicy/CliPolicyUserRoles

This table contains CLI policy information.

XML structure

See the XML structure of EAA/CliPolicys.

Table description

Item	Description
Feature name	EAA
Table name	CliPolicyUserRoles
Table type	Multi-instance table
Row name	CliPolicyUserRole
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserRoleName	CLI policy user role name	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no user role have set yet, or can repeat of up to 64.

EAA/ScriptPolicys

This table contains Tcl policy information.

XML structure

```
<EAA>
  <ScriptPolicys>
    <ScriptPolicy>
      <ScriptType></ScriptType>
      <PolicyName></PolicyName>
      <PolicyFile></PolicyFile>
    </ScriptPolicy>
  </ScriptPolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	ScriptPolicys
Table type	Multi-instance table
Row name	ScriptPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScriptType	script policy type	Index	Enumeration: • **2**—RTM_POLICYTYPE.	The script currently supported isTCL script, later may support other scripts.

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	script policy name	Index	String. Length: 1 to 63 characters.	N/A
PolicyFile	Script policy file	N/A	String. Length: 1 to 512 characters.	The script currently supported isTCL script, later may support other scripts. The TCL file suffix must be “.tcl”. TCL filename is case sensitive. The TCL file must be a file on the device storage medium. The actual length must be compatible with command line configuration. Users are required to ensure the validity of the length.

EAA/ActivePolicy

This table contains information about the active policy.

XML structure

```
<EAA>
  <ActivePolicys>
    <ActivePolicy>
      <JobID></JobID>
      <PolicyName></PolicyName>
      <PolicyType></PolicyType>
      <EventType></EventType>
      <TimeActive></TimeActive>
    </ActivePolicy>
  </ActivePolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	ActivePolicys

Table type	Multi-instance table
Row name	ActivePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobID	Job id	Index	Unsigned integer. Value range: 1 to 2147483647.	N/A
PolicyName	policy name	N/A	String. Length: 1 to 63 characters.	Monitoring strategy for executing action command.
PolicyType	Policy type	N/A	Enumeration: • **1**—CLI. • **2**—TCL.	N/A
EventType	Event type	N/A	Enumeration: • **0**—PROCESS. • **1**—INTERFACE. • **2**—HOTPLUG. • **3**—SYSLOG. • **4**—CLI. • **5**—SNMP. • **6**—SNMP_NOTIF. • **7**—TRACK. • **8**—EMPTY	N/A
TimeActive	Active time	N/A	String. Length: 1 to 63 characters.	N/A

EAA/RegisteredPolicy

This table contains information about the registered policy.

XML structure

```
<EAA>
  <RegisteredPolicys>
    <RegisteredPolicy>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <EventType></EventType>
      <TimeRegistered></TimeRegistered>
      <PolicyUserRole>
        <UserRoleName></UserRoleName>
      </PolicyUserRole>
```

```
    </RegisteredPolicy>
  </RegisteredPolicys>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	RegisteredPolicy
Table type	Multi-instance table
Row name	RegisteredPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyType	Policy type	Index	Enumeration: • **1**—CLI. • **2**—TCL.	N/A
PolicyName	policy name	Index	String. Length: 1 to 63 characters.	N/A
EventType	Event type	N/A	Enumeration: • **0**—PROCESS. • **1**—INTERFACE. • **2**—HOTPLUG. • **3**—SYSLOG. • **4**—CLI. • **5**—SNMP. • **6**—SNMP_NOTIF. • **7**—TRACK. • **8**—EMPTY	N/A
TimeRegistered	Registered time	N/A	String. Length: 1 to 63 characters.	N/A
PolicyUserRole	User role of a registration police.	Data structure	Members include: • UserRoleName	Multi-instance. The device can configure 64 effective user roles.
UserRoleName	Policy user role name	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no user role have set yet, or can repeat of up to 64.

EAA/Email

This table contains email information about EAA.

XML structure

```
<EAA>
  <Email>
    <Domain></Domain>
    <Username></Username>
    <Password></Password>
    <MaxSize></MaxSize>
  </Email>
</EAA>
```

Table description

Item	Description
Feature name	EAA
Table name	Email
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Email server domain	N/A	String. Length: 1 to 255 characters.	Email server domain.
Username	Email username	N/A	String. Length: 1 to 255 characters.	Email username.
Password	Email password	N/A	String. Length: 1 to 255 characters.	Email password.
MaxSize	Max size for an email	N/A	Unsigned integer. Value range: 1 to 50	Max size for an email in MB.

Contents

EMAIL 2
EMAIL/ClearEmailServerTest 2
XML structure 2
Table description 2
Columns 2

EMAIL

EMAIL/ClearEmailServerTest

This table is used to test the e-mail server.

XML structure

```
<EMAIL>
  <ClearEmailServerTest>
    <Domain></Domain>
    <Ipv4Address></Ipv4Address>
    <PortNumber></PortNumber>
    <ClientAuthEnable></ClientAuthEnable>
    <UserName></UserName>
    <SimpleKey></SimpleKey>
    <Clear></Clear>
  </ClearEmailServerTest>
</EMAIL>
```

Table description

Item	Description
Feature name	EMAIL
Table name	ClearEmailServerTest
Table type	single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Domain address for e-mail server.	N/A	String, case-insensitive. Dotted decimal notation. Length: 1 to 253 characters. By default, no domain is	The string can contain letters, numbers, hyphens(-), underscores (_), and dots (.). The domain name supports wildcards including question

Column name	Column description	Column type	Data type and restrictions	Remarks
			specified.	marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time. Domain separated by dot(.), each segment shall not exceed 63 characters.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	N/A
ClientAuthEnable	Enable the client authentication.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|"',:%<>/\). This column can't be configured only when the ClientAuthEnable

Column name	Column description	Column type	Data type and restrictions	Remarks
				is enable(1).
SimpleKey	E-mail server login password in plaintext form.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Configure CipherKey or SimpleKey, but not both. This column cannot be configured if the username is not configured. This column can’t be configured only when the ClientAuthEnable is enable(1).
Clear	Action of testing the specified email server.	N/A	This column must be empty.	N/A

Contents

EMAIL 2
EMAIL/SendEmails 2
XML structure 2
Table description 2
Columns 2
EMAIL/EmailServers 4
XML structure 4
Table description 4
Columns 4

EMAIL

EMAIL/SendEmails

This table contains information about the sending email configuration.

XML structure

```
<EMAIL>
  <SendEmails>
    <SendEmail>
      <Type></Type>
      <Event></Event>
      <EmailSubject></EmailSubject>
      <EmailRecipients></EmailRecipients>
      <EmailSender></EmailSender>
      <Frequency></Frequency>
      <Enable></Enable>
      <EmailServerList>
        <EmailServer></EmailServer>
      </EmailServerList>
    </SendEmail>
  </SendEmails>
</EMAIL>
```

Table description

Item	Description
Feature name	EMAIL
Table name	SendEmails
Table type	Multi-instance table
Restrictions	Only sending email configuration can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Send email	Index	Enumeration:	When one type of sending email configuration is created,

Column name	Column description	Column type	Data type and restrictions	Remarks
	event type.		• 1—warning.	the column must be specified. Once created, this column cannot be changed.
Event	Warning event type.	N/A	Enumeration: • 1—link-failure. • 2—network-attack. • 4—node-failure.	The event value and enumeration value execute & operation, if the operation result not equal to zero means this event type has been chosen. This column can't be configured only when the e-mail type is warning(1).
EmailSubject	Subject for e-mail.	N/A	String. Length: 1 to 255 characters.	String cannot include special characters as follows: (&|"',:%<>/\).
EmailRecipients	E-mail receiver address.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Multiple e-mail recipients can be configured, each e-mail recipient separated by semicolon(;).
EmailSender	E-mail sender address.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Only one e-mail sender can be configured.
Frequency	Frequency for sending mail.	N/A	Unsigned integer. Value range: 60 to 3600. Unit: second. By default, the value is 60.	N/A
Enable	Enable the email sending.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
EmailServerList	Email server list for sending email.	Data structure	Members include: • EmailServer.	N/A
EmailServer	E-mail server for e-mail warning.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|"',:%<>/\).

EMAIL/EmailServers

This table contains information about the e-mail server.

XML structure

```
<EMAIL>
  <EmailServers>
    <EmailServer>
      <Name></Name>
      <Domain></Domain>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <ClientAuthEnable></ClientAuthEnable>
      <UserName></UserName>
      <CipherKey></CipherKey>
      <SimpleKey></SimpleKey>
    </EmailServer>
  </EmailServers>
</EMAIL>
```

Table description

Item	Description
Feature name	EMAIL
Table name	EmailServers
Table type	Multi-instance table
Row name	EmailServer
Restrictions	Only e-mail server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the e-mail server.	Index	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\).

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Domain address for e-mail server.	N/A	String, case-insensitive. Dotted decimal notation. Length: 1 to 253 characters. By default, no domain is specified.	The string can contain letters, numbers, hyphens(-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time. Domain separated by dot (.), each segment shall not exceed 63 characters.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	N/A
ClientAuthE	Enable the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nable	client authentication.		• 0—Disable (default). • 1—Enable.	
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\). This column can't be configured only when the ClientAuthEnable is enable(1).
CipherKey	E-mail server login password in encrypted form.	N/A	String, case-sensitive. Length: 1 to 117 characters.	Configure CipherKey or SimpleKey, but not both. This column cannot be configured if the username is not configured. This column can't be configured only when the ClientAuthEnable is enable(1).
SimpleKey	E-mail server login password in plaintext form.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Configure CipherKey or SimpleKey, but not both. This column cannot be configured if the username is not configured. This column can't be configured only when the ClientAuthEnable is enable(1).

Contents

EMAIL 2
EMAIL/SendEmails 2
XML structure 2
Table description 2
Columns 2
EMAIL/EmailServers 3
XML structure 3
Table description 4
Columns 4

EMAIL

EMAIL/SendEmails

This table contains information about the sending email configuration.

XML structure

```
<EMAIL>
  <SendEmails>
    <SendEmail>
      <Type></Type>
      <Event></Event>
      <EmailSubject></EmailSubject>
      <EmailRecipients></EmailRecipients>
      <EmailSender></EmailSender>
      <Frequency></Frequency>
      <Enable></Enable>
      <EmailServerList>
        <EmailServer></EmailServer>
      </EmailServerList>
    </SendEmail>
  </SendEmails>
</EMAIL>
```

Table description

Item	Description
Feature name	EMAIL
Table name	SendEmails
Table type	Multi-instance table
Restrictions	Only sending email configuration can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Send email event type.	Index	Enumeration: • 1—warning.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Event	Warning event type.	N/A	Enumeration: • 1—link- failure. • 2—network-attack. • 4—node-failure.	N/A
EmailSubject	Subject for e-mail.	N/A	String. Length: 1 to 255 characters.	N/A
EmailRecipients	E-mail receiver address.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
EmailSender	E-mail sender address.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Frequency	Frequency for sending mail.	N/A	Unsigned integer. Value range: 60 to 3600. Unit: second. By default, the value is 60.	N/A
Enable	Enable the email sending.	N/A	Enumeration: • 0—Disable (default). • 1—Enable	N/A
EmailServerList	Email server list for sending email.	Data structure	Members include: • EmailServer	N/A
EmailServer	E-mail server for e-mail warning.	N/A	String. Length: 1 to 63 characters.	N/A

EMAIL/EmailServers

This table contains information about the e-mail server.

XML structure

```
<EMAIL>
  <EmailServers>
    <EmailServer>
      <Name></Name>
      <Domain></Domain>
      <Ipv4Address></Ipv4Address>
```

```
      <PortNumber></PortNumber>
      <ClientAuthEnable></ClientAuthEnable>
      <UserName></UserName>
      <CipherKey></CipherKey>
    </EmailServer>
  </EmailServers>
</EMAIL>
```

Table description

Item	Description
Feature name	EMAIL
Table name	EmailServers
Table type	Multi-instance table
Row name	EmailServer
Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the e-mail server.	Index	String. Length: 1 to 63 characters.	N/A
Domain	Domain address for e-mail server.	N/A	String, case-insensitive. Dotted decimal notation. Length: 1 to 253 characters. By default, no domain is specified.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	N/A
ClientAuthEnable	Enable the client	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication.		• 0—Disable (default). • 1—Enable.	
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	N/A
CipherKey	E-mail server login password in encrypted form.	N/A	String, case-sensitive. Length: 1 to 117 characters.	N/A

Contents

EMDI 1
EMDI/ClearStatistics 1
XML structure 1
Table description 1
Columns 1
EMDI/StartInstances 1
XML structure 1
Table description 2
Columns 2
EMDI/StopInstances 2
XML structure 2
Table description 2
Columns 3

EMDI

EMDI/ClearStatistics

The ClearStatistics table is used to clear statistics from the monitoring instance.

XML structure

```
<EMDI>
  <ClearStatistics>
    <ClearStatistic>
      <InstanceName></InstanceName>
    </ClearStatistic>
  </ClearStatistics>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	ClearStatistics
Table type	Multi-instance table
Row name	ClearStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	The name of Instance.	index	String. Length: 1 to 31 characters.	If you do not specify an Instance Name, the statistics of all eMDI instances will be cleared.

EMDI/StartInstances

The StartInstances table is used to start the current monitoring instance.

XML structure

```
<EMDI>
  <StartInstances>
```

```
    <StartInstance>
      <InstanceName></InstanceName>
    </StartInstance>
  </StartInstances>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	StartInstances
Table type	Multi-instance table
Row name	StartInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	The name of Instance.	index	String. Length: 1 to 31 characters.	N/A

EMDI/StopInstances

The StopInstances table is used to stop the execution of the current monitoring instance immediately.

XML structure

```
<EMDI>
  <StopInstances>
    <StopInstance>
      <InstanceName></InstanceName>
    </StopInstance>
  </StopInstances>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	StopInstances
Table type	Multi-instance table

Row name	StopInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	The name of Instance.	index	String. Length: 1 to 31 characters.	If you do not specify an instance name, all eMDI instances will be stopped.

Contents

EMDI 1
EMDI/GlobalStatus 1
XML structure 1
Table description 1
Columns 1
EMDI/Instances 1
XML structure 1
Table description 2
Columns 2

EMDI

EMDI/GlobalStatus

This table contains global eMDI status information.

XML structure

```
<EMDI>
  <GlobalStatus>
    <Enable></Enable>
  </GlobalStatus>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	GlobalStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling eMDI	Column	Boolean: • true • false	To configure eMDI, you must enable eMDI globally.

EMDI/Instances

This table contains eMDI instance information.

XML structure

```
<EMDI>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
```

```
      <Description></Description>
      <RtplrThreshold></RtplrThreshold>
      <RtpserThreshold></RtpserThreshold>
      <UplrThreshold></UplrThreshold>
      <DplrThreshold></DplrThreshold>
      <SuppressTimes></SuppressTimes>
      <MonitorPeriod></MonitorPeriod>
      <Lifetime>
        <TimeType></TimeType>
        <Value></Value>
      </Lifetime>
      <Protocol></Protocol>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
      <VXLANID></VXLANID>
      <VRF></VRF>
      <PtValue></PtValue>
      <ClockRate></ClockRate>
      <Fec>
        <Window></Window>
        <Threshold></Threshold>
      </Fec>
      <AutoStart></AutoStart>
    </Instance>
  </Instances>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	eMDI instance	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 31 characters.	
Description	Instance description	N/A	String. Length: 1 to 255 characters.	N/A
RtplrThreshold	Alarm threshold for the RTP packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000. Default：100.	N/A
RtpserThreshold	Alarm threshold for the RTP packet sequence error rate	N/A	Unsigned integer. Value range: 1 to 100000. Default：100.	N/A
UplrThreshold	Alarm threshold for the upstream TCP packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000. Default：100.	N/A
DplrThreshold	Alarm threshold for the downstream TCP packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000. Default：100.	N/A
SuppressTimes	Number of consecutive alarms to be suppressed before logging the event	N/A	Unsigned integer. Value range: 0 to 60. Default：3.	N/A
MonitorPeriod	Monitoring period in seconds	N/A	Enumeration: • 10 • 30 • 60 Default：60.	N/A
Lifetime	eMDI instance lifetime	Data structure	Members include: • TimeType • Value Default：1 hour.	N/A
TimeType	Unit for the lifetime value	N/A	Enumeration: • days • hours • minutes • seconds	N/A
Value	Lifetime Value	N/A	Unsigned integer. days: 1 to 7. hours :1 to 168. minutes :5 to 10080. seconds: 300 to 604800.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Transport Layer Protocol	N/A	Enumeration: • TCP. • UDP.	N/A
SrcIpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DstIpAddress	Destination IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
SrcPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VXLANID	VXLAN ID	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
VRF	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A
PtValue	RTP packet payload type	N/A	Unsigned integer. Value range: 25-71, 77-127.	This column is supported only if the value of the Protocol column is UDP.
ClockRate	RTP packet clock frequency in Hz	N/A	Enumeration: • 8000. • 16000. • 90000. Default: 90000.	This column is supported only if the value of the Protocol column is UDP.
Fec	Forward Error Correction parameters	Data structure	Members include: • Window • Threshold	N/A
Window	Sliding window size	N/A	Unsigned integer. Value range: 10 to 1000.	N/A
Threshold	Packet loss threshold in packets	N/A	Unsigned integer. Value range: 1 to 100.	N/A
AutoStart	Start the eMDI intstance	N/A	Boolean: • true. • false.	Whether to start the current monitoring instance.False does not mean stopping.

Contents

EMDI 1
EMDI/GlobalStatus 1
XML structure 1
Table description 1
Columns 1
EMDI/Instances 1
XML structure 1
Table description 2
Columns 3
EMDI/Information 5
XML structure 5
Table description 5
Columns 6
EMDI/Information/GlobalInfo 6
XML structure 6
Table description 6
Columns 6
EMDI/Information/LocalInfos 8
XML structure 8
Table description 8
Columns 8
EMDI/Statistics 9
XML structure 9
Table description 9
Columns 10
EMDI/Statistics/RecordEntries 10
XML structure 10
Table description 10
Columns 10

EMDI

EMDI/GlobalStatus

This table contains global eMDI status information.

XML structure

```
<EMDI>
  <GlobalStatus>
    <Enable></Enable>
  </GlobalStatus>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	GlobalStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling eMDI	Column	Boolean: • true • false	To configure eMDI, you must enable eMDI globally.

EMDI/Instances

This table contains EMDI/Instances information.

XML structure

```
<EMDI>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
```

```
      <Description></Description>
      <Status></Status>
      <Protocol></Protocol>
      <Type></Type>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
      <VRF></VRF>
      <VXLANID></VXLANID>
      <PtValue></PtValue>
      <ClockRate></ClockRate>
      <SuppressTimes></SuppressTimes>
      <MonitorPeriod></MonitorPeriod>
      <Lifetime>
        <TimeType></TimeType>
        <Value></Value>
      </Lifetime>
      <MonitorPeriodPassed></MonitorPeriodPassed>
      <RunningTime></RunningTime>
      <NormalPeriods></NormalPeriods>
      <AbnormalPerids></AbnormalPerids>
      <UplrThreshold></UplrThreshold>
      <DplrThreshold></DplrThreshold>
      <RtplrThreshold></RtplrThreshold>
      <RtpserThreshold></RtpserThreshold>
      <Fec>
        <Window></Window>
        <Threshold></Threshold>
      </Fec>
    </Instance>
  </Instances>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	eMDI instance name	Index	String. Length: 1 to 31 characters.	N/A
Description	Instance description	N/A	String. Length: 1 to 255 characters.	N/A
Status	Monitor the running status of an instance	N/A	Enumeration: • Active • Deactive	N/A
Protocol	Transport Protocol	N/A	Enumeration: • TCP • UDP	N/A
Type	Types created by the current instance	N/A	Enumeration: • Static • Dynamic	N/A
SrcIpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DstIpAddress	Destination IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
SrcPort	Source port	N/A	Unsigned integer. Value range 1 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range 1 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range 1 to 4094.	N/A
VXLANID	VXLAN ID	N/A	Unsigned integer. Value range 0 to 16777215.	N/A
VRF	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A
PtValue	RTP packet payload type	N/A	Unsigned integer. Value range 25-71, 77-127.	N/A
ClockRate	RTP packet clock frequency in Hz	N/A	Enumeration: • 8000 • 16000 • 90000	N/A
SuppressTimes	Number of consecutive alarms to be suppressed before logging the event	N/A	Unsigned integer. Value range 0 to 60.	N/A
MonitorPeriod	Monitoring period in seconds	N/A	Enumeration: • 10 • 30	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 60	
Lifetime	eMDI instance lifetime	Data structure	Members include: • TimeType • Value	N/A
TimeType	Unit for the lifetime value	N/A	Enumeration: • seconds • minutes • hours • days	N/A
Value	Lifetime Value	N/A	Unsigned integer.	N/A
MonitorPeriodPassed	Current monitoring cycle	N/A	Unsigned integer.	N/A
RunningTime	Currently monitored time	N/A	String.	Example:1 days 10 h 20 min 30 sec
NormalPeriods	Number of Normal Periods of Indicators	N/A	Unsigned integer.	N/A
AbnormalPerids	Periodic Number of Indicator Abnormalities	N/A	Unsigned integer.	N/A
UplrThreshold	Alarm threshold for the upstream TCP packet loss rate	N/A	Unsigned integer. Value range 10 to 100000.	N/A
DplrThreshold	Alarm threshold for the downstream TCP packet loss rate	N/A	Unsigned integer. Value range 10 to 100000.	N/A
RtplrThreshold	Alarm threshold for the RTP packet loss rate	N/A	Unsigned integer. Value range 10 to 100000.	N/A
RtpserThreshold	Alarm threshold for the RTP packet sequence error rate.	N/A	Unsigned integer. Value range 10 to 100000.	N/A
Fec	Forward Error Correction parameters	Data structure	Members include: • Window • Threshold	N/A
Window	Sliding window size	N/A	Unsigned integer. Value range 10 to 1000.	N/A
Threshold	Packet loss threshold in packets	N/A	Unsigned integer. Value range 1 to 100.	N/A

EMDI/Information

This table contains EMDI/Information information.

XML structure

```
<EMDI>
  <Information>
    <GlobalInfo>
      <SpecInfo>
        <MaxInstances></MaxInstances>
        <MaxUDPInstances></MaxUDPInstances>
        <MaxTCPInstances></MaxTCPInstances>
        <MaxStaticInstances></MaxStaticInstances>
        <MaxDynamicInstances></MaxDynamicInstances>
      </SpecInfo>
      <ConfigInfo>
        <ConfigInstances></ConfigInstances>
        <RunningInstances></RunningInstances>
        <RunningUDPInstances></RunningUDPInstances>
        <RunningTCPInstances></RunningTCPInstances>
        <RunningStaticInstances></RunningStaticInstances>
        <RunningDynamicInstances></RunningDynamicInstances>
      </ConfigInfo>
    </GlobalInfo>
    <LocalInfos>
      <LocalInfo>
        <SlotID></SlotID>
        <MaxInstances></MaxInstances>
        <ConfigInstances></ConfigInstances>
      </LocalInfo>
    </LocalInfos>
  </Information>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	Information
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	Global specification and configuration information.	Subtable	N/A	N/A
LocalInfos	Local specification and configuration information	Subtable	N/A	N/A

EMDI/Information/GlobalInfo

This table contains EMDI/Information/Global information

XML structure

See the XML structure of EMDI/Information

Table description

Item	Description
Feature name	EMDI
Table name	GlobalInfo
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SpecInfo	Specification information for the main control board	Data structure	Members include: • MaxInstances • MaxUDPInstances • MaxTCPInstances • MaxStaticInstances • RunningStaticInstances	N/A
MaxInstances	Maximum number of monitoring instances supported by the master or interface board	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxUDPInstances	Maximum number of monitoring instances for monitoring UDP messages	N/A	Unsigned integer.	N/A
MaxTCPInstances	Maximum number of monitoring instances for monitoring TCP messages	N/A	Unsigned integer.	N/A
MaxStaticInstances	Maximum number of monitoring instances that support static configuration	N/A	Unsigned integer.	N/A
MaxDynamicInstances	Maximum number of monitoring instances that support dynamic configuration	N/A	Unsigned integer.	N/A
ConfigInfo	Interface board specifications and configuration information	Data structure	Members include: • ConfigInstances • RunningInstances • RunningUDPInstances • RunningTCPInstances • RunningStaticInstances • RunningDynamicInstances	N/A
ConfigInstances	Number of monitoring instances currently configured on the interface board	N/A	Unsigned integer.	N/A
RunningInstances	Number of monitoring instances currently launched	N/A	Unsigned integer.	N/A
RunningUDPInstances	Number of monitoring instances currently monitored UDP messages	N/A	Unsigned integer.	N/A
RunningTCPInstances	Number of monitoring instances currently monitoring TCP messages	N/A	Unsigned integer.	N/A
RunningStaticInst	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ances	monitoring instances for the current static configuration			
RunningDynamicInstances	Number of monitoring instances currently dynamically configured	N/A	Unsigned integer.	N/A

EMDI/Information/LocalInfos

This table contains EMDI/Information/Local information.

XML structure

See the XML structure of EMDI/Information

Table description

Item	Description
Feature name	EMDI
Table name	LocalInfos
Table type	Multi-instance table
Row name	LocalInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Number of Slot	Index	Unsigned integer.	N/A
MaxInstances	Maximum number of monitoring instances supported by the master or interface board	N/A	Unsigned integer.	N/A
ConfigInstances	Number of monitoring instances currently configured on the interface board	N/A	Unsigned integer.	N/A

EMDI/Statistics

This table contains EMDI/StatisticalSummary information.

XML structure

```
<EMDI>
  <Statistics>
    <Statistic>
      <InstanceName></InstanceName>
      <MonitorPeriod></MonitorPeriod>
      <Protocol></Protocol>
      <RecordEntries>
        <RecordEntry>
          <Index></Index>
          <Timestamp></Timestamp>
          <Status></Status>
          <RTPLR></RTPLR>
          <RTPSER></RTPSER>
          <Jitter></Jitter>
          <RTPLP></RTPLP>
          <RTPELF></RTPELF>
          <Rate></Rate>
          <DPLR></DPLR>
          <UPLR></UPLR>
          <DRTT></DRTT>
          <URTT></URTT>
        </RecordEntry>
      </RecordEntries>
    </Statistic>
  </Statistics>
</EMDI>
```

Table description

Item	Description
Feature name	EMDI
Table name	Statistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	eMDI instance name	Index	String. Length: 1 to 31 characters.	N/A
MonitorPeriod	Monitoring period in seconds	N/A	Enumeration: • 10. • 30. • 60.	N/A
Protocol	Transport protocol.	N/A	Enumeration: • TCP • UDP	N/A
RecordEntries	Emdi Monitor Record Entries.	Subtable	N/A	N/A

EMDI/Statistics/RecordEntries

This table contains EMDI/ Statistics/RecordEntries information.

XML structure

See the XML structure of EMDI/Statistics

Table description

Item	Description
Feature name	EMDI
Table name	RecordEntries
Table type	Multi-instance table
Row name	RecordEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	The index of record entries	Index	Unsigned integer.	N/A
Timestamp	The moment when the statistic is recorded	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	Example: 2018-09-17T17:02:00
Status	Monitor the status of an	N/A	Enumeration: • Normal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	instance		• Abnormal	
RTPLR	RTP packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
RTPSER	RTP packet out of secquency rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
Jitter	RTP packet jitter	N/A	Unsigned integer.	N/A
RTPLP	RTP packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
RTPELF	RTP packet out of secquency rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
Rate	Average bit rate	N/A	Unsigned integer.	N/A
DPLR	Downstream packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
UPLR	Upstream packet loss rate	N/A	Unsigned integer. Value range: 1 to 100000	N/A
DRTT	Average two-way delay downstream of the monitoring point	N/A	Unsigned integer. Value range: 1 to 100000	N/A
URTT	Average two-way delay upstream of the monitoring point	N/A	Unsigned integer. Value range: 1 to 100000	N/A

Contents

EMDI ····· 1

EMDI/Instances ····· 1
EMDI/Information ····· 2
EMDI/Statistics ····· 3

EMDI

EMDI/Instances

Message	Explanation
“Please first specify the data flow to be monitored. ” “配置此命令前未指定实例的目标数据流。”	The target flow is not configured. 监控目标流尚未配置。
“The data flow doesn't support the threshold type. ” “配置的告警阈值类型与目标流的类型不匹配。”	The alarm type does not match the target flow type. 告警类型和目标流类型不匹配。
“The eMDI instance is already started. To modify the configuration for the instance, stop the instance first. ” “试图修改已经启动的监控实例的告警阈值。”	If you want to modify the parameter, please stop the instance first. 如果需要修改参数，请先停止当前监控实例。
“eMDI is not configured. ” “输入此显示命令前emdi进程未启动。”	eMDI is not configured. eMDI 未配置。
“eMDI is not enabled. ” “输入此显示命令前未开启emdi。”	eMDI is not enabled. eMDI未使能。
“The instance doesn’t exist. ” “显示的实例不存在。”	The instance doesn’t exist. 该实例不存在。
“The flow is already bound to another eMDI instance. ” “不同的实例下配置相同的目标流。”	The target flow has been configured by another instance. 该目标流已经被其他实例配置。
“The eMDI instance is already started. To modify the configuration for the instance, stop the instance first. ”	If you want to modify the parameter, please stop the instance first. 如果需要修改参数，请先停止当前监控实例。

“试图修改已经启动的监控实例的目标流。”	
“Maximum number of eMDI instances already reached. ” “创建的实例数已超过最大值。”	The number of eMDI instances exceeds the maximum . eMDI 实例的数量超过最大值了。
“Please first specify the data flow to be monitored.” “启动实例前未配置监控的目标数据流。”	The monitored target data stream is not configured. 监控目标数据流尚未配置。
“Please first specify the UDP data flow to be monitored.” “配置此命令前未指定监控实例所监控的UDP目标流。”	The UDP data flow to be monitored is not specified. 未指定需要监控的 UDP 目标流。
“The data flow is not a UDP data flow. FEC is available only for a UDP data flow. ” “配置的滑动窗口和阈值与目标流的类型不匹配。”	FEC does not match the target flow type. FEC和目标流类型不匹配。
“The eMDI instance is already started. To modify the configuration for the instance, stop the instance first. ” “试图修改已经启动的监控实例的滑动窗口和阈值。”	If you want to modify the parameter, please stop the instance first. 如果需要修改参数，请先停止当前监控实例。
“Addresses need to bind to the target flow.” 地址需绑定目标流	Addresses need to bind to the target flow. 地址需绑定目标流
“Only UDP can be configured.” 仅UDP配置	Current configuration only supports UDP data flow. 当前配置仅支持 UDP 目标流.
“The eMDI measurement is inactive because the VPN instance does not exist.” eMDI测量处于未激活状态，因为VPN实例不存在。	“The eMDI measurement is inactive because the VPN instance does not exist.” eMDI 测量处于未激活状态，因为 VPN 实例不存在。

EMDI/Information

Message	Explanation
“eMDI is not configured. ” “输入此显示命令前emdi进程未启动。”	eMDI is not configured. 未配置 eMDI。
“eMDI is not enabled. ” “输入此显示命令前未开启emdi。”	eMDI is not enabled. eMDI 未使能。
“Maximum number of service modules in the group	The number of board sets exceeds the maximum.

already reached. ” “创建的单板组数量超过最大规格。”	单板组数量超过最大值。。
“The service module group doesn’t exist . ” “被绑定的单板组不存在。”	Service module group doesn’t exist. 绑定的单板组不存在。
“The instance is already bound to another service module group. ” “当前实例已绑定到其他单板组。”	The instance has been bound by another service module group. 当前实例下已经绑定过其他单板组。
“Please specify a service module group with members, or first add members to the service module. ” “绑定的单板组为空单板组。”	The service module group has no member. 绑定的单板组为空单板组。
“The service module doesn't support eMDI.” “所指定需要绑定的板不支持eMDI。”	The service module doesn't support eMDI. 该板不支持eMDI。
“Maximum number of service modules in the group already reached. ” “所要绑定的板已达到最大规格。”	The service modules to be bound has reached the maximum. 要绑定的单板已达到最大规格。

EMDI/Statistics

Message	Explanation
“eMDI is not configured. ” “输入此显示命令前emdi进程未启动。”	eMDI is not configured. 未配置 eMDI。
“eMDI is not enabled. ” “输入此显示命令前未开启emdi。”	eMDI is not enabled. eMDI 未使能。
“The instance doesn’t exist.” “显示的实例不存在。”	The instance doesn’t exist. 该实例不存在。
“No abnormal-flow periods.” “指定的实例无异常统计周期的数据。”	The instance doesn’t exist abnormal data. 该实例不存在异常数据。
“Please start the instance first. “指定的实例还未启动。”	Please start the instance first. 请先启动实例。
“No statistics yet. “实例刚启动监控，还没有产生监控结果。”	There is no statistics existing, please wait for at least a monitor period. 没有统计数据，请至少等待一个监控周期。
“The eMDI instance is already started. To modify	If you want to modify the parameter, please stop the instance

Message	Explanation
the configuration for the instance, stop the instance first. ” “试图修改已经启动的监控实例的监控时间。”	first. 如果需要修改参数，请先停止当前监控实例。
“The eMDI instance is already started. To modify the configuration for the instance, stop the instance first. ” “试图修改已经启动的监控实例的监控周期。”	If you want to modify the parameter, please stop the instance first. 如果需要修改参数，请先停止当前监控实例。
“The instance doesn’t exist. ” “清除一个不存在的监控实例统计信息。”	The instance doesn’t exist. 该实例不存在。

Contents

EPA 1
EPA/Operation 1
XML structure 1
Table description 1
Columns 1
EPA/Configuration 1
XML structure 1
Table description 2
Columns 2

EPA

EPA/Operation

This table describes the operations that can be performed to EPA system.

XML structure

```
<EPA>
  <Operation>
    <OperationType></OperationType>
  </Operation>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Operation
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationType	EPA operation type.	N/A	Enumeration: • 1—Notify EPA delete all monitoring configuration. • 2—Notify EPA smooth monitoring configuration start. • 3—Notify EPA smooth monitoring configuration end.	Must specify the operation which EPA supports.

EPA/Configuration

This table contains information about executing specific configuration files.

XML structure

```
<EPA>
```

```
  <Configuration>
    <ConfigFileName></ConfigFileName>
  </Configuration>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigFileName	Name of the configuration file to be executed.	N/A	String. Length: 1 to 64 characters.	The file must already exist in the directory “flash:/”. The file name should end with “.conf”.

Contents

EPA 1
EPA/Base 1
XML structure 1
Table description 1
Columns 1
EPA/Entries 1
XML structure 1
Table description 2
Columns 2

EPA

EPA/Base

This table contains EPA base information.

XML structure

```
<EPA>
  <Base>
    <Enable></Enable>
  </Base>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	EPA feature	N/A	Boolean: • true—Enable EPA feature. • false—Disable EPA feature	N/A

EPA/Entries

This table contains information about EPA entries.

XML structure

```
<EPA>
  <Entries>
    <Entry>
```

```
      <EntryID></EntryID>
      <MACInfo>
        <MacAddress></MacAddress>
        <VLANID></VLANID>
        <MacMask></MacMask>
      </MACInfo>
    </Entry>
  </Entries>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntryID	Entry ID	Index	Unsigned integer. Value range: 0 to 1024. The value 0 is an invalid entry ID.	If you set this column to 0, the system automatically assigns a new entry ID. This entry ID is the unoccupied entry ID starting from 1.
MACInfo	The MAC information to be monitored	Data structure	Members include: • MacAddress • VLANID • MacMask	The members must both be specified. When you want to only specify the MACInfo to delete the configuration, you should set EntryID to 0.
MacAddress	MAC address to be monitored	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	VLAN ID to be monitored	Index	Unsigned integer. Value range: 1 to 4094, 65535.	The value 65535 means monitoring the MAC address on all VLANs.
MacMask	Mask for monitored MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-00-00-00.

Contents

EPA 1
EPA/Base 1
XML structure 1
Table description 1
Columns 1
EPA/Entries 2
XML structure 2
Table description 2
Columns 2
EPA/Endpoints 3
XML structure 3
Table description 3
Columns 4

EPA

EPA/Base

This table contains EPA Base information.

XML structure

```
<EPA>
  <Base>
    <DeviceID></DeviceID>
    <DeviceType></DeviceType>
    <ConfigStatus></ConfigStatus>
    <Enable></Enable>
  </Base>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Bridge MAC address of the device.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-a1-10-11-00-01.
DeviceType	N/A	N/A	Enumeration: • 0—Standalone. • 1—SmartMC TC. • 2—SmartMC TM.	N/A
ConfigStatus	The current configuration status of the EPA process.	N/A	String. Length: 1 to 63 characters.	This column returns the EPA configuration status as follow: • “Success”. • “Smooth”. • “Delete all configurations”.

				• “Batch”. • “System busy”.
Enable	Whether EPA is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A

EPA/Entries

This table contains EPA entries information.

XML structure

```
<EPA>
  <Entries>
    <Entry>
      <EntryID></EntryID>
      <MACInfo>
        <MacAddress></MacAddress>
        <VLANID></VLANID>
        <MacMask></MacMask>
      </MACInfo>
    </Entry>
  </Entries>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntryID	Entry ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
MACInfo	The MAC information to be monitored	Data structure	Members include: • MacAddress • VLANID • MacMask	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address to be monitored	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	VLAN ID to be monitored	Index	Unsigned integer. Value range: 1 to 4094, 65535.	65535 means to monitor endpoints of this MAC on all VLANs.
MacMask	Mask for monitored MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-00-00-00.

EPA/Endpoints

This table contains EPA endpoints information.

XML structure

```
<EPA>
  <Endpoints>
    <Endpoint>
      <DeviceID></DeviceID>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <IpAddress></IpAddress>
      <OnlineFlag></OnlineFlag>
      <IfName></IfName>
      <Category></Category>
      <Vendor></Vendor>
      <OS></OS>
    </Endpoint>
  </Endpoints>
</EPA>
```

Table description

Item	Description
Feature name	EPA
Table name	Endpoints
Table type	Multi-instance table
Row name	Endpoint
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Bridge MAC address of the device.	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0a-0c-23-e3-5d-c0.
MacAddress	The MAC address of the detected endpoint.	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	The VLAN ID of the detected endpoint.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
IpAddress	The IP address of the detected endpoint.	N/A	String. Dotted decimal notation or a colon-separated hexadecimal string.	Example: 1.1.1.1, or 1::1.
OnlineFlag	The status of the endpoint.	N/A	Enumeration: • 0—Offline. • 1—Online.	N/A
IfName	Full name of the endpoint's interface.	N/A	String. Length: 2 to 47 characters.	N/A
Category	The category of the detected endpoint.	N/A	String. Length: 1 to 63 characters.	N/A
Vendor	The vendor of the detected endpoint.	N/A	String. Length: 1 to 63 characters.	N/A
OS	The operating system of the detected endpoint.	N/A	String. Length: 1 to 63 characters.	N/A

Contents

EPA 1
EPA/Operation 1
EPA/Configuration 1
EPA/Base 1
EPA/Entries 1
EPA/Endpoints 2

EPA

EPA/Operation

Message	Explanation
The system is busy. The specified operation cannot be performed. 当前系统正忙，不能执行指定的操作。	Try again when the system is not busy. 当系统不忙时，尝试重新下发。

EPA/Configuration

Message	Explanation
The system is busy. The specified operation cannot be performed. 当前系统正忙，不能执行指定的操作。	Try again when the system is not busy. 当系统不忙时，尝试重新下发。
The file name is invalid. 文件名格式错误。	Please select a .conf file. The file name can contain only letters, digits, and underscores (_). 请选择一个文件名后缀为“.conf”的文件，且文件名只能包含英文字母、数字和“_”（下划线）。
Can't open configuration file. 打开配置文件失败。	The file does not exist or you do not have the privilege to open the file. 由于配置文件不存在或权限限制导致打开文件失败。
Failed to issue EPA configuration: *confCommand*. 配置下发失败，配置：*confCommand*。	EPA configuration *confCommand* cannot be issued. Please examine for configuration conflicts. 终端监控规则*confCommand*下发失败，请检查是否存在配置冲突。

EPA/Base

Message	Explanation
Failed to enable auto identification for endpoints. 开启终端自动识别功能失败。	Failed to enable auto identification for endpoints because the BYOD function is not supported. 由于BYOD功能不支持导致开启终端自动识别功能失败。

EPA/Entries

Message	Explanation
Can't specify the all-zero MAC address. 不可以指定MAC地址为全零MAC地址。	You cannot specify the all-zero MAC address. 不可以指定MAC地址为全零MAC地址。
Can't specify the broadcast MAC address. 不可以指定MAC地址为广播MAC地址。	You cannot specify the broadcast MAC address. 不可以指定MAC地址为广播MAC地址。

Can't specify a multicast MAC address. 不可以指定MAC地址为组播MAC地址。	You cannot specify a multicast MAC address. 不可以指定MAC地址为组播MAC地址。
The rule ID is already used. Please specify another rule ID or use a system-assigned ID by not specifying any ID. 指定的Rule ID已经被使用，请重新指定，或者不指定由系统自动分配。	Please specify an unused rule ID or enter 0 for the system to assign a rule ID automatically. 请指定一个未使用的规则编号，或者指定为零让系统自动分配。
The same rule configuration with a different rule ID already exists. 指定的配置项已存在，且已存在配置项的Rule ID与指定的Rule ID不同。	The same rule configuration with a different rule ID already exists. 指定的配置项已存在，且已存在配置项的Rule ID与指定的Rule ID不同。
Configuration failed. The monitored range overlaps with that of an existing rule. 监控范围交叉，配置失败。	Configuration failed. The monitored range overlaps with that of an existing rule. 监控范围交叉，配置失败。
Maximum number of monitor rules already reached. 监控规则数已经达到上限。	You can configure a maximum of 1024 monitor rules. 终端监控规则最多配置1024条。

EPA/Endpoints

Message	Explanation
None. 无	None. 无

Contents

EPA event stream 1
LocalEndpointInfoEvent event 1
XML structure for event subscription 1
XML structure for event report 1

EPA event stream

EPA event stream description.

LocalEndpointInfoEvent event

This event is used to report EPA local endpoint Information.

XML structure for event subscription

```
<LocalEndpointInfoEvent>
</LocalEndpointInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>EPA</stream>
    <filter type="subtree">
      <LocalEndpointInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/EPA:1.0">
      </LocalEndpointInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	EPA
Event name	LocalEndpointInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/EPA:1.0
Support for extended query	No

XML structure for event report

```
<LocalEndpointInfoEvent>
  <EndpointInfo>
    <DeviceID></DeviceID>
    <MacAddress></MacAddress>
    <VLANID></VLANID>
    <IpAddress></IpAddress>
    <OnlineFlag></OnlineFlag>
    <IfName></IfName>
    <OfflineReason></OfflineReason>
    <Category></Category>
    <Vendor></Vendor>
    <OS></OS>
```

```
  </EndpointInfo>
</LocalEndpointInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-11-21T09:10:51</eventTime>
  <LocalEndpointInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/EPA:1.0">
    <EndpointInfo>
      <DeviceID>00-32-01-02-a0-06</DeviceID>
      <MacAddress>00-04-00-02-00-06</MacAddress>
      <VLANID>5</VLANID>
      <IpAddress>1.1.1.1</IpAddress>
      <OnlineFlag>1</OnlineFlag>
      <IfName>GigabitEthernet1/0/1</IfName>
      <OfflineReason>0</OfflineReason>
      <Category>Phone</Category>
      <Vendor>Samsung</Vendor>
      <OS>Android</OS>
    </EndpointInfo>
  </LocalEndpointInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
DeviceID	Bridge MAC address of the device.	Six groups of two hexadecimal digits, hyphen-separated.	EPA will only report the endpoint information of the local device.
MacAddress	The MAC address of the endpoint.	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VLANID	The VLAN ID of the endpoint.	Unsigned integer. Value range: 1 to 4094.	N/A
IpAddress	The IP address of the detected endpoint.	String. Dotted decimal notation or a colon-separated hexadecimal string.	Example: 1.1.1.1, or 1::1.
OnlineFlag	The status of the endpoint.	Enumeration: • 0—Offline. • 1—Online.	N/A
IfName	Full name of the endpoint's interface.	String. Length: 2 to 47 characters.	N/A
OfflineReason	The endpoint offline reason.	Enumeration: • 0—Normal. • 1—CascadePort.	N/A
Category	The category of the detected endpoint.	String. Length: 1 to 63 characters.	N/A
Vendor	The vendor of the detected endpoint.	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Data type and restrictions	Remarks
OS	The operating system of the detected endpoint.	String. Length: 1 to 63 characters.	N/A

Contents

Epon 1

Epon/AgmpResetCounter 1
XML structure 1
Table description 1
Columns 1
Epon/AgmpPort 2
XML structure 2
Table description 2
Columns 3
Epon/AgmpQosGlobal 4
XML structure 4
Table description 5
Columns 5
Epon/AgmpQosPort 6
XML structure 6
Table description 6
Columns 6
Epon/AgmpVlanGlobal 7
XML structure 7
Table description 7
Columns 8
Epon/AgmpVlanCfg 8
XML structure 8
Table description 9
Columns 9
Epon/AgmpGlobalCfg 9
XML structure 10
Table description 10
Columns 10
Epon/ AgmpOperType 11
XML structure 11
Table description 11
RColumns 11
Epon/OnuAGMPConfigData 12
XML structure 12
Table description 12
Columns 13
Epon/AgmpSwitchName 13
XML structure 13
Table description 14
Columns 14

Epon

Epon/AgmpResetCounter

This table contains interface action information.

XML structure

```
<Epon>
  <Agmp>
    <AgmpResetCounters>
      <AgmpResetCounter>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortList></PortList>
      </AgmpResetCounter>
    </AgmpResetCounters>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpResetCounters
Table type	Multi-instance table
Row name	AgmpResetCounter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
PortList	Port list	N/A	string. For example, to clear the counters for interfaces 0, 1, and 3 through 5, enter 0,1,3-5.To clear all counters,enter 0xff or 255.

Epon/AgmpPort

This table contains AGMP port format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpPorts>
      <AgmpPort>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <Enable></Enable>
        <RxBandwidth></RxBandwidth>
        <TxBandwidth></TxBandwidth>
        <AdvertisedSpeed></AdvertisedSpeed>
        <PauseFlowControl></PauseFlowControl>
        <Isolate></Isolate>
        <Pvid></Pvid>
        <LoopBackDetctionEnable></LoopBackDetctionEnable>
      </AgmpPort>
    </AgmpPorts>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpPorts
Table type	Multi-instance table

Item	Description
Row name	AgmpPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23
Enable	Whether the port is enabled	N/A	Boolean: • **true**—Enable • **false**—Disable
RxBandwidth	Speed limit of incoming traffic	N/A	Enumeration: • **0—**NOLIMIT**.** • **1**—128KBPS. • **2**—256KBPS. • **3**—512KBPS. • **4**—1MBPS. • **5**—2MBPS. • **6**—4MBPS. • **7**—8MBPS.
TxBandwidth	Speed limit of output flow of port	N/A	Enumeration: • **0—**NOLIMIT**.** • **1**—128KBPS. • **2**—256KBPS. • **3**—512KBPS. • **4**—1MBPS. • **5**—2MBPS. • **6**—4MBPS. • **7**—8MBPS.
AdvertisedSpeed	Negotiated port rate	N/A	Unsigned integer. Value range: 0 to 7.

Column name	Column description	Column type	Data type and restrictions
			#define EPON_ONU_AGMP_PORT_AUTONEG_10MHALF 0 #define EPON_ONU_AGMP_PORT_AUTONEG_10MFULL 1 #define EPON_ONU_AGMP_PORT_AUTONEG_100MHALF 2 #define EPON_ONU_AGMP_PORT_AUTONEG_100MFULL 3 #define EPON_ONU_AGMP_PORT_AUTONEG_NONE 4 #define EPON_ONU_AGMP_PORT_AUTONEG_AUTO 5 #define EPON_ONU_AGMP_PORT_AUTONEG_100MAUTO 6 #define EPON_ONU_AGMP_PORT_AUTONEG_10MAUTO 7
PauseFlowControl	Whether flow control is on or not	N/A	Boolean: • **true**— Enable PauseFlowContro • **false**—Disable PauseFlowControl
Isolate	Port isolation	N/A	Boolean: • **true**— Enable isolation • **false**—Disable isolation
Pvid	PVID	N/A	Unsigned integer. Value range: 1 to 4094.
LoopBackDetectionEnable	Port loop detection switch	N/A	Boolean: • **true**—Enable • **false**—Disable

Epon/AgmpQosGlobal

This table contains AGMP Qos global format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpQosGlobals>
      <AgmpQosGlobal>
        <IfIndex></IfIndex>
```

```
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <QosType></QosType>
        <QosPriorityRatio></QosPriorityRatio>
      </AgmpQosGlobal>
    </AgmpQosGlobals>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpQosGlobals
Table type	Multi-instance table
Row name	AgmpQosGlobal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
QosType	Switch global Qos type	N/A	Enumeration: • **0—**PORTBASED**.** • **1**—IPTOS. • **2**—8021P.
QosPriorityRatio	Switch global Qos priority ratio	N/A	Enumeration: • **0—**4TO1**.** • **1**—8TO1. • **2**—16TO1. • **3**—HIGHFIRST.

Epon/AgmpQosPort

This table contains AGMP Qos port format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpQosPorts>
      <AgmpQosPort>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <QosPriority></QosPriority>
      </AgmpQosPort>
    </AgmpQosPorts>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpQosPorts
Table type	Multi-instance table
Row name	AgmpQosPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal

Column name	Column description	Column type	Data type and restrictions
			digits, hyphen-separated.
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23
QosPriority	Port priority	N/A	Enumeration: • **0**—LOW**.** • **1**—HIGH.

Epon/AgmpVlanGlobal

This table contains AGMP VLAN global format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpVlanGlobals>
      <AgmpVlanGlobal>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <VlanEnable></VlanEnable>
        <VlanType></VlanType>
        <VlanMaxNum></VlanMaxNum>
      </AgmpVlanGlobal>
    </AgmpVlanGlobals>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpVlanGlobals
Table type	Multi-instance table
Row name	AgmpVlanGlobal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
VlanEnable	Whether the VLAN feature is enabled	N/A	Boolean: • **true**—Enable • **false**—Disable
VlanType	VLAN type	N/A	Enumeration: • **1—**PORT_BASED**.** • **2**—8021Q.
VlanMaxNum	Maximum number of VLANs supported	N/A	Enumeration: • **1—**ORI**.** • **2**—128.

Epon/AgmpVlanCfg

This table contains AGMP VLAN configuration format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpVlanCfgs>
      <AgmpVlanCfg>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <VlanOper></VlanOper>
        <Vid></Vid>
        <PortList></PortList>
        <UnTagList></UnTagList>
      </AgmpVlanCfg>
    </AgmpVlanCfgs>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpVlanCfgs
Table type	Multi-instance table
Row name	AgmpVlanCfg
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
VlanOper	Vlan OP.	N/A	Enumeration: • **0—**ADD**.** • **1**—MOD. • **2**—DEL.
Vid	VLAN ID	Index	Unsigned integer You can add or modify only one VLAN at a time, and you can modify multiple VLANs at a time,enter 65535 to delete all VLANs.
PortList	Port ID	N/A	Sring For example, 1,3, or 3-5.
UnTagList	Untagged mask for 802.1Q only	N/A	String For example, if ports 1 and 3 are untagged members of VLAN 1, 1,0,1 is displayed.

Epon/AgmpGlobalCfg

This table contains AGMP global configuration format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpGlobalCfgs>
      <AgmpGlobalCfg>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <FullDuplexFlowControl></FullDuplexFlowControl>
        <BroadcastStormConstrain></BroadcastStormConstrain>
      </AgmpGlobalCfg>
    </AgmpGlobalCfgs>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpGlobalCfgs
Table type	Multi-instance table
Row name	AgmpGlobalCfg
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
FullDuplexFlowControl	Global full duplex flow control switch	N/A	Boolean: • **true**— Enable FullDuplexFlowControl

Column name	Column description	Column type	Data type and restrictions
			• **false**—Disable FullDuplexFlowControl
BroadcastStormConstrain	Broadcast storm filter switch	N/A	Boolean: • **true**— Enable BroadcastStormFiltering • **false**—Disable BroadcastStormFiltering

Epon/AgmpOperType

This table is used to test the cable connection of Ethernet interfaces and get the test results.

XML structure

```
<Epon>
  <Agmp>
    <AgmpOperTypes>
      <AgmpOperType>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <OperType></OperType>      </AgmpOperType>
    </AgmpOperTypes>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpOperTypes
Table type	Multi-instance table
Row name	AgmpOperType
Restrictions	None
Support for row creation and deletion	Yes

RColumns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.		
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
OperType	There are three types of operations:RebootSwitch,Save Cfg,SetDefault	N/A	Enumeration: • **1**—RebootSwitch. • **2**—SaveCfg • **3**—SetDefault

Epon/OnuAGMPConfigData

This table is used to clear interfaces packet drop statistics.

XML structure

```
<Epon>
  <Agmp>
    <AgmpConfigDatas>
      <AgmpConfigData>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <ConfigFile></ConfigFile>
        <OperType></OperType>
      </AgmpConfigData>
    </AgmpConfigDatas>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpConfigDatas
Table type	Multi-instance table
Row name	AgmpConfigData
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
ConfigFile	Configuration file name	N/A	String Length: 1 to 128 characters.
OperType	There are two types of operations:Import,Export	N/A	Enumeration: • **1**—Import. • **2**—Export.

Epon/AgmpSwitchName

This table contains AGMP SwitchName format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpSwitchNames>
      <AgmpSwitchName>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <SwitchLocation></SwitchLocation>
        <SwitchName></SwitchName>
        <SwitchNote></SwitchNote>
      </AgmpSwitchName>
    </AgmpSwitchNames>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpSwitchNames
Table type	Multi-instance table
Row name	N/A
Restrictions	AgmpSwitchName
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.
SwitchLocation	Switch location	N/A	String. Length: 1 to 32 characters
SwitchName	Switch name	N/A	String. Length: 1 to 32 characters
SwitchNote	Swtich note	N/A	String. Length: 1 to 32 characters

Contents

Epon 1

Epon/OltUsingOnu 1
XML structure 1
Table description 1
Columns 1
Epon/RoltInterfaceMember 2
XML structure 2
Table description 2
Columns 3
Epon/OnuBind 3
XML structure 3
Table description 4
Columns 4
Epon/OnuAutoBind 5
XML structure 5
Table description 5
Columns 6
Epon/OnuAutoBindGlobal 6
XML structure 6
Table description 7
Columns 7
Epon/UniConfigInfo 7
XML structure 7
Table description 8
Columns 8
Epon/FiberBackupTCPChannel 8
XML structure 9
Table description 9
Columns 9
Epon/FiberBackupGroups 9
XML structure 9
Table description 10
Columns 10
Epon/OltInterfaces 11
XML structure 11
Table description 11
Columns 11
Epon/OnuTransparentMulticasts 12
XML structure 12
Table description 12
Columns 12
Epon/UniTransparentMulticasts 13
XML structure 13
Table description 13
Columns 14
Epon/OnuAuthFormat/MACAddress 14
XML structure 14
Table description 14
Columns 15

Epon

Epon/OltUsingOnu

This table contains ONU or RONU interface information.

XML structure

```
<Epon>
  <OltUsingOnu>
    <Interface>
      <IfIndex></IfIndex>
      <OnuNum></OnuNum>
    </Interface>
  </OltUsingOnu>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OltUsingOnu
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the OLT interface or ROLT interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OnuNum	ONU or RONU interface number.	N/A	Number string. It is a comma-separated	Example: 1,2,3,5-8,10-20. The item is permitted to

Column name	Column description	Column type	Data type and restrictions	Remarks
			list of ONU or RONU interface number items. An item can be an individual ONU or RONU interface number or an ONU or RONU interface number range. Use a hyphen (-) to separate the start and end ONU or RONU interface number of a range. Interface number range: 1 to 128. The string cannot end with a comma or hyphen, or include any whitespace characters.	incremental edit.

Epon/RoltInterfaceMember

This table contains the OLT member interfaces of the redundant OLT interface.

XML structure

```
<Epon>
  <RoltInterfaceMember>
    <Interface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <MemberPriority></MemberPriority>
    </Interface>
  </RoltInterfaceMember>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	RoltInterfaceMember
Table type	Multi-instance table
Row name	Interface
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	ROLT interface index.	Index	Unsigned integer	Interface index of the ROLT interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MemberIfIndex	OLT interface index.	Index	Unsigned integer	Interface index of the OLT member interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MemberPriority	Priority of an OLT interface that will be assigned to an ROLT interface.	N/A	Unsigned integer. Value range: 1 to 255.	You must configure both the MemberIfIndex and MemberPriority if the operation is **create** or **merge**.You can configure only the MemberIfIndex if the operation is **delete** or **remove**.

Epon/OnuBind

This table contains Onu interface binding information.

XML structure

```
<Epon>
  <OnuBind>
    <Interface>
      <IfIndex></IfIndex>
      <BindType></BindType>
```

```
      <MacAddress></MacAddress>
      <Loid></Loid>
      <CipherPaswd></CipherPaswd>
      <SimplePaswd></SimplePaswd>
    </Interface>
  </OnuBind>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuBind
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BindType	Configured binding type of an ONU interface	N/A	Enumeration: • **1**—MAC. • **2—**LOID. • **4**—LOID-PASSWORD.	The binding type cannot be combined.
MacAddress	MAC address of an ONU using the MAC binding type	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-11.
Loid	LOID of an ONU	N/A	String. Length: 1 to 24 character.	Valid only when the BindType label above is LOID or LOID-PASSWORD.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The string of Loid label is case-sensitive, cannot contain the character “?”, and cannot begin or end with the character “DEL”, “@”, “.”, “,”, “!”, “;”, “:”, “”, “”, or the hexadecimal number 0x0-0x20.
CipherPaswd	Cipher password of an LOID using the LOID-PASSWORD binding type to bind an ONU.	N/A	String. Length: 1 to 49 character.	Valid only when the BindType label above is LOID-PASSWORD. The cipher password is generated by simple password.
SimplePaswd	Simple password of an LOID using the LOID-PASSWORD binding type to bind an ONU.	N/A	String. Length: 1 to 12 character.	The string of Loid label is case-sensitive, cannot contain the character “?”, and cannot begin or end with the character “DEL”, “@”, “.”, “,”, “!”, “;”, “:”, “”, “”, or the hexadecimal number 0x0-0x20.

Epon/OnuAutoBind

This table contains auto binding information in the EPON system.

XML structure

```
<Epon>
  <OnuAutoBind>
      <AutoBind>
      <Chassis></Chassis>
      <Slot></Slot>
      <BindType></BindType>
    </AutoBind>
  </OnuAutoBind>
</Epon>
```

Table description

Item	Description
Feature name	Epon

Item	Description
Table name	OnuAutoBind
Table type	Multi-instance table
Row name	AutoBind
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned short. Value range: 0 to 65535.	N/A
BindType	Enable auto binding type, which can be combined.	N/A	Each bit represents a type. as follows: • **1**—MAC • **2**—LOID • **4**—LOID-PASSWORD	If no binding type is set, the default is MAC binding. The item is permitted to incremental edit. Examples: • **1**—MAC. • **3—**MAC, and LOID. • **5—**MAC, and LOID-PASSWORD.

Epon/OnuAutoBindGlobal

This table contains global auto binding information in the EPON system.

XML structure

```
<Epon>
  <OnuAutoBindGlobal>
    <AutoBindGlobal>
      <BindType></BindType>
    </AutoBindGlobal>
  </OnuAutoBindGlobal>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuAutoBindGlobal
Table type	Single-instance table
Row name	AutoBindGlobal
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BindType	Enable auto binding type, which can be combined. Inserting the EPON boards after configuring the auto binding, the configuration also takes effect on the EPON boards.	N/A	Each bit represents a type. as follows: • **1**—MAC • **2**—LOID • **4**—LOID-PASSWORD	If no binding type is set, the default is MAC binding. The item is permitted to incremental edit. Examples: • **1**—MAC. • **3—**MAC, and LOID. • **5—**MAC, and LOID-PASSWORD.

Epon/UniConfigInfo

This table contains UNI interfaces information.

XML structure

```
<Epon>
  <UniConfigInfo>
    <Interface>
      <IfIndex></IfIndex>
      <UniNum></UniNum>
      <VlanMode></VlanMode>
      <PVID></PVID>
      <Shutdown></Shutdown>
    </Interface>
  </UniConfigInfo>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	UniConfigInfo
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UniNum	UNI number	Index	Unsigned integer	Number index of an UNI interface.
VlanMode	vlan mode of UNI	N/A	Enumeration: • **0**—TRANSPARENT. • **1**—TAG.	Only support TRANSPARENT and TAG.
PVID	Port VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The PVID value when the VlanMode is TAG.By default, no PVID is configured for an UNI interface.
Shutdown	Configured shutdown status of an UNI interface	N/A	Boolean: • **true**—shutdown • **false**—undo shutdown	The configration is undo shutdown by default.

Epon/FiberBackupTCPChannel

This table contains TCP connect information.

XML structure

```
<Epon>
  <FiberBackupTCPChannel>
    <LocalIpAddress></LocalIpAddress>
    <PeerIpAddress></PeerIpAddress>
  </FiberBackupTCPChannel>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	FiberBackupTCPChannel
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalIpAddress	Local IpAdress.	N/A	String. Dotted decimal notation.	Example:192.168.56.1
PeerIpAddress	Peer IpAddress.	N/A	String. Dotted decimal notation.	Example:192.168.56.2

Epon/FiberBackupGroups

This table contains fiber-backup groups information.

XML structure

```
<Epon>
  <FiberBackupGroups>
    <FiberBackupGroup>
      <GroupID></GroupID>
      <GroupType></GroupType>
        <DownLinkMember>
          <MainIfIndex></MainIfIndex>
          <StandbyIfIndex></StandbyIfIndex>
        </DownLinkMember>
      <UplinkIfIndex></UplinkIfIndex>
```

```
    </FiberBackupGroup>
  </FiberBackupGroups>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	FiberBackupGroups
Table type	Multi-instance table
Row name	FiberBackupGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	GroupID as table index.	Index	Unsigned integer. Value range: 1 to 120	N/A
GroupType	Group type.	N/A	Enumeration: • 1—Normal. • 2—Multidevice.	N/A
DownLinkMember	Downlink member information.	Data structure	Members include: • MainIfIndex • StandbyIfIndex	N/A
MainIfIndex	Index of main interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
StandbyIfIndex	Index of standby interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
UplinkIfIndex	Index of uplink interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Epon/OltInterfaces

This table contains Olt interfaces authentication information.

XML structure

```
<Epon>
  <OltInterfaces>
    <OltInterface>
      <IfIndex></IfIndex>
      <AuthenticationDomain></AuthenticationDomain>
    </OltInterface>
  </OltInterfaces>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OltInterfaces
Table type	Multi-instance table
Row name	OltInterface
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer	Some versions support interface

Column name	Column description	Column type	Data type and restrictions	Remarks
				name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AuthenticationDomain	Authentication domain name.	N/A	String. Length: 1 to 255 characters.	N/A

Epon/OnuTransparentMulticasts

This table contains transparent multicast information of ONU/RONU interfaces.

XML structure

```
<Epon>
  <OnuTransparentMulticasts>
    <OnuTransparentMulticast>
      <IfIndex></IfIndex>
      <DestMAC></DestMAC>
      <VlanID></VlanID>
    </OnuTransparentMulticast>
  </OnuTransparentMulticasts>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuTransparentMulticasts
Table type	Multi-instance table
Row name	OnuTransparentMulticast
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions

Column name	Column description	Column type	Data type and restrictions	Remarks
	as table index.			support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DestMAC	Multicast MAC address.	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VlanID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Epon/UniTransparentMulticasts

This table contains transparent multicast information of UNI interfaces.

XML structure

```
<Epon>
  <UniTransparentMulticasts>
    <UniTransparentMulticast>
      <IfIndex></IfIndex>
      <UniNum></UniNum>
      <DestMAC></DestMAC>
      <VlanID></VlanID>
    </UniTransparentMulticast>
  </UniTransparentMulticasts>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	UniTransparentMulticasts
Table type	Multi-instance table
Row name	UniTransparentMulticast
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UniNum	UNI number	Index	Unsigned integer.	Number index of the UNI interface.
DestMAC	Multicast MAC address.	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VlanID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Epon/OnuAuthFormat/MACAddress

This table contains MAC address format for ONU authentication.

XML structure

```
<Epon>
  <OnuAuthFormat>
    <MACAddress>
      <WithHyphen></WithHyphen>
      <Uppercase></Uppercase>
    </MACAddress>
  </OnuAuthFormat>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	MACAddress
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WithHyphen	Configure the MAC address to be with or without hyphens.	N/A	Boolean: • **true**—With hyphens • **false**—Without hyphens	A MAC address is with hyphens by default.
Uppercase	Configure the MAC address to use upper case letters or lower case letters.	N/A	Boolean: • **true**—Upper case • **false**—Lower case	A MAC address uses upper case letters by default.

Contents

Epon 1

Epon/OltUsingOnu 1
XML structure 1
Table description 1
Columns 1
Epon/RoltInterfaceMember 2
XML structure 2
Table description 2
Columns 3
Epon/OnuBind 3
XML structure 4
Table description 4
Columns 4
Epon/OnuAutoBind 5
XML structure 5
Table description 5
Columns 6
Epon/OnuAutoBindGlobal 6
XML structure 6
Table description 6
Columns 7
Epon/UniConfigInfo 7
XML structure 7
Table description 7
Columns 8
Epon/OnuReportInfo 8
XML structure 8
Table description 9
Columns 9
Epon/OnuNeighborReportInfo 10
XML structure 10
Table description 10
Columns 10
Epon/FiberBackupTCPChannel 11
XML structure 11
Table description 11
Columns 11
Epon/FiberBackupGroups 12
XML structure 12
Table description 12
Columns 12
Epon/OltInterfaces 14
XML structure 14
Table description 14
Columns 14
Epon/OnuTransparentMulticasts 14
XML structure 15
Table description 15
Columns 15
Epon/UniTransparentMulticasts 15
XML structure 16
Table description 16
Columns 16
Epon/OnuAuthFormat/MACAddress 17
XML structure 17
Table description 17
Columns 17

Epon/AgmpTopo ····· 17
XML structure ····· 17
Table description ····· 18
Columns ····· 18
Epon/AgmpStatus ····· 19
XML structure ····· 20
Table description ····· 20
Columns ····· 20
Epon/AgmpPort ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 23
Epon/AgmpQosGlobal ····· 24
XML structure ····· 24
Table description ····· 25
Columns ····· 25
Epon/AgmpQosPort ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
Epon/AgmpVlanGlobal ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
Epon/AgmpVlanCfg ····· 28
XML structure ····· 28
Table description ····· 29
Columns ····· 29
Epon/AgmpCableTest ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
Epon/AgmpGlobalCfg ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
Epon/AgmpSwitchName ····· 32
XML structure ····· 33
Table description ····· 33
Columns ····· 33

Epon

Epon/OltUsingOnu

This table contains ONU or RONU interface information.

XML structure

```
<Epon>
  <OltUsingOnu>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <OnuNum></OnuNum>
    </Interface>
  </OltUsingOnu>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OltUsingOnu
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the OLT interface or ROLT interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API

Column name	Column description	Column type	Data type and restrictions	Remarks
				Configuration Reference.
Name	Full name of the interface, including the interface type and number	N/A	String. Length: 2 to 47 characters.	Interface name of the OLT interface or ROLT interface. Example: Olt2/0/2
OnuNum	ONU or RONU interface number.	N/A	Number string: It is a comma-separated list of ONU or RONU interface number items. An item can be an individual ONU or RONU interface number or an ONU or RONU interface number range. Use a hyphen (-) to separate the start and end ONU or RONU interface number of a range. Interface number range: 1 to 128. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

Epon/RoltInterfaceMember

This table contains the OLT member interfaces of the redundant OLT interface.

XML structure

```
<Epon>
  <RoltInterfaceMember>
    <Interface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <MemberPriority></MemberPriority>
      <MemberForwardStatus></MemberForwardStatus>
    </Interface>
  </RoltInterfaceMember>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	RoltInterfaceMember
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	ROLT interface index.	Index	Unsigned integer	Interface index of the ROLT interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MemberIfIndex	OLT interface index.	Index	Unsigned integer	Interface index of the OLT member interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MemberPriority	Priority of an OLT interface that will be assigned to an ROLT interface.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
MemberForwardStatus	Forwarding status of an OLT interface which is assigned to an ROLT interface.	N/A	Boolean: • **true**—Active • **false**—Inactive	By default, the value is false.

Epon/OnuBind

This table contains ONU interface binding information.

XML structure

```
<Epon>
  <OnuBind>
    <Interface>
      <IfIndex></IfIndex>
      <BindType></BindType>
      <MacAddress></MacAddress>
      <Loid></Loid>
      <CipherPaswd></CipherPaswd>
      <SimplePaswd></SimplePaswd>
    </Interface>
  </OnuBind>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuBind
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BindType	Configured binding type of an ONU interface	N/A	Enumeration: • **1**—MAC. • **2—**LOID. • **4**—LOID-PASSWORD.	By default, no binding type is configured for an ONU interface.
MacAddress	MAC address of	N/A	Six groups of two	Valid only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
	an ONU using the MAC binding type		hexadecimal digits, hyphen-separated.	BindType label above is MAC.
Loid	LOID of an ONU to be bound	N/A	String. Length:1 to 24 character.	Valid only when the BindType label above is LOID or LOID-PASSWORD.
CipherPaswd	Cipher password of an LOID using the LOID-PASSWORD binding type to bind an ONU.	N/A	String. Length:1 to 49 character.	The cipher password result is not displayed to the user.
SimplePaswd	Simple password of an LOID using the LOID-PASSWORD binding type to bind an ONU.	N/A	String. Length:1 to 12 character.	The simple password result is not displayed to the user.

Epon/OnuAutoBind

This table contains auto binding information in the EPON system.

XML structure

```
<Epon>
  <OnuAutoBind>
    <AutoBind>
      <Chassis></Chassis>
      <Slot></Slot>
      <BindType></BindType>
    </AutoBind>
  </OnuAutoBind>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuAutoBind
Table type	Multi-instance table
Row name	AutoBind
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned short. Value range: 0 to 65535.	N/A
BindType	Enable auto binding type, which can be combined.	N/A	Each bit represents a type. As follows: • **1**—MAC • **2**—LOID • **4**—LOID-PASSWORD	By default, no bind type for auto bind. Examples: • **1**—MAC. • **3—**MAC, and LOID. • **5—**MAC and LOID-PASSWORD.

Epon/OnuAutoBindGlobal

This table contains global auto binding information in the EPON system.

XML structure

```
<Epon>
  <OnuAutoBindGlobal>
    <AutoBindGlobal>
      <BindType></BindType>
    </AutoBindGlobal>
  </OnuAutoBindGlobal>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuAutoBindGlobal
Table type	Single-instance table
Row name	AutoBindGlobal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BindType	Enable auto binding type, which can be combined.	N/A	Each bit represents a type. As follows: • **1**—MAC • **2**—LOID • **4**—LOID-PASSWORD	By default, no bind type for auto bind. Examples: • **1**—MAC. • **3—**MAC, and LOID. • **5—**MAC and LOID-PASSWORD.

Epon/UniConfigInfo

This table contains UNI interfaces information.

XML structure

```
<Epon>
  <UniConfigInfo>
    <Interface>
      <IfIndex></IfIndex>
      <UniNum></UniNum>
      <VlanMode></VlanMode>
      <PVID></PVID>
      <Shutdown></Shutdown>
    </Interface>
  </UniConfigInfo>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	UniConfigInfo
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UniNum	UNI number	Index	Unsigned integer	Number index of the UNI interface.
VlanMode	vlan mode of UNI	N/A	Enumeration: • **0—**TRANSPARENT**.** • **1**—TAG. • **2**—TRANSLATION. • **3**—AGGREGATION. • **4**—TRUNK. • **5**—QINQ.	The value is 0 by default.
PVID	Port VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The PVID value when the VlanMode is TAG.By default, no PVID is configured for a UNI interface.
Shutdown	Configured shutdown status of UNI an interface	N/A	Boolean: • **true**—shutdown • **false**—undo shutdown	The configration is undo shutdown by default.

Epon/OnuReportInfo

This table contains online or offline information of ONU interfaces.

XML structure

```
<Epon>
  <OnuReportInfo>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <OnlineStatus></OnlineStatus>
      <BindMac></BindMac>
```

```
      <MaxUni></MaxUni>
    </Interface>
  </OnuReportInfo>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuReportInfo
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of the interface, including the interface type and number	N/A	String. Length: 2 to 47 characters.	Interface name of the ONU interface or RONU interface. Example: Onu2/0/2:1
OnlineStatus	Online status of the ONU	N/A	Boolean: • **true**—online • **false**—offline	The value is false by default.
BindMac	MAC address of the ONU to be bound	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Valid only when the OnlineStatus label above is true.
MaxUni	Max number of UNI interfaces	N/A	Unsigned integer.	Valid only when the OnlineStatus label above is true.

Epon/OnuNeighborReportInfo

This table contains online or offline information of ONU neighbor interfaces.

XML structure

```
<Epon>
  <OnuNeighborReportInfo>
    <Interface>
      <IfIndex></IfIndex>
      <UniNum></UniNum>
      <OnlineStatus></OnlineStatus>
      <NeighborInfo>
        <NeighborMac></NeighborMac>
        <NeighborType></NeighborType>
      </NeighborInfo>
    </Interface>
  </OnuNeighborReportInfo>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuNeighborReportInfo
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the ONU or RONU interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
UniNum	UNI number	Index	Unsigned integer	N/A
OnlineStatus	Online status of the ONU neighbor	N/A	Boolean: • **true** — online • **false** — offline	The value is false by default.
NeighborInfo	Report info of the ONU neighbor	N/A	Include: • NeighborMac • NeighborType	N/A
NeighborMac	MAC address of the ONU neighbor to be bound	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
NeighborType	Type of the ONU neighbor	N/A	Enumeration: • **1**—AP.	N/A

Epon/FiberBackupTCPChannel

This table contains TCP connect information.

XML structure

```
<Epon>
  <FiberBackupTCPChannel>
    <LocalIpAddress></LocalIpAddress>
    <PeerIpAddress></PeerIpAddress>
  </FiberBackupTCPChannel>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	FiberBackupTCPChannel
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalIpAddress	Local IpAdress.	N/A	String. Dotted decimal notation.	Example:192.168.56.1

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerIpAddres s	Peer IpAddress.	N/A	String. Dotted decimal notation.	Example:192.168.56.2

Epon/FiberBackupGroups

This table contains fiber-backup groups information.

XML structure

```
<Epon>
  <FiberBackupGroups>
    <FiberBackupGroup>
      <GroupID></GroupID>
      <GroupType></GroupType>
      <DownLinkMember>
        <MainIfIndex></MainIfIndex>
        <StandbyIfIndex></StandbyIfIndex>
        <MainIfState></MainIfState>
        <StandbyIfState></StandbyIfState>
      </DownLinkMember>
      <UplinkIfIndex></UplinkIfIndex>
    </FiberBackupGroup>
  </FiberBackupGroups>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	FiberBackupGroups
Table type	Multi-instance table
Row name	FiberBackupGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	GroupID as table index.	Index	Unsigned integer. Value range: 1 to 120	N/A
GroupType	Group type.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Normal. • 2—Multidevice.	
DownLinkMember	Downlink member information.	Data structure	Members include: • MainIfIndex • StandbyIfIndex • MainIfState • StandbyIfState	N/A
MainIfIndex	Index of main interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
StandbyIfIndex	Index of standby interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MainIfState	State of main interface	N/A	Enumeration: • 1—Other. • 2—Active. • 3—Ready.	Read-only.
StandbyIfState	State of standby interface	N/A	Enumeration: • 1—Other. • 2—Active. • 3—Ready.	Read-only.
UplinkIfIndex	Index of uplink interface	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Epon/OltInterfaces

This table contains Olt interfaces authentication information.

XML structure

```
<Epon>
  <OltInterfaces>
    <OltInterface>
      <IfIndex></IfIndex>
      <AuthenticationDomain></AuthenticationDomain>
    </OltInterface>
  </OltInterfaces>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OltInterfaces
Table type	Multi-instance table
Row name	OltInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AuthenticationDomain	Authentication domain name.	N/A	String. Length: 1 to 255 characters.	N/A

Epon/OnuTransparentMulticasts

This table contains transparent multicast information of ONU/RONU interfaces.

XML structure

```
<Epon>
  <OnuTransparentMulticasts>
    <OnuTransparentMulticast>
      <IfIndex></IfIndex>
      <DestMAC></DestMAC>
      <VlanID></VlanID>
    </OnuTransparentMulticast>
  </OnuTransparentMulticasts>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	OnuTransparentMulticasts
Table type	Multi-instance table
Row name	OnuTransparentMulticast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DestMAC	Multicast MAC address.	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VlanID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Epon/UniTransparentMulticasts

This table contains transparent multicast information of UNI interfaces.

XML structure

```
<Epon>
  <UniTransparentMulticasts>
    <UniTransparentMulticast>
      <IfIndex></IfIndex>
      <UniNum></UniNum>
      <DestMAC></DestMAC>
      <VlanID></VlanID>
    </UniTransparentMulticast>
  </UniTransparentMulticasts>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	UniTransparentMulticasts
Table type	Multi-instance table
Row name	UniTransparentMulticast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UniNum	UNI number	Index	Unsigned integer.	Number index of the UNI interface.
DestMAC	Multicast MAC address.	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VlanID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Epon/OnuAuthFormat/MACAddress

This table contains MAC address format for ONU authentication.

XML structure

```
<Epon>
  <OnuAuthFormat>
    <MACAddress>
      <WithHyphen></WithHyphen>
      <Uppercase></Uppercase>
    </MACAddress>
  </OnuAuthFormat>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	MACAddress
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WithHyphen	Configure the MAC address to be with or without hyphens.	N/A	Boolean: • **true**—With hyphens • **false**—Without hyphens	A MAC address is with hyphens by default.
Uppercase	Configure the MAC address to use upper case letters or lower case letters.	N/A	Boolean: • **true**—Upper case • **false**—Lower case	A MAC address uses upper case letters by default.

Epon/AgmpTopo

This table contains AGMP Topo format for ONU authentication.

XML structure

```
<Epon>
```

```
  <Agmp>
    <AgmpTopos>
      <AgmpTopo>
        <IfIndex></IfIndex>
        <SwitchId></SwitchId>
        <SwitchMac></SwitchMac>
        <DownLinkPort></DownLinkPort>
        <UpLinkPort></UpLinkPort>
        <UpLinkMac></UpLinkMac>
        <ChipID></ChipID>
        <VendorID></VendorID>
        <ChipType></ChipType>
        <Exist8051></Exist8051>
        <ExistEeprom></ExistEeprom>
        <TopologyLevel></TopologyLevel>
        <LinkLocalPort></LinkLocalPort>
        <SwitchLocation></SwitchLocation>
        <SwitchName></SwitchName>
        <SwitchNote></SwitchNote>
      </AgmpTopo>
    </AgmpTopos>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpTopos
Table type	Multi-instance table
Row name	AgmpTopo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
SwitchId	Switch ID	Index	Unsigned integer. #define EPON_ONU_AGMP_MAX_SWITCH_CNT 7	N/A
SwitchMac	Switch MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DownLinkPort	The upstream port of the switch, generally the last port of the switch	N/A	Unsigned integer Value range: 0 to 255.	N/A
UpLinkPort	The port of the upper switch of the switch	N/A	Unsigned integer Value range: 0 to 255.	if it is directly connected to onu, it is 0
UpLinkMac	The MAC of the upper switch of the switch	N/A	Six groups of two hexadecimal digits, hyphen-separated.	if it is directly connected to onu, it is 0
ChipID	Switch chipID	N/A	Unsigned integer Value range: 0 to 65535.	N/A
VendorID	Switch vendor ID	N/A	Unsigned integer.	N/A
ChipType	Switch chip type	N/A	Unsigned integer Value range: 0 to 255.	N/A
Exist8051	Whether the switch has 8051	N/A	Boolean: • **true**—Exist • **false**—Not Exist	N/A
ExistEeprom	Whether the switch has EEPROM	N/A	Boolean: • **true**—Exist • **false**—Not Exist	N/A
TopologyLevel	Switch topology level	N/A	Unsigned integer Value range:0 to 3	0 indicates that the network is abnormal
LinkLocalPort	UNI port of the ONU connected to this switch	N/A	Unsigned integer	0xff indicates that the uni port is not recognized
SwitchLocation	Switch Location	N/A	String. Length: 1 to 32 characters	N/A
SwitchName	Switch name	N/A	String. Length: 1 to 32 characters	N/A
SwitchNote	Switch note	N/A	String. Length: 1 to 32 characters	N/A

Epon/AgmpStatus

This table contains AGMP status format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpStatuss>
      <AgmpStatus>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <Enable></Enable>
        <LinkStatus></LinkStatus>
        <AdvertisedSpeed></AdvertisedSpeed>
        <LoopDetected></LoopDetected>
        <PauseFlowControl></PauseFlowControl>
        <QosPriority></QosPriority>
        <VlanId></VlanId>
        <InPackets></InPackets>
        <OutPackets></OutPackets>
      </AgmpStatus>
    </AgmpStatuss>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpStatuss
Table type	Multi-instance table
Row name	AgmpStatus
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr

Column name	Column description	Column type	Data type and restrictions	Remarks
				NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23.	N/A
Enable	Whether the port is enabled	N/A	Boolean: • **true**—Enable • **false**—Disable	N/A
LinkStatus	Port connection status	N/A	Enumeration: • **1—**Up**.** • **2**—Down.	N/A
AdvertisedSpeed	Negotiation port rate	N/A	Unsigned integer. Value range: 0 to 7. #define EPON_ONU_AGMP_PORT_AUTONEG_10MHALF 0 #define EPON_ONU_AGMP_PORT_AUTONEG_10MFULL 1 #define EPON_ONU_AGMP_PORT_AUTONEG_100MHALF 2 #define EPON_ONU_AGMP_PORT_AUTONEG_100MFULL 3 #define EPON_ONU_AGMP_PORT_AUTONEG_NONE 4 #define EPON_ONU_AGMP_PORT_AUTONEG_AUTO 5 #define EPON_ONU_AGMP_PORT_AUTONEG_100MAUTO 6 #define EPON_ONU_AGMP_PORT_AUTONEG_10MAUTO 7	N/A
LoopDetected	Whether a loopback is detected	N/A	Boolean: • **true**—LoopDetected • **false**—not LoopDetected	N/A
PauseFlowControl	Whether flow control is on or not	N/A	Boolean: • **true**— Enable PauseFlowControl • **false**—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			PauseFlowControl	
QosPriority	Port Qos priority	N/A	Enumeration: • **0**—LOW. • **1**—HIGH.	N/A
VlanId	PVID	N/A	Unsigned integer Value range: 1 to 4094	N/A
InPackets	Port input flow counter	N/A	Unsigned integer.	N/A
OutPackets	Port output flow counter	N/A	Unsigned integer.	N/A

Epon/AgmpPort

This table contains AGMP port format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpPorts>
      <AgmpPort>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <Enable></Enable>
        <RxBandwidth></RxBandwidth>
        <TxBandwidth></TxBandwidth>
        <AdvertisedSpeed></AdvertisedSpeed>
        <PauseFlowControl></PauseFlowControl>
        <Isolate></Isolate>
        <Pvid></Pvid>
        <LoopBackDetctionEnable></LoopBackDetctionEnable>
      </AgmpPort>
    </AgmpPorts>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpPorts

Item	Description
Table type	Multi-instance table
Row name	AgmpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23.	N/A
Enable	Whether the port is enabled	N/A	Boolean: • **true**—Enable • **false**—Disable	N/A
RxBandwidth	Speed limit of incoming traffic	N/A	Enumeration: • **0—**NOLIMIT**.** • **1**—128KBPS. • **2**—256KBPS. • **3**—512KBPS. • **4**—1MBPS. • **5**—2MBPS. • **6**—4MBPS. • **7**—8MBPS.	N/A
TxBandwidth	Speed limit of output flow of port	N/A	Enumeration: • **0**—NOLIMIT. • **1**—128KBPS. • **2**—256KBPS. • **3**—512KBPS. • **4**—1MBPS. • **5**—2MBPS. • **6**—4MBPS. • **7**—8MBPS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertisedSpeed	Negotiated port rate	N/A	Unsigned integer. Value range: 0 to 7. #define EPON_ONU_AGMP_PORT_AUTONEG_10MHALF 0 #define EPON_ONU_AGMP_PORT_AUTONEG_10MFULL 1 #define EPON_ONU_AGMP_PORT_AUTONEG_100MHALF 2 #define EPON_ONU_AGMP_PORT_AUTONEG_100MFULL 3 #define EPON_ONU_AGMP_PORT_AUTONEG_NONE 4 #define EPON_ONU_AGMP_PORT_AUTONEG_AUTO 5 #define EPON_ONU_AGMP_PORT_AUTONEG_100MAUTO 6 #define EPON_ONU_AGMP_PORT_AUTONEG_10MAUTO 7	N/A
PauseFlowControl	Whether flow control is on or not	N/A	Boolean: • **true**— Enable PauseFlowControl • **false**—Disable PauseFlowControl	N/A
Isolate	Port isolation	N/A	Boolean: • **true**— Enable isolation • **false**—Disable isolation	N/A
Pvid	PVID	N/A	Unsigned integer Value range: 1 to 4094.	N/A
LoopBackDetectionEnable	Port loop detection switch	N/A	Boolean: • **true**—Enable • **false**—Disable	N/A

Epon/AgmpQosGlobal

This table contains AGMP Qos global format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpQosGlobals>
```

```
      <AgmpQosGlobal>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <QosType></QosType>
        <QosPriorityRatio></QosPriorityRatio>
      </AgmpQosGlobal>
    </AgmpQosGlobals>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpQosGlobals
Table type	Multi-instance table
Row name	AgmpQosGlobal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
QosType	Switch global Qos type	N/A	Enumeration: • **0—**PORTBASED**.** • **1**—IPTOS. • **2**—8021P.	N/A
QosPriorityRatio	Switch global Qos priority ratio	N/A	Enumeration: • **0—**4TO1**.** • **1**—8TO1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—16TO1. • **3**—HIGHFIRST.	

Epon/AgmpQosPort

This table contains AGMP Qos port format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpQosPorts>
      <AgmpQosPort>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <QosPriority></QosPriority>
      </AgmpQosPort>
    </AgmpQosPorts>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpQosPorts
Table type	Multi-instance table
Row name	AgmpQosPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				“Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23.	N/A
QosPriority	Port priority	N/A	Enumeration: • **0**—LOW. • **1**—HIGH.	N/A

Epon/AgmpVlanGlobal

This table contains AGMP VLAN global format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpVlanGlobals>
      <AgmpVlanGlobal>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <VlanEnable></VlanEnable>
        <VlanType></VlanType>
        <VlanMaxNum></VlanMaxNum>
      </AgmpVlanGlobal>
    </AgmpVlanGlobals>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpVlanGlobals
Table type	Multi-instance table
Row name	AgmpVlanGlobal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VlanEnable	Whether the VLAN feature is enabled	N/A	Boolean: • **true**—Enable • **false**—Disable	N/A
VlanType	VLAN type	N/A	Enumeration: • **1—**PORT_BASED**.** • **2**—8021Q.	N/A
VlanMaxNum	Maximum number of VLANs supported	N/A	Enumeration: • **1—**ORI**.** • **2**—128.	N/A

Epon/AgmpVlanCfg

This table contains AGMP VLAN configuration format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpVlanCfgs>
      <AgmpVlanCfg>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <Vid></Vid>
        <PortList></PortList>
        <UnTagList></UnTagList>
      </AgmpVlanCfg>
    </AgmpVlanCfgs>
```

```
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpVlanCfgs
Table type	Multi-instance table
Row name	AgmpVlanCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Vid	VLAN ID	Index	Unsigned integer. You can add or modify only one VLAN at a time, and you can modify multiple VLANs at a time,enter 65535 to delete all VLANs.	N/A
PortList	Port ID	N/A	Sring For example, 1,3, or 3-5.	N/A
UnTagList	Untagged mask for 802.1Q only	N/A	String For example, if ports 1 and 3 are untagged members of VLAN 1, 1,0,1 is displayed.	N/A

Epon/AgmpCableTest

This table contains AGMP CableTest format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpCableTests>
      <AgmpCableTest>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <PortId></PortId>
        <RxPair></RxPair>
        <RxDistance></RxDistance>
        <TxPair></TxPair>
        <TxDistance></TxDistance>
      </AgmpCableTest>
    </AgmpCableTests>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpCableTests
Table type	Multi-instance table
Row name	AgmpCableTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API

Column name	Column description	Column type	Data type and restrictions	Remarks
				Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PortId	Port ID	Index	Unsigned integer. Value range: 0 to 23.	N/A
RxPair	RX cable status	N/A	Enumeration: • **0**—NORMAL**.** • **1**—OPEN. • **2**—SHORT.	N/A
RxDistance	Abnormal distance of Rx cable state	N/A	Unsigned integer Value range: 0 to 255	N/A
TxPair	TX cable status	N/A	Enumeration: • **0**—NORMAL**.** • **1**—OPEN. • **2**—SHORT.	N/A
TxDistance	Abnormal distance of Tx cable state	N/A	Unsigned integer Value range: 0 to 255	N/A

Epon/AgmpGlobalCfg

This table contains AGMP global configuration format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpGlobalCfgs>
      <AgmpGlobalCfg>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <FullDuplexFlowControl></FullDuplexFlowControl>
        <BroadcastStormConstrain></BroadcastStormConstrain>
      </AgmpGlobalCfg>
    </AgmpGlobalCfgs>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpGlobalCfgs
Table type	Multi-instance table
Row name	AgmpGlobalCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
FullDuplexFlowControl	Global full duplex flow control switch	N/A	Boolean: • **true**— Enable FullDuplexFlowControl • **false**—Disable FullDuplexFlowControl	N/A
BroadcastStormConstrain	Broadcast storm filter switch	N/A	Boolean: • **true**— Enable BroadcastStormFiltering • **false**—Disable BroadcastStormFiltering	N/A

Epon/AgmpSwitchName

This table contains AGMP SwitchName format for ONU authentication.

XML structure

```
<Epon>
  <Agmp>
    <AgmpSwitchNames>
      <AgmpSwitchName>
        <IfIndex></IfIndex>
        <Uni></Uni>
        <SwitchMac></SwitchMac>
        <SwitchLocation></SwitchLocation>
        <SwitchName></SwitchName>
        <SwitchNote></SwitchNote>
      </AgmpSwitchName>
    </AgmpSwitchNames>
  </Agmp>
</Epon>
```

Table description

Item	Description
Feature name	Epon
Table name	AgmpSwitchNames
Table type	Multi-instance table
Row name	N/A
Restrictions	AgmpSwitchName

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Configure the MAC address to be with or without hyphens.Interface index as table index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Uni	Interface on ONU device	Index	Unsigned integer Value range: 1 to 79.	Is 0xff, indicating that the uni port is invalid
SwitchMac	Switch MAC	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchLocation	Switch location	N/A	String. Length: 1 to 32 characters	N/A
SwitchName	Switch name	N/A	String. Length: 1 to 32 characters	N/A
SwitchNote	Switch note	N/A	String. Length: 1 to 32 characters	N/A

Epon 2
Epon/OltUsingOnu 2
Epon/RoltInterfaceMember 3
Epon/OnuBind 4
Epon/OnuAutoBind 6
Epon/UniConfigInfo 6
Epon/FiberBackupTCPChannel 6
Epon/FiberBackupGroups 7
Epon/OltInterfaces 8
Epon/OnuTransparentMulticasts 9
Epon/UniTransparentMulticasts 9
Epon/AgmpPort 10
Epon/AgmpQosGlobal 11
Epon/AgmpQosPort 11
Epon/AgmpVlanGlobal 11
Epon/AgmpVlanCfg 12
Epon/AgmpGlobalCfg 12
Epon/AgmpResetCounter 13
Epon/AgmpOperType 13
Epon/AgmpConfigData 13
Epon/AgmpSwitchName 14

Epon

Epon/OltUsingOnu

Message	Explanation
The interface in use cannot be deleted. 接口正在使用，不能被删除。	During executing undo operation for ONU interfaces, the interface in use cannot be deleted. 在对 ONU 接口进行 undo 操作时，因为接口正在使用，不能被删除。
Cannot delete this interface. 无法删除该接口。	During executing delete operation for ONU interface, this interface can not be deleted. 在执行删除 ONU 接口操作时，该接口无法被删除。
Cannot create this interface. 无法创建该接口。	During executing create operation for ONU interface, this interface can not be created. 在执行创建 ONU 接口操作时，该接口无法被创建。
Failed to create some interfaces. 部分接口创建失败。	During executing create operation for ONU interface, some interface creates failed. 在执行创建 ONU 接口操作时，部分接口创建失败。
Failed to delete some interfaces. 部分接口删除失败。	During executing delete operation for ONU interface, some interface deletes failed. 在执行删除 ONU 接口操作时，部分接口删除失败。
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for OltUsingOnu table, this operation is only supported on the OLT or ROLT interface. OltUsingOnu 表进行设置操作时，只支持 OLT、ROLT 接口。
The ONUs attached to %s are recovering. Please wait. 接口%s 的 ONU 接口正在配置，请稍后再试。	During executing delete operation for ONU interface, the ONUs are recovering. 在执行删除 ONU 接口操作时，ONU 接口正在配置。
Onu belong to %s can’t be deleted. Please undo the onu auto bind configuration of slot %hu first. 不能删除%s 的 ONU 接口。请先删除%hu 槽的自动绑定配置。	During executing delete operation for ONU interface, it can’t be deleted, because of onu auto configuration. 在执行删除 ONU 接口操作时，配置了自动绑定，不允许删除 ONU 接口。
Onu belong to %s can’t be deleted. Please undo the onu auto bind configuration of chassis %hu slot %hu first. 不能删除%s 的 ONU 接口。请先删除%hu 框%hu 槽的自动绑定配置。	During executing delete operation for ONU interface, it can’t be deleted, because of onu auto configuration. 在执行删除 ONU 接口操作时，配置了自动绑定，不允许删除 ONU 接口。
Onu belong to %s can’t be deleted. Please undo	During executing delete operation for RONU interface,

the onu auto bind configuration first. 不能删除%s 的 ONU 接口。请先删除自动绑定配置。	it can't be deleted, because of onu auto configuration. 在执行删除 RONU 接口操作时，配置了自动绑定，不允许删除 RONU 接口。
Please input the valid ONU number parameters, the valid ONU number: %u-%u. 请输入有效的 ONU 编号参数，ONU 编号的有效范围：%u-%u。	During executing set operation for OltUsingOnu table, the OnuNum is invalid OltUsingOnu 表进行设置操作时，OnuNum 范围无效。
Operation failed. 操作失败。	When operating the OltUsingOnu table failed, and the reason is not clear, this prompt will be printed by default. 对 OltUsingOnu 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/RoltInterfaceMember

Message	Explanation
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for RoltInterfaceMember table, this operation is only supported on the ROLT interface. RoltInterfaceMember 表进行设置操作时，只支持 ROLT 接口。
The OLT interface is already a member of another ROLT interface. 该 OLT 接口已经是其他 ROLT 接口的成员口。	During executing set operation for RoltInterfaceMember table, the OLT interface is already a member of another ROLT interface. 在对 RoltInterfaceMember 表进行设置操作时，该 OLT 接口已经是其他 ROLT 接口的成员口。
The priority is already used by another member interface. 相同优先级的成员接口已经存在。	During executing set operation for RoltInterfaceMember table, the priority is already used by another member interface. 在对 RoltInterfaceMember 表进行设置操作时，该优先级已经是同一 ROLT 接口的另一个成员口的优先级。
Number of members has exceeded the limit. ROLT 接口的成员口个数达到上限。	During executing set operation for RoltInterfaceMember table, the number of members has exceeded the limit. 在对 RoltInterfaceMember 表进行设置操作时，该接口的成员口达到上限。
The operation failed because the OLT interface has been assigned to a fiber backup group. OLT 接口已经加入光纤备份组，不能再加入 ROLT 接口。	During executing set operation for RoltInterfaceMember table, the operation failed because the OLT interface has been assigned to a fiber backup group. 在对 RoltInterfaceMember 表进行设置操作时，操作失

	败，因为该 OLT 接口已经加入光纤备份组。
Can't assign the interface to the ROLT interface because its attribute configurations are different from the ROLT interface. 接口上存在的属性类配置和 OLT 冗余接口不同，该接口不能加入 OLT 冗余口。	During executing set operation for interfaces table, can't assign the interface to the ROLT interface because its attribute configurations are different from the ROLT interface. 在对接口信息表进行 set 操作时，接口上存在的属性类配置和 OLT 冗余接口不同，该接口不能加入 OLT 冗余口。
The operation failed because the OLT interface has been configured with L2VPN. 操作失败，该端口配置了 L2VPN 业务。	During executing set operation for RoltInterfaceMember table, the operation failed because the OLT interface has been configured with L2VPN. 在对 RoltInterfaceMember 表进行 set 操作时，因为该端口配置了 L2VPN 业务导致加入 ROLT 失败。
Can't assign the interface to the ROLT interface because it has configured authentication mode. OLT 接口配置了认证模式，不能再加入 OLT 冗余接口。	During executing set operation for RoltInterfaceMember table, the operation failed because it has configured authentication mode. 在对 RoltInterfaceMember 表进行设置操作时，操作失败，因为 OLT 接口配置了认证模式配置。
Operation failed. 操作失败。	When operating the RoltInterfaceMember table failed, and the reason is not clear, this prompt will be printed by default. 对 RoltInterfaceMember 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/OnuBind

Message	Explanation
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for OnuBind table, this operation is only supported on the ROLT interface. OnuBind 表进行设置操作时，只支持 ONU、RONU 接口。
Multicast and broadcast MAC addresses aren't supported. 不支持广播 MAC 地址与多播 MAC 地址。	During executing set operation for OnuBind table, the multicast and broadcast MAC addresses aren't supported when then BindType is MAC. 在对 OnuBind 表配置 MAC 绑定操作时，MAC 地址不支持广播与多播。
The MAC address is the bridge MAC address. 该 MAC 地址是桥 MAC。	During executing set operation for OnuBind table, the operation failed because the MAC address is the bridge MAC address. 在对 OnuBind 表配置 MAC 绑定操作时，操作失败，因为 MAC 地址是桥 MAC。
Invalid MAC address.	During executing set operation for OnuBind table, the operation failed because of invalid MAC address.

无效的 MAC 地址。	在对 OnuBind 表配置 MAC 绑定时，操作失败，因为 MAC 地址是无效的。
The ONU has been bound to an ONU port on another OLT port. 该 ONU 设备已经被其他 OLT 接口的 ONU 接口绑定。	During executing set operation for OnuBind table, the ONU device has been bound to an ONU port on another OLT port. 在对 OnuBind 表进行设置操作时，该 ONU 设备已经被其他 OLT 接口的 ONU 接口绑定。
The ONU port has already been bound to an ONU. 该 ONU 接口已经配置了 ONU 绑定。	During executing set operation for OnuBind table, the ONU port has already been bound to an ONU。 在对 OnuBind 表进行设置操作时，该 ONU 接口已经配置了 ONU 绑定。
Can't bind any ONU to the port because the bandwidth is not sufficient. 接口的带宽不足，不能绑定 ONU。	During executing set operation for OnuBind table, the operation failed because of insufficient bandwidth, can't bind any ONU to the port. 在对 OnuBind 表进行设置操作时，接口的带宽不够，不能绑定 ONU。
Can’t bind the same LOID to different ONU ports of an OLT. 同一 OLT 接口的不同 ONU 接口，不能绑定相同的 LOID。	During executing set operation for OnuBind table, can't bind the same LOID to different ONU ports of an OLT. 在对 OnuBind 表进行设置操作时，属于 OLT 接口的不同 ONU 接口，不能绑定相同的 LOID。
Can’t bind the same MAC address to different ONU ports of an OLT. 同一 OLT 接口的不同 ONU 接口，不能绑定相同的 MAC 地址。	During executing set operation for OnuBind table, can't bind the same MAC address to different ONU ports of an OLT. 在对 OnuBind 表进行设置操作时，属于 OLT 接口的不同 ONU 接口，不能绑定相同的 MAC 地址。
Please input the MAC address. 请输入 MAC 地址。	During executing set operation for OnuBind table, please input the MAC address value, if the BindType is MAC. 在对 OnuBind 表进行设置操作时，如果是 MAC 绑定，请同时输入 MAC 地址。
Please input the LOID parameter. 请输入 LOID 参数。	During executing set operation for OnuBind table, please input the LOID value, if the BindType is LOID. 在对 OnuBind 表进行设置操作时，如果是 LOID 绑定，请同时输入 LOID。
Please input both the LOID and the CipherPaswd or SimplePaswd parameters. 请输入 LOID、CipherPaswd 或者 LOID、SimplePaswd 参数。	During executing set operation for OnuBind table, please input both the LOID value and the CipherPaswd or SimplePaswd, if the BindType is LOID-PASSWORD. 在对 OnuBind 表进行设置操作时，如果是 LOID-PASSWORD 绑定，请同时输入 LOID 与 CipherPaswd 或者 LOID 与 SimplePaswd。
Operation failed.	When operating the OnuBind table failed, and the

操作失败。	reason is not clear, this prompt will be printed by default. 对 OnuBind 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/OnuAutoBind

Message	Explanation
Operation failed. 操作失败。	When operating the OnuAutoBind table failed, and the reason is not clear, this prompt will be printed by default. 对 OnuAutoBind 表操作失败时，但又没有返回问题原因，则默认打印此提示。
No more ONU interfaces can be created on the %s. Please unbind one ONU ID of the OLT first。 OLT 接口没有资源创建更多的 ONU 接口，请先解绑一个 ONU。	During executing set operation for OnuAutoBind table, no more ONU interface can be created on the OLT interface. Please unbind one ONU ID of the OLT first. 在对 OnuAutoBind 表进行设置操作时，OLT 接口没有资源创建更多的 ONU 接口，需要先解绑一个 ONU。

Epon/UniConfigInfo

Message	Explanation
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for UniConfigInfo table, this operation is only supported on the ROLT interface. UniConfigInfo 表进行设置操作时，只支持 ONU、RONU 接口。
Please input integral configuration parameters. 请输入完整的配置参数。	When configuring UNI PVID, please input the VlanMode and PVID at the same time. 配置 UNI PVID 时，需要同时输入 VlanMode 和 PVID。

Epon/FiberBackupTCPChannel

Message	Explanation
Operation failed. 操作失败。	When operating the FiberBackupTCPChannel table failed, and the reason is not clear, this prompt will be printed by default. 对 FiberBackupTCPChannel 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/FiberBackupGroups

Message	Explanation
The group doesn't exist. 指定备份组不存在。	During executing set operation for FiberBackupGroups table, the fiber backup group doesn't exist. 在对 FiberBackupGroups 表进行设置操作时，指定的备份组不存在。
Illegal fiber backup group ID. 指定备份组 ID 无效。	During executing set operation for FiberBackupGroups table, the fiber backup group ID is invalid. 在对 FiberBackupGroups 表进行设置操作时，指定的备份组 ID 无效。
The fiber backup group with different type already existed. 已存在其他类型的备份组。	During executing set operation for FiberBackupGroups table, the fiber backup group with same group ID but with different type has already existed. 在对 FiberBackupGroups 表进行设置操作时，设置的备份组已存在其他类型的同编号的备份组。
The multidevice fiber backup group can only contain one master or standby interface. 跨设备光纤备份组只能指定一个主或备端口。	During executing set operation for FiberBackupGroups table, the multidevice fiber backup group can only contain one master or standby interface. 在对 FiberBackupGroups 表进行设置操作时，跨设备光纤备份组只能指定一个主或备端口。
Can't delete the fiber backup group: The group has members. 不能删除包含成员端口的备份组。	During executing set operation for FiberBackupGroups table, the fiber backup group with members can not be deleted. 在对 FiberBackupGroups 表进行设置操作时，不能删除包含成员端口的备份组。
The port has already been added to another fiber backup group. 该端口已配置在其他备份组。	During executing set operation for FiberBackupGroups table to add a member to the fiber backup group, the port has already been added to another fiber backup group. 在对 FiberBackupGroups 表进行设置操作时，不能配置已经添加到其他备份组中的端口到指定备份组。
The fiber backup group already has two members. 本地备份组中已存在两个成员口。	During executing set operation for FiberBackupGroups table, the fiber backup group only can configure two members. 在对 FiberBackupGroups 表进行设置操作时，本地备份组只能配置两个成员口。
Can't assign the interface to a fiber backup group because it has been assigned to an ROLT interface. 不能配置已经加入到 ROLT 接口的端口到备份组。	During executing set operation for FiberBackupGroups table, can't assign the interface which has been assigned to an ROLT interface to a fiber backup group. 在对 FiberBackupGroups 表进行设置操作时，不能配置已经加入到 ROLT 接口的端口到备份组。
The fiber backup group must be configed a master interface first.	During executing set operation for FiberBackupGroups table, the fiber backup group must be configed a

本地备份组必须首先配置一个主端口。	master interface first. 在对 FiberBackupGroups 表进行设置操作时，本地备份组必须首先配置一个主端口。
The fiber backup group has been configed a master interface. 本地备份组已经配置了一个主端口。	During executing set operation for FiberBackupGroups table, the fiber backup group has been configed a master interface. 在对 FiberBackupGroups 表进行设置操作时，本地备份组已经配置了一个主端口，不能再添加其他主端口。
Uplink interface can be configured only in a multidevice fiber backup group. 仅跨设备光纤备份组可以配置上行口。	During executing set operation for FiberBackupGroups table, uplink interface can be configured only in a multidevice fiber backup group. 在对 FiberBackupGroups 表进行设置操作时，仅有跨设备光纤备份组可以配置上行口。
Only one uplink interface can be configured in a multidevice fiber backup group. 跨设备光纤备份组只能配置一个上行口。	During executing set operation for FiberBackupGroups table, only one uplink interface can be configured in a multidevice fiber backup group. 在对 FiberBackupGroups 表进行设置操作时，跨设备光纤备份组只能配置一个上行口。
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for FiberBackupGroups table, this operation is only supported on the OLT or UPLINK interface. 在对 FiberBackupGroups 表进行设置操作时，只支持 OLT、UPLINK 相关接口类型。
Operation failed. 操作失败。	When operating the FiberBackupGroups table failed, and the reason is not clear, this prompt will be printed by default. 在 对 FiberBackupGroups 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/OltInterfaces

Message	Explanation
This operation is not supported on the interface. 该接口不支持本操作。	During executing set operation for OltUsingOnu table, this operation is only supported on the OLT or ROLT interface. FiberBackupGroups 表进行设置操作时，只支持 OLT、ROLT 接口。
Operation failed. 操作失败。	When operating the OltInterfaces table failed, and the reason is not clear, this prompt will be printed by default. 对 OltInterfaces 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/OnuTransparentMulticasts

Message	Explanation
Up to 8 transparent multicast MAC address and VLAN entries can be configured. 透传组播配置的MAC地址和VLAN不能都相同且不能超过8个。	Can not configure more than 8 transparent multicast entries. 最多只能配置 8 个组播透传。
The configuration of the MAC address and VLAN already exists. 指定 MAC 地址和 VLAN 的透传组播配置已存在。	When you add a transparent multicast configuration and the configuration with the same MAC address and VLAN already exists, this prompt will be printed. 添加透传组播配置时，发现指定的 MAC 和 VLAN 已存在，提示此错误。
The configuration of the MAC address and VLAN doesn't exist. 指定 MAC 地址和 VLAN 的透传组播配置不存在。	When you delete a transparent multicast configuration and the configuration with the same MAC address and VLAN does not exist, this prompt will be printed. 删除透传组播配置时，发现指定的 MAC 和 VLAN 不存在，提示此错误。
Forwarding multicast packets transparently has been configured for single UNI ports. 单个 UNI 口已配置透传组播。	When you configure a transparent multicast configuration for all UNI ports and a configuration for a single UNI port already exists, this prompt will be printed. 已配置了单个 UNI 口的透传组播配置，再配置全部 UNI 的透传组播配置时，提示此错误。
Only support the multicast mac-address. 只支持组播 MAC 地址。	Transparent multicast configuration only support the multicast mac-address. 透传组播配置只支持组播 MAC 地址。
Operation failed. 操作失败。	When operating the OnuTransparentMulticasts table failed, and the reason is not clear, this prompt will be printed by default. 对 OnuTransparentMulticasts 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/UniTransparentMulticasts

Message	Explanation
Up to 8 transparent multicast MAC address and VLAN entries can be configured. 透传组播配置的MAC地址和VLAN不能都相同且不能超过8个。	Can not configure more than 8 transparent multicast entries. 最多只能配置 8 个组播透传。
The configuration of the MAC address and VLAN already exists.	When you add a tranparent multicast configuration and the configuraiton with the same MAC and VLAN

指定 MAC 地址和 VLAN 的透传组播配置已存在。	already exists, this prompt will be printed. 添加透传组播配置时，发现指定的 MAC 和 VLAN 已存在，提示此错误。
The configuration of the MAC address and VLAN doesn't exists. 指定 MAC 地址和 VLAN 的透传组播配置不存在。	When you delete a transparent multicast configuration and the configuration with the same MAC address and VLAN does not exist, this prompt will be printed. 删除透传组播配置时，发现指定的 MAC 和 VLAN 不存在，提示此错误。
Forwarding multicast packets transparently has been configured for all UNI ports. 已在 ONU 口上配置所有 UNI 口的透传组播。	When you configure a transparent multicast configuration for a single UNI port and a configuration for all UNI ports already exists, this prompt will be printed. 已配置了全部 UNI 口的透传组播配置，再配置单个 UNI 的透传组播配置时，提示此错误。
Only support the multicast mac-address. 只支持组播 MAC 地址。	Transparent multicast configuration only support the multicast mac-address. 透传组播配置只支持组播 MAC 地址。
Operation failed. 操作失败。	When operating the UniTransparentMulticasts table failed, and the reason is not clear, this prompt will be printed by default. 对 UniTransparentMulticasts 表操作失败时，但又没有返回问题原因，则默认打印此提示。

Epon/AgmpPort

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpQosGlobal

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpQosPort

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpVlanGlobal

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP.	Does not support AGMP.

不支持AGMP。	不支持 AGMP

Epon/AgmpVlanCfg

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP
VLAN configuration conflicts, with VLAN xx,xx,xx,xx please try another VLAN ID . VLAN配置冲突，与Vlan xx,xx,xx,xx冲突，请尝试其他VLAN ID。	VLAN configuration conflicts.Please try another VLAN ID . VLAN 配置存在冲突，请尝试其他 VLAN ID
The number of device VLANs has reached the limit! Please delete some VLANs and try again. 设备VLAN数量已达最限制！请先删除部分VLAN后重试。	The number of VLANs has reached the maximum limit and cannot be created. Please delete some VLANs before creating a VLAN. VLAN 数量已达到最大限制，无法创建，请删除部分 VLAN 后再创建
The VLAN already exists and cannot be created repeatedly, Please confirm . VLAN已存在，不能重复创建，请确认。	The created VLAN already exists and cannot be created repeatedly, Please cconfirm. 创建的 VLAN 已经存在，不能重复创建，请检查确认

Epon/AgmpGlobalCfg

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpResetCounter

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpOperType

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Epon/AgmpConfigData

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP.	Does not support AGMP.

不支持AGMP。	不支持 AGMP
The imported file is wrong. Please select the correct file. 导入的文件有误，请选择正确的文件。	The imported file is incorrect, Please check the imported file and select the correct one. 导入的文件不正确，请检查导入的文件，并选择正确的文件

Epon/AgmpSwitchName

Message	Explanation
The local port status is incorrect or the network is busy, and the configuration reading fails. Please confirm the local port status is correct and refresh the page again. 本地端口状态不正确或网络忙，读取配置失败，请确认本地端口状态正确后，重新刷新页面。	Errors caused by incorrect settings, busy network, incorrect configuration, and incorrect local port status. Please confirm the local port status is correct and refresh the page again. 由于设置错误、网络忙、配置错误以及本地端口状态不正确导致错误
Page input error. 页面输入错误。	The issued configuration error returns an error 下发的配置参数出错导致错误
Does not support AGMP. 不支持AGMP。	Does not support AGMP. 不支持 AGMP

Contents

OnuOnline event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1
OnuOffline event ····· 2
XML structure for event subscription ····· 2
XML structure for event report ····· 3
OnuNeighborOnline event ····· 4
XML structure for event subscription ····· 4
XML structure for event report ····· 5
OnuNeighborOffline event ····· 6
XML structure for event subscription ····· 6
XML structure for event report ····· 7
RoltMemberInfo event ····· 8
XML structure for event subscription ····· 8
XML structure for event report ····· 9

OnuOnline event

This event is used to report ONU interface online information.

XML structure for event subscription

```
<OnuOnlineEvent>
  <OnuOnline>
    <Name></Name>
  </OnuOnline>
</OnuOnlineEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Epon</stream>
    <filter type="subtree">
      <OnuOnlineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
        <OnuOnline>
          <Name>Onu2/0/1:1</Name>
        </OnuOnline>
      </OnuOnlineEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Epon
Event name	OnuOnlineEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Epon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	ONU or RONU interface name	String. Size: 1 to 47	No

XML structure for event report

```
<OnuOnlineEvent>
  <OnuOnline>
    <IfIndex></IfIndex>
```

```
    <BindMac></BindMac>
    <MaxUni></MaxUni>
    <OnuModel></OnuModel>
  </OnuOnline>
</OnuOnlineEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-11T09:10:51</eventTime>
  <OnuOnlineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
    <OnuOnline>
      <IfIndex>1296</IfIndex>
      <BindMac>00-11-22</BindMac>
      <MaxUni>79</MaxUni>
      <OnuModel>ET304</OnuModel>
   </OnuOnline>
  </OnuOnlineEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
IfIndex	Interface index	Unsigned integer.	No
BindMac	MAC address of an ONU to be bound	Three groups of two hexadecimal digits, hyphen-separated.	No
MaxUni	Max number of UNI interfaces	Unsigned integer	No
OnuModel	Device model of an ONU	String. Length: 2 to 24 characters. Example: ET304	No

OnuOffline event

This event is used to report ONU interface offline information.

XML structure for event subscription

```
<OnuOfflineEvent>
  <OnuOffline>
    <Name></Name>
```

```
  </OnuOffline>
</OnuOfflineEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Epon</stream>
    <filter type="subtree">
      <OnuOfflineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
        <OnuOffline>
          <Name>Onu2/0/1:1</Name>
        </OnuOffline>
      </OnuOfflineEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Epon
Event name	OnuOfflineEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Epon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	ONU or RONU interface name	String. Size: 1 to 47	No

XML structure for event report

```
<OnuOfflineEvent>
  <OnuOffline>
    <IfIndex></IfIndex>
    <BindMac></BindMac>
  </OnuOffline>
</OnuOfflineEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-11T09:10:51</eventTime>
  <OnuOfflineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
    <OnuOffline>
      <IfIndex>1296</IfIndex>
      <BindMac>00-11-22</BindMac>
```

```
    </OnuOffline>
  </OnuOfflineEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
IfIndex	Interface index	Unsigned integer.	No
BindMac	MAC address of an ONU to be unbound	Three groups of two hexadecimal digits, hyphen-separated.	No

OnuNeighborOnline event

This event is used to report ONU neighbor online information.

XML structure for event subscription

```
<OnuNeighborOnlineEvent>
  <OnuNeighborOnline>
    <Name></Name>
    <UniNum></UniNum>
  </OnuNeighborOnline>
</OnuNeighborOnlineEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Epon</stream>
    <filter type="subtree">
      <OnuNeighborOnlineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
        <OnuNeighborOnline>
          <Name>Onu2/0/1:1</Name>
          <UniNum>1</UniNum>
        </OnuNeighborOnline>
      </OnuNeighborOnlineEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Epon
Event name	OnuNeighborOnline Event
Event namespace	http://www.h3c.com/netconf/event:1.0/Epon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	ONU or RONU interface name	String. Size: 1 to 47	No
UniNum	UNI number	Unsigned integer	No

XML structure for event report

```
<OnuNeighborOnlineEvent>
  <OnuNeighborOnline>
    <IfIndex></IfIndex>
    <UniNum></UniNum>
    <NeighborType></NeighborType>
    <NeighborMac></NeighborMac>
  </OnuNeighborOnline>
</OnuNeighborOnlineEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-11T09:10:51</eventTime>
  <OnuNeighborOnlineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
    <OnuNeighborOnline>
      <IfIndex>1296</IfIndex>
      <UniNum>1</UniNum>
      <NeighborType>0</NeighborType>
      <NeighborMac>00-11-33</NeighborMac>
    </OnuNeighborOnline>
  </OnuNeighborOnlineEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
UniNum	UNI number	Unsigned integer	No
NeighborType	Type of the ONU neighbor	Enumeration: • 1—AP.	No
NeighborMac	MAC address of the ONU neighbor to be bound	Three groups of two hexadecimal digits, hyphen-separated.	No

OnuNeighborOffline event

This event is used to report ONU neighbor offline information.

XML structure for event subscription

```
<OnuNeighborOfflineEvent>
  <OnuNeighborOffline>
    <Name></Name>
    <UniNum></UniNum>
  </OnuNeighborOffline>
</OnuNeighborOfflineEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Epon</stream>
    <filter type="subtree">
      <OnuNeighborOfflineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
        <OnuNeighborOffline>
          <Name>Onu2/0/1:1</Name>
          <UniNum>1</UniNum>
        </OnuNeighborOffline>
      </OnuNeighborOfflineEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Epon

Item	Description
Event name	OnuNeighborOfflineEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Epon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	ONU or RONU interface name	String. Size: 1 to 47	No
UniNum	UNI number	Unsigned integer	No

XML structure for event report

```
<OnuNeighborOfflineEvent>
  <OnuNeighborOffline>
    <IfIndex></IfIndex>
    <UniNum></UniNum>
    <NeighborType></NeighborType>
    <NeighborMac></NeighborMac>
  </OnuNeighborOffline>
</OnuNeighborOfflineEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-11T09:10:51</eventTime>
  <OnuNeighborOfflineEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
    <OnuNeighborOffline>
      <IfIndex>1296</IfIndex>
      <UniNum>1</UniNum>
      <NeighborType>0</NeighborType>
      <NeighborMac>00-11-33</NeighborMac>
    </OnuNeighborOffline>
  </OnuNeighborOfflineEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
IfIndex	Interface index	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
UniNum	UNI number	Unsigned integer	No
NeighborType	Type of the ONU neighbor	Enumeration: • 1—AP.	No
NeighborMac	MAC address of the ONU neighbor to be unbound	Three groups of two hexadecimal digits, hyphen-separated.	No

RoltMemberInfo event

This event is used to report forwarding OLT member interface of an ROLT interface.

XML structure for event subscription

```
<RoltMemberInfoEvent>
  <RoltMemberInfo>
    <Name></Name>
    </RoltMemberInfo>
</RoltMemberInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Epon</stream>
    <filter type="subtree">
      <RoltMemberInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
        <RoltMemberInfo>
          <Name>rolt1</Name>
        </RoltMemberInfo>
      </RoltMemberInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Epon
Event name	RoltMemberInfo Event
Event namespace	http://www.h3c.com/netconf/event:1.0/Epon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	ROLT interface name	String. Size: 1 to 47	No

XML structure for event report

```
<RoltMemberInfoEvent>
  <RoltMemberInfo>
    <IfIndex></IfIndex>
    <ForwardMemIfIndex></ForwardMemIfIndex>
  </RoltMemberInfo>
</RoltMemberInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-01-11T09:10:51</eventTime>
  <RoltMemberInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/Epon:1.0">
    <RoltMemberInfo>
      <IfIndex>1296</IfIndex>
      <ForwardMemIfIndex>216</ForwardMemIfIndex>
    </RoltMemberInfo>
  </RoltMemberInfoEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
IfIndex	ROLT interface index	Unsigned integer.	No
ForwardMemIfIndex	Forwarding OLT member interface index	Unsigned integer	No

Contents

EPS 1
EPS/EPSAgentEnable 1
XML structure 1
Table description 1
Columns 2
EPS/EPSServerConfigure 2
XML structure 2
Table description 2
Columns 2

EPS

EPS/EPSAgentEnable

This table contains EPS agent enabling information.

XML structure

```
<EPS>
  <EPSAgentEnable>
    <AgentEnable></AgentEnable>
  </EPSAgentEnable>
</EPS>
```

Table description

Item	Description
Feature name	EPS
Table name	EPSAgentEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentEnable	Enable EPS agent.	N/A	Enumeration: • **0**—Disable (default). • **1**—Enable.	N/A

EPS/EPSServerConfigure

This table contains EPS server configuration information.

XML structure

```
<EPS>
  <EPSServerConfigure>
    <IPv4Address></IPv4Address>
    <PortNumber></PortNumber>
    <KeyType></KeyType>
    <KeyValue></KeyValue>
    <LogLevelValue></LogLevelValue>
    <UseServerSetting></UseServerSetting>
  </EPSServerConfigure>
</EPS>
```

Table description

Item	Description
Feature name	EPS
Table name	EPSServerConfigure
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IP address of the EPS server.	N/A	String, dotted decimal notation.	N/A
PortNumber	Port number of the EPS server.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
KeyType	Type of the key for communication between EPS agent and EPS server.	N/A	Enumeration: • **0**—Simple. • **1—**Cipher.	Optional.
KeyValue	Key for communication between EPS agent and EPS server.	N/A	String, case insensitive. Length of cipher key: 1 to 65 characters. Length of simple key: 1 to 24 characters.	Optional. Specify a cipher key or simple key depending on KeyType.
LogLevelValue	Level of log information output to the EPS server.	N/A	Enumeration: • **0**—Serious. • **1—**Error. • **2—**Warning（default）. • **3—**Hint. • **4—**Debug. • **5—**High debug.	Optional.
UseServerSetting	Whether the EPS agent uses the values of the global parameters configured by the EPS server.	N/A	Enumeration: • **1**—Use.	Optional.

Contents

EPS 1
EPS/EPSAgentEnable 1
XML structure 1
Table description 1
Columns 1
EPS/EPSServerConfigure 1
XML structure 2
Table description 2
Columns 2

EPS

EPS/EPSAgentEnable

This table contains EPS agent enabling information.

XML structure

```
<EPS>
  <EPSAgentEnable>
    <AgentEnable></AgentEnable>
  </EPSAgentEnable>
</EPS>
```

Table description

Item	Description
Feature name	EPS
Table name	EPSAgentEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentEnable	Enable the EPS agent.	N/A	Enumeration: • **0**—Disable (default). • **1**—Enable.	N/A

EPS/EPSServerConfigure

This table contains EPS server configuration information.

XML structure

```
<EPS>
  <EPSServerConfigure>
    <IPv4Address></IPv4Address>
    <PortNumber></PortNumber>
    <KeyType></KeyType>
    <KeyValue></KeyValue>
    <LogLevelValue></LogLevelValue>
    <UseServerSetting></UseServerSetting>
  </EPSServerConfigure>
</EPS>
```

Table description

Item	Description
Feature name	EPS
Table name	EPSServerConfigure
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IP address of the EPS server.	N/A	String, dotted decimal notation.	N/A
PortNumber	Port number of the EPS server.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
KeyType	Type of the key for communication between EPS agent and EPS server.	N/A	Enumeration: • **0**—Simple. • **1**—Cipher.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
KeyValue	Key for communication between EPS agent and EPS server.	N/A	String, case insensitive. Length of cipher key: 1 to 65 characters. Length of simple key: 1 to 24 characters.	Optional. Specify a cipher key or simple key depending on KeyType.
LogLevelValue	Level of log information output to the EPS server.	N/A	Enumeration: • **0**—Serious. • **1—**Error. • **2—**Warning. • **3—**Hint. • **4—**Debug. • **5—**High debug.	Optional.
UseServerSetting	Whether the EPS agent uses the values of the global parameters configured by the EPS server.	N/A	Enumeration: • **1—**Use.	Optional.

Contents

EPS 1
EPS/EPSAgentEnable 1
EPS/EPSServerConfigure 1

EPS

EPS/EPSAgentEnable

Message	Explanation
Failed to enable the EPS agent. 启动EPS Agent功能失败。	Failed to enable the EPS agent. Please try again. 启动EPS Agent功能失败，请稍后重试。

EPS/EPSServerConfigure

Message	Explanation
Failed to save configuration. 保存配置失败。	Failed to save configuration. Please try again. 保存配置失败，请重新保存。
Invalid IP address. 非法的IP地址。	Invalid IP address configuration. 非法的IP地址配置。
Invalid key. 非法的密钥。	Invalid key configuration. 非法的密钥配置。
Failed to restore the default configuration. 恢复缺省配置失败。	Please input all configured columns. 请输入所有已配置的列。
Please input IP address. 请输入IP地址。	IP address is a required configuration parameter. IP地址是必选配置参数。
Please input port number. 请输入端口号。	Port number is a required configuration parameter. 端口号是必选配置参数。
Please input key type. 请输入密钥类型。	Key and key type have to be inputted together. 密钥和密钥类型需要一同输入。
Please input key. 请输入密钥。	Key and key type have to be inputted together. 密钥和密钥类型需要一同输入。

Contents

ERPS 1
ERPS/SwitchState 1
XML structure 1
Table description 1
Columns 1
ERPS/ClearInstanceState 1
XML structure 2
Table description 2
Columns 2
ERPS/ClearInstanceStatistics 2
XML structure 2
Table description 3
Columns 3

ERPS

ERPS/SwitchState

The SwitchState table is used to switch state of a erps ring.

XML structure

```
<ERPS>
  <SwitchState>
    <RingID></RingID>
    <InstanceID></InstanceID>
    <State></State>
    <PortRole></PortRole>
  </SwitchState>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	SwitchState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Ring index	Index	Unsigned integer.	N/A
InstanceID	Instance id	Index	Unsigned integer.	N/A
State	Switch state of a erps ring	N/A	Enumeration: • **0**—force. • **1**—manual.	N/A
PortRole	Switch port of a erps ring	N/A	Enumeration: • **0**—port0. • **1**—port1.	N/A

ERPS/ClearInstanceState

The ClearInstanceState table is used to clear instance state of a erps ring.

XML structure

```
<ERPS>
  <ClearInstanceState>
    <RingID></RingID>
    <InstanceID></InstanceID>
    <Clear></Clear>
  </ClearInstanceState>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	ClearInstanceState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Ring index	Index	Unsigned integer.	N/A
InstanceID	Instance id	Index	Unsigned integer.	N/A
Clear	Clear statistics from the erps ring of domain	N/A	This column must be empty.	N/A

ERPS/ClearInstanceStatistics

The ClearInstanceStatistics table is used to clear statistics from erps member ports.

XML structure

```
<ERPS>
  <ClearInstanceStatistics>
    <RingID></RingID>
    <InstanceID></InstanceID>
    <Clear></Clear>
  </ClearInstanceStatistics>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	ClearInstanceStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Ring index	Index	Unsigned integer.	N/A
InstanceID	Instance id	Index	Unsigned integer.	N/A
Clear	Clear statistics from the erps ring of domain	N/A	This column must be empty.	N/A

Contents

ERPS 1
ERPS/Base 1
XML structure 1
Table description 1
Columns 1
ERPS/Rings 1
XML structure 1
Table description 2
Columns 3
ERPS/Rings/Instances 4
XML structure 4
Table description 4
ERPS/Rings/Instances/Connects 5
XML structure 5
Table description 5
ERPS/Interfaces 5
XML structure 5
Table description 5
Columns 6
ERPS/Interfaces/Tracks 6
XML structure 6
Table description 6

ERPS

ERPS/Base

This table contains global erps information.

XML structure

```
<ERPS>
  <Base>
    <ProtocolEnable></ProtocolEnable>
    <TcnPropagationEnable></TcnPropagationEnable>
  </Base>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolEnable	Global statue of erps protocol	N/A	Boolean: • true. • false.	N/A
TcnPropagationEnable	Propagation statue of erps topo-notification	N/A	Boolean: • true. • false.	N/A

ERPS/Rings

This table provides erps ring configuration.

XML structure

```
<ERPS>
  <Rings>
```

```
    <Ring>
      <RingID></RingID>
      <Port0></Port0>
      <Port1></Port1>
      <RapsRingMac></RapsRingMac>
      <RingType></RingType>
      <Instances>
        <Instance>
          <InstanceID></InstanceID>
          <ControlVlan></ControlVlan>
          <ProtectedInstances></ProtectedInstances>
          <NodeRole></NodeRole>
          <Rpl></Rpl>
          <Enable></Enable>
          <RapsLevel></RapsLevel>
          <Connects>
            <Connect>
              <ConnectRingID></ConnectRingID>
              <ConnectInstanceList></ConnectInstanceList>
            </Connect>
          </Connects>
          <RevertiveOper></RevertiveOper>
          <Timer>
            <Guard></Guard>
            <HoldOff></HoldOff>
            <Wtr></Wtr>
          </Timer>
        </Instance>
      </Instances>
    </Ring>
  </Rings>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	This table supports only Domain functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Index of the Ring	Index	Unsigned integer. Value range: 1 to 255.	N/A
Port0	ERPS port0	N/A	String. Length: 0 to 47 characters.	N/A
Port1	ERPS port1	N/A	String. Length: 0 to 47 characters.	N/A
RapsRingMac	Destatition mac address	N/A	Boolean: • true. • false.	N/A
RingType	Ring type	N/A	Boolean: • true. • false.	N/A
Instances	Instance of ring	Sublist	N/A	N/A
InstanceID	Instance id	Index	Unsigned integer. Value range: 1 to 64.	N/A
ControlVlan	Vlan which erps protocol packet transmit	N/A	Unsigned integer. Value range: 2 to 4094.	N/A
ProtectedInstances	Instance protectd by erps protocol	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
NodeRole	ERPS node role	N/A	Enumeration: • **0**—owner. • **1**—neighbor. • **2**—normal. • **3**—interconnection	N/A
Rpl	ERPS rpl port	N/A	Enumeration: • **0**—port0. • **1**—port1.	N/A
RapsLevel	erps raps level	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Enable	erps ring instance protocol enable statue	N/A	Boolean: • true. • false.	N/A
Connects	Erps connects	Sublist	N/A	N/A
ConnectRingI	Erps connect	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
D	ring		Value range: 1 to 255.	
ConnectInstanceList	Erps connect instances	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
RevertiveOper	Erps revertive operation	N/A	Boolean: • true. • false.	N/A
Timer	Timer of erps	Data structure	Members include: • **Guard**. • **HoldOff**. • **Wtr**	N/A
Guard	Guard timer of erps	N/A	Unsigned integer. Value range: 10 to 2000, Step by 10	N/A
HoldOff	Hold off timer of erps	N/A	Unsigned integer. Value range: 0 to 10000, Step by 100	N/A
Wtr	Wtr timer of erps	N/A	Unsigned integer. Value range: 1 to 12	N/A

ERPS/Rings/Instances

Erps ring instance info.

XML structure

Please refer to the XML structure of ERPS/Rings.

Table description

Item	Description
Feature name	ERPS
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

ERPS/Rings/Instances/Connects

XML structure

Please refer to the XML structure of ERPS/Rings/Instances.

Table description

Item	Description
Feature name	ERPS
Table name	Connects
Table type	Multi-instance table
Row name	Connect
Restrictions	None

ERPS/Interfaces

This table provides erps interace info.

XML structure

```
<ERPS>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <Tracks>
        <Track>
          <TrackID></TrackID>
          <RingID></RingID>
          <InstanceList></InstanceList>
        </Track>
      </Tracks>
    </Interface>
  </Interfaces>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	This table supports only ring track function.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	If name	Index	String. Length: 0 to 47 characters.	N/A
Tracks	Track info	Sublist	N/A	N/A
TrackID	Track index	Index	Unsigned integer. Value range: 1 to 1024.	N/A
RingID	Ring index	Index	Unsigned integer. Value range: 1 to 255.	N/A
InstanceList	Instance list of specifical trace	N/A	Number string. It is a comma-separated list of ring items. An item can be an individual ring ID or a ring ID range. Use a hyphen (-) to separate the start and end rings of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

ERPS/Interfaces/Tracks

Erps interfaces tracks info

XML structure

Please refer to the XML structure of ERPS/Interfaces.

Table description

Item	Description
Feature name	ERPS
Table name	Tracks
Table type	Multi-instance table
Row name	Track
Restrictions	None

Contents

ERPS 1
ERPS/Base 1
XML structure 1
Table description 1
Columns 1
ERPS/Rings 1
XML structure 1
Table description 2
Columns 3
ERPS/Rings/Instances 5
XML structure 5
Table description 5
ERPS/Rings/Instances/Connects 5
XML structure 5
Table description 5
ERPS/Interfaces 5
XML structure 6
Table description 6
Columns 6
ERPS/Interfaces/Tracks 7
XML structure 7
Table description 7
ERPS/Statistics 7
XML structure 7
Table description 8
Columns 8

ERPS

ERPS/Base

This table contains global erps information.

XML structure

```
<ERPS>
  <Base>
    <ProtocolEnable></ProtocolEnable>
    <TcnPropagationEnable></TcnPropagationEnable>
  </Base>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolEnable	Global statue of erps protocol	N/A	Boolean: • true. • false.	N/A
TcnPropagationEnable	Propagation statue of erps topo-notification	N/A	Boolean: • true. • false.	N/A

ERPS/Rings

This table provides erps ring configuration.

XML structure

```
<ERPS>
  <Rings>
```

```
    <Ring>
      <RingID></RingID>
      <Port0></Port0>
      <Port1></Port1>
      <RapsRingMac></RapsRingMac>
      <RingType></RingType>
      <Instances>
        <Instance>
          <InstanceID></InstanceID>
          <ControlVlan></ControlVlan>
          <ProtectedInstances></ProtectedInstances>
          <NodeRole></NodeRole>
          <NodeState></NodeState>
          <Port0Role></Port0Role>
          <Port1Role></Port1Role>
          <Port0State></Port0State>
          <Port1State></Port1State>
          <Enable></Enable>
          <RapsLevel></RapsLevel>
          <Connects>
            <Connect>
              <ConnectRingID></ConnectRingID>
              <ConnectInstanceList></ConnectInstanceList>
            </Connect>
          </Connects>
          <RevertiveOper></RevertiveOper>
          <Timer>
            <Guard></Guard>
            <HoldOff></HoldOff>
            <Wtr></Wtr>
          </Timer>
        </Instance>
      </Instances>
    </Ring>
  </Rings>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Rings
Table type	Multi-instance table
Row name	Ring
Restrictions	This table supports only Domain functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Index of the Ring	Index	Unsigned integer. Value range: 1 to 255.	N/A
Port0	ERPS port0	N/A	String. Length: 0 to 47 characters.	N/A
Port1	ERPS port1	N/A	String. Length: 0 to 47 characters.	N/A
RapsRingMac	Destatition mac address	N/A	Boolean: • true. • false.	N/A
RingType	Ring type	N/A	Boolean: • true. • false.	N/A
Instances	Instance of ring	Sublist	N/A	N/A
InstanceID	Instance id	Index	Unsigned integer. Value range: 1 to 64.	N/A
ControlVlan	Vlan which erps protocol packet transmit	N/A	Unsigned integer. Value range: 2 to 4094.	N/A
ProtectedInstances	Instance protectd by erps protocol	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
NodeRole	ERPS node role	N/A	Enumeration: • **0**—owner. • **1**—neighbor. • **2**—normal. • **3**—interconnection.	N/A
NodeState	ERPS node state	N/A	Enumeration: • **0**—Undefined • **1**—init. • **2**—idle. • **3**—protection. • **4**—MS. • **5**—FS. • **6**—Pending.	N/A
Port0Role	Erps port0 role	N/A	Enumeration: • **0**—RPL. • **1**—Non-RPL.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Undefined.	
Port1Role	Erps port1 role	N/A	Enumeration: • **0**—RPL. • **1**—Non-RPL. • **2**—Undefined.	N/A
Port0State	Erps port0 state	N/A	Enumeration: • **0**—Block. • **1**—Up. • **2**—Down. • **3**—Undefined.	N/A
Port1State	Erps port1 state	N/A	Enumeration: • **0**—Block. • **1**—Up. • **2**—Down. • **3**—Undefined.	N/A
RapsLevel	Erps raps level	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Enable	Erps ring instance protocol enable statue	N/A	Boolean: • true. • false.	N/A
Connects	Erps connects	Sublist	N/A	N/A
ConnectRingID	Erps connect ring	Index	Unsigned integer. Value range: 1 to 255.	N/A
ConnectInstanceList	Erps connect instances	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
RevertiveOper	Erps revertive operation	N/A	Boolean: • true. • false.	N/A
Timer	Timer of erps	Data structure	Members include: • **Guard**. • **HoldOff**. • **Wtr**	N/A
Guard	Guard timer of erps	N/A	Unsigned integer. Value range: 10 to 2000, Step by 10	N/A
HoldOff	Hold off timer of erps	N/A	Unsigned integer. Value range: 0 to 10000, Step by 100	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Wtr	Wtr timer of erps	N/A	Unsigned integer. Value range: 1 to 12	N/A

ERPS/Rings/Instances

Erps ring instances info

XML structure

Please refer to the XML structure of ERPS/Rings.

Table description

Item	Description
Feature name	ERPS
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

ERPS/Rings/Instances/Connects

XML structure

Please refer to the XML structure of ERPS/Rings/Instances.

Table description

Item	Description
Feature name	ERPS
Table name	Connects
Table type	Multi-instance table
Row name	Connect
Restrictions	None

ERPS/Interfaces

This table provides erps interace info.

XML structure

```
<ERPS>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <Tracks>
        <Track>
          <TrackID></TrackID>
          <RingID></RingID>
          <InstanceList></InstanceList>
        </Track>
      </Tracks>
    </Interface>
  </Interfaces>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only track function.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	If name	Index	String. Length: 0 to 47 characters.	N/A
Tracks	Track info	Sublist	N/A	N/A
TrackID	Track index	Index	Unsigned integer. Value range: 1 to 1024.	N/A
RingCouples	Ring couple info	Table	N/A	N/A
RingID	Ring index	Index	Unsigned integer. Value range: 1 to 255.	N/A
InstanceList	Instance list of specifical trace	N/A	Number string. It is a comma-separated list of ring items. An item can be an individual ring ID or a ring ID range. Use a hyphen (-) to separate the start and end rings of a range.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string cannot end with a comma or hyphen, or include any whitespace characters.	

ERPS/Interfaces/Tracks

XML structure

Please refer to the XML structure of ERPS/Interfaces.

Table description

Item	Description
Feature name	ERPS
Table name	Tracks
Table type	Multi-instance table
Row name	Track
Restrictions	None

ERPS/Statistics

XML structure

```
<ERPS>
  <Statistics>
    <Statistic>
      <RingID></RingID>
      <InstanceID></InstanceID>
      <IfName></IfName>
      <InStatistic>
        <NR></NR>
        <NRRB></NRRB>
        <SF></SF>
        <MS></MS>
        <FS></FS>
      </InStatistic>
      <OutStatistic>
        <NR></NR>
        <NRRB></NRRB>
        <SF></SF>
        <MS></MS>
        <FS></FS>
      </OutStatistic>
```

```
    <Statistic>
  </Statistics>
</ERPS>
```

Table description

Item	Description
Feature name	ERPS
Table name	Instance
Table type	Single instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RingID	Index of the Ring	Index	Unsigned integer. Value range: 1 to 255.	N/A
InstanceID	Instance id	Index	Unsigned integer. Value range: 1 to 64.	N/A
ifName	If Name	Index	String. Length: 0 to 47 characters.	N/A
InStatistics	Erps ring in protocol packet statistics.	Data structure	Members include: • **NR**. • **NRRB**. • **SF.** • **MS.** • **FS.**	N/A
NR	NR packet statistics	N/A	Unsigned integer.	N/A
NRRB	NRRB packet statistics	N/A	Unsigned integer.	N/A
SF	SF packet statistics	N/A	Unsigned integer.	N/A
MS	MS packet statistics	N/A	Unsigned integer.	N/A
FS	FS packet statistics	N/A	Unsigned integer.	N/A
OutStatistics	Erps ring out protocol packet statistics.	Data structure	Members include: • **NR**. • **NRRB**. • **SF.** • **MS.** • **FS.**	N/A

Contents

Erps 1
Erps/Rings 1
Erps/Instances 1
Erps/Connects 2
Erps/Tracks 3
Erps/ SwitchState 3
Erps/ ClearInstanceState 3

Erps

Erps/Rings

Message	Explanation
Can't delete a ring before deleting all its instances. 环内存在实例，不能删除环。	Can't delete a ring before deleting all its instances. 环内存在实例，不能删除环。
Can't change the ring type before deleting all its instances. 环内存在实例，不能配置环的类型。	There are instances under the ring. The type of the ring cannot be configured. 环下有实例存在，不能配置环的类型。
An instance of the ring has been enabled with ERPS. 实例已使能ERPS协议。	The ring has enabled instance. 实例已使能。
Can't change the port of the ERPS ring. 当前不能修改环成员端口。	Can't change the port of the ERPS ring. 非法修改环成员端口配置。
The port is already an ERPS port. 端口已经是ERPS环成员端口。	The port is already an ERPS port. 当前端口已经是ERPS环成员端口。
ERPS ports must be trunk ports. ERPS环成员端口必须为Trunk类型。	ERPS ports must be trunk ports. 配置ERPS端口必须为trunk类型。
Can't configure the port as an ERPS port because RRPP, Smart Link, STP or LPDT is configured on the port. 配置ERPS环端口失败，因为该端口上可能有RRPP、Smart Link、STP或者LPDT的配置。	Can't configure the port as an ERPS port because RRPP, SMLK, STP or LPDT is configured on the port. 配置ERPS端口，端口上不能有RRPP，SMLK，STP或者LPDT的配置。
Port0 and Port1 can't be the same port. 环端口0和环端口1不能为同一个端口。	Port0 and port1 can't be the same port. port0和port1不能为同一个端口。

Erps/Instances

Message	Explanation
Can't change the control VLAN because the instance has been enabled with ERPS. 实例已使能ERPS协议，不能修改控制VLAN。	Can't change the control VLAN after the instance is enabled. 实例已使能，不能修改控制VLAN。
Can't specify a reserved VLAN as the ERPS control VLAN. 不能将预留VLAN配置成控制VLAN。	Can't specify an existing reserved VLAN as the ERPS control VLAN. 待创建VLAN已经存在。
The MSTI ID has been used by another ERPS instance. MSTI编号已被其他实例占用。	The VLANs mapped to the instance is being protected by another ERPS instance. 保护VLAN被其他实例占用。

Can't modify the ERPS node role after the instance is enabled with ERPS. 实例处于使能状态，不能修改节点角色。	Can't modify the ERPS node role after the instance is enabled. 实例已经使能，不能修改实例节点角色。
The current ring is not a subring. 该环不是子环。	The current ring is not a subring. 该环不是子环。
Please first configure a control VLAN for the instance is enabled with ERPS. 实例使能ERPS协议前，先配置控制VLAN。	Please configure a control VLAN for the ERPS instance first. 在配置实例使能时，先配置控制VLAN。
Please specify an MSTI ID before the instance is enabled with ERPS. 实例使能ERPS协议前，先配置MSTI编号。	Please configure a protected VLAN for the ERPS instance first. 在配置实例使能时，先配置保护VLAN。
Failed to add the ERPS port to the VLAN. 将ERPS成员端口加入VLAN失败。	Add vlan failed on the ERPS port. 端口加VLAN失败。
Can't delete MSTI IDs because the instance is enabled with ERPS. 当前实例已经使能，不能删除所有MSTI编号。	Can't delete all protected VLANs because the ERPS instance is enabled. 该ERPS实例已经使能，不能删除所有保护实例。
An RPL port or interconnection port must be specified for a node other than the normal node. 非普通节点角色必须配置RPL端口或互联节点端口。	Normal node don't have rpl attribute, besides, Noderole and rpl ports need to be configured simultaneously. normal节点没有RPL属性，除此之外，节点角色和RPL属性需同时配置。
The RPL attribute cannot be specified for the normal node. 普通节点角色不能配置RPL端口。	normal node cannot configure rpl attribute. 配置节点角色为normal时，不能带RPL属性。
Can't delete the instance because it is active with ERPS. 当前实例已激活，不能删除。	Can't delete the instance because the instance is active. 当前实例已激活，不能删除。
Failed to configure the control VLAN. 配置控制VLAN时失败。	Failed to configure the ERPS control VLAN. 配置控制VLAN时出错。

Erps/Connects

Message	Explanation
The current instance is not an interconnection node when a ring is associated with a subring. 配置环关联时，实例的节点不是互联节点。	The current instance is not an interconnection node. 配置关联实例时，当前实例不是互联节点。
Can't associate the instance itself. 配置环关联时，环ID和实例ID不能都相同。	Can't connect self instance. 配置关联实例中有环ID和实例ID与自身相同。
Maximum number of associated instances already reached. 关联实例数目超过设备支持的最大值。	The connect instance number is out of range. 关联实例数目最多为256个。

Erps/Tracks

Message	Explanation
InstanceList cannot be empty. InstanceList属性不能为空。	InstanceList can not empty. InstanceList属性不能为空。

Erps/ SwitchState

Message	Explanation
A member port must be specified when the switching mode is configured. 配置倒换模式时，必须指定环成员端口。	The inversion mode and port need to be configured simultaneously. 倒换模式和端口须同时配置。
Failed to configure the manual switching mode for the port because it has been configured for the other port. 手动倒换模式配置失败，节点的另一个端口已有手动倒换模式的配置。	The manual switch request is ignored, because of there is an existing manual switch request on the other port. 在已有MS端口节点的另一个端口配置MS。
Failed to configure the forced switching mode for the port because it has been configured for the other port. 强制倒换模式配置失败，节点的另一个端口已有强制倒换模式的配置。	The forced switch request is ignored, because of there is an existing forced switch request on the other port. 在已有FS端口节点的另一个端口配置FS。

Erps/ ClearInstanceState

Message	Explanation
Failed to remove the MS mode and FS mode settings because no MS mode and FS mode settings exist on the non-owner node. 清除倒换模式失败，在非主节点无FS/MS模式的配置。	The local end is not in forced switch mode or manual switch mode, and is not an owner node. 非owner节点，且无FS/MS端口，清除FS/MS状态未生效。

Contents

ESMC 1
ESMC/Interfaces 1
XML structure 1
Table description 1
Columns 1

ESMC

ESMC/Interfaces

This table contains ESMC interfaces information.

XML structure

```
<ESMC>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <EsmcEnable></EsmcEnable>
      <SynceState></SynceState>
      <SynchronousMode></SynchronousMode>
    </Interface>
  </Interfaces>
</ESMC>
```

Table description

Item	Description
Feature name	ESMC
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	Example: GigabitEthernet2/0/2
EsmcEnable	Whether ESMC is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SynceState	Clock mode	N/A	Enumeration: • **0**—Invalid(default). • **1**—Master clock mode. • **2**—Slave clock mode.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Synchronous Mode	Whether synchronous mode is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

ESMC 1
ESMC/Interfaces 1
XML structure 1
Table description 1
Columns 2

ESMC

ESMC/Interfaces

This table contains ESMC interfaces information.

XML structure

```
<ESMC>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <EsmcEnable></EsmcEnable>
      <SynceState></SynceState>
      <SynchronousMode></SynchronousMode>
      <PortStatus></PortStatus>
      <DuplexMode></DuplexMode>
      <ReceiveQL></ReceiveQL>
      <SendQL></SendQL>
      <InfoPktSent></InfoPktSent>
      <InfoPktRecv></InfoPktRecv>
      <InfoPktRate></InfoPktRate>
      <EventPktSent></EventPktSent>
      <EventPktRecv></EventPktRecv>
      <Expiration></Expiration>
    </Interface>
  </Interfaces>
</ESMC>
```

Table description

Item	Description
Feature name	ESMC
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	Example: GigabitEthernet2/0/2
EsmcEnable	Whether ESMC is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SynceState	Clock mode	N/A	Enumeration: • **0**—Invalid. • **1**—Master clock mode. • **2**—Slave clock mode.	N/A
Synchronous Mode	Whether synchronous mode is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PortStatus	Port status	N/A	Enumeration: • **1**—Up. • **2**—Down.	N/A
DuplexMode	Duplex mode	N/A	Enumeration: • **1**—Full duplex mode. • **2**—Half duplex mode	N/A
ReceiveQL	Received QL	N/A	Enumeration: • **1**—PRC. • **2**—SSU-A. • **3**—SSU-B. • **4**—SEC. • **5**—DNU. • **6**—UNK.	From the highest to the lowest: • PRC. • SSU-A. • SSU-B. • SEC. • DNU. • UNK.
SendQL	Sent QL	N/A	Enumeration: • **1**—PRC. • **2**—SSU-A. • **3**—SSU-B. • **4**—SEC. • **5**—DNU. • **6**—UNK.	From the highest to the lowest: • PRC. • SSU-A. • SSU-B. • SEC. • DNU. • UNK.
InfoPktSent	Number of sent ESMC packets	N/A	Unsigned integer.	N/A
InfoPktRecv	Number of received ESMC packets	N/A	Unsigned integer.	N/A
InfoPktRate	ESMC packet sending rate	N/A	Unsigned integer. Fixed: 1 packets/sec	N/A
EventPktSent	Number of sent ESMC event packets	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EventPktRecv	Number of received ESMC event packets	N/A	Unsigned integer.	N/A
Expiration	ESMC expiration timer.	N/A	Unsigned integer. Fixed: 5 seconds	N/A

Contents

ESMC 1
ESMC/Interfaces 1

ESMC

ESMC/Interfaces

Message	Explanation
"The interface is not in synchronous mode." "接口未配置同步模式。"	必须先配置以太网接口的工作模式为同步模式后，才能开启 ESMC 功能。
"The interface does not support synchronous mode." "当前接口不支持同步模式。"	当前接口不支持同步模式
"This operation is supported only on GE copper interfaces." "此操作仅在GE电口上支持。"	synce state 命令仅支持在 GE 电口上配置
"The interface does not support ESMC." "当前接口不支持ESMC功能。"	当前接口不支持 ESMC 功能

Contents

ETH 1
ETH/SubInterfaces 1
XML structure 1
Table description 1
Columns 1
ETH/VlanQinQTermination 2
XML structure 2
Table description 3
Columns 3
ETH/UnderlayForwardBypass 4
XML structure 4
Table description 4
Columns 5
ETH/EthIfMacAddress 5
XML structure 5
Table description 6
Columns 6
ETH/VlanTerminations 6
XML structure 6
Table description 7
Columns 7
ETH/VlanTerminationIfConfig 8
XML structure 8
Table description 9
Columns 9
ETH/MapL2VE 9
XML structure 10
Table description 10
Columns 10

ETH

ETH/SubInterfaces

This table contains VLAN termination information.

XML structure

```
<ETH>
  <SubInterfaces>
    <SubInterface>
      <IfIndex></IfIndex>
      <EncapType></EncapType>
      <VlanID></VlanID>
      <FirstVlanList></FirstVlanList>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </SubInterface>
  </SubInterfaces>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	SubInterfaces
Table type	Multi-instance table
Row name	SubInterface
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
EncapType	VLAN termination type	N/A	Enumeration: • **0**—None. • **1**—Dot1q unambiguous. • **2**—Dot1q ambiguous. • **5**—Untagged. • **6**—Default.	N/A
VlanID	Outermost VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094	Outermost VLAN tag for unambiguous VLAN termination. Used when the “EncapType” column is 1.
FirstVlanList	Outermost VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of *vlan-id1* to *vlan-id2*. The value range for VLAN IDs is 1 to 4094. The value for the *vlan-id2* argument must be equal to or greater than the value for the *vlan-id1* argument. Used when the “EncapType” column is 2.
EncapFlag	Configures the subinterface to terminate packets that include one or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• **0**—STRICT • **1**—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan. • **false**—vlan-type.	Some version might not support this column.

ETH/VlanQinQTermination

This table contains QinQ VLAN termination information.

XML structure

```
<ETH>
  <VlanQinQTermination>
```

```
    <QinqTermination>
      <IfIndex></IfIndex>
      <VlanID></VlanID>
      <SecondVlan></SecondVlan>
      <QinqAny></QinqAny>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </QinqTermination>
  </VlanQinQTermination>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanQinQTermination
Table type	Multi-instance table
Row name	QinqTermination
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VlanID	Layer 1 VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
SecondVlan	Layer 2 VLAN ID or VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of *vlan-id1* to *vlan-id2*. The value range for VLAN IDs is 1 to 4094. The value for the *vlan-id2* argument must be equal to or greater than the value for the *vlan-id1*

Column name	Column description	Column type	Data type and restrictions	Remarks
				argument. Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	N/A	Unsigned integer. Value range: 1	Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• **0**—STRICT • **1**—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan. • **false**—vlan-type.	Some versions might not support this column.

ETH/UnderlayForwardBypass

This table contains underlay forward bypass information.

XML structure

```
<ETH>
  <UnderlayForwardBypass>
    <Bypass>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Bypass>
  </UnderlayForwardBypass>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	UnderlayForwardBypass
Table type	Multi-instance table

Item	Description
Row name	Bypass
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Specifies the action of whether or not to bypass the VXLAN packets from ETH.	N/A	Boolean: • **true**—Enable the function. • **false**—Disable the function.	N/A

ETH/EthIfMacAddress

This table contains Ethernet interface MAC address information.

XML structure

```
<ETH>
  <EthIfMacAddress>
    <IfMacAddress>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
    </IfMacAddress>
  </EthIfMacAddress>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	EthIfMacAddress
Table type	Multi-instance table
Row name	IfMacAddress
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

ETH/VlanTerminations

This table contains VLAN termination information.

XML structure

```
<ETH>
  <VlanTerminations>
    <VlanTermination>
      <IfIndex></IfIndex>
      <FirstVlanBgn></FirstVlanBgn>
      <FirstVlanEnd></FirstVlanEnd>
      <SecondVlan></SecondVlan>
      <QinqAny></QinqAny>
      <EncapType></EncapType>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </VlanTermination>
  </VlanTerminations>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanTerminations
Table type	Multi-instance table
Row name	VlanTermination
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
FirstVlanBgn	Start outermost VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
FirstVlanEnd	End outermost VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	The value for the FirstVlanEnd must be equal to or greater than the value for the FirstVlanBgn.
SecondVlan	Layer 2 VLAN ID or VLAN ID list	Index	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of *vlan-id1* to *vlan-id2*. The value range for VLAN IDs is 1 to 4094. The value for the *vlan-id2* argument must be equal to or greater than the value for

Column name	Column description	Column type	Data type and restrictions	Remarks
				the *vlan-id1* argument. Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	Index	Unsigned integer. Value range: 1	Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
EncapType	VLAN termination type	N/A	Enumeration: • **0**—None. • **1**—Dot1q unambiguous. • **2**—Dot1q ambiguous. • **3**—Qinq unambiguous. • **4**—Qinq ambiguous. • **5**—Untagged. • **6—**Default.	N/A
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1 Default: 0	• 0—STRICT • 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan**.** • **false**—vlan-type (default).	Some versions might not support this column.

ETH/VlanTerminationIfConfig

This table contains VLAN termination configuration information of interfaces.

XML structure

```
<ETH>
  <VlanTerminationIfConfig>
    <IfConfig>
      <IfIndex></IfIndex>
      <BroadcastEnable></BroadcastEnable>
      <BroadcastRaEnable></BroadcastRaEnable>
    </IfConfig>
  </VlanTerminationIfConfig>
```

```
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanTerminationIfConfig
Table type	Multi-instance table
Row name	IfConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in *Ifmgr NETCONF XML API Configuration Reference*.
BroadcastEnable	Enabling status of an interface to transmit broadcasts and multicasts.	N/A	Boolean: • **true**—Enable**.** • **false**—Disable(default)**.**	Use this configuration when ambiguous Dot1q or QinQ termination is enabled on an interface.
BroadcastRaEnable	Enabling status of an interface to transmit multicast router advertisements.	N/A	Boolean: • **true**—Enable**.** • **false**—Disable(default)**.**	Use this configuration when ambiguous Dot1q or QinQ termination is enabled on an interface.

ETH/MapL2VE

This table contains mappings between Layer 3 Ethernet interfaces and virtual Ethernet bridge (VEB) interfaces.

XML structure

```
<ETH>
  <EthMapL2VE>
    <MapL2VE>
      <IfName></IfName>
      <MapVEName></MapVEName>
    </MapL2VE>
  </EthMapL2VE>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	EthMapL2VE
Table type	Multi-instance table
Row name	MapL2VE
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Layer 3 Ethernet interface name	Index	String, case-sensitive. Length: 1 to 47 characters.	Only Layer 3 physical Ethernet interfaces are supported.
MapVEName	Name of the VEB interface mapped to the Layer 3 Ethernet interface	N/A	String, case-sensitive. Length: 1 to 47 characters.	Supports interface name.

Contents

ETH 1

ETH/SubInterfaces 1
XML structure 1
Table description 1
Columns 1
ETH/ETHSpecification 2
XML structure 2
Table description 3
Columns 3
ETH/VlanQinQTermination 3
XML structure 3
Table description 4
Columns 4
ETH/UnderlayForwardBypass 5
XML structure 5
Table description 5
Columns 6
ETH/EthIfMacAddress 6
XML structure 6
Table description 7
Columns 7
ETH/VlanTerminations 7
XML structure 7
Table description 8
Columns 8
ETH/VlanTerminationIfConfig 9
XML structure 9
Table description 10
Columns 10
ETH/MapL2VE 11
XML structure 11
Table description 11
Columns 11

ETH

ETH/SubInterfaces

This table contains VLAN termination information.

XML structure

```
<ETH>
  <SubInterfaces>
    <SubInterface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <EncapType></EncapType>
      <VlanID></VlanID>
      <FirstVlanList></FirstVlanList>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </SubInterface>
  </SubInterfaces>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	SubInterfaces
Table type	Multi-instance table
Row name	SubInterface
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			GigabitEthernet2/0/2.1	
EncapType	VLAN termination type	N/A	Enumeration: • **0**—None. • **1**—Dot1q unambiguous. • **2**—Dot1q ambiguous. • **3**—Qinq unambiguous. • **4**—Qinq ambiguous. • **5**—Untagged. • **6**—Default.	N/A
VlanID	Outermost VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094	Outermost VLAN tag for unambiguous VLAN termination.
FirstVlanList	Outermost VLAN ID list	N/A	String.	A range of outermost VLAN IDs.
EncapFlag	Configures the subinterface to terminate packets that include one or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• **0**—STRICT • **1**—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan. • **false**—vlan-type.	Some versions might not support this column.

ETH/ETHSpecification

This table contains VLAN termination support information.

XML structure

```
<ETH>
  <ETHSpecification>
      <SupportDot1q></SupportDot1q>
      <SupportQinq></SupportQinq>
      <SupportUntagged></SupportUntagged>
      <SupportDefault></SupportDefault>
      <SupportLoose></SupportLoose>
  </ETHSpecification>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	ETHSpecification
Table type	Multi-instance table
Row name	N/A
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
SupportDot1q	Whether Dot1q termination is supported	N/A	Boolean: • true • false
SupportQinq	Whether Qinq termination is supported	N/A	Boolean: • true • false
SupportUntagged	Whether Untagged termination is supported	N/A	Boolean: • true • false
SupportDefault	Whether Default termination is supported	N/A	Boolean: • true • false
SupportLoose	Whether the subinterface supports terminating packets that include one or more layers of VLAN tags.	N/A	Boolean: • true • false

ETH/VlanQinQTermination

This table contains QinQ VLAN termination information.

XML structure

```
<ETH>
  <VlanQinQTermination>
    <QinqTermination>
      <IfIndex></IfIndex>
      <VlanID></VlanID>
      <IfName></IfName>
      <SecondVlan></SecondVlan>
      <QinqAny></QinqAny>
      <EncapFlag></EncapFlag>
```

```
      <IsUserVlanMode></IsUserVlanMode>
    </QinqTermination>
  </VlanQinQTermination>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanQinQTermination
Table type	Multi-instance table
Row name	QinqTermination
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VlanID	Layer 1 VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.1	N/A
SecondVlan	Layer 2 VLAN ID or VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of *vlan-id1* to *vlan-id2*. The value range for VLAN IDs is 1 to 4094. The value for the *vlan-id2* argument must be equal to or greater than the value for the *vlan-id1* argument. Note: The “SecondVlan”

Column name	Column description	Column type	Data type and restrictions	Remarks
				column and the “QinqAny” column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	N/A	Unsigned integer. Value range: 1	Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• **0**—STRICT • **1**—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan. • **false**—vlan-type.	Some versions might not support this column.

ETH/UnderlayForwardBypass

This table contains underlay forward bypass information.

XML structure

```
<ETH>
  <UnderlayForwardBypass>
    <Bypass>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
    </Bypass>
  </UnderlayForwardBypass>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	UnderlayForwardBypass
Table type	Multi-instance table
Row name	Bypass

Item	Description
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/1	N/A
Enable	Specifies the action of whether or not to bypass the VXLAN packets from ETH.	N/A	Boolean: • **true**—Enable the function. • **false**—Disable the function.	N/A

ETH/EthIfMacAddress

This table contains Ethernet interface MAC address information.

XML structure

```
<ETH>
  <EthIfMacAddress>
    <IfMacAddress>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
    </IfMacAddress>
  </EthIfMacAddress>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	EthIfMacAddress
Table type	Multi-instance table
Row name	IfMacAddress
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

ETH/VlanTerminations

This table contains VLAN termination information.

XML structure

```
<ETH>
  <VlanTerminations>
    <VlanTermination>
      <IfIndex></IfIndex>
      <FirstVlanBgn></FirstVlanBgn>
      <FirstVlanEnd></FirstVlanEnd>
      <SecondVlan></SecondVlan>
      <QinqAny></QinqAny>
      <IfName></IfName>
      <EncapType></EncapType>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </VlanTermination>
  </VlanTerminations>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanTerminations
Table type	Multi-instance table
Row name	VlanTermination
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
FirstVlanBgn	Start outermost VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
FirstVlanEnd	End outermost VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	The value for the FirstVlanEnd must be equal to or greater than the value for the FirstVlanBgn.
SecondVlan	Layer 2 VLAN ID or VLAN ID list	Index	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of *vlan-id1* to *vlan-id2*. The value range for VLAN IDs is 1 to 4094. The value for the *vlan-id2* argument must be equal to or greater than the value for the *vlan-id1* argument.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	Index	Unsigned integer. Value range: 1	Note: The “SecondVlan” column and the “QinqAny” column cannot be configured at the same time.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.1	N/A
EncapType	VLAN termination type	N/A	Enumeration: • **0**—None. • **1**—Dot1q unambiguous. • **2**—Dot1q ambiguous. • **3**—Qinq unambiguous. • **4**—Qinq ambiguous. • **5**—Untagged. • **6—**Default.	N/A
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• 0—STRICT • 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • **true**—user-vlan**.** • **false**—vlan-type.	Some versions might not support this column.

ETH/VlanTerminationIfConfig

This table contains VLAN termination configuration information of interfaces.

XML structure

```
<ETH>
  <VlanTerminationIfConfig>
    <IfConfig>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <BroadcastEnable></BroadcastEnable>
```

```
      <BroadcastRaEnable></BroadcastRaEnable>
    </IfConfig>
  </VlanTerminationIfConfig>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	VlanTerminationIfConfig
Table type	Multi-instance table
Row name	IfConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.1	N/A
BroadcastEnable	Enabling status of an interface to transmit broadcasts and multicasts.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Use this configuration when ambiguous Dot1q or QinQ termination is enabled on an interface.
BroadcastRaEnable	Enabling status of an interface to transmit multicast router advertisements.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Use this configuration when ambiguous Dot1q or QinQ termination is enabled on an interface.

ETH/MapL2VE

This table contains mappings between Layer 3 Ethernet interfaces and virtual Ethernet bridge (VEB) interfaces.

XML structure

```
<ETH>
  <EthMapL2VE>
    <MapL2VE>
      <IfName></IfName>
      <MapVEName></MapVEName>
    </MapL2VE>
  </EthMapL2VE>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	EthMapL2VE
Table type	Multi-instance table
Row name	MapL2VE
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Layer 3 Ethernet interface name	Index	String, case-sensitive. Length: 1 to 47 characters.	Only Layer 3 physical Ethernet interfaces are supported.
MapVEName	Name of the VEB interface mapped to the Layer 3 Ethernet interface	N/A	String, case-sensitive. Length: 1 to 47 characters.	Supports interface name.

Contents

ETH/EthIfMacAddress 2
ETH/SubInterfaces 2
ETH/VlanQinQTermination 3
ETH/VlanTerminations 3
ETH/VlanTerminationIfConfig 4
ETH/MapL2VE 4

ETH/EthIfMacAddress

Message	Explanation
The MAC address is invalid. MAC地址非法。	The MAC address is invalid. MAC 地址非法。
The MAC address is reserved. 该MAC地址为保留MAC地址。	The MAC address is reserved. 该MAC地址为保留MAC地址。
The configuration is not supported on the interface. 此接口不支持该配置。	The configuration is not supported on the interface. 此接口不支持该配置。
The configuration is not supported on the interface because it is a shared port. 此接口为共享端口，不支持该配置。	The configuration is not supported on the interface because it is a shared port. 此接口为共享端口，不支持该配置。
The configuration is not supported on the interface because its host interface is a shared port. 此接口的主机端口为共享端口，不支持该配置。	The configuration is not supported on the interface because its host interface is a shared port. 此接口的主机端口为共享端口，不支持该配置。
Invalid MAC address: This address must have the same higher 36 bits as the base MAC address. MAC地址非法：MAC地址高36位取值必须和MAC基地址相同。	Invalid MAC address: This address must have the same higher 36 bits as the base MAC address. MAC地址非法：MAC地址高36位取值必须和MAC基地址相同。
Invalid MAC address: This address must be higher than or equal to the base MAC address plus 90 (decimal). MAC地址非法：MAC地址必须大于等于MAC基地址的值加上90。	Invalid MAC address: This address must be higher than or equal to the base MAC address plus 90 (decimal). MAC地址非法：MAC地址必须大于等于MAC基地址的值加上90。
The MAC address conflicts with existing configuration. Please specify another MAC address. MAC地址与当前配置冲突，请指定其他MAC地址。	The MAC address conflicts with existing configuration. Please specify another MAC address. MAC地址与当前配置冲突，请指定其他MAC地址。

ETH/SubInterfaces

Message	Explanation
The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。	The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。
Configuration conflict. 配置冲突。	Configuration conflict. 配置冲突。
The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。	The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。
Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLAN ID只能在一个接口下配置。	Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLAN ID只能在一个接口下配置。

Wrong parameter. 参数错误。	Wrong parameter. 参数错误。
The configuration is not supported on a main interface. 主接口下不支持该配置。	The configuration is not supported on a main interface. 主接口下不支持该配置。
The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。	The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。
Configuration error. 配置错误。	Configuration error. 配置错误。

ETH/VlanQinQTermination

Message	Explanation
QINQ vlan termination is not supported. 不支持配置QINQ终结。	QinQ VLAN termination is not supported. 不支持配置 QinQ 终结。
The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。	The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。
Configuration conflict. 配置冲突。	Configuration conflict. 配置冲突。
The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。	The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。
Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLANID只能在一个接口下配置。	Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLAN ID只能在一个接口下配置。
Wrong parameter. 参数错误。	Wrong parameter. 参数错误。
The configuration is not supported on a maininterface. 主接口下不支持该配置。	The configuration is not supported on a main interface. 主接口下不支持该配置。
The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。	The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。
Configuration error. 配置错误。	Configuration error. 配置错误。

ETH/VlanTerminations

Message	Explanation
QINQ vlan termination is not supported. 不支持配置QINQ终结。	QinQ VLAN termination is not supported. 不支持配置 QinQ 终结。

The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。	The VLAN ID has been configured on another subinterface of the same main interface. VLAN ID已经配置由主接口的其他子接口终结。
Configuration conflict. 配置冲突。	Configuration conflict. 配置冲突。
The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。	The configuration is not supported on link aggregation member ports. 链路聚合成员口不支持该配置。
Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLANID只能在一个接口下配置。	Configuring the same outer VLAN ID on different subinterfaces is not supported. 同一个外层VLAN ID只能在一个接口下配置。
Wrong parameter. 参数错误。	Wrong parameter. 参数错误。
The configuration is not supported on a maininterface. 主接口下不支持该配置。	The configuration is not supported on a main interface. 主接口下不支持该配置。
The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。	The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。
Configuration error. 配置错误。	Configuration error. 配置错误。

ETH/VlanTerminationIfConfig

Message	Explanation
The configuration is not supported on a maininterface. 主接口下不支持该配置。	The configuration is not supported on a main interface. 主接口下不支持该配置。
The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。	The configuration is not supported on an allocated child interface. 寄生口下不支持该配置。

ETH/MapL2VE

Message	Explanation
The VEB interface has been used by another module or Layer 3 Ethernet interface. 二层虚拟以太网接口已经与其他模块或者三层以太口映射。	The VEB interface has been used by another module or Layer 3 Ethernet interface. 当前命令中指定的二层虚拟以太网接口已经与其他模块或者三层以太口映射。
The VEB interface and the Layer 3 Ethernet interface must be in the same slot. 二层虚拟以太网接口必须和三层以太口位于相同的板。	The VEB interface and the Layer 3 Ethernet interface must be in the same slot. 二层虚拟以太网接口必须和三层以太口位于相同的板。

Contents

EVPN 1
evpn/evpn-instances 1
XML structure 1
Table description 1
Columns 1
evpn/evpn-instances/bgp-parameters 1
XML structure 2
Table description 2
Columns 2
evpn/evpn-instances/bgp-parameters/common 2
XML structure 2
Table description 3
Columns 3

EVPN

evpn/evpn-instances

This table contains EVPN instance configuration.

XML structure

```
<evpn>
  <evpn-instances>
    <evpn-instance>
      <name></name>
      <!-- bgp-parameters 信息表 -->
    </evpn-instance>
  </evpn-instances>
</evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	evpn-instances
Table type	Multi-instance table
Row name	evpn-instance
Restrictions	You must enable L2VPN globally at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	EVPN instance name	Index	String. Length: 1 to 31 characters.	N/A
Bgp-parameters	BGP parameters	list-table	N/A	N/A

evpn/evpn-instances/bgp-parameters

This table contains BGP parameters of an EVPN instance.

XML structure

```
<evpn>
  <evpn-instances>
    <evpn-instance>
      <bgp-parameters>
        <!-- common 信息表 -->
      </bgp-parameters>
    </evpn-instance>
  </evpn-instances>
</evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	bgp-parameters
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
common	Common BGP parameters	list-table	N/A	N/A

evpn/evpn-instances/bgp-parameters/common

This table contains common BGP parameters of an EVPN instance.

XML structure

```
<evpn>
  <evpn-instances>
    <evpn-instance>
     <bgp-parameters>
        <common>
          <rd-rt>
            <route-distinguisher></route-distinguisher>
            <vpn-target>
              <route-target></route-target>
              <route-target-type></route-target-type>
            </vpn-target>
          </rd-rt>
```

```
            </common>
          </bgp-parameters>
        </evpn-instance>
      </evpn-instances>
    </evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	common
Table type	Single-instance table
Row name	rd-rt
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
route-distinguisher	Route distinguisher	index	String. Length: 5 to 23 characters. The format is ASN:nn or IP_address:nn	Deleting the RD will also delete RT below it
			•	
vpn- target	VPN route targets	List	Members include: • route-target. • route-target-type	N/A
route-target	Route target	Index	String. Length: 5 to 23 characters. The format is ASN:nn or IP_address:nn	N/A
route-target-type	Route target type	N/A	Enumeration: • **0**—Import • **1**—Export • **2**—Both	N/A

Contents

EVPN 1
evpn/evpn-instances 1
XML structure 1
Table description 1
Columns 1
evpn/evpn-instances/bgp-parameters 1
XML structure 1
Table description 2
Columns 2
evpn/evpn-instances/bgp-parameters/common 2
XML structure 2
Table description 3
Columns 3

EVPN

evpn/evpn-instances

This table contains EVPN instance configuration.

XML structure

```
<evpn>
  <evpn-instances>
    <evpn-instance>
      <name></name>
      <!-- bgp-parameters 信息表 -->
    </evpn-instance>
  </evpn-instances>
</evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	evpn-instances
Table type	Multi-instance table
Row name	evpn-instance
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	EVPN instance name	Index	String. Length: 1 to 31 characters.	N/A
Bgp-parameters	BGP parameters	List-table	N/A	N/A

evpn/evpn-instances/bgp-parameters

This table contains BGP parameters of an EVPN instance.

XML structure

```
<evpn>
```

```
  <evpn-instances>
    <evpn-instance>
      <bgp-parameters>
        <!-- common 信息表  -->
      </bgp-parameters>
    </evpn-instance>
  </evpn-instances>
</evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	bgp-parameters
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
common	Common BGP parameters	list-table	N/A	N/A

evpn/evpn-instances/bgp-parameters/common

This table contains common BGP parameters of an EVPN instance.

XML structure

```
<evpn>
  <evpn-instances>
    <evpn-instance>
      <bgp-parameters>
        <common>
          <rd-rt>
            <route-distinguisher></route-distinguisher>
            <vpn-target>
              <route-target></route-target>
              <route-target-type></route-target-type>
            </vpn-target>
          </rd-rt>
        </common>
      </bgp-parameters>
    </evpn-instance>
  </evpn-instances>
```

```
</evpn>
```

Table description

Item	Description
Feature name	EVPN
Table name	common
Table type	Single-instance table
Row name	rd-rt
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
route-distinguisher	Route distinguisher	index	String. Length: 5 to 23 characters. The format is ASN:nn or IP_address:nn	Deleting the RD will also delete RT below it
			•	
vpn-target	VPN route targets	List	Members include: • **route-target**. • **route-target-type**.	N/A
route-target	Route target	Index	String. Length: 5 to 23 characters. The format is ASN:nn or IP_address:nn	N/A
route-target-type	Route target type	N/A	Enumeration: • **0**—Import. • **1**—Export. • **2**—Both	N/A

Contents

EVPN 1
EVPN/ClearMACMobility 1
XML structure 1
Table description 1
Columns 1
EVPN/ClearMACMobilityByEvpn 2
XML structure 2
Table description 2
Columns 2
EVPN/ClearMACMobilityByIf 2
XML structure 3
Table description 3
Columns 3
EVPN/ClearAllMACMobility 4
XML structure 4
Table description 4
Columns 4
EVPN/ClearARPMobility 4
XML structure 4
Table description 5
Columns 5
EVPN/ClearAllARPMobility 5
XML structure 5
Table description 5
Columns 6
EVPN/ClearAllSRv6PeerStatistics 6
XML structure 6
Table description 6
Columns 6
EVPN/ClearSRv6VPLSPeerStatistics 6
XML structure 6
Table description 7
Columns 7
EVPN/ClearSRv6VPWSPeerStatistics 7
XML structure 7
Table description 8
Columns 8
EVPN/ClearNDMobility 8
XML structure 8
Table description 9
Columns 9
EVPN/ClearAllNDMobility 9
XML structure 9
Table description 9
Columns 10

EVPN

EVPN/ClearMACMobility

This table is used to clear the specified MAC mobility statistics.

XML structure

```
<EVPN>
  <ClearMACMobility>
    <MACMobility>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <Clear></Clear>
    </MACMobility>
  </ClearMACMobility>
</EVPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearMACMobility
Table type	Multi-instance table
Row name	MACMobility
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Some versions support only unicast addresses or the all-zero MAC address.
Clear	Clear MAC mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearMACMobilityByEvpn

This table is used to clear the specified MAC mobility statistics according to an EVPN instance..

XML structure

```
<EVPN>
  <ClearMACMobilityByEvpn>
    <ClearByEvpn>
      <EvpnName></EvpnName>
      <MacAddr></MacAddr>
      <Clear></Clear>
    </ClearByEvpn>
  </ClearMACMobilityByEvpn>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearMACMobilityByEvpn
Table type	Multi-instance table
Row name	ClearByEvpn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnName	EVPN instance name	index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Some versions support only unicast addresses or the all-zero MAC address.
Clear	Clear MAC mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearMACMobilityByIf

This table is used to clear the specified MAC mobility statistics according to the type and name of an interface.

XML structure

```
<EVPN>
  <ClearMACMobilityByIf>
    <ClearByIf>
      <IfIndex></IfIndex>
      <MacAddr></MacAddr>
      <Clear></Clear>
    </ClearByIf>
  </ClearMACMobilityByIf>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearMACMobilityByIf
Table type	Multi-instance table
Row name	ClearByIf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MacAddr	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Some versions support only unicast addresses or the all-zero MAC address.
Clear	Clear MAC mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearAllMACMobility

This table is used to clear all MAC mobility statistics.

XML structure

```
<EVPN>
  <ClearAllMACMobility>
    <Clear></Clear>
  </ClearAllMACMobility>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearAllMACMobility
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all MAC mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearARPMobility

This table is used to clear the specified ARP mobility statistics.

XML structure

```
<EVPN>
  <ClearARPMobility>
    <ARPMobility>
      <VrfName></VrfName>
      <IpAddress></IpAddress>
      <Clear></Clear>
    </ARPMobility>
  </ClearARPMobility>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearARPMobility
Table type	Single-instance table
Row name	ARPMobility
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	The value of _public_ indicates the public instance.
IpAddress	Remote IP address	N/A	String, dotted decimal notation.	N/A
Clear	Clear ARP mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearAllARPMobility

This table is used to clear all ARP mobility statistics.

XML structure

```
<EVPN>
  <ClearAllARPMobility>
    <Clear></Clear>
  </ClearAllARPMobility>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearAllARPMobility
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all ARP mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearAllSRv6PeerStatistics

This table is used to clear all EVPN over SRv6 peer statistics.

XML structure

```
<EVPN>
  <ClearAllSRv6PeerStatistics>
    <Clear></Clear>
  </ClearAllSRv6PeerStatistics>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearAllSRv6PeerStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all EVPN over SRv6 peer statistics	N/A	N/A	This column must be empty.

EVPN/ClearSRv6VPLSPeerStatistics

This table is used to clear EVPN VPLS over SRv6 peer statistics on VSIs.

XML structure

```
<EVPN>
  <ClearSRv6VPLSPeerStatistics>
    <ClearSRv6VPLSPeerStatistic>
```

```
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <Clear></Clear>
    </ClearSRv6VPLSPeerStatistic>
  </ClearSRv6VPLSPeerStatistics>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearSRv6VPLSPeerStatistics
Table type	Multi-instance table
Row name	ClearSRv6VPLSPeerStatistic
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	Peer address	N/A	String, dotted decimal notation.	N/A
Clear	Clear EVPN VPLS over SRv6 peer statistics	N/A	N/A	This column must be empty.

EVPN/ClearSRv6VPWSPeerStatistics

This table is used to clear EVPN VPWS over SRv6 peer statistics for cross-connects.

XML structure

```
<EVPN>
  <ClearSRv6VPWSPeerStatistics>
    <ClearSRv6VPWSPeerStatistic>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <Clear></Clear>
    </ClearSRv6VPWSPeerStatistic>
  </ClearSRv6VPWSPeerStatistics>
```

```
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearSRv6VPWSPeerStatistics
Table type	Multi-instance table
Row name	ClearSRv6VPWSPeerStatistic
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	Cross-connect group name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
PeerAddr	Peer address	N/A	String, dotted decimal notation.	N/A
Clear	Clear EVPN VPWS over SRv6 peer statistics	N/A	N/A	This column must be empty.

EVPN/ClearNDMobility

This table is used to clear the specified ND mobility statistics.

XML structure

```
<EVPN>
  <ClearNDMobility>
    <NDMobility>
      <VrfName></VrfName>
      <Ipv6Address></Ipv6Address>
      <Clear></Clear>
    </NDMobility>
  </ClearNDMobility>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearNDMobility
Table type	Single-instance table
Row name	NDMobility
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	The value of _public_ indicates the public instance.
Ipv6Address	Remote IPV6 address	N/A	String, dotted decimal notation.	N/A
Clear	Clear ARP mobility statistics	N/A	N/A	This column must be empty.

EVPN/ClearAllNDMobility

This table is used to clear all ND mobility statistics.

XML structure

```
<EVPN>
  <ClearAllNDMobility>
    <Clear></Clear>
  </ClearAllNDMobility>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	ClearAllNDMobility
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all ND mobility statistics	N/A	N/A	This column must be empty.

Contents

EVPN 1

EVPN/EvpnInstances 1
XML structure 1
Table description 1
Columns 2
EVPN/EvpnInstances/EvpnSRv6Locators 3
XML structure 3
Table description 3
Columns 4
EVPN/VsiAssociations 4
XML structure 4
Table description 4
Columns 5
EVPN/VSIInterfaces 5
XML structure 5
Table description 6
Columns 6
EVPN/Base 6
XML structure 6
Table description 7
Columns 7
EVPN/InterfaceConfigs 11
XML structure 11
Table description 11
Columns 12
EVPN/InterfaceConfigs/EvpnTrackPeerAddrs 13
XML structure 13
Table description 13
Columns 13
EVPN/InterfaceConfigs/EvpnMACMobility 13
XML structure 13
Table description 14
Columns 14
EVPN/InterfaceConfigs/EvpnArpMobility 15
XML structure 15
Table description 15
Columns 16
EVPN/InterfaceConfigs/EvpnNDMobility 17
XML structure 17
Table description 17
Columns 17
EVPN/Connections 18
XML structure 18
Table description 19
Columns 19
EVPN/MplsVplsRTs 20
XML structure 20
Table description 20
Columns 20
EVPN/MplsVpwsRTs 21
XML structure 21
Table description 21
Columns 21
EVPN/EvpnVPLSEncaps 22
XML structure 22
Table description 22
Columns 23

EVPN/EvpnVPWSEncaps 24
XML structure 24
Table description 25
Columns 25
EVPN/L3VNIStatistics 26
XML structure 26
Table description 26
Columns 26
EVPN/VPLSEncapsSRv6 26
XML structure 26
Table description 27
Columns 28
EVPN/SRv6VplsRTs 31
XML structure 31
Table description 31
Columns 31
EVPN/VPWSEncapsSRv6 32
XML structure 32
Table description 32
Columns 32
EVPN/SRv6VpwsRTs 33
XML structure 33
Table description 34
Columns 34
EVPN/EvpnBindings 34
XML structure 34
Table description 35
Columns 35
EVPN/EvpnInstanceExtends 35
XML structure 35
Table description 36
Columns 36
EVPN/EvpnInstanceExtends/EvpnMACMobility 36
XML structure 36
Table description 37
Columns 37
EVPN/EvpnInstanceExtends/EvpnArpMobility 38
XML structure 38
Table description 38
Columns 39
EVPN/EvpnInstanceExtends/EvpnNDMobility 40
XML structure 40
Table description 40
Columns 40

EVPN

EVPN/EvpnInstances

This table contains information about EVPN instances configurations.

XML structure

```
<EVPN>
  <EvpnInstances>
    <EvpnInstance>
      <EvpnName></EvpnName>
      <MacAdvertise></MacAdvertise>
      <ArpMacLearn></ArpMacLearn>
      <NdMacLearn></NdMacLearn>
      <ArpAdvertise></ArpAdvertise>
      <ETree></ETree>
      <FrrLocal></FrrLocal>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <PwClassName></PwClassName>
      <TunnelPolicyName></TunnelPolicyName>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <EvpnSRv6Locators></EvpnSRv6Locators>
      <SegmentRoutingIteration></SegmentRoutingIteration>
    </EvpnInstance>
  </EvpnInstances>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnInstances
Table type	Multi-instance table
Row name	EvpnInstance
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnName	EVPN name	Index	String. Length: 1 to 31 characters.	N/A
MacAdvertise	MAC advertisement	N/A	Boolean: • **true**—Enabled(default). • **false—**Disabled.	N/A
ArpMacLearn	ARP MAC learning	N/A	Boolean: • **true**—Enabled(default). • **false—**Disabled.	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	N/A
ArpAdvertise	ARP advertisement	N/A	Boolean: • **true**—Enabled(default) • **false**—Disabled	N/A
ETree	Status of EVPN E-tree	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
FrrLocal	Status of local FRR for EVPN	N/A	Enumeration: • **0**—Inherit (default). • **1**—Enabled. • **2**—Disabled.	N/A
UMR	Unknown MAC route	N/A	Enumeration: • 1—Send. • 2—Receive. 3—Send and receive.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicyName	Tunnel policy related to the	N/A	String. Length: 1 to 126 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PW			
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63 characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
EvpnSRv6Locators	EVPN over SRv6 locators	Sublist	N/A	N/A
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration(default). • **1**—Best effort. • **2**—Traffic engineering. • **3**—Traffic engineering and best effort, traffic engineering preferred.	N/A

EVPN/EvpnInstances/EvpnSRv6Locators

This table is a sublist of EvpnInstances. This table contains information about EVPN over SRv6 locators.

XML structure

```
<EVPN>
  <EvpnInstances>
    <EvpnInstance>
      <EvpnSRv6Locators>
        <EvpnSRv6Locator>
          <LocatorName></LocatorName>
          <Dt2uLocatorName></Dt2uLocatorName>
          <Dt2ulLocatorName></Dt2ulLocatorName>
          <AutoSid></AutoSid>
        </EvpnSRv6Locator>
      </EvpnSRv6Locators>
    </EvpnInstance>
  </EvpnInstances>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnSRv6Locators
Table type	Single-instance table

Item	Description
Row name	EvpnSRv6Locator
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LocatorName	Locator name	Index	String. Length: 1 to 31 characters.
Dt2uLocatorName	DT2U locator name	N/A	String. Length: 1 to 31 characters.
Dt2ulLocatorName	DT2UL locator name	N/A	String. Length: 1 to 31 characters.
AutoSid	Status of automatic SID allocation	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.

EVPN/VsiAssociations

This table contains information about VSI associations.

XML structure

```
<EVPN>
  <VsiAssociations>
    <VsiAssociation>
      <VsiName></VsiName>
      <EvpnName></EvpnName>
      <EncapsulationType></EncapsulationType>
      <TagIDAutoType></TagIDAutoType>
      <TagID></TagID>
    </VsiAssociation>
  </VsiAssociations>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VsiAssociations
Table type	Multi-instance table

Item	Description
Row name	VsiAssociation
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the VSI first.
EvpnName	EVPN instance name	N/A	String. Length: 1 to 31 characters.	You must create the EVPN instance first.
EncapsulationType	Encapsulation type	N/A	Enumeration: • **1**—VXLAN (default). • **3**—MPLS. • **4**—SRv6.	N/A
TagIDAutoType	Whether to automatically generate a tag ID based on the VXLAN ID of the VSI	N/A	Enumeration: • **0**—A tag ID must be specified manually (default). • **1**—Automatically generates a tag ID based on the VXLAN ID of the VSI.	N/A
TagID	Tag ID	N/A	Unsigned integer, Value range: 1 to ffffff.	The value of 0 is invalid.

EVPN/VSIInterfaces

This table contains information about VSI associations.

XML structure

```
<EVPN>
  <VSIInterfaces>
    <Interfaces>
      <VsiIfID></VsiIfID>
      <SpanArpLearning></SpanArpLearning>
      <SpanNdLearning></SpanNdLearning>
    </Interfaces>
  </VSIInterfaces>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VSIInterfaces
Table type	Multi-instance table
Row name	Interfaces
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIfID	VSI name	Index	Unsigned integer, Value range: Different products have different ranges.	You must create the VSI interface first..
SpanArpLearning	Span arp learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
SpanNdLearning	Span nd learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A

EVPN/Base

This table contains global EVPN information.

XML structure

```
<EVPN>
  <Base>
    <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
    <DrniGroupIpAddress></DrniGroupIpAddress>
    <EdgeGroupIpAddress></EdgeGroupIpAddress>
    <EVPN_DRNI>
      <LocalIpAddress></LocalIpAddress>
      <RemoteIpAddress></RemoteIpAddress>
    </EVPN_DRNI>
    <GlobalMacAddr></GlobalMacAddr>
    <EvpnMACMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnMACMobility>
```

```
    <IrbAsymmetric></IrbAsymmetric>
    <IrbAsymmetricRoutePolicy></IrbAsymmetricRoutePolicy>
    <MultihomingIgnoreEthernetTag></MultihomingIgnoreEthernetTag>
    <MultihomingVpwsFrrLocal></MultihomingVpwsFrrLocal>
    <MultihomingVplsFrrLocal></MultihomingVplsFrrLocal>
    <VpwsFrrRemote></VpwsFrrRemote>
    <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
    <EvpnNDMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnNDMobility>
    <DfElectionAlgorithm></DfElectionAlgorithm>
    <MultihomingReOriginatedMac></MultihomingReOriginatedMac>
    <GatewayMacUnmovable></GatewayMacUnmovable>
    <GatewayAdvertiseMacipRoute></GatewayAdvertiseMacipRoute>
    <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
    <EvpnArpMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnArpMobility>
  </Base>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DrniGroupIpAddress	Drni Group Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
EdgeGroupIp	Edge Group Ip	N/A	String,IPv4 address string or	Example: 1.1.1.1

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address		IPv6 address string.	or 1::1.
EVPN_DRNI	Distributed Resilient Network Interconnect	N/A	Members include: • LocalIpAddress • RemoteIpAddress	N/A
LocalIpAddress	Local Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. only support Ipv4 address.
RemoteIpAddress	Remote Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. only support Ipv4 address.
GlobalMacAddr	Global Mac Address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Some versions only support unicast address or all 0s.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobility Suppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobility Suppression column is true.
Suppression Time	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobility Suppression column is true.
IrbAsymmetric	EVPN asymmetric IRB	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IrbAsymmetricRoutePolicy	Routing policy for EVPN asymmetric IRB	N/A	String. • Length: 1 to 63 characters	You must first enable the L2VPN feature globally.
MultihomingIgnoreEthernetTag	Whether to ignore the Ethernet tag when advertising multihoming routes	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
MultihomingVpwsFrrLocal	Whether to enable local FRR for EVPN VPWS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
MultihomingVplsFrrLocal	Whether to enable local FRR for EVPN VPLS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
VpwsFrrRemote	Whether to enable remote FRR for EVPN VPWS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
EvpnNDMobilitySuppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnNDMobility	Attributes of ND mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression	N/A	Unsigned integer.	The default value for this column is

Column name	Column description	Column type	Data type and restrictions	Remarks
	time		Value range: 0 and 120 to 3600, in seconds.	0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.
DfElectionAlgorithm	DF election algorithm	N/A	Enumeration: • **0**—Default. • **2**—Preference.	The default value for this column is 0.
MultihomingReOriginatedMac	Whether to enable Multihoming re-originatedMac	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
GatewayMacUnmovable	Gateway MAC address is advertised with a MAC Mobility extended community where the static flag is set to 1	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
GatewayAdvertiseMacipRoute	MAC/IP route advertising for distributed-gateway	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.The configuration for these parameters also apply to VXLAN/Base.
EvpnArpMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the

Column name	Column description	Column type	Data type and restrictions	Remarks
				EvpnArpMobilitySuppression column is true.
Suppression Time	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

EVPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <EvpnDelayTime></EvpnDelayTime>
      <EvpnTrackPeerAddrs>
      </EvpnTrackPeerAddrs>
      <EvpnADDelayTime></EvpnADDelayTime>
      <EvpnMACMobility></EvpnMACMobility>
      <EvpnArpMobility></EvpnArpMobility>
      <EvpnNDMobility></EvpnNDMobility>
      <DfElectionAlgorithm></DfElectionAlgorithm>
      <DfElectionPreference></DfElectionPreference>
      <PreferenceNonRevertive></PreferenceNonRevertive>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	InterfaceConfigs
Table type	Multi -instance table
Row name	InterfaceConfig
Restrictions	This table supports only Layer 3 Ethernet interfaces.

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
EvpnDelayTime	Delay Time	N/A	Unsigned integer, Value range:3-1200.	N/A
EvpnTrackPeerAddrs	EvpnTrackPeerAddrs	Sublist	N/A	N/A
EvpnADDelayTime	AD delay Time	N/A	Unsigned integer, Value range:3-1200.	N/A
EvpnMACMobility	EvpnMACMobility	Sublist	N/A	N/A
EvpnArpMobility	EvpnArpMobility	Sublist	N/A	N/A
EvpnNDMobility	EvpnNDMobility	Sublist	N/A	N/A
DfElectionAlgorithm	DF election algorithm	N/A	Enumeration: • **0**—default. • **2**—preference.	The default value for this column is 0.
DfElectionPreference	DF election preference	N/A	Unsigned integer. Value range: 0 to 65535.	The default value for this column is 32767. This column takes effect when the value for the DfelectionAlgorithm or EVPN/Base/DfelectionAlgorithm column is 2.
PreferenceNonRevertive	DF election preference non revertive mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

EVPN/InterfaceConfigs/EvpnTrackPeerAddrs

This table is a sublist of InterfaceConfigs. This table contains information about Evpn TrackPeer Addrs.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnTrackPeerAddrs>
        <EvpnTrackPeerAddr>
          <Ipv4PeerAddr></Ipv4PeerAddr>
        </EvpnTrackPeerAddr>
      </EvpnTrackPeerAddrs>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnTrackPeerAddrs
Table type	Multi -instance table
Row name	EvpnTrackPeerAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4PeerAddr	Peer address	Index	String, dotted decimal notation.

EVPN/InterfaceConfigs/EvpnMACMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn MAC Mobility.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnMACMobility>
```

```
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnMACMobility>
  </InterfaceConfig>
 </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnMacMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value

Column name	Column description	Column type	Data type and restrictions	Remarks
				for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/InterfaceConfigs/EvpnArpMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn Arp Mobility.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnArpMobility>
        <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnArpMobility>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnArpMobility
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySupp

Column name	Column description	Column type	Data type and restrictions	Remarks
				ression column is true.

EVPN/InterfaceConfigs/EvpnNDMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn ND Mobility.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnNDMobility>
        <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnNDMobility>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnNDMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnNDMobility Suppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	ND mobility	N/A	Unsigned integer.	The default

Column name	Column description	Column type	Data type and restrictions	Remarks
	detection cycle		Value range: 60 to 900, in seconds.	value for this column is 180 seconds. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.

EVPN/Connections

This table contains information about XCGs.

XML structure

```
<EVPN>
  <Connections>
    <Connection>
      <XCGName></XCGName>
```

```
      <ConnectionName></ConnectionName>
      <LocalSrvID></LocalSrvID>
      <RemoteSrvID></RemoteSrvID>
      <TunnelPolicyName></TunnelPolicyName>
      <PWClass></PWClass>
      <Statistics></Statistics>
    </Connection>
  </Connections>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	Connections
Table type	Multi -instance table
Row name	Connection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalSrvID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteSrvID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	Status of PW statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	Support for this command depends on the device model.

EVPN/MplsVplsRTs

This table contains information about EVPN route targets associated with VPLS.

XML structure

```
<EVPN>
  <MplsVplsRTs>
    <MplsVplsRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </MplsVplsRT>
  </MplsVplsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	MplsVplsRTs
Table type	Multi-instance table
Row name	MplsVplsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI and enable EVPN MPLS encapsulation before you merge, replace, or create MPLS RTs, and the RTs are not auto in table MplsVplsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/MplsVpwsRTs

This table contains information about EVPN route targets associated with VPWS.

XML structure

```
<EVPN>
  <MplsVpwsRTs>
    <MplsVpwsRT >
      <XCGName></XCGName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </MplsVpwsRT>
  </MplsVpwsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	MplsVpwsRTs
Table type	Multi-instance table
Row name	MplsVpwsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG and enable EVPN MPLS encapsulation before you merge, replace, or create MPLS RTs, and the RTs are not auto in table MplsVpwsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/EvpnVPLSEncaps

This table contains information about EVPN VPLS with MPLS encapsulation.

XML structure

```
<EVPN>
  <EvpnVPLSEncaps>
    <EvpnVPLSEncap>
      <VsiName></VsiName>
      <RD></RD>
      <PwClassName></PwClassName>
      <TunnelPolicyName></TunnelPolicyName>
      <Statistics></Statistics>
      <ETree></ETree>
      <DefaultColor></DefaultColor>
      <FrrLocal></FrrLocal>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </EvpnVPLSEncap>
  </EvpnVPLSEncaps>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPLSEncaps
Table type	Multi-instance table
Row name	EvpnVPLSEncap
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI before you merge, replace, or create MPLS RDs, and the RDs are not auto in table EvpnVPLSEncaps.
RD	Route distinguisher	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
Statistics	Status of PW statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	Support for this command depends on the device model.
ETree	Status of EVPN E-tree	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
FrrLocal	Whether to enable local FRR for EVPN VPLS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVplsFrrLocal.
UMR	Unknown MAC Route	N/A	Enumeration: • **1**—send enable. • **2**—receive enable. • 3—send and receive enable. • 4—send and detail-suppressed enable. • 5—send and detail-suppressed and receive enable.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • false—Disabled (default).	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/EvpnVPWSEncaps

This table contains information about EVPN VPWS with MPLS encapsulation.

XML structure

```
<EVPN>
  <EvpnVPWSEncaps>
    <EvpnVPWSEncap>
      <XCGName></XCGName>
      <RD></RD>
```

```
      <DefaultColor></DefaultColor>
      <FrrRemote></FrrRemote>
      <FrrLocal></FrrLocal>
    </EvpnVPWSEncap>
  </EvpnVPWSEncaps>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPWSEncaps
Table type	Multi-instance table
Row name	EvpnVPWSEncap
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG before you merge, replace, or create MPLS RDs, and the RDs are not auto in table EvpnVPWSEncaps.
RD	Route distinguisher	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
FrrRemote	Whether to enable remote FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/VpwsFrrRemote.
FrrLocal	Whether to enable local FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVpwsFrrLocal.

EVPN/L3VNIStatistics

This table contains L3 VXLAN ID statistics information.

XML structure

```
<EVPN>
  <L3VNIStatistics>
    <StatisticsAll></StatisticsAll>
  </L3VNIStatistics>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	L3VNIStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StatisticsAll	All L3 VXLAN ID statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

EVPN/VPLSEncapsSRv6

This table contains information about EVPN VPLS with SRv6 encapsulation.

XML structure

```
<EVPN>
  <VPLSEncapsSRv6s>
    <VPLSEncapsSRv6>
      <VsiName></VsiName>
      <RD></RD>
      <SRv6Locator>
        <LocatorName></LocatorName>
        <Dt2uLocatorName></Dt2uLocatorName>
```

```
        <Dx2LocatorName></Dx2LocatorName>
        <Dx2lLocatorName></Dx2lLocatorName>
        <Dt2ulLocatorName></Dt2ulLocatorName>
        <AutoSid></AutoSid>
      </SRv6Locator>
      <SegmentRoutingIteration></SegmentRoutingIteration>
      <ETree></ETree>
      <TunnelPolicyName></TunnelPolicyName>
      <FrrLocal></FrrLocal>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <UnicastForwardingDx2></UnicastForwardingDx2>
      <Statistics></Statistics>
      <LocalSrvID></LocalSrvID>
      <RemoteSrvID></RemoteSrvID>
      <ForwardingPreferred></ForwardingPreferred>
      <BumForwardingDX2L></BumForwardingDX2L>
      <PwClassName></PwClassName>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <DefaultColor></DefaultColor>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </VPLSEncapsSRv6>
  </VPLSEncapsSRv6s>
</EVPN>
```


Table description

Item	Description
Feature name	EVPN
Table name	VPLSEncapsSRv6s
Table type	Multi-instance table
Row name	VPLSEncapsSRv6
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI before you merge, replace, or create SRv6 RDs, and the RDs are not auto in table VPLSEncapsSRv6.
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
SRv6Locator	Attributes of SRv6 locator	Data structure	Members include: • LocatorName. • Dt2uLocatorName. • AutoSid.	N/A
LocatorName	Locator name	N/A	String. Length: 1 to 31 characters.	You must and only need to specify this column when you remove or delete the locator, and the Dt2uLocatorName column or AutoSid column is ignored.
Dt2uLocatorName	DT2U locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
Dx2LocatorName	End.DX2 locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
Dx2lLocatorName	End.DX2L locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
Dt2ulLocatorName	End.DT2UL locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
AutoSid	Auto Sid	N/A	Boolean: • true—Enabled (default). • false—Disabled.	If this column is required, you must also specify the LocatorName column.
SegmentRout	Segment	N/A	Enumeration:	N/A

ingIteration	Routing Iteration		• 1—Best effort. • 2—Traffic engineering. • 3—Traffic engineering and best effort, traffic engineering preferred	
ETree	e-tree	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
FrrLocal	Whether to enable local FRR for EVPN VPLS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2**—disable	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVplsFrrLocal.
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63 characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
UnicastForwardingDx2	Whether to enable End.DX2 SID-based unicast forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
Statistics	PW traffic statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	Support for this column depends on the device model.
LocalSrvID	Local service ID	N/A	Unsigned integer. Value range: 4096 to 16777215.	N/A
RemoteSrvID	Remote service ID	N/A	Unsigned integer. Value range: 4096 to 16777215.	N/A
ForwardingPreferred	Whether to specify the EVPN VPWS PW as the preferred forwarder	N/A	Boolean: • **true**—Yes (default). • **false**—No.	N/A
BumForwardingDX2L	Whether to enable End.DX2L SID-based BUM forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
UMR	Unknown MAC Route	N/A	Enumeration: • **1**—send enable. • **2**—receive enable. • **3**—send and receive	This column cannot be modified.

			enable. • 4—send and detail-suppressed enable. • 5—send and detail-suppressed and receive enable.	
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • false—Disabled (default).	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/SRv6VplsRTs

This table contains information about EVPN route targets associated with VPLS.

XML structure

```
<EVPN>
  <SRv6VplsRTs>
    <SRv6VplsRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </SRv6VplsRT>
  </SRv6VplsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	SRv6VplsRTs
Table type	Multi-instance table
Row name	SRv6VplsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI and enable EVPN SRv6 encapsulation before you merge, replace, or create SRv6 RTs, and the RTs are not auto in table SRv6VplsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/VPWSEncapsSRv6

This table contains information about EVPN VPWS with SRv6 encapsulation.

XML structure

```
<EVPN>
  <VPWSEncapsSRv6s>
    <VPWSEncapsSRv6>
      <XCGName></XCGName>
      <RD></RD>
      <SegmentRoutingIteration></SegmentRoutingIteration>
      <FrrLocal></FrrLocal>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <FrrRemote></FrrRemote>
      <DefaultColor></DefaultColor>
     </VPWSEncapsSRv6>
  </VPWSEncapsSRv6s>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPWSEncapsSRv6s
Table type	Multi-instance table
Row name	VPWSEncapsSRv6
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG before you merge, replace, or create SRv6 RDs, and the RDs are not auto in table VPWSEncapsSRv6 .
RD	Route	Data	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	distinguisher	structure	Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration:. • **0**—No segment routing iteration(default). • **1**—Best effort. • **2**—Traffic engineering. • **3**—Traffic engineering and best effort, traffic engineering preferred.	N/A
FrrLocal	Whether to enable local FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2**—disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVpwsFrrLocal.
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63 characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
FrrRemote	Whether to enable remote FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/VpwsFrrRemote.
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A

EVPN/SRv6VpwsRTs

This table contains information about EVPN route targets associated with VPWS.

XML structure

```
<EVPN>
  <SRv6VpwsRTs>
    <SRv6VpwsRT>
      <XCGName></XCGName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </SRv6VpwsRT>
  </SRv6VpwsRTs>
```

```
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	SRv6VpwsRTs
Table type	Multi-instance table
Row name	SRv6VpwsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG and enable EVPN SRv6 encapsulation before you merge, replace, or create SRv6 RTs, and the RTs are not auto in table SRv6VpwsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/EvpnBindings

This table contains EvpnBindings information.

XML structure

```
<EVPN>
  <EvpnBindings>
      <Encapsulation></Encapsulation>
      <Instance></Instance>
      <VsiTag></VsiTag>
  </EvpnBindings>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnBindings
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encapsulation	Encapsulation Type	N/A	Enumeration: • **1**—VXLAN. • **3**—MPLS. • **4**—SRv6.	N/A
Instance	EVPN Instance Name	N/A	String. Length: 1 to 31 characters.	N/A
VsiTag	Vsi Instance Tag ID	N/A	Unsigned integer Value range: 1 to 16777215.	The value range is depened on Encapsulation. Value range of VXLAN: 1 to 16777215. Value range of MPLS: 1 to 4094. Value range of SRv6: 1 to 4094.

EVPN/EvpnInstanceExtends

This table contains information about EVPN instances configurations.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnName></EvpnName>
      <EvpnMACMobility></EvpnMACMobility>
      <EvpnArpMobility></EvpnArpMobility>
      <EvpnNDMobility></EvpnNDMobility>
```

```
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnInstanceExtends
Table type	Multi-instance table
Row name	EvpnInstanceExtend
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnName	EVPN name	Index	String. Length: 1 to 31 characters.	You must create the evpn instance first.
EvpnMACMobility	MAC mobility	Sublist	N/A	N/A
EvpnArpMobility	Arp mobility	Sublist	N/A	N/A
EvpnNDMobility	ND mobility	Sublist	N/A	N/A

EVPN/EvpnInstanceExtends/EvpnMACMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN MAC Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnMACMobility>
        <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </EvpnInstanceExtend>
```

```
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnMacMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTi	MAC mobility	N/A	Unsigned integer.	The default

Column name	Column description	Column type	Data type and restrictions	Remarks
me	suppression time		Value range: 0 and 120 to 3600, in seconds.	value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/EvpnInstanceExtends/EvpnArpMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN Arp Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnArpMobility>
        <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnArpMobility>
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnArpMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

EVPN/EvpnInstanceExtends/EvpnNDMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN ND Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnNDMobility>
        <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnNDMobility>
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnNDMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnNDMobility Suppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when

Column name	Column description	Column type	Data type and restrictions	Remarks
				the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.

Contents

EVPN 1

EVPN/EvpnInstances 1
XML structure 1
Table description 1
Columns 2
EVPN/EvpnInstances/EvpnSRv6Locators 3
XML structure 3
Table description 3
Columns 4
EVPN/VsiAssociations 4
XML structure 4
Table description 4
Columns 5
EVPN/VSIInterfaces 5
XML structure 5
Table description 6
Columns 6
EVPN/Base 6
XML structure 6
Table description 7
Columns 7
EVPN/InterfaceConfigs 11
XML structure 11
Table description 11
Columns 11
EVPN/InterfaceConfigs/EvpnTrackPeerAddrs 12
XML structure 12
Table description 13
Columns 13
EVPN/InterfaceConfigs/EvpnMACMobility 13
XML structure 13
Table description 13
Columns 14
EVPN/InterfaceConfigs/EvpnArpMobility 15
XML structure 15
Table description 15
Columns 15
EVPN/InterfaceMobilitys/EvpnNDMobility 16
XML structure 16
Table description 17
Columns 17
EVPN/Connections 18
XML structure 18
Table description 19
Columns 19
EVPN/MplsVplsRTs 19
XML structure 19
Table description 20
Columns 20
EVPN/MplsVpwsRTs 20
XML structure 20
Table description 21
Columns 21
EVPN/EvpnVPLSEncaps 21
XML structure 21
Table description 22
Columns 22

EVPN/EvpnVPWSEncaps 24
XML structure 24
Table description 24
Columns 24
EVPN/VPLSPWINs 25
XML structure 25
Table description 25
Columns 26
EVPN/VPLSPWOUTs 26
XML structure 26
Table description 26
Columns 27
EVPN/VPWSPWs 27
XML structure 27
Table description 28
Columns 28
EVPN/L3VNIStatistics 29
XML structure 29
Table description 29
Columns 29
EVPN/VPLSEncapsSRv6 29
XML structure 30
Table description 30
Columns 31
EVPN/SRv6VplsRTs 34
XML structure 34
Table description 34
Columns 34
EVPN/VPWSEncapsSRv6 35
XML structure 35
Table description 35
Columns 36
EVPN/SRv6VpwsRTs 37
XML structure 37
Table description 37
Columns 37
EVPN/VPLSSRv6Peers 38
XML structure 38
Table description 38
Columns 38
EVPN/VPWSSRv6Peers 38
XML structure 38
Table description 39
Columns 39
EVPN/VPLSSRv6PeerINs 39
XML structure 39
Table description 40
Columns 40
EVPN/VPLSSRv6PeerOUTs 40
XML structure 40
Table description 41
Columns 41
EVPN/VPWSSRv6PWs 42
XML structure 42
Table description 42
Columns 43
EVPN/EvpnBindings 43
XML structure 43
Table description 44
Columns 44
EVPN/EvpnInstanceExtends 44
XML structure 44

Table description ····· 45
Columns ····· 45
EVPN/EvpnInstanceExtends/EvpnMACMobility ····· 45
XML structure ····· 45
Table description ····· 46
Columns ····· 46
EVPN/EvpnInstanceExtends/EvpnArpMobility ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 48
EVPN/EvpnInstanceExtends/EvpnNDMobility ····· 49
XML structure ····· 49
Table description ····· 49
Columns ····· 49

EVPN

EVPN/EvpnInstances

This table contains information about EVPN instances configurations.

XML structure

```
<EVPN>
  <EvpnInstances>
    <EvpnInstance>
      <EvpnName></EvpnName>
      <MacAdvertise></MacAdvertise>
      <ArpMacLearn></ArpMacLearn>
      <NdMacLearn></NdMacLearn>
      <ArpAdvertise></ArpAdvertise>
      <ETree></ETree>
      <FrrLocal></FrrLocal>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <PwClassName></PwClassName>
      <TunnelPolicyName></TunnelPolicyName>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <EvpnSRv6Locators></EvpnSRv6Locators>
      <SegmentRoutingIteration></SegmentRoutingIteration>
    </EvpnInstance>
  </EvpnInstances>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnInstances
Table type	Multi-instance table
Row name	EvpnInstance
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnName	EVPN name	Index	String. Length: 1 to 31 characters.	N/A
MacAdvertise	MAC advertisement	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
ArpMacLearn	ARP MAC learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
ArpAdvertise	ARP advertisement	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
ETree	Status of EVPN E-tree	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
FrrLocal	Status of local FRR for EVPN	N/A	Enumeration: • **0**—Inherit (default). • **1**—Enabled. • **2**—Disabled.	N/A
UMR	Unknown MAC route	N/A	Enumeration: • 1—Send. • 2—Receive. • 3—Send and receive.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicyName	Tunnel policy related to the	N/A	String. Length: 1 to 126 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PW			
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
EvpnSRv6Locators	EVPN over SRv6 locator	Sublist	N/A	N/A
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration(default). • **1**—Best effort. • **2**—Traffic engineering. • **3**—Traffic engineering and best effort, traffic engineering preferred.	N/A

EVPN/EvpnInstances/EvpnSRv6Locators

This table is a sublist of EvpnInstances. This table contains information about EVPN over SRv6 locators.

XML structure

```
<EVPN>
  <EvpnInstances>
    <EvpnInstance>
      <EvpnSRv6Locators>
        <EvpnSRv6Locator>
          <LocatorName></LocatorName>
          <Dt2uLocatorName></Dt2uLocatorName>
          <Dt2ulLocatorName></Dt2ulLocatorName>
          <AutoSid></AutoSid>
        </EvpnSRv6Locator>
      </EvpnSRv6Locators>
    </EvpnInstance>
  </EvpnInstances>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnSRv6Locators
Table type	Single-instance table

Item	Description
Row name	EvpnSRv6Locator
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LocatorName	Locator name	Index	String. Length: 1 to 31 characters.
Dt2uLocatorName	DT2U locator name	N/A	String. Length: 1 to 31 characters.
Dt2ulLocatorName	DT2UL locator name	N/A	String. Length: 1 to 31 characters.
AutoSid	Status of automatic SID allocation	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.

EVPN/VsiAssociations

This table contains information about VSI associations.

XML structure

```
<EVPN>
  <VsiAssociations>
    <VsiAssociation>
      <VsiName></VsiName>
      <EvpnName></EvpnName>
      <EncapsulationType></EncapsulationType>
      <TagIDAutoType></TagIDAutoType>
      <TagID></TagID>
    </VsiAssociation>
  </VsiAssociations>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VsiAssociations
Table type	Multi-instance table

Item	Description
Row name	VsiAssociation
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the VSI first..
EvpnName	EVPN instance name	N/A	String. Length: 1 to 31 characters.	You must create the EVPN instance first.
EncapsulationType	Encapsulation type	N/A	Enumeration: • **1**—VXLAN (default). • **3**—MPLS. • **4**—SRv6.	N/A
TagIDAutoType	Whether to automatically generate a tag ID based on the VXLAN ID of the VSI	N/A	Enumeration: • **0**—A tag ID must be specified manually (default). • **1—**Automatically generates a tag ID based on the VXLAN ID of the VS**I.**	N/A
TagID	Tag ID	N/A	Unsigned integer, Value range: 1 to ffffff.	The value of 0 is invalid.

EVPN/VSIInterfaces

This table contains information about VSI associations.

XML structure

```
<EVPN>
  <VSIInterfaces>
    <Interfaces>
      <VsiIfID></VsiIfID>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <SpanArpLearning></SpanArpLearning>
      <SpanNdLearning></SpanNdLearning>
    </Interfaces>
  </VSIInterfaces>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VSIInterfaces
Table type	Multi-instance table
Row name	Interfaces
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIfID	VSI interface name	Index	Unsigned integer, Value range: Different products have different ranges.	You must create the VSI interface first..
IfIndex	VSI interface index	N/A	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
SpanArpLearning	Span arp learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A
SpanNdLearning	Span nd learning	N/A	Boolean: • **true**—Enabled (default). • **false—**Disabled.	N/A

EVPN/Base

This table contains global EVPN information.

XML structure

```
<EVPN>
  <Base>
    <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
    <DrniGroupIpAddress></DrniGroupIpAddress>
    <EdgeGroupIpAddress></EdgeGroupIpAddress>
    <EVPN_DRNI>
      <LocalIpAddress></LocalIpAddress>
      <RemoteIpAddress></RemoteIpAddress>
    </EVPN_DRNI>
    <GlobalMacAddr></GlobalMacAddr>
    <EvpnMACMobility>
```

```
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnMACMobility>
    <IrbAsymmetric></IrbAsymmetric>
    <IrbAsymmetricRoutePolicy></IrbAsymmetricRoutePolicy>
    <MultihomingIgnoreEthernetTag></MultihomingIgnoreEthernetTag>
    <MultihomingVpwsFrrLocal></MultihomingVpwsFrrLocal>
    <MultihomingVplsFrrLocal></MultihomingVplsFrrLocal>
    <VpwsFrrRemote></VpwsFrrRemote>
    <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
    <EvpnNDMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnNDMobility>
    <AvailableGlobalMacAddr></AvailableGlobalMacAddr>
    <DfElectionAlgorithm></DfElectionAlgorithm>
    <MultihomingReOriginatedMac></MultihomingReOriginatedMac>
    <GatewayMacUnmovable></GatewayMacUnmovable>
    <GatewayAdvertiseMacipRoute></GatewayAdvertiseMacipRoute>
    <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
    <EvpnArpMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnArpMobility>
  </Base>
</EVPN>
```


Table description

Item	Description
Feature name	EVPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event	N/A	Boolean: • **true**—Enabled.	You must first enable the L2VPN feature globally.

Column name	Column description	Column type	Data type and restrictions	Remarks
	suppression		• **false**—Disabled.	
DrniGroupIpAddress	Drni Group Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
EdgeGroupIpAddress	Edge Group Ip Address	N/A	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
EVPN_DRNI	Distributed Resilient Network Interconnect	N/A	Members include: • LocalIpAddress • RemoteIpAddress	N/A
LocalIpAddress	Local Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
RemoteIpAddress	Remote Ip Address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
GlobalMacAddr	Global Mac Address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Some versions only support unicast address or all 0s.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	This column takes effect only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	This column takes effect only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	This column takes effect only when the value for the EvpnMacMobilitySuppression column is true.
IrbAsymmetric	EVPN asymmetric IRB	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
IrbAsymmetricRoutePolicy	Routing policy for EVPN asymmetric IRB	N/A	String. Length: 1 to 63 characters	You must first enable the L2VPN feature globally.
MultihomingIgnoreEthernetTag	Whether to ignore the Ethernet tag when advertising	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	multihoming routes			
MultihomingVpwsFrrLocal	Whether to enable local FRR for EVPN VPWS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
MultihomingVplsFrrLocal	Whether to enable local FRR for EVPN VPLS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
VpwsFrrRemote	Whether to enable remote FRR for EVPN VPWS at a multihomed site	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
EvpnNDMobilitySuppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnNDMobility	Attributes of ND mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	This column takes effect only when the value for the EvpnNDMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	This column takes effect only when the value for the EvpnNDMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	This column takes effect only when the value for the EvpnNDMobilitySuppression column is true.
AvailableGlobalMacAddr	Available Global Mac Address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DfElectionAlgorithm	Dfelection algorithm	N/A	Enumeration: • **0**—default. • **2**—preference.	N/A
MultihomingReOriginatedMac	Whether to enable Multihoming re-originatedMac	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.

Column name	Column description	Column type	Data type and restrictions	Remarks
GatewayMacUnmovable	Gateway MAC address is advertised with a MAC Mobility extended community where the static flag is set to 1	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	You must first enable the L2VPN feature globally.
GatewayAdvertiseMacipRoute	MAC/IP route advertising for distributed-gateway	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.The configuration for these parameters also apply to VXLAN/Base.
EvpnArpMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

EVPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <EvpnDelayTime></EvpnDelayTime>
      <EvpnTrackPeerAddrs>
      </EvpnTrackPeerAddrs>
      <EvpnADDelayTime></EvpnADDelayTime>
      <EvpnMACMobility></EvpnMACMobility>
      <EvpnArpMobility></EvpnArpMobility>
      <EvpnNDMobility></EvpnNDMobility>
      <DfElectionAlgorithm></DfElectionAlgorithm>
      <DfElectionPreference></DfElectionPreference>
      <PreferenceNonRevertive></PreferenceNonRevertive>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	InterfaceConfigs
Table type	Multi -instance table
Row name	InterfaceConfig
Restrictions	This table supports only Layer 3 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
EvpnDelayTime	Delay Time	N/A	Unsigned integer, Value range:3-1200.	N/A
EvpnTrackPeerAddrs	EvpnTrackPeerAddrs	Sublist	N/A	N/A
EvpnADDelayTime	AD delay Time	N/A	Unsigned integer, Value range:3-1200.	N/A
EvpnMACMobility	EvpnMACMobility	Sublist	N/A	N/A
EvpnArpMobility	EvpnArpMobility	Sublist	N/A	N/A
EvpnNDMobility	EvpnNDMobility	Sublist	N/A	N/A
DfElectionAlgorithm	Dfelection algorithm	N/A	Enumeration: • **0**—default. • **2**—preference.	N/A
DfElectionPreference	Dfelection preference	N/A	Unsigned integer. Value range: 0 to 65535.	This column only work when the value for the DfelectionAlgorithm or EVPN/Base/DfelectionAlgorithm column is 2.
PreferenceNonRevertive	Dfelection preference non revertive	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

EVPN/InterfaceConfigs/EvpnTrackPeerAddrs

This table is a sublist of InterfaceConfigs. This table contains information about Evpn TrackPeer Addrs.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnTrackPeerAddrs>
        <EvpnTrackPeerAddr>
          <Ipv4PeerAddr></Ipv4PeerAddr>
```

```
      </EvpnTrackPeerAddr>
    </EvpnTrackPeerAddrs>
  </InterfaceConfig>
</InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnTrackPeerAddrs
Table type	Multi -instance table
Row name	EvpnTrackPeerAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PeerAddr	Peer address	Index	String, dotted decimal notation.	N/A

EVPN/InterfaceConfigs/EvpnMACMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn MAC Mobility.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnMACMobility>
        <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN

Item	Description
Table name	EvpnMacMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when

Column name	Column description	Column type	Data type and restrictions	Remarks
				the value for the EvpnMacMobilitySuppression column is true.

EVPN/InterfaceConfigs/EvpnArpMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn Arp Mobility.

XML structure

```
<EVPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnArpMobility>
        <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnArpMobility>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnArpMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN

Column name	Column description	Column type	Data type and restrictions	Remarks
	suppression			feature globally.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

EVPN/InterfaceMobilitys/EvpnNDMobility

This table is a sublist of InterfaceConfigs. This table contains information about Evpn ND Mobility.

XML structure

```
<EVPN>
```

```
  <InterfaceConfigs>
    <InterfaceConfig>
      <EvpnNDMobility>
        <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnNDMobility>
    </InterfaceConfig>
  </InterfaceConfigs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnNDMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnNDMobility Suppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.

EVPN/Connections

This table contains information about XCGs.

XML structure

```
<EVPN>
  <Connections>
    <Connection>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalSrvID></LocalSrvID>
      <RemoteSrvID></RemoteSrvID>
      <TunnelPolicyName></TunnelPolicyName>
      <PWClass></PWClass>
      <Statistics></Statistics>
    </Connection>
  </Connections>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	Connections
Table type	Multi -instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalSrvID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteSrvID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	Status of PW statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	Support for this command depends on the device model.

EVPN/MplsVplsRTs

This table contains information about EVPN route targets associated with VPLS.

XML structure

```
<EVPN>
  <MplsVplsRTs>
    <MplsVplsRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
   </MplsVplsRT>
```

```
  </MplsVplsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	MplsVplsRTs
Table type	Multi-instance table
Row name	MplsVplsRTs
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI and enable EVPN MPLS encapsulation before you merge, replace, or create MPLS RTs, and the RTs are not auto in table MplsVplsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/MplsVpwsRTs

This table contains information about EVPN route targets associated with VPWS.

XML structure

```
<EVPN>
  <MplsVpwsRTs>
    <MplsVpwsRT>
      <XCGName></XCGName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </MplsVpwsRT>
```

```
  </MplsVpwsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	MplsVpwsRTs
Table type	Multi-instance table
Row name	MplsVpwsRT
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG and enable EVPN MPLS encapsulation before you merge, replace, or create MPLS RTs, and the RTs are not auto in table MplsVpwsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/EvpnVPLSEncaps

This table contains information about EVPN VPLS with MPLS encapsulation.

XML structure

```
<EVPN>
  <EvpnVPLSEncaps>
    <EvpnVPLSEncap>
      <VsiName></VsiName>
      <RD></RD>
      <PwClassName></PwClassName>
      <TunnelPolicyName></TunnelPolicyName>
```

```
      <Statistics></Statistics>
      <ETree></ETree>
      <DefaultColor></DefaultColor>
      <FrrLocal></FrrLocal>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </EvpnVPLSEncap>
  </EvpnVPLSEncaps>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPLSEncaps
Table type	Multi-instance table
Row name	EvpnVPLSEncap
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
RD	Route distinguisher	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
Statistics	Status of PW statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	Support for this command depends on the device model.
ETree	Status of EVPN	N/A	Boolean:	N/A

	E-tree		• **true**—Enabled. • **false**—Disabled.	
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
FrrLocal	Whether to enable local FRR for EVPN VPLS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVplsFrrLocal.
UMR	Unknown MAC Route	N/A	• **Enumeration:** • 1—send enable. • 2—receive enable. • 3—send and receive enable. • 4—send and detail-suppressed enable. • 5—send and detail-suppressed and receive enable.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: • 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression

				column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/EvpnVPWSEncaps

This table contains information about EVPN VPWS with MPLS encapsulation.

XML structure

```
<EVPN>
  <EvpnVPWSEncaps>
    <EvpnVPWSEncap>
      <XCGName></XCGName>
      <RD></RD>
      <DefaultColor></DefaultColor>
      <FrrRemote></FrrRemote>
      <FrrLocal></FrrLocal>
    </EvpnVPWSEncap>
  </EvpnVPWSEncaps>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPWSEncaps
Table type	Multi-instance table
Row name	EvpnVPWSEncap
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	N/A
RD	Route	Data	String.	N/A

	distinguisher	structure	Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
FrrRemote	Whether to enable remote FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/VpwsFrrRemote.
FrrLocal	Whether to enable local FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2**—disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVpwsFrrLocal.

EVPN/VPLSPWINs

This table contains information about EVPN VPWS with MPLS encapsulation.

XML structure

```
<EVPN>
  <VPLSPWINs>
    <VPLSPWIN>
      <VsiName></VsiName>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </InputStatistics>
    </VPLSPWIN>
  </VPLSPWINs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPWSEncaps
Table type	Multi-instance table
Row name	EvpnVPWSEncap
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
InputStatistics	Input statistcs	N/A	Members include: • Octets. • Packets. • Errors. • Discards.	N/A
Octets	Number of octets	N/A	Unsigned integer(64).	N/A
Packets	Number of packets	N/A	Unsigned integer(64).	N/A
Errors	Number of error packets	N/A	Unsigned integer(64).	N/A
Discards	Number of discarded packets	N/A	Unsigned integer(64).	N/A

EVPN/VPLSPWOUTs

This table contains information about EVPN VPWS with MPLS encapsulation.

XML structure

```
<EVPN>
  <VPLSPWOUTs>
    <VPLSPWOUT>
      <VsiName></VsiName>
      <LinkID></LinkID>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </OutputStatistics>
    </VPLSPWOUT>
  </VPLSPWOUTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN

Item	Description
Table name	EvpnVPWSEncaps
Table type	Multi-instance table
Row name	EvpnVPWSEncap
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
LinkID	LinkID of the peer PE	Index	Unsigned integer. Value range: 0 to 65534.	N/A
OutputStatistics	Output statistics	N/A	Members include: • Octets. • Packets. • Errors. • Discards.	N/A
Octets	Number of octets	N/A	Unsigned integer(64).	N/A
Packets	Number of packets	N/A	Unsigned integer(64).	N/A
Errors	Number of error packets	N/A	Unsigned integer(64).	N/A
Discards	Number of discarded packets	N/A	Unsigned integer(64).	N/A

EVPN/VPWSPWs

This table contains information about EVPN VPWS with MPLS encapsulation.

XML structure

```
<EVPN>
  <VPWSPWs>
    <VPWSPW>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalSrvID></LocalSrvID>
      <RemoteSrvID></RemoteSrvID>
      <PeerAddr></PeerAddr>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
```

```
        <Errors></Errors>
        <Discards></Discards>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </OutputStatistics>
    </VPWSPW>
  </VPWSPWs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnVPWSEncaps
Table type	Multi-instance table
Row name	EvpnVPWSEncap
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection name	Index	String. Length: 1 to 20 characters.	N/A
LocalSrvID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteSrvID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PeerAddr	Peer address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
InputStatistics	Input statistcs	N/A	Members include: • Octets. • Packets. • Errors. • Discards.	N/A
OutputStatistics	Output statistics	N/A	Members include: • Octets. • Packets. • Errors.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Discards.	
Octets	Number of octets	N/A	Unsigned integer(64).	N/A
Packets	Number of packets	N/A	Unsigned integer(64).	N/A
Errors	Number of error packets	N/A	Unsigned integer(64).	N/A
Discards	Number of discarded packets	N/A	Unsigned integer(64).	N/A

EVPN/L3VNIStatistics

This table contains L3 VXLAN ID statistics information.

XML structure

```
<EVPN>
  <L3VNIStatistics>
    <StatisticsAll></StatisticsAll>
  </L3VNIStatistics>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	L3VNIStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StatisticsAll	All L3 VXLAN ID statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

EVPN/VPLSEncapsSRv6

This table contains information about EVPN VPLS with SRv6 encapsulation.

XML structure

```
<EVPN>
  <VPLSEncapsSRv6s>
    <VPLSEncapsSRv6>
      <VsiName></VsiName>
      <RD></RD>
      <SRv6Locator>
        <LocatorName></LocatorName>
        <Dt2uLocatorName></Dt2uLocatorName>
        <Dx2LocatorName></Dx2LocatorName>
        <Dx2lLocatorName></Dx2lLocatorName>
        <Dt2ulLocatorName></Dt2ulLocatorName>
        <AutoSid></AutoSid>
      </SRv6Locator>
      <SegmentRoutingIteration></SegmentRoutingIteration>
      <ETree></ETree>
      <TunnelPolicyName></TunnelPolicyName>
      <FrrLocal></FrrLocal>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <UnicastForwardingDx2></UnicastForwardingDx2>
      <Statistics></Statistics>
      <LocalSrvID></LocalSrvID>
      <RemoteSrvID></RemoteSrvID>
      <ForwardingPreferred></ForwardingPreferred>
      <BumForwardingDX2L></BumForwardingDX2L>
      <PwClassName></PwClassName>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <DefaultColor></DefaultColor>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
    </VPLSEncapsSRv6>
  </VPLSEncapsSRv6s>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPLSEncapsSRv6s

Item	Description
Table type	Multi-instance table
Row name	VPLSEncapsSRv6
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI before you merge, replace, or create SRv6 RDs, and the RDs are not auto in table VPLSEncapsSRv6.
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
SRv6Locator	Attributes of SRv6 locator	N/A	Members include: • LocatorName. • Dt2uLocatorName. • AutoSid.	N/A
LocatorName	Locator name	N/A	String. Length: 1 to 31 characters.	You must and only need to specify this column when you remove or delete the locator, and the Dt2uLocatorName column or AutoSid column is ignored.
Dt2uLocatorName	DT2U locator name	N/A	String. Length: 1 to 31 characters.	The column is available when the value of **LocatorName** is specified.
Dx2LocatorName	End.DX2 locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
Dx2lLocatorName	End.DX2L locator name	N/A	String. Length: 1 to 31 characters.	If this column is required, you must also specify the LocatorName column.
Dt2ulLocator	End.DT2UL	N/A	String.	If this column is required, you must

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	locator name		Length: 1 to 31 characters.	also specify the LocatorName column.
AutoSid	Status of automatic SID allocation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	The column is available when the value of **LocatorName** is specified.
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration(default). • **1**—Best effort. • **2**—Traffic engineering. • **3**—Traffic engineering and best effort, traffic engineering preferred.	N/A
ETree	Status of EVPN E-tree	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TunnelPolicyName	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
FrrLocal	Whether to enable local FRR for EVPN VPLS	N/A	Enumeration:. • **0**—Inherit. • **1**—enable. • **2**—disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVplsFrrLocal.
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63 characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
UnicastForwardingDx2	Whether to enable End.DX2 SID-based unicast forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Statistics	PW traffic statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Support for this column depends on the device model.
LocalSrvID	Local service ID	N/A	Unsigned integer. Value range: 4096 to 16777215.	N/A
RemoteSrvID	Remote service ID	N/A	Unsigned integer. Value range: 4096 to 16777215.	N/A
ForwardingPreferred	Whether to specify the EVPN VPWS PW as the preferred	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	forwarder			
BumForwardingDX2L	Whether to enable End.DX2L SID-based BUM forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PwClassName	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
UMR	Unknown MAC Route	N/A	Enumeration: • **1**—send enable. • **2**—receive enable. • **3**—send and receive • enable. • 4—send and detail-suppressed enable. • 5—send and detail-suppressed and receive enable.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
				value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/SRv6VplsRTs

This table contains information about EVPN route targets associated with VPLS.

XML structure

```
<EVPN>
  <SRv6VplsRTs>
    <SRv6VplsRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </SRv6VplsRT>
  </SRv6VplsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	SRv6VplsRTs
Table type	Multi-instance table
Row name	SRv6VplsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String.	You must create a

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	VSI and enable EVPN SRv6 encapsulation before you merge, replace, or create SRv6 RTs, and the RTs are not auto in table SRv6VplsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import. • **2**—Export.	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

EVPN/VPWSEncapsSRv6

This table contains information about EVPN VPWS with SRv6 encapsulation.

XML structure

```
<EVPN>
  <VPWSEncapsSRv6s>
    <VPWSEncapsSRv6>
      <XCGName></XCGName>
      <RD></RD>
      <SegmentRoutingIteration></SegmentRoutingIteration>
      <FrrLocal></FrrLocal>
      <ImportRoutePolicy></ImportRoutePolicy>
      <ExportRoutePolicy></ExportRoutePolicy>
      <FrrRemote></FrrRemote>
      <DefaultColor></DefaultColor>
     </VPWSEncapsSRv6>
  </VPWSEncapsSRv6s>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPWSEncapsSRv6s
Table type	Multi-instance table
Row name	VPWSEncapsSRv6

Item	Description
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	You must create a XCG before you merge, replace, or create SRv6 RDs, and the RDs are not auto in table VPWSEncapsSRv6.
RD	Route distinguisher	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration(default). • **1**—Best effort. • **2**—Traffic engineering. • **3**—Traffic engineering and best effort, traffic engineering preferred.	N/A
FrrLocal	Whether to enable local FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2**—disable.	When the value is 0, this column inherits the configuration of EVPN/base/MultihomingVpwsFrrLocal.
ImportRoutePolicy	Import routing policy	N/A	String. Length: 1 to 63 characters.	N/A
ExportRoutePolicy	Export routing policy	N/A	String. Length: 1 to 63 characters.	N/A
FrrRemote	Whether to enable remote FRR for EVPN VPWS	N/A	Enumeration:. • **0**—Inherit (default). • **1**—enable. • **2—**disable.	When the value is 0, this column inherits the configuration of EVPN/base/VpwsFrrRemote.
DefaultColor	Evpn default color ID	N/A	Unsigned integer(32).	N/A

EVPN/SRv6VpwsRTs

This table contains information about EVPN route targets associated with VPWS.

XML structure

```
<EVPN>
  <SRv6VpwsRTs>
    <SRv6VpwsRT>
      <XCGName></XCGName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </SRv6VpwsRT>
  </SRv6VpwsRTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	SRv6VpwsRTs
Table type	Multi-instance table
Row name	SRv6VpwsRT
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	N/A You must create a XCG and enable EVPN encapsulation SRv6 first before you merge, replace or create SRv6 RTs, and the RT is not auto in table SRv6VpwsRTs.
RTType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters.	N/A

			The format is ASN:nn or IP_address:nn	

EVPN/VPLSSRv6Peers

This table contains information about EVPN VPLS over SRv6 peers.This table supports only the get operation.

XML structure

```
<EVPN>
  <VPLSSRv6Peers>
    <VPLSSRv6Peer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
    </VPLSSRv6Peer>
  </VPLSSRv6Peers>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPLSSRv6Peers
Table type	Multi-instance table
Row name	VPLSSRv6Peer
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.
PeerAddr	Peer address	Index	String, dotted decimal notation.

EVPN/VPWSSRv6Peers

This table contains information about EVPN VPWS over SRv6 peers.This table supports only the get operation.

XML structure

```
<EVPN>
  <VPWSSRv6Peers>
```

```
    <VPWSSRv6Peer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
    </VPWSSRv6Peer>
  </VPWSSRv6Peers>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPWSSRv6Peers
Table type	Multi-instance table
Row name	VPWSSRv6Peer
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
XCGName	Cross-connect group name	Index	String. Length: 1 to 31 characters.
ConnectionName	Cross-connect name	Index	String. Length: 1 to 20 characters.
PeerAddr	Peer address	Index	String, dotted decimal notation.

EVPN/VPLSSRv6PeerINs

This table contains input traffic statistics about EVPN VPLS over SRv6 peers.This table supports only the get operation.

XML structure

```
<EVPN>
  <VPLSSRv6PeerINs>
    <VPLSSRv6PeerIN>
      <VsiName></VsiName>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
```

```
      </InputStatistics>
    </VPLSSRv6PeerIN>
  </VPLSSRv6PeerINs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPLSSRv6PeerINs
Table type	Multi-instance table
Row name	VPLSSRv6PeerIN
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.
InputStatistics	Input traffic statistcs	N/A	Members include: • Octets. • Packets. • Errors. • Discards.
Octets	Number of input octets	N/A	Unsigned integer(64).
Packets	Number of input packets	N/A	Unsigned integer(64).
Errors	Number of error packets	N/A	Unsigned integer(64).
Discards	Number of discarded packets	N/A	Unsigned integer(64).
OctetsRate	Rate of octets	N/A	Unsigned integer(64).
PacketsRate	Rate of packets	N/A	Unsigned integer(64).

EVPN/VPLSSRv6PeerOUTs

This table contains output traffic statistics about EVPN VPLS over SRv6 peers.This table supports only the get operation.

XML structure

```
<EVPN>
  <VPLSSRv6PeerOUTs>
    <VPLSSRv6PeerOUT>
```

```
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
      </OutputStatistics>
    </VPLSSRv6PeerOUT>
  </VPLSSRv6PeerOUTs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPLSSRv6PeerOUTs
Table type	Multi-instance table
Row name	VPLSSRv6PeerOUT
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.
PeerAddr	Peer address	Index	String, dotted decimal notation.
OutputStatistics	Output traffic statistics	N/A	Members include: • Octets. • Packets. • Errors. • Discards.
Octets	Number of output octets	N/A	Unsigned integer(64).
Packets	Number of output packets	N/A	Unsigned integer(64).
Errors	Number of error packets	N/A	Unsigned integer(64).
Discards	Number of discarded packets	N/A	Unsigned integer(64).
OctetsRate	Rate of octets	N/A	Unsigned integer(64).
PacketsRate	Rate of packets	N/A	Unsigned integer(64).

EVPN/VPWSSRv6PWs

This table contains traffic statistics about EVPN VPWS over SRv6 PWs.This table supports only the get operation.

XML structure

```
<EVPN>
  <VPWSSRv6PWs>
    <VPWSSRv6PW>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
      </OutputStatistics>
    </VPWSSRv6PW>
  </VPWSSRv6PWs>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	VPWSSRv6PWs
Table type	Multi-instance table
Row name	VPWSSRv6PW
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	Cross-connect group name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Cross-connect name	Index	String. Length: 1 to 20 characters.	N/A
PeerAddr	Peer address	Index	String, dotted decimal notation.	Example: 1::1.
InputStatistics	Input traffic statistics	N/A	Members include: • Octets. • Packets. • Errors. • Discards.	N/A
OutputStatistics	Output traffic statistics	N/A	Members include: • Octets. • Packets. • Errors. • Discards.	N/A
Octets	Number of octets	N/A	Unsigned integer(64).	N/A
Packets	Number of packets	N/A	Unsigned integer(64).	N/A
Errors	Number of error packets	N/A	Unsigned integer(64).	N/A
Discards	Number of discarded packets	N/A	Unsigned integer(64).	N/A
OctetsRate	Rate of octets	N/A	Unsigned integer(64).	N/A
PacketsRate	Rate of packets	N/A	Unsigned integer(64).	N/A

EVPN/EvpnBindings

This table contains EvpnBindings information.

XML structure

```
<EVPN>
  <EvpnBindings>
      <Encapsulation></Encapsulation>
      <Instance></Instance>
      <VsiTag></VsiTag>
  </EvpnBindings>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnBindings
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encapsulation	Encapsulation Type	N/A	Enumeration: • **1**—VXLAN. • **3**—MPLS. • **4**—SRv6.	N/A
Instance	EVPN Instance Name	N/A	String. Length: 1 to 31 characters.	N/A
VsiTag	Vsi Instance Tag ID	N/A	Unsigned integer Value range: 1 to 16777215.	The value range is depened on Encapsulation. Value range of VXLAN: 1 to 16777215. Value range of MPLS: 1 to 4094. Value range of SRv6: 1 to 4094.

EVPN/EvpnInstanceExtends

This table contains information about EVPN instances configurations.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnName></EvpnName>
      <EvpnMACMobility></EvpnMACMobility>
      <EvpnArpMobility></EvpnArpMobility>
```

```
      <EvpnNDMobility></EvpnNDMobility>
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnInstanceExtends
Table type	Multi-instance table
Row name	EvpnInstanceExtend
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnName	EVPN name	Index	String. Length: 1 to 31 characters.	You must create the evpn instance first.
EvpnMACMobility	MAC mobility	Sublist	N/A	N/A
EvpnArpMobility	Arp mobility	Sublist	N/A	N/A
EvpnNDMobility	ND mobility	Sublist	N/A	N/A

EVPN/EvpnInstanceExtends/EvpnMACMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN MAC Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnMACMobility>
        <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
```

```
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnMacMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.

EVPN/EvpnInstanceExtends/EvpnArpMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN Arp Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnArpMobility>
        <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnArpMobility>
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnArpMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

EVPN/EvpnInstanceExtends/EvpnNDMobility

This table is a sublist of EvpnInstanceExtends. This table contains information about EVPN ND Mobility.

XML structure

```
<EVPN>
  <EvpnInstanceExtends>
    <EvpnInstanceExtend>
      <EvpnNDMobility>
        <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnNDMobility>
    </EvpnInstanceExtend>
  </EvpnInstanceExtends>
</EVPN>
```

Table description

Item	Description
Feature name	EVPN
Table name	EvpnNDMobility
Table type	Single-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EvpnNDMobility Suppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when

Column name	Column description	Column type	Data type and restrictions	Remarks
				the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.

Contents

EVPNPing 1
EVPNPing/DisablePing 1
XML structure 1
Table description 1
Columns 1

EVPNPing

EVPNPing/DisablePing

Use this table to stop EVPN ping operations.

XML structure

```
<EVPNPing>
  <DisableEVPNPings>
    <DisableEVPNPing>
      <TestName></TestName>
    </DisableEVPNPing>
  </DisableEVPNPings>
</EVPNPing>
```

Table description

Item	Description
Feature name	EVPNPing
Table name	DisableEVPNPings
Table type	Multi-instance table
Row name	DisableEVPNPing
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TestName	EVPN Ping test name.	Index	String. Length: 1 to 31 characters.

Contents

LSPVPing ····· 1
EvpnVpwsPing event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 3
EvpnVplsPing event ····· 6
XML structure for event subscription ····· 6
XML structure for event report ····· 9

LSPVPing

EvpnVpwsPing event

This table is used to report ping information for an EVPN VPWS ping operation.

XML structure for event subscription

```
<EvpnVpwsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <XconnectGroupName></XconnectGroupName>
    <LocalServiceID></LocalServiceID>
    <RemoteServiceID></RemoteServiceID>
    <EndOPSID></EndOPSID>
    <Exp></Exp>
    <SourceIpv4Addr></SourceIpv4Addr>
    <SourceIpv6Addr></SourceIpv6Addr>
    <PacketsCount></PacketsCount>
    <HopLimitValue></HopLimitValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <TrafficClassValue></TrafficClassValue >
  </PingInfo>
</EvpnVpwsPingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
     <filter type="subtree">
      <EvpnVpwsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
        <PingInfo>
          <TestName></TestName>
          <XconnectGroupName></XconnectGroupName>
          <LocalServiceID></LocalServiceID>
          <RemoteServiceID></RemoteServiceID>
          <Exp></Exp>
          <SourceIpv4Addr></SourceIpv4Addr>
          <PacketsCount></PacketsCount>
          <HopLimitValue></HopLimitValue>
          <WaitTime></WaitTime>
          <ReplyMode></ReplyMode>
```

```
        <PacketSize></PacketSize>
        <TimerOut></TimerOut>
      </PingInfo>
    </EvpnVpwsPingEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	EVPNPing
Event name	EvpnVpwsPingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No
XconnectGroupName	Specify a cross-connect group	String. Length: 1 to 31 characters.	No
EndOPSID	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation.SRv6 only.	No
SourceIpv4Addr	Source Ipv4 address of echo requests.	Ipv4: String, dotted decimal notation.MPLS only.	No
SourceIpv6Addr	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation.SRv6 only.	No
LocalServiceID	Specify a local service ID	Unsigned integer. Value range: 1 to 16777215.	No
RemoteServiceID	Specify a Remote service ID	Unsigned integer. Value range: 1 to 16777215.	No
Exp	Specify an EXP value for echo requests.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
HopLimitValue	Hop Limit Value	Unsigned integer. Value range: 1 to 255.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		SRv6 only.	
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 4—Reply via an IPV4 UDP packet with router alert.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
TrafficClassValue	Traffic value of echo request.	Unsigned integer. Value range: 0 to 255. SRv6 only.	No

XML structure for event report

```
<EvpnVpwsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
  </PingInfo>
</EvpnVpwsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVpwsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <PacketSize></PacketSize>
      <ReplierIPAddr></ReplierIPAddr>
      <IcmpSequence></IcmpSequence>
      <ReplyTime></ReplyTime>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
    </PingInfo>
```

```
  </EvpnVpwsPingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<EvpnVpwsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <XconnectGroupName></XconnectGroupName>
    <LocalServiceID></LocalServiceID>
    <RemoteServiceID></RemoteServiceID>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</EvpnVpwsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVpwsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <XconnectGroupName></XconnectGroupName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <TestResult></TestResult>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <RepeatPacket></RepeatPacket>
      <TimeoutPacket></TimeoutPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </EvpnVpwsPingEvent >
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No
XconnectGroupName	Specify a cross-connect group	String. Length: 1 to 31 characters.	No
LocalServiceID	Specify a local service ID	Unsigned integer.	No
RemoteServiceID	Specify a Remote service ID	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No

Column name	Column description	Data type and restrictions	Support for extended queries
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

EvpnVplsPing event

This table is used to report ping information for an EVPN VPLS ping operation.

XML structure for event subscription

```
<EvpnVplsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <VsiName></VsiName>
    <MacAddr></MacAddr>
    <SourceIpv4Addr></SourceIpv4Addr>
    <EndOPSID></EndOPSID>
    <SourceIpv6Addr></SourceIpv6Addr>
    <ReplyTos></ReplyTos>
    <Exp></Exp>
    <PacketsCount></PacketsCount>
    <HopLimitValue></HopLimitValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <PacketSize></PacketSize>
```

```
    <TimerOut></TimerOut>
    <TrafficClassValue></TrafficClassValue>
    <Verbose></Verbose>
  </PingInfo>
</EvpnVplsPingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
    <filter type="subtree">
      <EvpnVplsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
        <PingInfo>
          <TestName></TestName>
           <VsiName></VsiName>
           <MacAddr></MacAddr>
           <SourceIpv4Addr></SourceIpv4Addr>
           <ReplyTos></ReplyTos>
           <Exp></Exp>
           <PacketsCount></PacketsCount>
           <HopLimitValue></HopLimitValue>
           <WaitTime></WaitTime>
           <ReplyMode></ReplyMode>
           <PacketSize></PacketSize>
           <TimerOut></TimerOut>
         </PingInfo>
      </EvpnVplsPingEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	EVPNPing
Event name	EvpnVplsPingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
VsiName	Specify a VSI name	String. Length: 1 to 31 characters.	No
MacAddr	MAC address	Mac:String, H-H-H-H-H-H	No
SourceIpv4Addr	Source Ipv4 address of echo requests.	Ipv4: String, dotted decimal notation. MPLS only.	No
SourceIpv6Addr	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation.SRv6 only.	No
EndOPSID	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation. SRv6 only.	No
ReplayTos	Specify the IP ToS value of echo replies.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
Exp	Specify an EXP value for echo requests.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
HopLimitValue	Hop Limit Value	Unsigned integer. Value range: 1 to 255	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 4—Reply via an IPV4 UDP packet with router alert.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
TrafficClassValue	Traffic value of echo request.	Unsigned integer. Value range: 0 to 255. SRv6 only.	No
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed	No

Column name	Column description	Data type and restrictions	Support for extended queries
		information MPLS only.	

XML structure for event report

```
<EvpnVplsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
  </PingInfo>
</EvpnVplsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVplsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <PacketSize></PacketSize>
      <ReplierIPAddr></ReplierIPAddr>
      <IcmpSequence></IcmpSequence>
      <ReplyTime></ReplyTime>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </EvpnVplsPingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No

Column name	Column description	Data type and restrictions	Support for extended queries
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<EvpnVplsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <VsiName></VsiName>
    <MacAddr></MacAddr>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</EvpnVplsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVplsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TestResult></TestResult>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <RepeatPacket></RepeatPacket>
```

```
      <TimeoutPacket></TimeoutPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </EvpnVplsPingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Ping test name.	String. Length: 1 to 64 characters.	No
VsiName	Specify a VSI name	String. Length: 1 to 31 characters.	No
MacAddr	MacAddress	MacAddress	MacAddress
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

Contents

EVPNTracert 1
EVPNTracert/DisableTracert 1
XML structure 1
Table description 1
Columns 1

EVPNTracert

EVPNTracert/DisableTracert

Use this table to stop EVPN tracert operations.

XML structure

```
<EVPNTracert>
  <DisableTracerts>
    <DisableTracert>
      <TestName></TestName>
    </DisableTracert>
  </DisableTracerts>
</EVPNTracert>
```

Table description

Item	Description
Feature name	EVPNTracert
Table name	DisableTracerts
Table type	Multi-instance table
Row name	DisableTracert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TestName	EVPN tracert test name.	Index	String. Length: 1 to 31 characters.

Contents

EVPNTracert 1
EvpnVpwsTracert event 1
XML structure for event subscription 1
XML structure for event report 3
EvpnVplsTracert event 5
XML structure for event subscription 6
XML structure for event report 8

EVPNTracert

EvpnVpwsTracert event

This table is used to report tracert information for an EVPN VPWS tracert operation.

XML structure for event subscription

```
<EvpnVpwsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <XconnectGroupName></XconnectGroupName>
    <LocalServiceID></LocalServiceID>
    <RemoteServiceID></RemoteServiceID>
    <EndOPSID></EndOPSID>
    <SourceIpv6Addr></SourceIpv6Addr>
    <Exp></Exp>
    <SourceIpv4Addr></SourceIpv4Addr>
    <HopLimitValue></HopLimitValue>
    <ReplyMode></ReplyMode>
    <TimerOut></TimerOut>
    <Ddmap></Ddmap>
    <FullLspPath></FullLspPath>
    <TrafficClassValue></TrafficClassValue>
  </TracertInfo>
</EvpnVpwsTracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <stream>LSPVTracert</stream>
    <filter type="subtree">
      <EvpnVpwsTracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
          <TestName></TestName>
          <XconnectGroupName></XconnectGroupName>
          <LocalServiceID></LocalServiceID>
          <RemoteServiceID></RemoteServiceID>
          <Exp></Exp>
          <SourceIpv4Addr></SourceIpv4Addr>
          <HopLimitValue></HopLimitValue>
          <ReplyMode></ReplyMode>
          <TimerOut></TimerOut>
          <Ddmap></Ddmap>
```

```
        <FullLspPath></FullLspPath>
      </TracertInfo>
    </EvpnVpwsTracertEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	EVPNTracert
Event name	EvpnVpwsTracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
XconnectGroupName	Specify a cross-connect group	String. Length: 1 to 31 characters.	No
SourceIpv4Addr	Source Ipv4 address of echo requests.	Ipv4: String, dotted decimal notation. MPLS only.	No
LocalServiceID	Specify a local service ID	Unsigned integer. Value range: 1 to 16777215	No
RemoteServiceID	Specify a Remote service ID	Unsigned integer. Value range: 1 to 16777215	No
EndOPSID	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation. SRv6 only.	No
SourceIpv6Addr	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation. SRv6 only.	No
Exp	Specify an EXP value for echo requests.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
HopLimitValue	Hop Limit Value	Unsigned integer. Value range: 1 to 255	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 4—Reply via an IPV4 UDP packet with router alert.	No

Column name	Column description	Data type and restrictions	Support for extended queries
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Ddmap	Add downstream detailed mapping.TLVs to MPLS echo packets	Boolean: ● **true**—Enabled. ● **false—**Disabled. MPLS only.	No
FullLspPath	Specify display full lsp path	Boolean: ● **true**—Enabled. ● **false—**Disabled. MPLS only.	No
TrafficClassValue	Traffic value of echo request.	Unsigned integer. Value range: 0 to 255. SRv6 only.	No

XML structure for event report

```
<EvpnVpwsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <HopValue></HopValue>
    <ReplierIPAddr></ReplierIPAddr>
    <ReplierIPv6Addr></ReplierIPv6Addr>
    <ReplyTime></ReplyTime>
    <Type></Type>
  </TracertInfo>
</EvpnVpwsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVpwsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
       <DownStreamAddr></DownStreamAddr>
      <DownStreamLabel></DownStreamLabel>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
    </TracertInfo>
```

```
  </EvpnVpwsTracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	IPv4: String, dotted decimal notation.	No
ReplierIPv6Addr	Address of the LSR that replied the request.	IPv6: String, dotted decimal notation.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR Type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
DownStreamAddr	Downstream interface address	IPv4: String, dotted decimal notation.	No
DownStreamLabel	Downstream label	Unsigned integer.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0 — The packet test succeeded. • other—The packet test failed.	No

```
<EvpnVpwsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <XconnectGroupName></XconnectGroupName>
    <LocalServiceID></LocalServiceID>
    <RemoteServiceID></RemoteServiceID>
    <TotalHopValue></TotalHopValue>
    <TestResult></TestResult>
  </TracertInfo>
```

```
</EvpnVpwsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVpwsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <XconnectGroupName></XconnectGroupName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <TotalHopValue></TotalHopValue>
      <TestResult></TestResult>
    </TracertInfo>
  </EvpnVpwsTracertEvent >
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
XconnectGroupName	Cross-connect group	String. Length: 1 to 31 characters.	No
LocalServiceID	Local service ID of the xconnect-group	Unsigned integer.	No
RemoteServiceID	Remote service ID of the xconnect-group	Unsigned integer.	No
TotalHopValue	Total hop count of the path	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Failed.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0 — The packet test succeeded. • other—The packet test failed.	No

EvpnVplsTracert event

This table is used to report tracert information for an EVPN VPLS tracert operation.

XML structure for event subscription

```
<EvpnVplsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <VsiName></VsiName>
    <MacAddr></MacAddr>
    <EndOPSID></EndOPSID>
    <SourceIpv6Addr></SourceIpv6Addr>
    <SourceIpv4Addr></SourceIpv4Addr>
    <ReplyTos></ReplyTos>
    <Exp></Exp>
    <HopLimitValue></HopLimitValue>
    <ReplyMode></ReplyMode>
    <TimerOut></TimerOut>
    <TrafficClassValue></TrafficClassValue>
  </TracertInfo>
</EvpnVplsTracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVTracert</stream>
    <filter type="subtree">
      <EvpnVpwsSrv6TracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
          <TestName></TestName>
          <VsiName></VsiName>
          <MacAddress></MacAddress>
          <SourceIpv4Addr></SourceIpv4Addr>
          <ReplyTos></ReplyTos>
          <Exp></Exp>
          <HopLimitValue></HopLimitValue>
          <ReplyMode></ReplyMode>
          <TimerOut></TimerOut>
        </TracertInfo>
      </EvpnVplsSrv6TracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	EVPNTracert
Event name	EvpnVplsTracertEvent

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
VsiName	Specify a VSI name	String. Length: 1 to 31 characters.	No
MacAddr	MAC address	Mac:String, H-H-H-H-H-H	No
SourceIpv6Addr	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation. SRv6 only.	No
EndOPSID	Source Ipv6 address of echo requests.	Ipv6: String, dotted decimal notation. SRv6 only.	No
SourceIpv4Addr	Source Ipv4 address of echo requests.	Ipv4: String, dotted decimal notation. MPLS only.	No
ReplayTos	Specify the IP ToS value of echo replies.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
Exp	Specify an EXP value for echo requests.	Unsigned integer. Value range: 0 to 7. MPLS only.	No
HopLimitValue	Hop Limit Value	Unsigned integer. Value range: 1 to 255	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 4—Reply via an IPV4 UDP packet with router alert.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
TrafficClassValue	Traffic value of echo request.	Unsigned integer. Value range: 0 to 255. SRv6 only.	No

XML structure for event report

```
<EvpnVplsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplierIPv6Addr></ReplierIPv6Addr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
   </TracertInfo>
</EvpnVplsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVplsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
    </TracertInfo>
  </EvpnVplsSrv6TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	Ipv4: String, dotted decimal notation.	No
ReplierIPv6Addr	Address of the LSR that replied the request.	Ipv6: String, dotted decimal notation.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR Type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0 — The packet test succeeded. • other—The packet test failed.	No

```
<EvpnVplsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <VsiName></VsiName>
    <MacAddr></MacAddr>
    <TotalHopValue></TotalHopValue>
    <TestResult></TestResult>
  </TracertInfo>
</EvpnVplsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <EvpnVplsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TotalHopValue></TotalHopValue>
      <TestResult></TestResult>
    </TracertInfo>
  </EvpnVplsTracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	EVPN Tracert test name.	String. Length: 1 to 64 characters.	No
VsiName	Specify a VSI name	String. Length: 1 to 31 characters.	No
MacAddr	MacAddress	MacAddress	MacAddress
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalHopValue	Total hop count of the path	Unsigned integer.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0 — The packet test succeeded. • other—The packet test failed.	No

Contents

FCFabric 1
FCFabric/SmartSANStatus 1
XML structure 1
Table description 1
Columns 1

FCFabric

FCFabric/SmartSANStatus

This table contains the status of Smart SAN for FC/FCoE and iSCSI.

XML structure

```
<FCFabric>
  <SmartSANStatus>
    <FCoEStatus></FCoEStatus>
     <iSCSIStatus></iSCSIStatus>
  </SmartSANStatus>
</FCFabric>
```

Table description

Item	Description
Feature name	FCFabric
Table name	SmartSANStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FCoEStatus	Status of Smart SAN for FC/FCoE.	N/A	Boolean: • true—Enabled. • false—Disabled(default).
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: • true—Enabled. • false—Disabled(default).

Contents

FCFabric 1
FCFabric/SmartSANStatus 1
XML structure 1
Table description 1
Columns 1

FCFabric

FCFabric/SmartSANStatus

This table contains the status of Smart SAN for FC/FCoE and iSCSI.

XML structure

```
<FCFabric>
  <SmartSANStatus>
    <FCoEStatus></FCoEStatus>
     <iSCSIStatus></iSCSIStatus>
  </SmartSANStatus>
</FCFabric>
```

Table description

Item	Description
Feature name	FCFabric
Table name	SmartSANStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FCoEStatus	Status of Smart SAN for FC/FCoE.	N/A	Boolean: • true—Enabled. • false—Disabled.
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: • true—Enabled. • false—Disabled.

Contents

FCLink 1
FCLink/PortEntryInfo 1
XML structure 1
Table description 1
Columns 1

FCLink

FCLink/PortEntryInfo

This table contains information about a port.

XML structure

```
<FCLink>
  <PortEntryInfo>
    <EntryInfo>
      <IfIndex></IfIndex>
      <PortWwn></PortWwn>
    </EntryInfo>
  </PortEntryInfo>
</FCLink>
```

Table description

Item	Description
Feature name	FCLink
Table name	PortEntryInfo
Table type	Multi-instance table
Row name	EntryInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PortWwn	WWN of the port.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.

Contents

FCZone 1
FCZone/ZoneStatus 1
XML structure 1
Table description 1
Columns 1

FCZone

FCZone/ZoneStatus

This table contains zone status information in a VSAN.

XML structure

```
<FCZone>
  <ZoneStatus>
    <StatusInfo>
      <VSANID></VSANID>
       <DefaultZoneStatus></DefaultZoneStatus>
       <Mode></Mode>
    </StatusInfo>
  </ZoneStatus>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ZoneStatus
Table type	Multi-instance table
Row name	StatusInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.
DefaultZoneStatus	Default zone status.	N/A	Enumeration: • 1—Deny(default). • 2—Permit.
Mode	Zoning mode.	N/A	Enumeration: • 1—Basic zoning(default). • 2—Enhanced zoning.

Contents

FCZone 1
FCZone/ZoneStatus 1
XML structure 1
Table description 1
Columns 1
FCZone/ActiveZones 2
XML structure 2
Table description 2
Columns 2
FCZone/ActiveZoneMembers 3
XML structure 3
Table description 3
Columns 4

FCZone

FCZone/ZoneStatus

This table contains zone status information in a VSAN.

XML structure

```
<FCZone>
  <ZoneStatus>
    <StatusInfo>
      <VSANID></VSANID>
       <DefaultZoneStatus></DefaultZoneStatus>
       <Mode></Mode>
    </StatusInfo>
  </ZoneStatus>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ZoneStatus
Table type	Multi-instance table
Row name	StatusInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
DefaultZoneStatus	Default zone status.	N/A	Enumeration: • 1—Deny. • 2—Permit.	N/A
Mode	Zoning mode.	N/A	Enumeration: • 1—Basic zoning. • 2—Enhanced zoning.	N/A

FCZone/ActiveZones

This table contains zone information about the active zone set in a VSAN.

XML structure

```
<FCZone>
  <ActiveZones>
    <ActiveZone>
      <VSANID></VSANID>
      <ZoneName></ZoneName>
      <ZoneSetName></ZoneSetName>
      <ZoneType></ZoneType>
    </ActiveZone>
  </ActiveZones>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ActiveZones
Table type	Multi-instance table
Row name	ActiveZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
ZoneName	Name of the zone.	Index	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols ($-^_).
ZoneSetNam e	Name of the zone set.	N/A	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a

Column name	Column description	Column type	Data type and restrictions	Remarks
				lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols ($-^_).
ZoneType	Zone type.	N/A	Enumeration: • 1—Base zone. • 2—Peer zone.	N/A

FCZone/ActiveZoneMembers

This table contains zone member information about the active zone set in a VSAN.

XML structure

```
<FCZone>
  <ActiveZoneMembers>
    <ActiveZoneMember>
      <VSANID></VSANID>
      <ZoneName></ZoneName>
      <ZoneMemberIndex></ZoneMemberIndex>
      <ZoneMemberLoginFlag></ZoneMemberLoginFlag>
      <ZoneMemberPrincipalFlag></ZoneMemberPrincipalFlag>
      <ZoneMemberType></ZoneMemberType>
      <ZoneMemberFCID></ZoneMemberFCID>
      <ZoneMemberWWN></ZoneMemberWWN>
      <ZoneMemberRole></ZoneMemberRole>
    </ActiveZoneMember>
  </ActiveZoneMembers>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ActiveZoneMembers
Table type	Multi-instance table
Row name	ActiveZoneMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
ZoneName	Name of the zone.	Index	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols ($-^_).
ZoneMemberIndex	Index of the zone member.	Index	Unsigned integer.	N/A
ZoneMemberLoginFlag	Whether the zone member can be found in the local name server database.	N/A	Boolean: • true. • false.	N/A.
ZoneMemberPrincipalFlag	Whether the zone member is a principal member in a peer zone.	N/A	Boolean: • true. • false.	This column is displayed only when the zone type is peer zone.
ZoneMemberType	Zone member type.	N/A	Enumeration: • 1—PWWN. • 3—FCID. • 6—FWWN.	N/A.
ZoneMemberFCID	FC address of the zone member.	N/A	Hexadecimal representation of the three bytes.	This column is displayed only when the ZoneMemberType column is 3. Example: 050012.
ZoneMemberWWN	WWN of the zone member.	N/A	Eight groups of two hexadecimal digits, colon-separated.	This column is displayed only when the ZoneMemberType column is 1 or 6. Example: 11:11:11:11:11:11:11:12.
ZoneMemberRole	Role of the zone member.	N/A	Enumeration: • 0—initiator and target. • 1—initiator. • 2—target.	N/A.

Contents

FDMI 1
FDMI/RDPInterval 1
XML structure 1
Table description 1
Columns 1

FDMI

FDMI/RDPInterval

This table contains configurations of the interval for sending RDP request packets.

XML structure

```
<FDMI>
  <RDPInterval>
    <Interval></Interval>
  </RDPInterval>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	RDPInterval
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval for sending RDP request packet	N/A	Unsigned integer. Value range: 5 to 1440.	The default value is 30 minutes.

Contents

FDMI 1
FDMI/HBAAttributes 1
XML structure 1
Table description 1
Columns 2
FDMI/PortAttributes 3
XML structure 3
Table description 4
Columns 4
FDMI/DiagnosticParameterDescriptors 7
XML structure 7
Table description 10
Columns 11
FDMI/RDPInterval 27
XML structure 27
Table description 27
Columns 27

FDMI

FDMI/HBAAttributes

This table contains the HBA(Host Bus Adapter) attribute descriptions.

XML structure

```
<FDMI>
  <HBAAttributes>
    <Attribute>
      <VSANID></VSANID>
      <HBAID></HBAID>
      <Manufacturer></Manufacturer>
      <SerialNumber></SerialNumber>
      <Model></Model>
      <ModelDescription></ModelDescription>
      <NodeName></NodeName>
      <NodeSymbolicName></NodeSymbolicName>
      <HardwareVersion></HardwareVersion>
      <DriverVersion></DriverVersion>
      <OptionROMVersion></OptionROMVersion>
      <FirmwareVersion></FirmwareVersion>
      <OSName></OSName>
      <MaxCTPayload></MaxCTPayload>
      <VendorID></VendorID>
      <VendorInformation></VendorInformation>
      <PortNumber></PortNumber>
      <FabricName></FabricName>
      <BootBIOSVersion></BootBIOSVersion>
      <BootBIOSState></BootBIOSState>
    </Attribute>
  </HBAAttributes>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	HBAAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
HBAID	HBA ID.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.
Manufacturer	Manufacturer of the HBA.	N/A	String. Length: 1 to 63 characters.	N/A
SerialNumber	Serial number of the HBA.	N/A	String. Length: 1 to 63 characters.	N/A
Model	Model of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
ModelDescription	Model description of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
NodeName	WWN of the node containing the HBA.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f5.
NodeSymbolicName	Node symbolic name.	N/A	String. Length: 1 to 255 characters.	N/A
HardwareVersion	Hardware version of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
DriverVersion	Version of the driver software.	N/A	String. Length: 1 to 255 characters.	N/A
OptionROMVersion	ROM version of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
FirmwareVersion	Version of the firmware.	N/A	String. Length: 1 to 255 characters.	N/A
OSName	Type and version of the operating system.	N/A	String. Length: 1 to 255 characters.	N/A
MaxCTPayload	Maximum CT payload.	N/A	Unsigned integer.	N/A
VendorID	Vendor identifier.	N/A	String. Length: 1 to 8characters.	This column contains the T10 vendor ID of the manufacturer of the HBA, or an OEM of the HBA.
VendorInformation	Vendor-specific information.	N/A	Unsigned integer.	N/A
PortNumber	Number of the Nx_Port on the HBA.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FabricName	Fabric name.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:01:00:e0:fc:a1:58:00 .
BootBIOSVersion	Boot BIOS version.	N/A	String. Length: 1 to 255 characters.	N/A
BootBIOSState	Boot BIOS state.	N/A	Enumeration: • 4294967295—Enabled. • 0—Disabled.	If the HBA provides a boot BIOS and the boot BIOS is enabled, the value of the Boot BIOS State attribute is set to FF FF FF FFh. If the HBA provides a boot BIOS and the boot BIOS is disabled, the value of the Boot BIOS State attribute is set to zero.

FDMI/PortAttributes

This table contains port attributes that are registered with the Name Server or HBA Management Server.

XML structure

```
<FDMI>
  <PortAttributes>
    <Attribute>
      <VSANID></VSANID>
      <HBAID></HBAID>
      <PortName></PortName>
      <PortSymbolicName></PortSymbolicName>
      <PortID></PortID>
      <PortType></PortType>
      <ServiceClass></ServiceClass>
      <SupportedFC4Types></SupportedFC4Types>
      <PortActiveFC4Types></PortActiveFC4Types>
      <SupportedSpeed></SupportedSpeed>
      <CurrentPortSpeed></CurrentPortSpeed>
      <MaximumFrameSize></MaximumFrameSize>
      <OSDeviceName></OSDeviceName>
      <HostName></HostName>
      <NodeName></NodeName>
      <PortFabricName></PortFabricName>
      <PortState></PortState>
      <DiscoveredPortNumber></DiscoveredPortNumber>
      <SmartSANServiceCategory></SmartSANServiceCategory>
      <SmartSANGUID></SmartSANGUID>
```

```
      <SmartSANVersion></SmartSANVersion>
      <SmartSANProductName></SmartSANProductName>
      <SmartSANPortInfomation></SmartSANPortInfomation>
      <SmartSANQoSSupport></SmartSANQoSSupport>
      <SmartSANSecuritySupport></SmartSANSecuritySupport>
      <SmartSANConnectedPorts></SmartSANConnectedPorts>
    </Attribute>
  </PortAttributes>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	PortAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
HBAID	HBA ID.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.
PortName	WWN of the port.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.
PortSymbolic Name	Symbolic name of the port.	N/A	String. Length: 1 to 255 characters.	N/A
PortID	FC address of the Port.	N/A	Hexadecimal representation of the three bytes.	Example: 020000.
PortType	Port type.	N/A	Unsigned integer.	• 0—Unidentified. • 1—N_Port. • 2—NL_Port. • 3—FL_Port/NL_Port. • 127—Nx_Port. • 129—F_Port. • 130—FL_Port. • 132—E_Port. • 133—B_Port. • Other—Unknown.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceClass	Supported class of service.	N/A	Each bit represents a type. As follows: • 1—Class F. • 2—Class 1. • 4—Class 2. • 8—Class 3. • 16—Class 4. • 64—Class 6. • Other—Unknown.	N/A
SupportedFC4Types	Supported FC-4 types.	N/A	Data transmission using Base64 encoding, decoding is as follows: Bitmap. Length: 256 bits. Each octet within this value specifies a set of eight types, with the first octet specifying types 0 through 7, the second octet specifying ports 8 through 15, etc. Within each octet, the most significant bit represents the lowest numbered type, and the least significant bit represents the highest numbered type.	N/A
PortActiveFC4Types	Active FC-4 types of the port.	N/A	Data transmission using Base64 encoding, decoding is as follows: Bitmap. Length: 256 bits. Each octet within this value specifies a set of eight types, with the first octet specifying types 0 through 7, the second octet specifying ports 8 through 15, etc. Within each octet, the most significant bit represents the lowest numbered type, and the least significant bit represents the highest numbered type.	N/A
SupportedSpeed	Supported speed.	N/A	Each bit represents a speed. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps. • 64—32 Gbps. • 128—20 Gbps. • 256—40 Gbps. • 32768—The speed has not been obtained or cannot be obtained.	Other values are reserved.

Column name	Column description	Column type	Data type and restrictions	Remarks
CurrentPortSpeed	Current port speed.	N/A	Each bit represents a speed. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps • 64—32 Gbps. • 128—20 Gbps. • 256—40 Gbps. • 32768—The speed has not been obtained or cannot be obtained.	Other values are reserved.
MaximumFrameSize	Maximum FC frame payload size.	N/A	Unsigned integer.	N/A
OSDeviceName	OS device name.	N/A	String. Length: 1to 255 characters.	N/A
HostName	Name of the host associated with the Nx_Port.	N/A	String. Length: 1to 255 characters.	N/A
NodeName	WWN of the node containing the port .	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.
PortFabricName	Port fabric name.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:01:00:e0:fc:a1:58:00.
PortState	Port state.	N/A	Unsigned integer.	N/A
DiscoveredPortNumber	Number of discovered ports.	N/A	Unsigned integer.	N/A
SmartSANServiceCategory	Smart SAN service category.	N/A	String. Length: 1to 255 characters	N/A
SmartSANGUID	Smart SAN globally unique identifier.	N/A	Five groups of hexadecimal digits, hyphen-separated. Format: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX	Example: 50014380-1209-54f5-5001-4380120954f4.
SmartSANVersion	Smart SAN version.	N/A	String. Length: 1to 255 characters	N/A
SmartSANProductName	Smart SAN product name (model).	N/A	String. Length: 1to 255 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartSANPortInfomation	Smart SAN port information.	N/A	Enumeration: • 1—Physical. • 2—NPIV. • 3—SRIOV. • Other—Unknown.	N/A
SmartSANQoSSupport	Smart SAN QoS support.	N/A	Enumeration: • 0—Not supported. • 1—Supported. • Other—Unknown.	N/A
SmartSANSecuritySupport	Smart SAN security support.	N/A	Enumeration: • 0—Not supported. • 1—Tier-1. • 2—Tier-2. • 3—Tier-3. • Other—Unknown.	N/A
SmartSANConnectedPorts	Smart SAN connected ports. For Host Port registration, this field will display the connected Target Port information. For Target Port registration, this field will display the connected Initiator Port information.	N/A	The combination of the WWNs of ports, blank-separated.	N/A

FDMI/DiagnosticParameterDescriptors

This table contains diagnostic parameter descriptors for the Fx_Port and Nx_Port.

XML structure

```
<FDMI>
  <DiagnosticParameterDescriptors>
    <Descriptor>
      <PortName></PortName>
      <NodeName></NodeName>
      <FabricPortName></FabricPortName>
      <FabricNodeName></FabricNodeName>
      <PortSpeed>
        <SpeedCapabilities></SpeedCapabilities>
        <OperatingSpeed></OperatingSpeed>
      </PortSpeed>
      <PortPhyType></PortPhyType>
```

```
<FCoELinkErrorStatusBlock>
  <FCoELinkFailureCount></FCoELinkFailureCount>
  <VirtualLinkFailureCount></VirtualLinkFailureCount>
  <MissingFIPCount></MissingFIPCount>
  <SymbolErrorCount></SymbolErrorCount>
  <ErroredBlockCount></ErroredBlockCount>
  <FCSErrorCount></FCSErrorCount>
</FCoELinkErrorStatusBlock>
<FCLinkErrorStatusBlock>
  <FCLinkFailureCount></FCLinkFailureCount>
  <LossOfSyncCount></LossOfSyncCount>
  <LossOfSignalCount></LossOfSignalCount>
  <ProtocolError></ProtocolError>
  <InvalidWord></InvalidWord>
  <InvalidCRCCount></InvalidCRCCount>
</FCLinkErrorStatusBlock>
<SFPDiagnosticsParameters>
  <SFPNotValid></SFPNotValid>
  <SFPTemperature></SFPTemperature>
  <SFPTempState></SFPTempState>
  <SFPTempHAlarm></SFPTempHAlarm>
  <SFPTempLAlarm></SFPTempLAlarm>
  <SFPTempHWarn></SFPTempHWarn>
  <SFPTempLWarn></SFPTempLWarn>
  <SFPVoltage></SFPVoltage>
  <SFPVoltageState></SFPVoltageState>
  <SFPVoltageHAlarm></SFPVoltageHAlarm>
  <SFPVoltageLAlarm></SFPVoltageLAlarm>
  <SFPVoltageHWarn></SFPVoltageHWarn>
  <SFPVoltageLWarn></SFPVoltageLWarn>
  <TxBias></TxBias>
  <TxBiasState></TxBiasState>
  <TxBiasHAlarm></TxBiasHAlarm>
  <TxBiasLAlarm></TxBiasLAlarm>
  <TxBiasHWarn></TxBiasHWarn>
  <TxBiasLWarn></TxBiasLWarn>
  <TxPower></TxPower>
  <TxPowerState></TxPowerState>
  <TxPowerHAlarm></TxPowerHAlarm>
  <TxPowerLAlarm></TxPowerLAlarm>
  <TxPowerHWarn></TxPowerHWarn>
  <TxPowerLWarn></TxPowerLWarn>
  <RxPower></RxPower>
  <RxPowerState></RxPowerState>
  <RxPowerHAlarm></RxPowerHAlarm>
  <RxPowerLAlarm></RxPowerLAlarm>
  <RxPowerHWarn></RxPowerHWarn>
  <RxPowerLWarn></RxPowerLWarn>
```

```
  <SFPPortTxType></SFPPortTxType>
  <SFPOpticalPort></SFPOpticalPort>
  <SFPConnectorType></SFPConnectorType>
  <SFPFECActive></SFPFECActive>
</SFPDiagnosticsParameters>
<QSFPDiagnosticsParameters>
  <QSFPNotValid></QSFPNotValid>
  <QSFPTemperature></QSFPTemperature>
  <QSFPTempState></QSFPTempState>
  <QSFPTempHAlarm></QSFPTempHAlarm>
  <QSFPTempLAlarm></QSFPTempLAlarm>
  <QSFPTempHWarn></QSFPTempHWarn>
  <QSFPTempLWarn></QSFPTempLWarn>
  <QSFPVoltage></QSFPVoltage>
  <QSFPVoltageState></QSFPVoltageState>
  <QSFPVoltageHAlarm></QSFPVoltageHAlarm>
  <QSFPVoltageLAlarm></QSFPVoltageLAlarm>
  <QSFPVoltageHWarn></QSFPVoltageHWarn>
  <QSFPVoltageLWarn></QSFPVoltageLWarn>
  <LaneIdentifierFlag></LaneIdentifierFlag>
  <LaneIdentifier></LaneIdentifier>
  <QSFPTxBiasHAlarm></QSFPTxBiasHAlarm>
  <QSFPTxBiasLAlarm></QSFPTxBiasLAlarm>
  <QSFPTxBiasHWarn></QSFPTxBiasHWarn>
  <QSFPTxBiasLWarn></QSFPTxBiasLWarn>
  <Lane0TxBias></Lane0TxBias>
  <Lane0TxBiasState></Lane0TxBiasState>
  <Lane1TxBias></Lane1TxBias>
  <Lane1TxBiasState></Lane1TxBiasState>
  <Lane2TxBias></Lane2TxBias>
  <Lane2TxBiasState></Lane2TxBiasState>
  <Lane3TxBias></Lane3TxBias>
  <Lane3TxBiasState></Lane3TxBiasState>
  <QSFPTxPowerHAlarm></QSFPTxPowerHAlarm>
  <QSFPTxPowerLAlarm></QSFPTxPowerLAlarm>
  <QSFPTxPowerHWarn></QSFPTxPowerHWarn>
  <QSFPTxPowerLWarn></QSFPTxPowerLWarn>
  <Lane0TxPower></Lane0TxPower>
  <Lane0TxPowerState></Lane0TxPowerState>
  <Lane1TxPower></Lane1TxPower>
  <Lane1TxPowerState></Lane1TxPowerState>
  <Lane2TxPower></Lane2TxPower>
  <Lane2TxPowerState></Lane2TxPowerState>
  <Lane3TxPower></Lane3TxPower>
  <Lane3TxPowerState></Lane3TxPowerState>
  <QSFPRxPowerHAlarm></QSFPRxPowerHAlarm>
  <QSFPRxPowerLAlarm></QSFPRxPowerLAlarm>
  <QSFPRxPowerHWarn></QSFPRxPowerHWarn>
```

```
      <QSFPRxPowerLWarn></QSFPRxPowerLWarn>
      <Lane0RxPower></Lane0RxPower>
      <Lane0RxPowerState></Lane0RxPowerState>
      <Lane1RxPower></Lane1RxPower>
      <Lane1RxPowerState></Lane1RxPowerState>
      <Lane2RxPower></Lane2RxPower>
      <Lane2RxPowerState></Lane2RxPowerState>
      <Lane3RxPower></Lane3RxPower>
      <Lane3RxPowerState></Lane3RxPowerState>
      <QSFPPortTxType></QSFPPortTxType>
      <QSFPOpticalPort></QSFPOpticalPort>
      <QSFPConnectorType></QSFPConnectorType>
      <QSFPFECActive></QSFPFECActive>
    </QSFPDiagnosticsParameters>
    <FECStatusDescriptor>
      <CorrectedBlocks></CorrectedBlocks>
      <UnCorrectableBlocks></UnCorrectableBlocks>
    </FECStatusDescriptor>
    <BufferCredit>
      <BBCredit></BBCredit>
      <AttachedBBCredit></AttachedBBCredit>
      <RoundTripTime></RoundTripTime>
    </BufferCredit>
    <OpticalProductData>
      <VendorName></VendorName>
      <Partnumber></Partnumber>
      <Serialnumber></Serialnumber>
      <Revision></Revision>
      <Date></Date>
    </OpticalProductData>
  </Descriptor>
 </DiagnosticParameterDescriptors>
</FDMI>
```


Table description

Item	Description
Feature name	FDMI
Table name	DiagnosticParameterDescriptors
Table type	Multi-instance table
Row name	Descriptor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortName	WWN of the port.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 28:05:00:e0:fc:f1:58:2a.
NodeName	WWN of the node containing the port.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:00:00:e0:fc:f1:e8:00.
FabricPortName	Name of a port on a node in the fabric.	N/A	Eight groups of two hexadecimal digits, colon-separated.	N/A
FabricNodeName	Name of a node in the fabric.	N/A	Eight groups of two hexadecimal digits, colon-separated.	This column takes effect only when the FabricPortName column is valid.
PortSpeed	Port speed descriptor.	Data structure	Members include: • SpeedCapabilities. • OperatingSpeed.	N/A
SpeedCapabilities	Port speed capabilities.	N/A	Each bit represents a port speed capability. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps. • 64—32 Gbps. • Other—Unknown.	N/A
OperatingSpeed	Port operating speed.	N/A	Each bit represents a port operating speed. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps. • 64—32 Gbps. • 32768—Speed not established. • Other—Unknown.	N/A
PortPhyType	Type of the physical interface for the PN_Port or PF_Port through which the RNID request was received.	N/A	Enumeration: • 0—No Information about Phy Type is provided. • 64—FC. • 128—VFC.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FCoELinkErrorStatusBlock	Link error status block format for FCoE	Data structure	Members include: • FCoELinkFailureCount. • VirtualLinkFailureCount. • MissingFIPCount. • SymbolErrorCount. • ErroredBlockCount. • FCSErrorCount.	This data structure takes effect only when the PortPhyType column is 128.
FCoELinkFailureCount	Number of link failures.	N/A	Unsigned integer.	N/A
VirtualLinkFailureCount	Number of Virtual Link failures.	N/A	Unsigned integer.	N/A
MissingFIPCount	Number of missing FIP keepalives or discovery advertisements.	N/A	Unsigned integer.	N/A
SymbolErrorCount	Number of symbol errors during carrier.	N/A	Unsigned integer.	N/A
ErroredBlockCount	Cumulative count of the events counted by the eight-bit errored blocks counter.	N/A	Unsigned integer.	N/A
FCSErrorCount	Number of frame check sequence errors.	N/A	Unsigned integer.	N/A
FCLinkErrorStatusBlock	Link error status block format for FC.	Data structure	Members include: • FCLinkFailureCount. • LossOfSyncCount. • LossOfSignalCount. • ProtocolError. • InvalidWord. • InvalidCRCCount.	This data structure takes effect only when the PortPhyType column is 64.
FCLinkFailureCount	Number of link failures.	N/A	Unsigned integer.	N/A
LossOfSyncCount	Number of loss-of-synchronization errors.	N/A	Unsigned integer.	N/A
LossOfSignalCount	Number of loss-of-signal errors.	N/A	Unsigned integer.	N/A
ProtocolError	Number of primitive sequence protocol errors.	N/A	Unsigned integer.	N/A
InvalidWord	Number of invalid	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	transmission words.			
InvalidCRCCount	Number of invalid CRC errors.	N/A	Unsigned integer.	N/A
SFPDiagnosticsParameters	SFP diagnostic parameters descriptor.	Data structure	Members include: • SFPNotValid. • SFPTemperature. • SFPTempState. • SFPTempHAlarm. • SFPTempLAlarm. • SFPTempHWarn. • SFPTempLWarn. • SFPVoltage. • SFPVoltageState. • SFPVoltageHAlarm. • SFPVoltageLAlarm. • SFPVoltageHWarn. • SFPVoltageLWarn. • TxBias. • TxBiasState. • TxBiasHAlarm. • TxBiasLAlarm. • TxBiasHWarn. • TxBiasLWarn. • TxPower. • TxPowerState. • TxPowerHAlarm. • TxPowerLAlarm. • TxPowerHWarn. • TxPowerLWarn. • RxPower. • RxPowerState. • RxPowerHAlarm. • RxPowerLAlarm. • RxPowerHWarn. • RxPowerLWarn. • SFPPortTxType. • SFPOpticalPort. • SFPConnectorType. • SFPFECActive.	Data structure of SFPDiagnosticsParameters and data structure of QSFPDiagnosticsParameters are mutual exclusive and only one of them can be set in a single message.
SFPNotValid	SFP diagnostic parameters not valid.	N/A	Enumeration: • 0—Valid. • 1—Invalid.	If the value is 1, the following columns are not valid: • SFPTemperature. • SFPTempState. • SFPTempHAlarm. • SFPTempLAlarm. • SFPTempHWarn. • SFPTempLWarn.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• SFPVoltage. • SFPVoltageState. • SFPVoltageHAlarm. • SFPVoltageLAlarm. • SFPVoltageHWarn. • SFPVoltageLWarn. • TxBias. • TxBiasState. • TxBiasHAlarm. • TxBiasLAlarm. • TxBiasHWarn. • TxBiasLWarn. • TxPower. • TxPowerState. • TxPowerHAlarm. • TxPowerLAlarm. • TxPowerHWarn. • TxPowerLWarn. • RxPower. • RxPowerState. • RxPowerHAlarm. • RxPowerLAlarm. • RxPowerHWarn. • RxPowerLWarn.
SFPTemperature	Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempState	Running state of temperature.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
SFPTempHAlarm	High alarm of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempLAlarm	Low alarm of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempHWarn	High warning of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempLW	Low warning of	N/A	Short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
arn	temperature.		Unit is 1/256 °C.	
SFPVoltage	Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageState	Running state of Voltage.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
SFPVoltageHAlarm	High alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageLAlarm	Low alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageHWarn	High warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageLWarn	Low warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
TxBias	Tx laser bias current.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasState	Running state of TxBias.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
TxBiasHAlarm	High alarm of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasLAlarm	Low alarm of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasHWarn	High warning of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasLWarn	Low warning of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TxPower	Tx output power.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerState	Running state of TxPower.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
TxPowerHAlarm	High alarm of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerLAlarm	Low alarm of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerHWarn	High warning of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerLWarn	Low warning of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPower	Received optical TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerState	Running state of RxPower.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
RxPowerHAlarm	High alarm of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerLAlarm	Low alarm of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerHWarn	High warning of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerLWarn	Low warning of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
SFPPortTxTy	Port tx type.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
pe			• 0—Other or unknown. • 1—Short Wave Laser. • 2—Long Wave Laser LC 1310nm. • 3—Long Wave Laser LL 1550nm.	
SFPOpticalPort	Optical port flag.	N/A	Enumeration: • 0—No. • 1—Yes.	If the value is 1, the FC_Port is an optical port. If the value is 0, the FC_Port is not an optical port.
SFPConnectorType	Connector type.	N/A	Enumeration: • 0—Other or unknown. • 64—SFP+. • Other—Reserved.	N/A
SFPFECActive	State of FEC active	N/A	Enumeration: • 0—16G FEC status is inactive or unknown. • 1—16G FEC is active.	N/A
QSFPDiagnosticsParameters	QSFP diagnostic parameters descriptor.	Data structure	Members include: • QSFPNotValid. • QSFPTemperature. • QSFPTempState. • QSFPTempHAlarm. • QSFPTempLAlarm. • QSFPTempHWarn. • QSFPTempLWarn. • QSFPVoltage. • QSFPVoltageState. • QSFPVoltageHAlarm. • QSFPVoltageLAlarm. • QSFPVoltageHWarn. • QSFPVoltageLWarn. • LaneIdentifierFlag. • LaneIdentifier. • QSFPTxBiasHAlarm. • QSFPTxBiasLAlarm. • QSFPTxBiasHWarn. • QSFPTxBiasLWarn. • Lane0TxBias. • Lane0TxBiasState. • Lane1TxBias. • Lane1TxBiasState. • Lane2TxBias. • Lane2TxBiasState. • Lane3TxBias. • Lane3TxBiasState. • QSFPTxPowerHAlarm.	Data structure of SFPDiagnosticsParameters and data structure of QSFPDiagnosticsParameters are mutual exclusive and only one of them can be set in a single message.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• QSFPTxPowerLAlarm. • QSFPTxPowerHWarn. • QSFPTxPowerLWarn. • Lane0TxPower. • Lane0TxPowerState. • Lane1TxPower. • Lane1TxPowerState. • Lane2TxPower. • Lane2TxPowerState. • Lane3TxPower. • Lane3TxPowerState. • QSFPRxPowerHAlarm. • QSFPRxPowerLAlarm. • QSFPRxPowerHWarn. • QSFPRxPowerLWarn. • Lane0RxPower. • Lane0RxPowerState. • Lane1RxPower. • Lane1RxPowerState. • Lane2RxPower. • Lane2RxPowerState. • Lane3RxPower. • Lane3RxPowerState. • QSFPPortTxType. • QSFPOpticalPort. • QSFPConnectorType. • QSFPFECActive.	
QSFPNotValid	Whether QSFP diagnostic parameters are valid.	N/A	Enumeration: • 0—Valid. • 1—Invalid.	If the value is 1, the following columns are invalid: • QSFPTemperature. • QSFPTempState. • QSFPTempHAlarm. • QSFPTempLAlarm. • QSFPTempHWarn. • QSFPTempLWarn. • QSFPVoltage. • QSFPVoltageState. • QSFPVoltageHAlarm. • QSFPVoltageLAlarm. • QSFPVoltageHWarn. • QSFPVoltageLWarn.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• LaneIdentifierFlag. • LaneIdentifier. • QSFPTxBiasHAlarm. • QSFPTxBiasLAlarm. • QSFPTxBiasHWarn. • QSFPTxBiasLWarn. • Lane0TxBias. • Lane0TxBiasState. • Lane1TxBias. • Lane1TxBiasState. • Lane2TxBias. • Lane2TxBiasState. • Lane3TxBias. • Lane3TxBiasState. • QSFPTxPowerHAlarm. • QSFPTxPowerLAlarm. • QSFPTxPowerHWarn. • QSFPTxPowerLWarn. • Lane0TxPower. • Lane0TxPowerState. • Lane1TxPower. • Lane1TxPowerState. • Lane2TxPower. • Lane2TxPowerState. • Lane3TxPower. • Lane3TxPowerState. • QSFPRxPowerHAlarm. • QSFPRxPowerLAlarm. • QSFPRxPowerHWarn. • QSFPRxPowerLWarn. • Lane0RxPower. • Lane0RxPowerState. • Lane1RxPower.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• Lane1RxPowerState. • Lane2RxPower. • Lane2RxPowerState. • Lane3RxPower. • Lane3RxPowerState.
QSFPTemperature	Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempState	Running state of Temperature.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPTempHAlarm	High alarm of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempLAlarm	Low alarm of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempHWarn	High warning of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempLWarn	Low warning of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPVoltage	Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltageState	Running state of Voltage.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPVoltageHAlarm	High alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltage	Low alarm of	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LAlarm	Voltage.		Unit is 100uV.	
QSFPVoltage HWarn	High warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltage LWarn	Low warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
LaneIdentifier Flag	Lane identifier validity flag.	N/A	Enumeration: • 0—Invalid. • 1—Valid.	If the value is 0, the LaneIdentifier column is not meaningful. If the value is 1, the single lane is indicated by the LaneIdentifier column.
LaneIdentifier	Lane identifier.	N/A	Enumeration: • 0—Lane 0. • 1—Lane 1. • 2—Lane 2. • 3—Lane 3.	This column takes effect only when the LaneIdentifierFlag column is 1, and the value decide which lane is valide about TxBias, TxBiasState, TxPower, TxPowerState,RxPower and RxPowerState.
QSFPTxBias HAlarm	High alarm of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBiasL Alarm	Low alarm of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBias HWarn	High warning of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBiasL Warn	Low warning of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane0TxBias	Tx laser bias current of lane 0.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane0TxBias State	Running state of TxBias of lane 0.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane1TxBias	Tx laser bias current of lane 1.	N/A	Unsigned short. Unit is 2uA.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane1TxBias State	Running state of TxBias of lane 1.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane2TxBias	Tx laser bias current of lane 2.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane2TxBias State	Running state of TxBias of lane 2.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane3TxBias	Tx laser bias current of lane 3.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane3TxBias State	Running state of TxBias of lane 3.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPTxPowerHAlarm	High alarm of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPTxPowerLAlarm	Low alarm of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPTxPowerHWarn	High warning of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPTxPowerLWarn	Low warning of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane0TxPower	Tx output power of lane 0.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0TxPowerState	Running state of TxPow of lane 0.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane1TxPower	Tx output power of lane 1.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane1TxPowerState	Running state of TxPow of lane 1.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane2TxPower	Tx output power of lane 2.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane2TxPowerState	Running state of TxPow of lane 2.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane3TxPower	Tx output power of lane 3.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane3TxPowerState	Running state of TxPow of lane 3.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	
QSFPRxPowerHAlarm	High alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerLAlarm	Low alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerHWarn	High warning of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerLWarn	Low warning of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0RxPower	Received optical power of lane 0.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0RxPowerState	Running state of RxPower of lane 0.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane1RxPower	Received optical power of lane 1.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane1RxPowerState	Running state of RxPower of lane 1.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane2RxPower	Received optical power of lane 2.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit is 0.1uW.	
Lane2RxPowerState	Running state of RxPower of lane 2.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
Lane3RxPower	Received optical power of lane 3.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane3RxPowerState	Running state of RxPower of lane 3.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPPortTxType	Port tx type.	N/A	Enumeration: • 0—Other or unknown. • 1—Short Wave Laser. • 2—Long Wave Laser LC.	N/A
QSFPOpticalPort	Optical port flag.	N/A	Enumeration: • 0—No. • 1—Yes.	If the value is 1, the FC_Port is an optical port. If the value is 0, the FC_Port is not an optical port.
QSFPConnectorType	Connector type.	N/A	Enumeration: • 0—Other or unknown. • 64—QSFP. • Other—Reserved.	N/A
QSFPFECActive	State of FEC active.	N/A	Enumeration: • 0—16G FEC status is inactive or unknown. • 1—16G FEC is active.	N/A
FECStatusDescriptor	FEC status descriptor.	Data structure	Members include: • CorrectedBlocks. • UnCorrectableBlocks.	N/A
CorrectedBloc	Number of FEC	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ks	encoding blocks reported as corrected by hardware.			
UnCorrectableBlocks	Number of FEC encoding blocks reported as uncorrectable by hardware.	N/A	Unsigned integer.	N/A
BufferCredit	Buffer Credit descriptor.	Data structure	Members include: • BBCredit. • AttachedBBCredit. • RoundTripTime.	N/A
BBCredit	FC_Port buffer-to-buffer credit.	N/A	Unsigned integer.	N/A
AttachedBBCredit	Attached FC_Port buffer-to-buffer credit.	N/A	Unsigned integer.	N/A
RoundTripTime	Nominal FC_Port RTT.	N/A	Unsigned integer.	A value of zero indicates the RTT is unknown and a non-zero value indicates the RTT of the link expressed in nanoseconds.
OpticalProductData	Optical Element Data Descriptor.	Data structure	Members include: • VendorName. • Partnumber. • Serialnumber. • Revision. • Date.	N/A
VendorName	Vendor name.	N/A	String. Length: 1 to 16 characters.	N/A
Partnumber	Vendor part number.	N/A	String. Length: 1 to 16 characters.	N/A
Serialnumber	Vendor serialn number.	N/A	String. Length: 1 to 16 characters.	N/A
Revision	Vendor revision.	N/A	String. Length: 1 to 2 characters.	N/A
Date	Vendor's manufacturing date code.	N/A	String. Length: 1 to 8 characters.	N/A

FDMI/RDPInterval

This table contains the interval for sending RDP request packets.

XML structure

```
<FDMI>
  <RDPInterval>
    <Interval></Interval>
  </RDPInterval>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	RDPInterval
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval for sending RDP request packet.	N/A	Unsigned integer. Value range: 5 to 1440.	N/A

Contents

FFILTER 1
FFILTER/Policy 1
XML structure 1
Table description 1
Columns 1
FFILTER/PolicyInProfile 1
XML structure 2
Table description 2
Columns 2
FFILTER/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
FFILTER/FGroup 4
XML structure 4
Table description 4
Columns 4
FFILTER/PatternInFGroup 4
XML structure 4
Table description 5
Columns 5
FFILTER/FalseExtensionAction 5
XML structure 5
Table description 5
Columns 6

FFILTER

FFILTER/Policy

This table contains file filter policie information.

XML structure

```
<FFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the file filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the file filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PolicyInProfile

This table contains file filter policies applied to the profile.

XML structure

```
<FFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

FFILTER/RuleInPolicy

This table contains information about rules in a file filter policy.

XML structure

```
<FFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <FGroupName></FGroupName>
      <Application></Application>
      <Direction></Direction>
```

```
      <Action></Action>
      <Logging></Logging>
    </Rule>
  </RuleInPolicy>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupName	Name of the file type group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: • 1—HTTP • 2—FTP • 4—SMTP • 8—IMAP • 16—POP3 • 32—NFS • 64—SMB • 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: • 0—upload • 1—download • 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: • 0—drop • 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: • true • false	N/A

FFILTER/FGroup

This table contains file filter file type group information.

XML structure

```
<FFILTER>
  <FGroups>
    <FGroup>
      <FGroupName></FGroupName>
      <FGroupDescription></FGroupDescription>
    </FGroup>
  </FGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FGroups
Table type	Multi-instance table
Row name	FGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupDescription	Description of the file type group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PatternInFGroup

This table contains information about pattern in a file filter file type group.

XML structure

```
<FFILTER>
  <PatternInFGroups>
    <PatternInFGroup>
      <FGroupName></FGroupName>
```

```
      <PatternName></PatternName>
      <PatternValue></PatternValue>
    </PatternInFGroup>
  </PatternInFGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PatternInFGroups
Table type	Multi-instance table
Row name	PatternInFGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternValue	Value of the pattern	N/A	String. Length: 1 to 8 characters.	N/A

FFILTER/FalseExtensionAction

This table contains information about the default action when the externsion name of file is false.

XML structure

```
<FFILTER>
  <FalseExtensionAction>
    <Action></Action>
  </FalseExtensionAction>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER

Table name	FalseExtensionAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Value of the action	N/A	Enumeration: • 0—permit • 1—drop	Default is 0.

Contents

FFILTER 1
FFILTER/Policy 1
XML structure 1
Table description 1
Columns 1
FFILTER/PolicyInProfile 1
XML structure 2
Table description 2
Columns 2
FFILTER/RuleInPolicy 2
XML structure 2
Table description 3
Columns 3
FFILTER/FGroup 4
XML structure 4
Table description 4
Columns 4
FFILTER/PatternInFGroup 4
XML structure 4
Table description 5
Columns 5
FFILTER/FalseExtensionAction 5
XML structure 5
Table description 5
Columns 6
FFILTER/FileTypes 6
XML structure 6
Table description 6
Columns 6

FFILTER

FFILTER/Policy

This table contains file filter policies information.

XML structure

```
<FFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the file filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the file filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PolicyInProfile

This table contains file filter policies applied to the profile.

XML structure

```
<FFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

FFILTER/RuleInPolicy

This table contains information about rules in a file filter policy.

XML structure

```
<FFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <FGroupName></FGroupName>
      <Application></Application>
      <Direction></Direction>
      <Action></Action>
```

```
      <Logging></Logging>
    </Rule>
  </RuleInPolicy>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupName	Name of the file type group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: • 1—HTTP • 2—FTP • 4—SMTP • 8—IMAP • 16—POP3 • 32—NFS • 64—SMB • 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: • 0—upload • 1—download • 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: • 0—drop • 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: • true • false	N/A

FFILTER/FGroup

This table contains file filter file type group information.

XML structure

```
<FFILTER>
  <FGroups>
    <FGroup>
      <FGroupName></FGroupName>
      <FGroupDescription></FGroupDescription>
    </FGroup>
  </FGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FGroups
Table type	Multi-instance table
Row name	FGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupDescription	Description of the file type group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PatternInFGroup

This table contains the information of pattern in a file filter file type group.

XML structure

```
<FFILTER>
  <PatternInFGroups>
    <PatternInFGroup>
      <FGroupName></FGroupName>
      <PatternName></PatternName>
```

```
    <PatternValue></PatternValue>
   </PatternInFGroup>
  </PatternInFGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PatternInFGroups
Table type	Multi-instance table
Row name	PatternInFGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternValue	Value of the pattern	N/A	String. Length: 1 to 8 characters.	N/A

FFILTER/FalseExtensionAction

This table contains information about the default action when the externsion name of file is false.

XML structure

```
<FFILTER>
  <FalseExtensionAction>
    <Action></Action>
  </FalseExtensionAction>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FalseExtensionAction
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Value of the action	N/A	Enumeration: • 0—permit • 1—drop	Default is 0.

FFILTER/FileTypes

This table contains the information of file types.

XML structure

```
<FFILTER>
  <FileTypes>
    <FileTypeInfo>
      <FileTypeName></FileTypeName>
      <PatternName></PatternName>
    </FileTypeInfo>
  </FileTypes>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FileTypes
Table type	Multi-instance table
Row name	FileTypeInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileTypeNam e	Name of the file type	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Contents

FFILTER 1
FFILTER/Policy 1
FFILTER/RuleInPolicy 1
FFILTER/FGroup 1

FFILTER

FFILTER/Policy

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
The default policy cannot be created. 默认策略不允许创建。	The default policy cannot be created. 默认策略不允许创建。
The default policy cannot be deleted. 默认策略不允许删除。	The default policy cannot be deleted. 默认策略不允许删除。
The default policy cannot be modified. 默认策略不允许修改。	The default policy cannot be modified. 默认策略不允许修改。
The policy is being used by a DPI application profile and cannot be deleted. 策略已被某个App-profile引用，不能被删除。	Policy cannot be deleted when it is being used by a DPI application profile. 不能删除被引用的策略。

FFILTER/RuleInPolicy

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
Maximum number of rules has already reached. 策略下的规则数目已达到上限。	The maximum number of rules has already reached. 可配置的规则数已达上限。

FFILTER/FGroup

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍等。	Please try later. 正在升级，稍后再试。
The default file type group is not allowed to create. 默认文件类型组不允许创建。	The default file type group can’t be created. 默认文件类型组不允许创建。
The default file type group cannot be deleted. 默认文件类型组不允许删除。	The default file type group cannot be deleted. 默认文件类型组不允许删除。
The default file type group cannot be used by a non-default policy. 默认文件类型组不允许被非默认策略引用。	The default file type group cannot be used by a non-default policy. 默认文件类型组不允许被非默认策略引用。
The default file type group cannot be modified. 默认文件类型组不允许修改。	The default file type group cannot be modified. 默认文件类型组不允许修改。

The file type group is being used by a rule and cannot be deleted. 文件类型组已被某个规则引用，不能被删除。	File type group can’t be deleted when it is used by a rule. 不能删除被引用的文件类型组。
The number of patterns has reached the maximum. 文件类型组下的文件类型数目已达到上限。	The number of patterns has reached the maximum. 可配置的文件类型数已达上限。

Contents

FileSystem 1
FileSystem/Files 1
XML structure 1
Table description 1
Columns 2
FileSystem/RecycleBin 3
XML structure 3
Table description 3
Columns 4
FileSystem/Media 4
XML structure 4
Table description 4
Columns 5
FileSystem/Partitions 5
XML structure 5
Table description 5
Columns 6

FileSystem

FileSystem/Files

This table describes the actions that can be performed to the file.

XML structure

```
<FileSystem>
  <Files>
    <File>
      <SrcName></SrcName>
      <DstName></DstName>
      <VRF></VRF>
      <Operations>
        <Delete></Delete>
        <UnReservedDelete></UnReservedDelete>
        <Copy></Copy>
        <Move></Move>
        <Rename></Rename>
        <Gzip></Gzip>
        <Gunzip></Gunzip>
        <sha256sum></sha256sum>
        <md5sum></md5sum>
        <MkDir></MkDir>
        <RmDir></RmDir>
      </Operations>
    </File>
  </Files>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Delete, UnReservedDelete, Copy, Move, Rename, More, Gzip, Gunzip, Sha256sum, Md5sum, MkDir and RmDir are mutually execlusive.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcName	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	Index	NameString Length: 1 to 4096 characters.	N/A
DstName	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg tftp://192.168.111.77/startup.cfg ftp://1:1@192.168.111.77/startup.cfg http://1.1.1.1/startup.cfg	N/A	NameString Length: 1 to 4096 characters.	N/A
VRF	The VRF name.	N/A	String. Length: 1 to 31 Characters.	If VRF is not specified, it is represented that host is on the public network.
Delete	Delete a file.	N/A	This column must be empty.	N/A
UnReservedDelete	Delete a file permanently.	N/A	This column must be empty.	N/A
Copy	Copy a file.	N/A	This column must be empty. DstName column must not be empty.	N/A
Move	Move a file.	N/A	This column must be empty. DstName column must not be empty.	N/A
Rename	Rename a file or directory.	N/A	This column must be empty. DstName column must not be empty.	N/A
Gzip	Compress file.	N/A	This column must be empty. DstName column must be empty.	N/A
Gunzip	Decompress file.	N/A	This column must be empty. DstName column must be empty.	N/A
Sha256sum	Compute the hash digest of a file using the SHA256	N/A	This column must be empty. DstName column must be	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm.		empty.	
Md5sum	Compute the hash digest of a file using the MD5 algorithm.		This column must be empty. DstName column must be empty.	N/A
MkDir	Create a new directory.	N/A	This column must be empty. DstName column must be empty.	N/A
RmDir	Remove an empty directory.	N/A	This column must be empty. DstName column must be empty.	N/A

FileSystem/RecycleBin

This table describes the actions that can be performed to the file under recycle-bin.

XML structure

```
<FileSystem>
  <RecycleBin>
    <RecycleBinFile>
      <Name></Name>
      <Operations>
        <Undelete></Undelete>
        <Clear></Clear>
      </Operations>
    </RecycleBinFile>
  </RecycleBin>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	RecycleBin
Table type	Multi-instance table
Row name	RecycleBinFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	Index	String. Length: 1 to 4096 characters.
Undelete	Recover a deleted file.	N/A	This column must be empty.
Clear	Delete a deleted file permanently.	N/A	This column must be empty.

FileSystem/Media

This table describes the actions that can be performed to the media.

XML structure

```
<FileSystem>
  <Media>
    <Medium>
      <Name></Name>
      <Fdisk></Fdisk>
      <Part1Size></Part1Size>
      <Part2Size></Part2Size>
      <Part3Size></Part3Size>
      <Part4Size></Part4Size>
    </Medium>
  </Media>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Media
Table type	Multi-instance table
Row name	Medium
Restrictions	Part1Size, Part2Size, Part3Size and Part4Size should be assigned in order. It is not permitted to assign Part2Size without Part1Size.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Storage medium name. For examples: flash: chassis3#slot1#cfa:	Index	String. Length: 1 to 255 characters.
Fdisk	Partition a storage medium.	N/A	This column must be empty.
Part1Size	The size of partition1. Unit: Mbyte.	Unsigned integer.	N/A
Part2Size	The size of partition2. Unit: Mbyte.	Unsigned integer.	N/A
Part3Size	The size of partition3. Unit: Mbyte.	Unsigned integer.	N/A
Part4Size	The size of partition4. Unit: Mbyte.	Unsigned integer.	N/A

FileSystem/Partitions

XML structure

```
<FileSystem>
  <Partitions>
    <Partition>
      <Name></Name>
      <Operations>
        <Format></Format>
        <FixDisk></FixDisk>
        <Umount></Umount>
        <Mount></Mount>
      </Operations>
    </Partition>
  </Partitions>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem

Table name	Partitions
Table type	Multi-instance table
Row name	Partition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Storage medium partition name. For examples: flash: chassis3#slot1#cfa0:	Index	String. Length: 1 to 255 characters.
Format	Format a storage medium partition.	N/A	This column must be empty.
FixDisk	Check and repair a storage medium partition.	N/A	This column must be empty.
Umount	Unmount a storage medium partition.	N/A	This column must be empty.
Mount	Mount a storage medium partition.	N/A	This column must be empty.

Contents

FileSystem 1
FileSystem/Files 1
XML structure 1
Table description 1
Columns 1
FileSystem/RecycleBin 2
XML structure 2
Table description 2
Columns 3
FileSystem/Media 3
XML structure 3
Table description 3
Columns 3
FileSystem/Partitions 4
XML structure 4
Table description 4
Columns 4

FileSystem

FileSystem/Files

This table contains the file information.

XML structure

```
<FileSystem>
  <Files>
    <File>
      <Name></Name>
      <Path></Path>
      <Size></Size>
      <Time></Time>
      <IsDirectory></IsDirectory>
    </File>
  </Files>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Fully qualified name of a directory or file	Index	String, case insensitive. Length: 1 to 4096 characters.	Examples: • flash:/logfile/logfile.log • chassis3#slot1#cfa0:/main.cfg

Column name	Column description	Column type	Data type and restrictions	Remark
Path	Absolute path to the file	N/A	String, case insensitive. Length: 1 to 4096 characters.	Examples: • flash:/logfile • chassis3#slot1#cfa0:
Size	File size in bytes	N/A	Unsigned integer. Value range: 0 to2^{64}- 1.	N/A
Time	Latest modification time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
IsDirectory	Whether the Name column carries a directory	N/A	Boolean: • true • false	N/A

FileSystem/RecycleBin

This Table contains recycle bin files information.

XML structure

```
<FileSystem>
  <RecycleBin>
    <RecycleBinFile>
      <Medium></Medium>
      <TrashFiles>
        <FileName></FileName>
      </TrashFiles>
    </RecycleBinFile>
  </RecycleBin>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	RecycleBin
Table type	Multi-instance table
Row name	RecycleBinFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Medium	File system name	Index	String. Length: 1 to 255 characters.	Examples: • chassis2#slot1#flash: • chassis1#slot2#cfa0:
TrashFiles	Files in the recycle bin	Data structure	Members: FileName	N/A
FileName	File name.	N/A	String, case insensitive. Length: 1 to 4096 characters.	Examples: • logfile/logfile.log • main.cfg

FileSystem/Media

This Table contains medium information.

XML structure

```
<FileSystem>
  <Media>
    <Medium>
      <Name></Name>
      <PartitionCapability></PartitionCapability>
    </Medium>
  </Media>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Media
Table type	Multi-instance table
Row name	Medium
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Storage medium name	Index	String. Length: 1 to 255 characters.	Examples: • chassis2#slot1#flash: • chassis1#slot2#cfa:
PartitionCapability	Whether the medium can be partitioned	N/A	Boolean: • true • false	N/A

FileSystem/Partitions

This Table contains partition information.

XML structure

```
<FileSystem>
  <Partitions>
    <Partition>
      <Name></Name>
      <Total></Total>
      <Used></Used>
      <Free></Free>
      <Bootable></Bootable>
      <MountState></MountState>
    </Partition>
  </Partitions>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Partitions
Table type	Multi-instance table
Row name	Partition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Partition name	Index	String.	Examples:

Column name	Column description	Column type	Data type and restrictions	Remark
			Length: 1 to 255 characters.	• chassis2#slot1#flash: • chassis1#slot2#cfa0:
Total	Total size of the partition in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
Used	Used size of the partition in bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64}- 1.	N/A
Free	Available size of the partition in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}- 1.	N/A
Bootable	Whether the partition is the startup partition	N/A	Boolean: • true • false	N/A
MountState	Whether the partition is mounted	N/A	Boolean: • true • false	If the value of this column is false, only this column and the Name column can be read.

Contents

FileSystem 2
FileSystem/Files 2
FileSystem/Media 3
FileSystem/Partitions 4

FileSystem

FileSystem/Files

Message	Explanation
The destination file name can’t be the same as the source file name. 目标文件名不能与源文件名相同。	During executing copy or move operation, the destination file name must not be the same as the source file name. 目标文件名不能与源文件名相同。
Permission denied. 权限不足。	During executing copy, move, delete or rename operation, user lacks permissions. 权限不足。
The file or directory doesn't exist. 文件或目录不存在。	During executing copy, move, delete or rename operation on a file or directory, the file or directory doesn't exist. 源文件或目标文件目录不存在。
Insufficient storage or disk space. 存储空间不足或者磁盘资源不足。	During executing copy or move operation, insufficient storage or disk space. 存储空间不足或者磁盘资源不足，拷贝失败。
Wrong file name or directory name. Please check. 文件名(或目录名)错误，请检查。	During executing rename operation, the source file name and the destination file name must not end with ‘\’. 文件名(或目录名)错误，请检查。
SrcName and DstName are not in the same directory. 源文件名和目标文件名中的路径不同。	During executing rename operation, the source file and the destination file must in the same parent directory. 重命名操作的源文件和目标文件路径必须相同。
The destination file name is already used. 目标文件名已经被使用。	During executing rename operation, the destination file name must not be used. 重命名操作的目标文件名已被使用。
The directory already exists. 该目录已经存在。	During executing make directory operation, the directory must not exist. 新创建的目录已经存在。
The parent directory doesn't exist. 指定目录不存在。	During executing make directory operation, the parent directory doesn't exist. 新创建目录路径错误，父目录不存在。
A file with the same name already exists. 已存在同名文件。	During executing make directory operation, the directory must not be the same as an exist file. 新创建目录名不能和已存在的文件重名。
Can't remove the directory because it is not empty. 目录非空，无法删除。	During executing delete directory operation, the directory must be empty. 目录非空，无法删除。
Can't execute this command. The security log file is already saved in the storage medium. 不能执行该命令，安全日志文件已经保存在该存储介质。	Before partition a storage device, delete all the saved security log files first. 安全日志文件所在存储介质不能做分区操作。
Please use 'RmDir' to remove the directory. 请使用RmDir删除文件夹。	The directory can't be deleted by ‘Delete’ operation, but ‘RmDir’. 删除目录需要用‘RmDir’命令。

Can't overwrite directory %s with non-directory %s. 不能将目录文件%s改写为非目录文件%s”。	During executing copy or move operation, the destination file name must not be the same as an exist directory. 不能拷贝目录文件到非目录文件。
DstName is not required for this operation. 该操作无需指定DstName列的值。	The ‘DstName’ must not be set in operation ‘Delete’,’ UnReservedDelete’, ‘Gzip’, ‘Gunzip’,‘Sha256sum’,’Md5sum’,’MkDir’ and ’Rmdir’. ‘Delete’,’ UnReservedDelete’, ‘Gzip’, ‘Gunzip’,‘Sha256sum’,’Md5sum’,’MkDir’ 和 ’Rmdir’等操作不能有’DstName’参数。
Please enter a value for the DstName column. 请输入DstName列的值	The ‘DstName’ must be set in operation ‘Copy’, ‘Move’, ‘Rename’,‘Sha256sum’,’Md5sum’,’MkDir’ and ’Rmdir’. ‘Copy’, ‘Move’, ‘Rename’,‘Sha256sum’,’Md5sum’,’MkDir’ 和 ’Rmdir’等操作必须有’ DstName’参数。
Operation failed. Curl unsupported protocol. 操作失败，Curl不支持的协议类型。	Failed to copy file through network, unsupported protocol. 文件URL协议不支持，获取文件失败。
Operation failed. Remote server login denied. 操作失败，登录服务器失败，用户名或密码错误。	Failed to copy file through network, wrong user name or password. 用户名或密码错误，登录服务器失败。
Operation failed. Remote file or directory not found. 操作失败，远端服务器文件或目录不存在。	Failed to copy file through network, remote file or directory not found. 远端服务器文件或目录不存在，下载失败。
Operation failed. Remote server can't connect. 操作失败，远端服务器不可达。	Failed to copy file through network, remote server can't connect. 远端服务器不可达。
Invalid VPN name. 不可用的VPN名字。	Failed to copy file through network, invalid VPN name. 不可用的VPN名字。
Invalid URL. 不可用的URL。	Failed to copy file through network, invalid URL. 无效URL。

FileSystem/Media

Message	Explanation
Storage device error. 存储设备错误。	Can't read storage device. 解析存储设备失败。
The storage space is too small to partition. 存储空间太小，无法分区。	Do not need to partition. 存储空间太小，无法分区。
The partition size must be greater than or equal to %dMB. 新建分区大小必须大于等于%dMB.	The partition size is set too small. 新建分区大小必须大于等于系统设定的最小值。
The partition size must be less than or equal to %uMB. 新建分区大小必须小于等于%uMB.	The partition size is set too big. 新建分区大小必须大小于等于系统设定的最大值。
The remaining space is less than %uMB. 剩余空间不足%uMB。	The remaining space is not enough. 存储设备剩余空间不足。

FileSystem/Partitions

Message	Explanation
The storage device is being used and locked by another process. 设备正在使用中，已被其他进程加锁。	Wait for the storage device to be released. 设备正在使用中，已被其他进程加锁。
Operation failed. The device is in use and locked by another process. 操作失败。此分区正在使用中。	Operation failed, wait for the storage device to be released. 操作失败。此分区正在使用中。

Contents

flowspec 1

flowspec/flow-routes 1
XML structure 1
Table description 2
Columns 2
flowspec/applys 5
XML structure 5
Table description 5
Columns 5
flowspec/applys/apply/interface-groups 6
XML structure 6
Table description 6
Columns 6
flowspec/InterfaceGroups 6
XML structure 6
Table description 7
Columns 7
flowspec/InterfaceGroups/InterfaceGroup/Interfaces 7
XML structure 7
Table description 7
Columns 8

flowspec

flowspec/flow-routes

This table contains information about Flowspec route.

XML structure

```
<flowspec>
  <flow-routes>
    <flow-route>
      <address-family></address-family>
      <name></name>
      <rule>
        <protocol></protocol>
        <source-address></source-address>
        <source-mask-length></source-mask-length>
        <destination-address></destination-address>
        <destination-mask-length></destination-mask-length>
        <port></port>
        <source-port></source-port>
        <destination-port></destination-port>
        <icmp-type></icmp-type>
        <icmp-code></icmp-code>
        <dscp></dscp>
        <fragment-type></fragment-type>
        <fragment-match></fragment-match>
        <packet-length></packet-length>
        <tcp-flags></tcp-flags>
        <tcp-flags-match></tcp-flags-match>
        <tcp-flags-match-any></tcp-flags-match-any>
        <flow-label></flow-label>
      </rule>
      <action>
        <traffic-rate></traffic-rate>
        <remark-dscp></remark-dscp>
        <redirect-vpn-target></redirect-vpn-target>
        <redirect-nexthop></redirect-nexthop>
        <copy-mode></copy-mode>
        <color></color>
        <sid></sid>
        <sid-prefix-length></sid-prefix-length>
        </action>
      <route-target-list>
        <route-target></route-target>
      </route-target-list>
```

```
      </flow-route>
    </flow-routes>
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	flow-routes
Table type	Multi-instance table
Row name	flow-route
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-family	Address family	Index	Enumeration: • ipv4. • ipv6.	N/A
name	Flow route name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
protocol	Protocol	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
source-address	Source address to match	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
source-mask-length	Source address mask length	N/A	Unsigned integer. Value range: 0 to 128.	
destination-address	Destination address to match	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
destination-mask-length	Destination address mask length	N/A	Unsigned integer. Value range: 0 to 128.	
port	Match source port or destination port	N/A	Number string. It is a comma-separated list of value items. An item can be an	Example: 1,3-4,6. The value range is 0 to 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
			individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	
source-port	Source port to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.
destination -port	Destination port to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.
icmp-type	ICMP type to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
icmp-code	ICMP code to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
dscp	Dscp to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 63.
fragment-type	Fragment type to match	N/A	Enumeration: • DF—Don't fragment. • IsF—Is a fragment. • FF—First fragment.	N/A
fragment-mat ch	Whether to match fragment type	N/A	Boolean: • true(default) • false	N/A
packet-length	Packet length to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
tcp-flags	TCP flag to match	N/A	Unsigned integer. Value range: 0 to 63.	N/A
tcp-flags-match	Whether to match TCP flag	N/A	Boolean: • true(default) • false	N/A
tcp-flags-match-any	Whether to match any TCP flag	N/A	Boolean: • true • false(default)	N/A
flow-label	Flow label to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 1048575.
traffic-rate	Traffic rate limit	N/A	Unsigned integer. Value range: 0 to 100000000.	N/A
remark-dscp	DSCP marking	N/A	Unsigned integer. Value range: 0 to 63.	N/A
redirect-vpn-target	Redirect to VPN target	N/A	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1:1.
redirect-nexthop	Redirect to next hop	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
copy-mode	Redirect copies of the matching packets	N/A	Boolean: • true • false(default)	
color	The color of the SR-TE policy	N/A	String. Length: 4 to 13 characters. • The format is CO<00-11,binary>:Color<0-4294967295>	Example:00:123
sid	The segment identifier of the SRv6 egress node	N/A	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
sid-prefix-length	Length of the SID prefix part	N/A	Unsigned integer. Value range: 32 to 120.	N/A
route-target-list	Route target	Data structure	Members include: • **route-target**.	N/A
route-target	Route target	N/A	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 10:10 or 192.168.1.1:1.

flowspec/applys

This table contains information about Flow routes applied to a BGP instance.

XML structure

```
<flowspec>
  <applys>
    <apply>
      <address-family></address-family>
      <vrf></vrf>
      <flow-route-name></flow-route-name>
      <interface-groups>
        <interface-group>
         <GroupID></GroupID>
        </interface-group>
      </interface-groups>
    </apply>
  </applys>
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	applys
Table type	Multi-instance table
Row name	apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-family	Address family	Index	Enumeration: • ipv4. • ipv6.	N/A
vrf	VRF name.	Index	String, case-sensitive. Length: 0 to 31 characters.	A null string indicates the public instance.
flow-route-name	Flow route name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

flowspec/applys/apply/interface-groups

This table contains information about Flow routes associated with interface-groups to a BGP instance.

XML structure

Please refer to the XML structure of flowspec/applys.

Table description

Item	Description
Feature name	flowspec
Table name	interface-groups
Table type	Multi-instance table
Row name	interface-group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Interface group ID	Index	Unsigned integer.	N/A

flowspec/InterfaceGroups

This table contains information about interface groups.

XML structure

```
<flowspec>
  <InterfaceGroups>
    <InterfaceGroup>
      <GroupID></GroupID>
      <Description></Description>
      <Interfaces>
        <Interface>
         <IfName></IfName>
        </Interface>
      </Interfaces>
    </InterfaceGroup>
  </InterfaceGroups>
```

```
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	InterfaceGroups
Table type	Multi-instance table
Row name	InterfaceGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Interface group ID	Index	• Unsigned integer.	N/A
Description	Interface group description	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A

flowspec/InterfaceGroups/InterfaceGroup/Interfaces

This table contains information about the interface of the interface groups.

XML structure

Please refer to the XML structure of flowspec/InterfaceGroups.

Table description

Item	Description
Feature name	flowspec
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. • Length: 1 to 47 characters.	N/A

Contents

flowspec 1

flowspec/flow-routes 1
XML structure 1
Table description 2
Columns 2
flowspec/applys 5
XML structure 5
Table description 5
Columns 5
flowspec/applys/apply/interface-groups 6
XML structure 6
Table description 6
Columns 6
flowspec/InterfaceGroups 6
XML structure 6
Table description 7
Columns 7
flowspec/InterfaceGroups/InterfaceGroup/Interfaces 7
XML structure 7
Table description 7
Columns 8

flowspec

flowspec/flow-routes

This table contains information about Flow routes.

XML structure

```
<flowspec>
  <flow-routes>
    <flow-route>
      <address-family></address-family>
      <name></name>
      <rule>
        <protocol></protocol>
        <source-address></source-address>
        <source-mask-length></source-mask-length>
        <destination-address></destination-address>
        <destination-mask-length></destination-mask-length>
        <port></port>
        <source-port></source-port>
        <destination-port></destination-port>
        <icmp-type></icmp-type>
        <icmp-code></icmp-code>
        <dscp></dscp>
        <fragment-type></fragment-type>
        <fragment-match></fragment-match>
        <packet-length></packet-length>
        <tcp-flags></tcp-flags>
        <tcp-flags-match></tcp-flags-match>
        <tcp-flags-match-any></tcp-flags-match-any>
        <flow-label></flow-label>
      </rule>
      <action>
        <traffic-rate></traffic-rate>
        <remark-dscp></remark-dscp>
        <redirect-vpn-target></redirect-vpn-target>
        <redirect-nexthop></redirect-nexthop>
        <copy-mode></copy-mode>
        <color></color>
        <sid></sid>
        <sid-prefix-length></sid-prefix-length>
      </action>
      <route-target-list>
        <route-target></route-target>
      </route-target-list>
```

```
    </flow-route>
    </flow-routes>
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	flow-routes
Table type	Multi-instance table
Row name	flow-route
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-family	Address family	Index	Enumeration: • ipv4. • ipv6.	N/A
name	Flow route name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
protocol	Protocol	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
source-address	Source address to match	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
source-mask-length	Source address mask length	N/A	Unsigned integer. Value range: 0 to 128.	
destination-address	Destination address to match	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
destination-mask-length	Destination address mask length	N/A	Unsigned integer. Value range: 0 to 128.	
port	Match source port or destination port	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value	Example: 1,3-4,6. The value range is 0 to 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
			range. Use a hyphen (-) to separate the start and end value of a range.	
source-port	Source port to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.
destination -port	Destination port to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.
icmp-type	ICMP type to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
icmp-code	ICMP code to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 255.
dscp	Dscp to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 63.
fragment-type	Fragment type to match	N/A	Enumeration: • DF—Don't fragment. • IsF—Is a fragment. • FF—First fragment.	N/A
fragment-mat ch	Whether to match fragment type	N/A	Boolean: • true • false	N/A
packet-length	Packet length to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
tcp-flags	TCP flag to match	N/A	Unsigned integer. Value range: 0 to 63.	N/A
tcp-flags-match	Whether to match TCP flag	N/A	Boolean: • true • false	N/A
tcp-flags-match-any	Whether to match any TCP flag	N/A	Boolean: • true • false	N/A
flow-label	Flow label to match	N/A	Number string. It is a comma-separated list of value items. An item can be an individual value or a value range. Use a hyphen (-) to separate the start and end value of a range.	Example: 1,3-4,6. The value range is 0 to 1048575.
traffic-rate	Traffic rate limit	N/A	Unsigned integer. Value range: 0 to 100000000.	N/A
remark-dscp	DSCP marking	N/A	Unsigned integer. Value range: 0 to 63.	N/A
redirect-vpn-target	Redirect to VPN target	N/A	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1:1.
redirect-nexthop	Redirect to next hop	N/A	• IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
copy-mode	Redirect copies of the matching packets	N/A	Boolean: • true • false	
color	The color of the SR-TE policy	N/A	String. Length: 4 to 13 characters. • The format is CO<00-11,binary>:Color<0-4294967295>	Example:00:123
sid	The segment identifier of the SRv6 egress node	N/A	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
sid-prefix-length	Length of the SID prefix part	N/A	Unsigned integer. Value range: 32 to 120.	N/A
route-target-list	Route target	Data structure	Members include: • **route-target**.	N/A
route-target	Route target	N/A	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 10:10 or 192.168.1.1:1.

flowspec/applys

This table contains information about Flow routes applied to BGP instance..

XML structure

```
<flowspec>
  <applys>
    <apply>
      <address-family></address-family>
      <vrf></vrf>
      <flow-route-name></flow-route-name>
      <interface-groups>
        <interface-group>
         <GroupID></GroupID>
        </interface-group>
      </interface-groups>
    </apply>
  </applys>
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	applys
Table type	Multi-instance table
Row name	apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-family	Address family	Index	Enumeration: • ipv4. • ipv6.	N/A
vrf	VRF name.	Index	String, case-sensitive. Length: 0 to 31 characters.	A null string indicates the public instance.
flow-route-name	Flow route name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

flowspec/applys/apply/interface-groups

This table contains information about Flow routes associated with interface-groups to a BGP instance.

XML structure

Please refer to the XML structure of flowspec/applys.

Table description

Item	Description
Feature name	flowspec
Table name	interface-groups
Table type	Multi-instance table
Row name	interface-group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Interface group ID	Index	Unsigned integer.	N/A

flowspec/InterfaceGroups

This table contains information about interface groups.

XML structure

```
<flowspec>
  <InterfaceGroups>
    <InterfaceGroup>
      <GroupID></GroupID>
      <Description></Description>
      <Interfaces>
        <Interface>
         <IfName></IfName>
        </Interface>
      </Interfaces>
    </InterfaceGroup>
  </InterfaceGroups>
```

```
</flowspec>
```

Table description

Item	Description
Feature name	flowspec
Table name	InterfaceGroups
Table type	Multi-instance table
Row name	InterfaceGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Interface group ID	Index	• Unsigned integer.	N/A
Description	Interface group description	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A

flowspec/InterfaceGroups/InterfaceGroup/Interfaces

This table contains information about the interface of the interface groups.

XML structure

Please refer to the XML structure of flowspec/InterfaceGroups.

Table description

Item	Description
Feature name	flowspec
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. • Length: 1 to 47 characters.	N/A

ss

Contents

flowspec 2
flowspec/flow-routes 2
flowspec/applys 2

flowspec

flowspec/flow-routes

Message	Explanation
The port keyword is mutually exclusive with the source-port and destination-port keywords. You cannot configure them at the same time 端口关键字与源端口和目的端口关键字互斥。你不能同时配置它们。	The port field is can’t be same as the source-port field or destination-port field. 端口字段不能与源端口字段或目的端口字段相同。
The flow specification rule is being used by the. 流规则正在被使用。	The Flowspec rule can't be removed because it has been used. 正在使用的流规则不能删除。
The match criterion is the same as the match criterion of applied flow-route. 匹配条件与应用流路由的匹配条件相同。	The match criterion can’t be the same as the applied matching criterion. 匹配条件不能与已应用的匹配条件相同。
Invalid IP address. 非法IP地址	Invalid IP address. 非法IP地址
Route target reach the upper limit. Route target达到上限。	Route target reach the upper limit. Route target 达到上限。

flowspec/applys

Message	Explanation
The flow specification rule doesn't exist. 流规范规则不存在。	The Flowspec route must exist. 流规则必须存在。
The match criterion is the same as the match criterion of flow-route. 匹配条件与流路由的匹配条件相同。	The match criterion can’t be the same as the original matching criterion. 匹配条件不能与原有的匹配条件相同。

Contents

FTP 1
FTP/Server 1
XML structure 1
Table description 1
Columns 1

FTP

FTP/Server

This table contains global FTP server information.

XML structure

```
<FTP>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
    <<Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLName></Ipv6ACLName>
    <Timeout></Timeout>
    <SslServerPolicy></SslServerPolicy>
  </Server>
</FTP>
```

Table description

Item	Description
Feature name	FTP
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global FTP server information.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	FTP server state	N/A	EnableState: • **enable**—The FTP server is enabled. • **disable**—The FTP server is disabled (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4DSCP	IPv4 DSCP value for outgoing FTP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
Ipv6DSCP	IPv6 DSCP value for outgoing FTP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
Ipv4ACLNum	Number of the IPv4 ACL used to control FTP access	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
Ipv6ACLNum	Number of the IPv6 ACL used to control FTP access	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
Ipv4ACLName	Name of the IPv4 ACL used to control FTP access	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Ipv6ACLName	Name of the IPv6 ACL used to control FTP access	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Timeout	FTP connection idle-timeout timer	N/A	Unsigned integer. Value range: 1 to 35791 minutes. Default: 30 minutes.	N/A
SslServerPolicy	SSL server policy for the FTP server	N/A	String. Length: 1 to 31 characters.	N/A

Contents

FTP 1
FTP/Capabilities 1
XML structure 1
Table description 1
Columns 1
FTP/Server 1
XML structure 1
Table description 2
Columns 2

FTP

FTP/Capabilities

This table contains FTP server capability information.

XML structure

```
<FTP>
  <Capabilities>
    <FtpServerSupport></FtpServerSupport>
  </Capabilities>
</FTP>
```

Table description

Item	Description
Feature name	FTP
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FtpServerSupport	Whether FTP server is supported	N/A	Boolean: • true • false

FTP/Server

This table contains global FTP server information.

XML structure

```
<FTP>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
```

```
    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLName></Ipv6ACLName>
    <Timeout></Timeout>
    <SslServerPolicy></SslServerPolicy>
  </Server>
</FTP>
```

Table description

Item	Description
Feature name	FTP
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global FTP server features.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	FTP server state	N/A	EnableState: • **enable**—The FTP server is enabled. • **disable**—The FTP server is disabled (default).	N/A
Ipv4DSCP	IPv4 DSCP value for outgoing FTP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
Ipv6DSCP	IPv6 DSCP value for outgoing FTP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
Ipv4ACLNum	Number of the IPv4 ACL used to control FTP access	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
Ipv6ACLNum	Number of the IPv6 ACL used to control FTP access	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
Ipv4ACLName	Name of the IPv4 ACL used to control FTP access	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6ACLName	Name of the IPv6 ACL used to control FTP access	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Timeout	FTP connection idle-timeout timer	N/A	Unsigned integer. Value range: 1 to 35791 minutes. Default: 30 minutes.	N/A
SslServerPolicy	SSL server policy for the FTP server	N/A	String. Length: 1 to 31 characters.	N/A

Contents

FTP 1
FTP/Server 1

FTP

FTP/Server

Message	Explanation
Failed to enable the FTP server. 使能FTP server失败	When the FTP service port number has been used by other services, enabling the FTP server is not supported.
Failed to set the idle-timeout interval for FTP connections. 配置空闲超时失败.	If the idle-timeout interval for FTP connections cannot be processed by the daemon of FTP, the specified idle-timeout interval configuration for FTP will fail.
Failed to specify the ACL. 配置ACL失败.	If the ACL configuration cannot be processed by the daemon of FTP, the specified ACL configuration will fail.
Failed to specify the SSL server policy. 配置SSL失败.	The specified SSL server policy name must already exist.
You cannot specify both an ACL number and an ACL name in one operation. ACL名称和ACL编号不能一起下发。	You cannot specify both an ACL number and an ACL name in one operation.

Contents

Fundamentals 1
Fundamentals/CurrentSessionOpt 1
XML structure 1
Table description 1
Columns 1
Fundamentals/SwitchVsys 2
XML structure 2
Table description 2
Columns 2
Fundamentals/Context 2
XML structure 2
Table description 3
Columns 3

Fundamentals

Fundamentals/CurrentSessionOpt

This table describes the actions that can be performed to current session.

XML structure

```
<Fundamentals>
  <CurrentSessionOpt>
    <DisableEditConfigWhenRollback/>
    <EnableLightRollback/>
  </CurrentSessionOpt>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	CurrentSessionOpt
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DisableEditConfigWhenRollback	Reject edit-config request when system is performing rollback.	N/A	Boolean: • **true** • **false**	N/A
EnableLightRollback	Enable rollback in a light weight method.	N/A	Boolean: • **true** • **false**	This column is used to enable or disable the light rollback(a light way to rollback when you get an error in the edit-config operation while the error-option is set to be rollback-on-error). By default, it is false

Fundamentals/SwitchVsys

This table is used to switch vsys context.

XML structure

```
<Fundamentals>
  <SwitchVsys>
    <VsysIndex/>
  </SwitchVsys>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	SwitchVsys
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysIndex	Vsys ID.	N/A	Unsigned integer. Value range:1-4095 The default value is 1.	

Fundamentals/Context

This table is used to switch context.

XML structure

```
<Fundamentals>
  <Context>
    <ContextID/>
  </Context>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	Context
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID.	N/A	Unsigned integer.	0 means the system assigns the lowest ID number among the available IDs to the Context.

Contents

Fundamentals 1
Fundamentals/WebUI 1
XML structure 1
Table description 1
Columns 2
Fundamentals/SoapUI 5
XML structure 5
Table description 5
Columns 5

Fundamentals

Fundamentals/WebUI

This table contains Web service information.

XML structure

```
<Fundamentals>
  <WebUI>
    <SessionAgingTime></SessionAgingTime>
    <HTTP>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
      <AclType></AclType>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
      <IPv6AclType></IPv6AclType>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
      <AclType></AclType>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
      <IPv6AclType></IPv6AclType>
      <SSLPolicyName></SSLPolicyName>
      <LoginMode></LoginMode>
      <UserName></UserName>
    </HTTPS>
    <LogEnable></LogEnable>
  </WebUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebUI
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionAgingTime	Web user connection timeout (minutes)	N/A	Unsigned integer. Value range: 1 to 999.	N/A
HTTP	HTTP configuration information.	Data structure	Members include: • State • Port • AclNumber	N/A
State	HTTP status.	N/A	Enumeration: • enable • disable	N/A
Port	HTTP port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **AclName** column overwrites each other.
AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **AclNumber** column overwrites each other. The name of an ACL cannot be **all**.
AclType	Type of ACL for HTTP access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL. • **mac**—layer 2 ACL.	N/A
IPv6AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 3999.	Only basic and advance ACLs are supported. This column and the IPv6AclName column overwrites each other.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic and advance ACLs are supported. This column and the IPv6AclNumber column overwrites each other. The name of an ACL cannot be all.
IPv6AclType	Type of IPv6 ACL for HTTP access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL..	N/A
HTTPS	HTTPS configuration information.	Data structure	Members include: • State • Port • AclNumber	N/A
State	HTTPS status.	N/A	Enumeration: • enable • disable	N/A
Port	HTTPS port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **AclName** column overwrites each other.
AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter	Only basic ACLs are supported. This column and the **AclNumber** column overwrites each other. The name of an ACL cannot be **all**.
AclType	Type of ACL for HTTPS access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL. • **mac**—layer 2 ACL.	N/A
IPv6AclNumber	Number of the ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 3999.	Only basic and advance ACLs are supported. This column and the IPv6AclName column overwrites each other.
IPv6AclName	Name of the ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with	Only basic and advance ACLs are supported. This column and the IPv6AclNumber column overwrites each other.

Column name	Column description	Column type	Data type and restrictions	Remarks
			an English letter.	The name of an ACL cannot be all.
IPv6AclType	Type of IPv6 ACL for HTTPS access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced—**advanced ACL..	N/A
SSLPolicyName	Name of the SSL server policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginMode	HTTPS login mode	N/A	Enumeration: • **1**—Manual mode. A user must provide a username and password for login authentication. • **2**—Auto mode. A user can provide a username and password or a certificate for login authentication. • **3**—Certificate mode. A user must provide a certificate for login authentication. • **4—Certificate-manual mode. A user must provide both a username and password and a certificate for login authentication.**	N/A
UserName	HTTPS login username	N/A	String, case-insensitive. Length: 1 to 255 characters.	If the value is **cn**, the CN field in the digital certificate is used as the username. If the value is **email-prefix**, the string before the “@” sign in the emailAddress field is used as the username. If the value is a valid OID value, the field corresponding to the object identifier OID-value in the digital certificate is used as the username.
LogEnable	Status of Web operation logging	N/A	Enumeration: • enable • disable	The default varies by device model. For more information, see the command references for the device.

Fundamentals/SoapUI

This table contains SOAP service information.

XML structure

```
<Fundamentals>
  <SoapUI>
    <HTTP>
      <IPv4AclNumber></IPv4AclNumber>
      <IPv4AclName></IPv4AclName>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
    </HTTP>
    <HTTPS>
      <IPv4AclNumber></IPv4AclNumber>
      <IPv4AclName></IPv4AclName>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
    </HTTPS>
    <HttpEnable></HttpEnable>
    <HttpsEnable></HttpsEnable>
  </SoapUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	SoapUI
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTP	HTTP configuration information.	Data structure	Members include: • IPv4AclNumber • IPv4AclName • IPv6AclNumber	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• IPv6AclName	
IPv4AclNumber	Number of the IPv4 ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv4AclName** column overwrites each other.
IPv4AclName	Name of the IPv4 ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv4AclNumber** column overwrites each other. An ACL name cannot be **all**.
IPv6AclNumber	Number of the IPv6 ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv6AclName** column overwrites each other.
IPv6AclName	Name of the IPv6 ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv6AclNumber** column overwrites each other. An ACL name cannot be **all**.
HTTPS	HTTPS configuration information.	Data structure	Members include: • IPv4AclNumber • IPv4AclName • IPv6AclNumber IPv6AclName	N/A
IPv4AclNumber	Number of the IPv4 ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv4AclName** column overwrites each other.
IPv4AclName	Name of the IPv4 ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv4AclNumber** column overwrites each other. An ACL name cannot be **all**.
IPv6AclNumber	Number of the IPv6 ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv6AclName** column overwrites each other. Currently not supported.
IPv6AclName	Name of the IPv6 ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv6AclNumber** column overwrites each other. An ACL name cannot be **all**. Currently not

Column name	Column description	Column type	Data type and restrictions	Remarks
				supported.
HttpEnable	HTTP status.	N/A	Enumeration: • enable • disable (default)	This column is used to get the configuration of soap http .
HttpsEnable	HTTPS status.	N/A	Enumeration: • enable • disable (default)	This column is used to get the configuration of soap https .

Contents

Fundamentals 1

Fundamentals/WebUI 1
- XML structure 1
- Table description 2
- Columns 2

Fundamentals/NetconfResXPath 4
- XML structure 5
- Table description 5
- Columns 5

Fundamentals/WebMenuPath 6
- XML structure 6
- Table description 6
- Columns 6

Fundamentals/SoapUI 7
- XML structure 7
- Table description 7
- Columns 8

Fundamentals/CurrentVsys 9
- XML structure 9
- Table description 9
- Columns 9

Fundamentals/Context 10
- XML structure 10
- Table description 10
- Columns 10

Fundamentals

Fundamentals/WebUI

This table contains Web service information. In a vSystem, only the SessionAgingTime column is supported.

XML structure

```
<Fundamentals>
  <WebUI>
    <SessionAgingTime></SessionAgingTime>
    <HTTP>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
      <AclType></AclType>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
      <IPv6AclType></IPv6AclType>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
      <AclType></AclType>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
      <IPv6AclType></IPv6AclType>
      <SSLPolicyName></SSLPolicyName>
      <LoginMode></LoginMode>
      <UserName></UserName>
    </HTTPS>
    <LogEnable></LogEnable>
  </WebUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebUI
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionAgingTime	Web user connection timeout in minutes.	N/A	Unsigned integer. Value range: 1 to 999.	Only NETCONF get operation is supported in a vSystem.
HTTP	HTTP configuration information.	Data structure	Members include: • State • Port • AclNumber	N/A
State	HTTP status.	N/A	Enumeration: • enable • disable	N/A
Port	HTTP port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **AclName** column overwrites each other.
AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **AclNumber** column overwrites each other. The name of an ACL cannot be **all**.
AclType	Type of ACL for HTTP access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL. • **mac**—layer 2 ACL.	N/A
IPv6AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 3999.	Only basic and advance ACLs are supported. This column and the IPv6AclName column overwrites each other.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic and advance ACLs are supported. This column and the IPv6AclNumber column overwrites each other. The name of an ACL cannot be all.
IPv6AclType	Type of IPv6 ACL for HTTP access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL..	N/A
HTTPS	HTTPS configuration information.	Data structure	Members include: • State • Port • AclNumber	N/A
State	HTTPS status.	N/A	Enumeration: • enable • disable	N/A
Port	HTTPS port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **AclName** column overwrites each other.
AclName	Name of the ACL for HTTPS access control.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **AclNumber** column overwrites each other. The name of an ACL cannot be **all**.
AclType	Type of ACL for HTTPS access control.	N/A	Enumeration: • **basic**—basic ACL. • **advanced**—advanced ACL. • **mac**—layer 2 ACL.	N/A
IPv6AclNumber	Number of the ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 3999.	Only basic and advance ACLs are supported. This column and the IPv6AclName column overwrites each other.
IPv6AclName	Name of the ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic and advance ACLs are supported. This column and the IPv6AclNumber column overwrites each other. The name of an ACL cannot be all.
IPv6AclType	Type of IPv6 ACL	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for HTTPS access control.		• **basic**—basic ACL. • **advanced**—advanced ACL.	
SSLPolicyName	Name of the SSL server policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginMode	HTTPS login mode	N/A	Enumeration: • **1**—Manual mode. A user must provide a username and password for login authentication. • **2**—Auto mode. A user can provide a username and password or a certificate for login authentication. • **3**—Certificate mode. A user must provide a certificate for login authentication. • **4—Certificate-manual mode. A user must provide both a username and password and a certificate for login authentication.**	N/A
UserName	HTTPS login username	N/A	String, case-insensitive. Length: 1 to 255 characters.	If the value is **cn**, the CN field in the digital certificate is used as the username. If the value is **email-prefix**, the string before the “@” sign in the emailAddress field is used as the username. If the value is a valid OID value, the field corresponding to the object identifier OID-value in the digital certificate is used as the username.
LogEnable	Status of Web operation logging	N/A	Enumeration: • enable • disable	The default varies by device model. For more information, see the command references for the device.

Fundamentals/NetconfResXPath

This table contains NETCONF XML path information.

XML structure

```
<Fundamentals>
  <NetconfResXPath>
    <XPath>
      <Path></Path>
      <Type></Type>
    </XPath>
  </NetconfResXPath>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	NetconfResXPath
Table type	Multi-instance table
Row name	XPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Path	The operational XML resource path .	Index	String. case-insensitive.
Type	The type of the operational XML resource path .	N/A	Enumeration: • 0 —The XML path of NETCONF protocol. Example: “rpc/kill-session”. • 1— The intermediate XML path of NETCONF protocol. Example: “rpc/”. • 2 —The XML path of device resources. Example: “ifmgr/interfaces/interface/ifindex”. • 3 —The intermediate XML path of device resources. Example: “ifmgr/interfaces/interface/” .

Fundamentals/WebMenuPath

This table contains web menu path information.

XML structure

```
<Fundamentals>
  <WebMenuPath>
    <MenuPath>
      <Path></Path>
      <Title></Title>
      <Type></Type>
    </MenuPath>
  </WebMenuPath>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebMenuPath
Table type	Multi-instance table
Row name	MenuPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Web path of menu.	Index	String. Case-insensitive.	N/A
Title	The description of WEB menu.	N/A	String. Length: 1 to 31 characters.	Depend on the language of current user.
Type	The type of WEB menu.	N/A	Enumeration: • 0 – Leaf menu which is corresponding to the specific web page. • 1 – Intermediate menu node which is not corresponding to the specific web	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			page.	

Fundamentals/SoapUI

This table contains SOAP service information.

XML structure

```
<Fundamentals>
  <SoapUI>
    <HTTP>
      <IPv4AclNumber></IPv4AclNumber>
      <IPv4AclName></IPv4AclName>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
    </HTTP>
    <HTTPS>
      <IPv4AclNumber></IPv4AclNumber>
      <IPv4AclName></IPv4AclName>
      <IPv6AclNumber></IPv6AclNumber>
      <IPv6AclName></IPv6AclName>
    </HTTPS>
    <HttpEnable></HttpEnable>
    <HttpsEnable></HttpsEnable>
  </SoapUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	SoapUI
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTP	HTTP configuration information.	Data structure	Members include: • IPv4AclNumber • IPv4AclName • IPv6AclNumber • IPv6AclName	N/A
IPv4AclNumber	Number of the IPv4 ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv4AclName** column overwrites each other.
IPv4AclName	Name of the IPv4 ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv4AclNumber** column overwrites each other. An ACL name cannot be **all**.
IPv6AclNumber	Number of the IPv6 ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv6AclName** column overwrites each other.
IPv6AclName	Name of the IPv6 ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv6AclNumber** column overwrites each other. An ACL name cannot be **all**.
HTTPS	HTTPS configuration information.	Data structure	Members include: • IPv4AclNumber • IPv4AclName • IPv6AclNumber IPv6AclName	N/A
IPv4AclNumber	Number of the IPv4 ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv4AclName** column overwrites each other.
IPv4AclName	Name of the IPv4 ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv4AclNumber** column overwrites each other. An ACL name cannot be **all**.
IPv6AclNumber	Number of the IPv6 ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the **IPv6AclName** column overwrites each other. Currently not

Column name	Column description	Column type	Data type and restrictions	Remarks
				supported.
IPv6AclName	Name of the IPv6 ACL for HTTPS access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the **IPv6AclNumber** column overwrites each other. An ACL name cannot be **all**. Currently not supported.
HttpEnable	HTTP status.	N/A	Enumeration: • enable • disable	This column is used to get the configuration of soap http .
HttpsEnable	HTTPS status.	N/A	Enumeration: • enable • disable	This column is used to get the configuration of soap https .

Fundamentals/CurrentVsys

This table is used to get vsys id.

XML structure

```
<Fundamentals>
  <CurrentVsys>
    <VsysIndex/>
  </CurrentVsys>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	CurrentVsys
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysIndex	Vsys ID.	N/A	Unsigned integer. Value range:1-4095 The default value is 1.	

Fundamentals/Context

This table is used to switch context.

XML structure

```
<Fundamentals>
  <Context>
    <ContextID/>
  </Context>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	Context
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID.	N/A	• Unsigned integer.	0 means the system assigns the lowest ID number among the available IDs to the Context.

Contents

GDVPNGM 1
ResetAllGdoiGmInfo 1
XML structure 1
Table description 1
Columns 1
ResetGdoiGmInfo 1
XML structure 1
Table description 2
Columns 2

GDVPNGM

ResetAllGdoiGmInfo

The table is used to clear GDOI information for all GM groups, and trigger to the GMs to re-register with the KS.

XML structure

```
<GDVPNGM>
<ResetAllGdoiGmInfo>
  <Reset></Reset>
</ResetAllGdoiGmInfo>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	ResetAllGdoiGmInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Clear gdoi gm information of all groups.	N/A	N/A	This column must not be empty.

ResetGdoiGmInfo

The table is used to clear GDOI information for a GDOI GM group, and to trigger the GMs to re-register with the KS.

XML structure

```
<GDVPNGM>
<ResetGdoiGmInfo>
  <Reset>
    <GroupName></GroupName>
  </Reset>
```

```
</ResetGdoiGmInfo>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	ResetGdoiGmInfo
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the GDOI GM group.	Index	String, Case insensitive Length: 1 to 63 characters.

Contents

GDVPNGM 1
GdoiGmGroups 1
XML structure 1
Table description 1
Columns 2
GdoiGmGroupServers 3
XML structure 3
Table description 3
Columns 3
GdoiGmGroupTransformSets 4
XML structure 4
Table description 4
Columns 4
GdoiIPv4Policies 5
XML structure 5
Table description 5
Columns 6
GdoiIPv6Policies 6
XML structure 6
Table description 7
Columns 7

GDVPNGM

GdoiGmGroups

This table displays GM group information.

XML structure

```
<GDVPNGM>
<GdoiGmGroups>
  <GdoiGmGroup>
    <GroupName></GroupName>
    <IPVersion></IPVersion>
    <Identity>
      <Type></Type>
      <Number></Number>
      <Address></Address>
    </Identity>
    <RegistrationInterface></RegistrationInterface>
    <Encryption>
      <ThreeDesCbc></ThreeDesCbc>
      <AesCbc128></AesCbc128>
      <AesCbc192></AesCbc192>
      <AesCbc256></AesCbc256>
      <DesCbc></DesCbc>
    </Encryption>
  </GdoiGmGroup>
</GdoiGmGroups>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroups
Table type	Multi-instance table
Row name	GdoiGmGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String. Length: 1 to 63 characters Case insensitive.	N/A.
IPVersion	GM group IP version.	N/A	Enumeration: • **1**—IPv4(Default). • **2**—IPv6.	N/A.
Identity	GDOI GM group ID.	Data structure	Members include: • Type • Address • Number	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: • 0—invalid(Default) • 1—Number Type • 2—Address Type	0 means Identity is not specified. In this case neither Address nor Number is valid. 1 means Identity is Address. In this case, only Address is valid. 2 means Identity is Number. In this case only Number is valid.
Number	A number to identify the GDOI GM group.	N/A	Unsigned integer. Value range of 0 to 2147483647.	Number is ignored if Type is not 2.
Address	IPv4 address to identify the GDOI GM group	N/A	IPv4 address.	Address is ignored if Type is not 1.
RegistrationInterface	Registration interface name for a group member	N/A	String, case-insensitive. Length: 1 to 63 characters The default is empty.	N/A.
Encryption	KEK encryption algorithms	Data structure	Members include: • ThreeDesCbc • AesCbc128 • AesCbc192 • AesCbc256 • DesCbc	The encryption algorithms is from 0 to 1.”1”means the encryption algorithms is enable, “0” means disable.
ThreeDesCbc	The 3DES-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc128	The AES-CBC-128 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A
AesCbc192	The AES-CBC-192 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AesCbc256	The AES-CBC-256 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1 The default is 1.	N/A
DecCbc	The DEC-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

GdoiGmGroupServers

This table displays key servers (KS) of a GM group.

XML structure

```
<GDVPNGM>
<GdoiGmGroupServers>
  <Server>
    <GroupName></GroupName>
    <Host></Host>
    <Vrf></Vrf>
  </Server>
</GdoiGmGroupServers>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.
Host	Key server IP address or	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. IPv6 example:

Column name	Column description	Column type	Data type and restrictions	Remarks
	hostname		IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters, case-sensitive.	1:2:3:4:5:6:7:8. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Vrf	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters. The default is empty.	If the server is on the public network, the length of characters is 0.

GdoiGmGroupTransformSets

This table displays transform sets of a GM group.

XML structure

```
<GDVPNGM>
<GdoiGmGroupTransformSets>
  <TransformSet>
    <GroupName></GroupName>
    <TransformSetList>
      <TransformSetName></TransformSetName>
    </TransformSetList>
  </TransformSet>
</GdoiGmGroupTransformSets>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupTransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
TransformSet List	List of transform set names	Data structure	Members include: • TransformSetName	N/A.
TransformSet Name	IPsec transform set name	Column	String, case-insensitive. Length :1 to 63 characters.	This Column can be repeated for 0 to 6 times.

GdoiIPv4Policies

This table displays GDOI policies of a GM group.

XML structure

```
<GDVPNGM>
<GdoiIPv4Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv4Policies>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. • Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name of the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number	N/A
Name	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
Number	ACL number	N/A	Integer. Value range: 3000 to 3999. • Default is -1.	○ Only when the ACL Name is empty, does the ACL Number make sense.

GdoiIPv6Policies

This table displays GDOI IPv6 policies of a GM group.

XML structure

```
<GDVPNGM>
<GdoiIPv6Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv6Policies>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. • Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name for the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number	N/A
Name	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.

Contents

GDVPNGM 1
GdoiGmGroups 1
XML structure 1
Table description 1
Columns 2
GdoiGmGroupServers 3
XML structure 3
Table description 3
Columns 3
GdoiGmGroupTransformSets 4
XML structure 4
Table description 4
Columns 4
GdoiGroupMembers 5
XML structure 5
Table description 6
Columns 6
GdoiGmDownloadIPv4AclRules 8
XML structure 8
Table description 9
Columns 9
GdoiGmDownloadIPv6AclRules 10
XML structure 10
Table description 10
Columns 11
GdoiGmLocalIPv4AclRules 12
XML structure 12
Table description 12
Columns 12
GdoiGmLocalIPv6AclRules 14
XML structure 15
Table description 15
Columns 15
GdoiKeks 17
XML structure 17
Table description 18
Columns 18
GdoiGmTeks 19
XML structure 19
Table description 19
Columns 19
GdoiIPv4Policies 20
XML structure 20
Table description 21
Columns 21
GdoiIPv6Policies 21
XML structure 21
Table description 22
Columns 22

GDVPNGM

GdoiGmGroups

This table displays GM group information.

XML structure

```
<GDVPNGM>
<GdoiGmGroups>
  <GdoiGmGroup>
    <GroupName></GroupName>
    <IPVersion></IPVersion>
    <Identity>
      <Type></Type>
      <Number></Number>
      <Address></Address>
    </Identity>
    <RegistrationInterface></RegistrationInterface>
    <Encryption>
      <ThreeDesCbc></ThreeDesCbc>
      <AesCbc128></AesCbc128>
      <AesCbc192></AesCbc192>
      <AesCbc256></AesCbc256>
      <DesCbc></DesCbc>
    </Encryption>
  </GdoiGmGroup>
</GdoiGmGroups>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroups
Table type	Multi-instance table
Row name	GdoiGmGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, Case insensitive. Length: 1 to 63 characters	N/A.
IPVersion	GM group IP version.	N/A	Enumeration: • 1—IPv4(Default) • 2—IPv6	It is not suggested to change a group`s IPVersion from IPv4 to IPV6 or IPV6 to IPV4, some config of the group may lost.
Identity	GDOI GM group ID.	Data structure	Members include: • Type • Address • Number	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: • 0—invalid(Default) • 1—Number Type • 2—Address Type	0 means Identity is not specified,in this case neither Address nor Number is valid. 1 means Identity is Address,in this case, only Address is valid. 2 means Identity is Number,in this case only Number is valid.
Number	A number to identify the GDOI GM group.	N/A	Unsigned integer. Value range of 0 to 2147483647.	Number is ignored if Type is not 2.
Address	IPv4 address to identify the GDOI GM group	N/A	IPv4 address.	Address is ignored if Type is not 1.
RegistrationInterface	Registration interface name for a group member	N/A	String, Case insensitive. Length: 1 to 63 characters The default is empty.	N/A.
Encryption	KEK encryption algorithms	Data structure	Members include: • ThreeDesCbc • AesCbc128 • AesCbc192 • AesCbc256 • DesCbc	The encryption algorithms is from 0 to 1.”1”means the encryption algorithms is enable, “0” means disable.
ThreeDesCbc	The 3DES-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc128	The AES-CBC-128 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A
AesCbc192	The AES-CBC-192 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AesCbc256	The AES-CBC-256 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1 The default is 1.	N/A
DecCbc	The DEC-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

GdoiGmGroupServers

This table displays key servers (KS) of a GM group.

XML structure

```
<GDVPNGM>
<GdoiGmGroupServers>
  <Server>
    <GroupName></GroupName>
    <Host></Host>
    <Vrf></Vrf>
  </Server>
</GdoiGmGroupServers>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.
Host	Key server IP address or hostname	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated. Hostname: String, 1 to 253 characters, case-sensitive.	Hostname can contains letters, digits, hyphens (-), and underscores (_).
Vrf	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters. The default is empty.	If the server is on the public network, the length of characters is 0.

GdoiGmGroupTransformSets

This table displays transform sets of a GM group.

XML structure

```
<GDVPNGM>
<GdoiGmGroupTransformSets>
  <TransformSet>
    <GroupName></GroupName>
    <TransformSetList>
      <TransformSetName></TransformSetName>
    </TransformSetList>
  </TransformSet>
</GdoiGmGroupTransformSets>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupTransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransformSet List	List of transform set names	Data structure	Members include: • TransformSetName	N/A.
TransformSet Name	IPsec transform set name	Column	String, case-insensitive. Length :1 to 63 characters.	This Column can be repeated for 0 to 6 times.

GdoiGroupMembers

This table displays GDOI group members.

XML structure

```
<GDVPNGM>
<GdoiGroupMembers>
  <GroupMember>
    <GroupName></GroupName>
    <IPAddress></IPAddress>
    <VRFName></VRFName>
    <RegStatus></RegStatus>
    <RegServer></RegServer>
    <ReRegTime></ReRegTime>
    <SucceedRegs></SucceedRegs>
    <AttemptedRegs></AttemptedRegs>
    <LastRekeyFrom></LastRekeyFrom>
    <LastRekeySeqNum></LastRekeySeqNum>
    <MulticastRekeysReceived></MulticastRekeysReceived>
    <UnicastRekeysReceived></UnicastRekeysReceived>
    <RekeyAcKSent></RekeyAcKSent>
    <AllowableRekeyCipher></AllowableRekeyCipher>
    <AllowableRekeyHash></AllowableRekeyHash>
    <AllowableTransforms>
      <AllowableTransform></AllowableTransform>
    <AllowableTransforms>
    <RekeyCumulative>
      <TotalReceived></TotalReceived>
      <AfterLatestReg></AfterLatestReg>
      <LastRekeyReceivedFor></LastRekeyReceivedFor>
      <TotalRekeyAckSent></TotalRekeyAckSent>
    </RekeyCumulative>
  </GroupMember>
</GdoiGroupMembers>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPAddress	IP address of the GM.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRFName	Name of the VRF to which the KS belongs.	N/A	String. Length: 0 to 31 characters. The default is empty.	If the KS belongs to the public network, this field is not displayed.
RegStatus	The registration status.	N/A	Enumeration: • 1—Not registered. • 2—Registering. • 3—Registered.	N/A
RegServer	IP address or host name of the KS with which the GM registers.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Hostname can contains letters, digits, hyphens (-), and underscores (_).
ReRegTime	Period of time after which the GM re-registers with a KS.	N/A	Unsigned integer.	Unit: second.
SucceedRegs	Number of successful registrations.	N/A	Unsigned integer.	N/A
AttemptedRegs	Number of registration attempts.	N/A	Unsigned integer.	N/A
LastRekeyFrom	KS from which the GM receives the last rekey	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
	message.		colon-separated. Hostname: String, 1 to 253 characters.	Hostname can contains letters, digits, hyphens (-), and underscores (_).
LastRekeySeqNum	Sequence number of the last received rekey message.	N/A	Unsigned integer.	N/A
MulticastRekeysReceived	Number of multicast rekeys received.	N/A	Unsigned integer.	Valid only when the GDOI GM group is a multicast group.
UnicastRekeysReceived	Number of unicast rekeys received.	N/A	Unsigned integer.	Valid only when the GDOI GM group is a unicast group.
RekeyAcKSent	Number of rekey ACK messages sent.	N/A	Unsigned integer.	This field is displayed only when the GDOI GM group is a unicast group.
AllowableRekeyCipher	Rekey encryption algorithms that the GM allows.	N/A	Each bit represents a algorithm As follows: • **1**—DES-CBC. • **2**—3DES-CBC. • **4**—AES-CBC-128. • **8**—AES-CBC-192. • **16**—AES-CBC-256.	In non-FIPS mode, a GM supports DES-CBC, 3DES-CBC, AES-CBC-128, AES-CBC-192, and AES-CBC-256. In FIPS mode, a GM supports AES-CBC-128, AES-CBC-192, and AES-CBC-256.
AllowableRekeyHash	Rekey hash algorithms that the GM allows.	N/A	Each bit represents a algorithm As follows: • **1**—MD5 • **2**—SHA1 • **4**—SHA2-224 • **8**—SHA2-256 • **16**—SHA2-384 • **32**—SHA2-512 • **64**—AES-XCBC	0 represents any hash algorithm.
AllowableTransforms	List of transform set names	Data structure	Members include: • TransformSetName	N/A
TransformSetName	IPsec transform set name	N/A	String, case-insensitive. Length :1 to 63 characters.	This column can be repeated for 0 to 6 times.
RekeyCumulative	Rekey statistics.	Data structure	Members include: • TotalReceived. • AfterLatestReg. • TotalRekeyAckSent.	N/A
TotalReceived	Total number of rekeys that the GM has	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received.			
AfterLatestReg	Number of rekeys that the GM has received after the last successful registration.	N/A	Unsigned integer.	N/A
LastRekeyReceivedFor	Period of time for which the key has existed after the last rekey operation.	N/A	Unsigned integer.	Unit: second 0 represents N/A.
TotalRekeyAckSent	Number of rekey ACK messages sent.	N/A	Unsigned integer.	N/A

GdoiGmDownloadIPv4AclRules

This table displays ACL information that the GM downloaded from the KS.

XML structure

```
<GDVPNGM>
<GdoiGmDownloadIPv4AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <KeyServer></KeyServer>
    <Action></Action>
    <Protocol></Protocol>
    <Source>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
    </Source>
    <Destination>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </Destination>
  </Rule>
</GdoiGmDownloadIPv4AclRules>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmDownloadIPv4AclRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Unsigned integer.	N/A
KeyServer	The key server IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Action	The rule action	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
Source	ACL of source address	Data structure	Members include: • SrcAddr. • SrcWildLen • SrcPort.	
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1to 65535.	N/A
Destination	ACL of destination address	Data structure	Members include: • DesAddr. • DesWildLen • DesPort.	
DesAddr	The destination address of	N/A	IPv4 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets.			
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmDownloadIPv6AclRules

This table displays ACL information that the GM downloaded from the KS.

XML structure

```
<GDVPNGM>
<GdoiGmDownloadIPv6AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <KeyServer></KeyServer>
    <Action></Action>
    <Protocol></Protocol>
    <Source>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
    </Source>
    <Destination>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </Destination>
  </Rule>
</GdoiGmDownloadIPv6AclRules>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmDownloadIPv6AclRules
Table type	Multi-instance table
Row name	Rule

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Unsigned integer.	N/A
KeyServer	The key server IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Action	The rule action	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
Source	ACL of source address	Data structure	Members include: • SrcAddr. • SrcWildLen • SrcPort.	
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1to 65535.	N/A
Destination	ACL of destination address	Data structure	Members include: • DesAddr. • DesWildLen • DesPort.	
DesAddr	The destination address of packets.	N/A	IPv4 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmLocalIPv4AclRules

This table displays the ACL information locally configured on the GM.

XML structure

```
<GDVPNGM>
<GdoiGmLocalIPv4AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <ACL>
      <ACLNumber></ACLNumber>
      <AclNum></AclNum>
      <ACLRuleID></ACLRuleID>
      <ACLMode></ACLMode>
      <Action></Action>
      <Protocol></Protocol>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </ACL>
  </Rule>
</GdoiGmLocalIPv4AclRules>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmLocalIPv4AclRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	The ID of a rule.	Index	Integer	
ACL	Reference an ACL for a gdoi group	Data structure	Members include: • ACLName • ACLNumber • ACLRuleID • ACLMode • Action • Protocol • SrcAddr • SrcWildLen • SrcPort • DesAddr • DesWildLen • DesPort	If the ACLRuleID is 65535, it means the ACL is an empty ACL. The ACL does not support to display object-group configuration.
ACLName	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.
ACLRuleID	ACL Rule ID	N/A	Unsigned integer. Value range: 0 to 65535.	○ 65535 means the ACL rule is empty
ACLMode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	○ per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. ○ per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes

Column name	Column description	Column type	Data type and restrictions	Remarks
				more system resources when multiple data flows exist between two subnets to be protected. ○ aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Action	The rule action	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1to 65535.	N/A
DesAddr	The destination address of packets.	N/A	IPv4 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmLocalIPv6AclRules

This table displays the ACL information locally configured on the GM.

XML structure

```
<GDVPNGM>
<GdoiGmLocalIPv6AclRules>
   <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <ACL>
      <ACLName></ACLName>
      <ACLNumber></ACLNumber>
      <ACLRuleID></ACLRuleID>
      <ACLMode></ACLMode>
      <Action></Action>
      <Protocol></Protocol>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </ACL>
  </Rule>
</GdoiGmLocalIPv6AclRules>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmLocalIPv6AclRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Integer	
ACL	Reference an ACL for a gdoi group	Data structure	Members include: • ACLName • ACLNumber	If the ACLRuleID is 65535, it means the ACL is an empty ACL.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ACLRuleID • ACLMode • Action • Protocol • SrcAddr • SrcWildLen • SrcPort • DesAddr • DesWildLen • DesPort	The ACL does not support to display object-group configuration.
ACLName	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.
ACLRuleID	ACL Rule ID	N/A	Unsigned integer. Value range: 0 to 65535.	○ 65535 means the ACL rule is empty
ACLMode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	○ per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. ○ per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected.

Column name	Column description	Column type	Data type and restrictions	Remarks
				○ aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Action	The rule action	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
SrcAddr	The source address of packets.	N/A	IPv6 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1to 65535.	N/A
DesAddr	The destination address of packets.	N/A	IPv6 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiKeks

This table displays KEK information.

XML structure

```
<GDVPNGM>
<GdoiKeks>
  <KEK>
```

```
    <GroupName></GroupName>
    <RekeyTransportType></RekeyTransportType>
    <RemainingKeyLifetime></RemainingKeyLifetime>
    <EncryptionAlgorithm></EncryptionAlgorithm>
    <KeySize></KeySize>
    <SignatureAlg></SignatureAlg>
    <SignatureHashAlg></SignatureHashAlg>
    <SignatureKeyLength></SignatureKeyLength>
  </KEK>
</GdoiKeks>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiKeks
Table type	Multi-instance table
Row name	KEK
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RekeyTransportType	Transport type of rekey messages.	N/A	Enumeration: • **1**—Unicast • **2**—Multicast	N/A
RemainingKeyLifetime	KEK lifetime in seconds.	N/A	Unsigned integer.	Unit: second
EncryptionAlgorithm	KEK encryption algorithm.	N/A	Enumeration: • **1**—DES-CBC. • **2**—3DES-CBC. • **3**—AES-CBC.	N/A
KeySize	KEK key length.	N/A	Unsigned integer	N/A
SignatureAlg	KEK signature algorithm.	N/A	Enumeration: • **1**—RSA. • **2**—DSS. • **3**—ECDSS. • **4**—ECDSS-256. • **5**—ECDSS-384. • **6**—ECDSS-521.	N/A
SignatureHa	KEK signature	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
shAlg	hash algorithm.		• **1**—MD5. • **2**—SHA1. • **3**—SHA256. • **4**—SHA384. • **5**—SHA512.	
SignatureKeyLength	KEK signature key length in bits.	N/A	Unsigned integer.	N/A

GdoiGmTeks

This table displays TEK information of a group member.

XML structure

```
<GDVPNGM>
<GdoiGmTeks>
  <TEK>
    <GroupName></GroupName>
    <SPI></SPI>
    <Transform>
      <EncryptAlg></EncryptAlg>
      <AuthAlg></AuthAlg>
    </Transform>
    <RemainLifetime></RemainLifetime>
  </TEK>
</GdoiGmTeks>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmTeks
Table type	Multi-instance table
Row name	TEK
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name for the GDOI GM group	Index	String, case-insensitive.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
SPI	SPI of the IPsec SA.	Index	Unsigned integer. Value range: 256 to 4294967295.	N/A
Transform	Transform encryption and authentication algorithm	Data structure	Members include: • EncryptAlg. • AuthAlg.	N/A
EncryptAlg	Encryption algorithm.	N/A	Enumeration: • **0**—NULL. • **1**—3DES-CBC. • **2**—AES-CBC-128. • **3**—AES-CBC-192. • **4**—AES-CBC-256. • **5**—DES-CBC. • **6**—Unknown.	N/A
AuthAlg	Authentication algorithm	N/A	Enumeration: • **0**—NULL. • **1**—MD5. • **2**—SHA1. • **3**—Unknown.	N/A
RemainLifetime	IPsec SA remaining lifetime in seconds.	N/A	Unsigned integer.	Unit: second.

GdoiIPv4Policies

This table displays GDOI policies of a GM group.

XML structure

```
<GDVPNGM>
<GdoiIPv4Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv4Policies>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name of the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number	Use Type to specify which member is valid.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.

GdoiIPv6Policies

This table displays GDOI IPv6 policies of a GM group.

XML structure

```
<GDVPNGM>
```

```
<GdoiIPv6Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv6Policies>
</GDVPNGM>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number for the IPsec policy entry	Index	Unsigned integer. Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name for the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number.	N/A
Name	ACL name	N/A	String. Length: 1 to 63 characters. Default is empty.	If ACL Name is not empty,the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer.	○ Only when the ACL Name is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 3000 to 3999. Default is 0.	empty, does the ACL Number make sense.

Contents

GIR 1
GIR/System 1
XML structure 1
Table description 1
Columns 1

GIR

GIR/System

This table provides system mode configuration.

XML structure

```
<GIR>
  <System>
    <SystemMode></SystemMode>
    <RevertDelayTime></RevertDelayTime>
  </System>
</GIR>
```

Table description

Item	Description
Feature name	GIR
Table name	System
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMode	Change system mode	N/A	Enumeration: • **0**—Normal mode(Default) • **1**—Maintenance mode by isolation • **2**—Maintenance mode by shutdown	N/A
RevertDelayTime	Auto change to normal mode after the specified amount of time in minutes	N/A	Unsigned integer. • Value range:5 to 65535. • Default: 0.	N/A

Contents

GIR 1
GIR/System 1
XML structure 1
Table description 1
Columns 1

GIR

GIR/System

This table provides system mode configuration.

XML structure

```
<GIR>
  <System>
    <SystemMode></SystemMode>
    <RevertDelayTime></RevertDelayTime>
  </System>
</GIR>
```

Table description

Item	Description
Feature name	GIR
Table name	System
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMode	Change system mode	N/A	Enumeration: • **0**—Normal mode • **1**—Maintenance mode by isolate • **2**—Maintenance mode by shutdown	N/A
RevertDelayTime	Auto change to normal mode after the specified amount of time in minutes	N/A	Unsigned integer. • Value range:5 to 65535.	N/A

Contents

GIR 1
GIR/System 1

GIR

GIR/System

Message	**Explanation**
The mode switching is in progress. 模式切换正在进行。	The mode switching is in progress. 模式切换正在进行。
Another user is displaying snapshots, and the mode switching operation is not allowed. 其他用户正在执行快照信息显示操作，请不要进行模式切换。	Another user is displaying snapshots, and the mode switching operation is not allowed. 其他用户正在执行快照信息显示操作，请不要进行模式切换。

Contents

GLB 1

GLB/ClearDNSMapStats 1
XML structure 1
Table description 1
Columns 1
GLB/ClearAllDNSMapStats 1
XML structure 2
Table description 2
Columns 2
GLB/TestIpv4Requests 2
XML structure 2
Responsed XML structure 3
Table description 3
Columns 4
Return columns 5
GLB/TestIpv6Requests 9
XML structure 9
Responsed XML structure 10
Table description 10
Columns 11
Return columns 12
GLB/ClearAllDNSRecords 16
XML structure 16
Table description 17
Columns 17
GLB/ClearGlobalDNSListenerStats 17
XML structure 17
Table description 17
Columns 18
GLB/ClearAllGlobalDNSListenerStats 18
XML structure 18
Table description 18
Columns 18
GLB/ClearGlobalDNSMapStats 19
XML structure 19
Table description 19
Columns 19
GLB/ClearAllGlobalDNSMapStats 19
XML structure 19
Table description 20
Columns 20
GLB/DelGlobalVRFProximities 20
XML structure 20
Table description 20
Columns 21
GLB/DelGlobalIpv4Proximities 21
XML structure 21
Table description 21
Columns 22
GLB/DelAllGlobalIPv4Proximities 22
XML structure 22
Table description 22
Columns 22
GLB/DefaultSyncGroupDistribute 23
XML structure 23
Table description 23
Columns 23

GLB

GLB/ClearDNSMapStats

This table is used to clear the statistics of the DNS mapping.

XML structure

```
<GLB>
  <ClearDNSMapStats>
    <ClearDNSMapStat>
      <Name></Name>
      <Clear></Clear>
    </ClearDNSMapStat>
  </ClearDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearDNSMapStats
Table type	Multi-instance table
Row name	ClearDNSMapStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS mapping.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS mapping.	N/A	This column must be empty.	• N/A

GLB/ClearAllDNSMapStats

This table is used to clear all DNS mapping' statistics.

XML structure

```
<GLB>
  <ClearAllDNSMapStats>
    <Clear></Clear>
  </ClearAllDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllDNSMapStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS mapping' statistics.	N/A	This column must be empty.	• N/A

GLB/TestIpv4Requests

This table is used to test IPv4 DNS requests in the specified VPN.

XML structure

```
<GLB>
  <TestIpv4Requests>
    <TestIpv4Request>
      <VRF></VRF>
      <DstIpv4Address></DstIpv4Address>
      <DstPort></DstPort>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv4Request>
```

```
  </TestIpv4Requests>
</GLB>
```

Responsed XML structure

```
<GLB>
  <TestIpv4Results>
    <TestIpv4Result>
      <VRF></VRF>
      <DstIpv4Address></DstIpv4Address>
      <DstPort></DstPort>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DNSListener></DNSListener>
      <DNSZone></DNSZone>
      <DNSMap></DNSMap>
      <VSP></VSP>
      <PreferredAlgorithm></PreferredAlgorithm>
      <AlternateAlgorithm></AlternateAlgorithm>
      <FallbackAlgorithm></FallbackAlgorithm>
      <PrfAlgorithmFailedCause></PrfAlgorithmFailedCause>
      <AltAlgorithmFailedCause></AltAlgorithmFailedCause>
      <FbkAlgorithmFailedCause></FbkAlgorithmFailedCause>
      <VirtualServer></VirtualServer>
      <RespondType></RespondType>
      <FailedCause></FailedCause>
    </TestIpv4Result>
  </TestIpv4Results>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	TestIpv4Requests/TestIpv4Results
Table type	Multi-instance table
Row name	TestIpv4Request/TestIpv4Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv4Address	The IPv4 destination address of DNS request packets.	Index	Stri ng. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv4Address	The IPv4 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "*1.1.1.1*.**in-addr.arpa**." or "*1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0*.**ip6.arpa**". It means you must translate an IPv4 or IPv6 address to a domain name manually.
ChassisID	Chassis Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Return columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv4Address	The IPv4 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv4Address	The IPv4 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "*1.1.1.1*.**in-addr.arpa**." or "*1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0*.**ip6.arpa**".
ChassisID	Chassis Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DNSListener	Name of the DNS listener.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
DNSZone	Name of the DNS zone or reverse zone.	N/A	String, case-insensitive. Length: 0 to 253 characters.	A null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
VSP	Name of the virtual server pool.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
AlternateAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
FallbackAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
PrfAlgorithmFailedCause	The cause of preferred algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AltAlgorithmFailedCause	The cause of alternate algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
FbkAlgorithmFailedCause	The cause of fallback algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive.	A null string indicates the label is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	configured.
RespondType	Response type.	N/A	Enumeration: • 0—Send response. • 1—Send rejected. • 2—No response. • 3—Proxy.	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A

GLB/TestIpv6Requests

This table is used to test IPv6 DNS requests in the specified VPN.

XML structure

```
<GLB>
  <TestIpv6Requests>
    <TestIpv6Request>
      <VRF></VRF>
      <DstIpv6Address></DstIpv6Address>
      <DstPort></DstPort>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
```

```
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv6Request>
  </TestIpv6Requests>
</GLB>
```

Responsed XML structure

```
<GLB>
  <TestIpv6Results>
    <TestIpv6Result>
      <VRF></VRF>
      <DstIpv6Address></DstIpv6Address>
      <DstPort></DstPort>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DNSListener></DNSListener>
      <DNSZone></DNSZone>
      <DNSMap></DNSMap>
      <VSP></VSP>
      <PreferredAlgorithm></PreferredAlgorithm>
      <AlternateAlgorithm></AlternateAlgorithm>
      <FallbackAlgorithm></FallbackAlgorithm>
      <PrfAlgorithmFailedCause></PrfAlgorithmFailedCause>
      <AltAlgorithmFailedCause></AltAlgorithmFailedCause>
      <FbkAlgorithmFailedCause></FbkAlgorithmFailedCause>
      <VirtualServer></VirtualServer>
      <RespondType></RespondType>
      <FailedCause></FailedCause>
    </TestIpv6Result>
  </TestIpv6Results>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	TestIpv6Requests/TestIpv6Results
Table type	Multi-instance table

Row name	TestIpv6Request/TestIpv6Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv6Address	The IPv6 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv6Address	The IPv6 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "*1.1.1.1*.**in-addr.arpa**." or "*1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0*.**ip6.arpa**". It means you must translate an IPv4 or IPv6 address to a domain name manually.
ChassisID	Chassis Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Return columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv6Address	The IPv6 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv6Address	The IPv6 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "*1.1.1.1*.**in-addr.arpa**." or "*1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0.*.**ip6.arpa**".
ChassisID	Chassis ID of the device that holds	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the card.		Value range: 0 to 255.	
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DNSListener	Name of the DNS listener.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
DNSZone	Name of the DNS zone or reverse zone.	N/A	String, case-insensitive. Length: 0 to 253 characters.	A null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
VSP	Name of the virtual server pool.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
AlternateAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
FallbackAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
PrfAlgorithmFailedCause	The cause of preferred algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AltAlgorithmFailedCause	The cause of alternate algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
FbkAlgorithmFailedCause	The cause of fallback algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive.	A null string indicates the label is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	configured.
RespondType	Response type.	N/A	Enumeration: • 0—Send response. • 1—Send rejected. • 2—No response. • 3—Proxy.	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A

GLB/ClearAllDNSRecords

This table is used to clear all DNS parsing failure records.

XML structure

```
<GLB>
  <ClearAllDNSRecords>
    <Clear></Clear>
  </ClearAllDNSRecords>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllDNSRecords
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS parsing failure records.	N/A	This column must be empty.	• N/A

GLB/ClearGlobalDNSListenerStats

This table is used to clear the statistics of a global DNS listener.

XML structure

```
<GLB>
  <ClearGlobalDNSListenerStats>
    <ClearGlobalDNSListenerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearGlobalDNSListenerStat>
  </ClearGlobalDNSListenerStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearGlobalDNSListenerStats
Table type	Multi-instance table
Row name	ClearGlobalDNSListenerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the statistics of the specified global DNS listener.	N/A	This column must be empty.	N/A

GLB/ClearAllGlobalDNSListenerStats

This table is used to clear the statistics of all global DNS listeners.

XML structure

```
<GLB>
  <ClearAllGlobalDNSListenerStats>
    <Clear></Clear>
  </ClearAllGlobalDNSListenerStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllGlobalDNSListenerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing statistics of all global DNS listeners.	N/A	This column must be empty.	N/A

GLB/ClearGlobalDNSMapStats

This table is used to clear the statistics of a global DNS map.

XML structure

```
<GLB>
  <ClearGlobalDNSMapStats>
    <ClearGlobalDNSMapStat>
      <Name></Name>
      <Clear></Clear>
    </ClearGlobalDNSMapStat>
  </ClearGlobalDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearGlobalDNSMapStats
Table type	Multi-instance table
Row name	ClearGlobalDNSMapStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the statistics of the specified global DNS map.	N/A	This column must be empty.	N/A

GLB/ClearAllGlobalDNSMapStats

This table is used to clear the statistics of all global DNS maps.

XML structure

```
<GLB>
  <ClearAllGlobalDNSMapStats>
    <Clear></Clear>
```

```
  </ClearAllGlobalDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllGlobalDNSMapStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the statistics of all global DNS maps.	N/A	This column must be empty.	N/A

GLB/DelGlobalVRFProximities

This table is used to delete all global proximity entries that belong to a VPN instance.

XML structure

```
<GLB>
  <DelGlobalVRFProximities>
    <DelGlobalVRFProximity>
      <VRF></VRF>
      <AF></AF>
      <Delete></Delete>
    </DelGlobalVRFProximity>
  </DelGlobalVRFProximities>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DelGlobalVRFProximities
Table type	Multi-instance table

Row name	DelGlobalVRFProximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
AF	Address family.	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—All.	N/A
Delete	Action of deleting global proximity entries.	N/A	This column must be empty.	N/A

GLB/DelGlobalIpv4Proximities

This table is used to delete all global IPv4 proximity entries that belong to a VPN instance.

XML structure

```
<GLB>
  <DelGlobalIpv4Proximities>
    <DelGlobalIpv4Proximity>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Delete></Delete>
    </DelGlobalIpv4Proximity>
  </DelGlobalIpv4Proximities>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DelGlobalIpv4Proximities
Table type	Multi-instance table
Row name	DelGlobalIpv4Proximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Delete	Action of deleting the specified global IPv4 proximity.	N/A	This column must be empty.	N/A

GLB/DelAllGlobalIPv4Proximities

This table is used to delete all global IPv4 proximity entries.

XML structure

```
<GLB>
  <DelAllGlobalIpv4Proximities>
    <Delete></Delete>
  </DelAllGlobalIpv4Proximities>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DelAllGlobalIpv4Proximities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting all global IPv4 proximity entries.	N/A	This column must be empty.	N/A

GLB/DefaultSyncGroupDistribute

This table is used to trigger data synchronization among synchronization group members.

XML structure

```
<GLB>
  <DefaultSyncGroupDistribute>
    <SyncType></SyncType>
    <DataType></DataType>
    <Sync></Sync>
  </DefaultSyncGroupDistribute>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DefaultSyncGroupDistribute
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncType	Synchronization type	Index	Enumeration: • 0—sync • 1—sync all	N/A
DataType	The type of synchronized data	Index	Enumeration: • 0—running data • 1—proximity data • 2—config data	The Datatype only can be proximity data(1) or config data(2) when the SyncType is sync all(1).
Sync	Synchronize data among default synchronization group members.	N/A	This column must be empty.	N/A

Contents

GLB 1

GLB/DNSMaps 1
XML structure 1
Table description 1
Columns 1
GLB/DNSMapDomains 2
XML structure 2
Table description 2
Columns 3
GLB/VirtualServerPools 3
XML structure 3
Table description 4
Columns 4
GLB/VSPVirtualServers 6
XML structure 6
Table description 7
Columns 7
GLB/VSPVirtualIPs 7
XML structure 7
Table description 8
Columns 8
GLB/VSPVirtualIPv6s 8
XML structure 8
Table description 9
Columns 9
GLB/DNSZones 9
XML structure 9
Table description 10
Columns 10
GLB/DNSZoneSOAs 10
XML structure 10
Table description 11
Columns 11
GLB/DNSZoneMXRRs 12
XML structure 12
Table description 12
Columns 13
GLB/DNSZoneCNAMERRs 13
XML structure 13
Table description 13
Columns 14
GLB/DNSZoneNSRRs 14
XML structure 14
Table description 15
Columns 15
GLB/DNSRevZones 15
XML structure 15
Table description 16
Columns 16
GLB/DNSRevZoneRRs 16
XML structure 16
Table description 17
Columns 17
GLB/DNSRevZoneIPv6s 17
XML structure 17
Table description 18
Columns 18

GLB/DNSRevZoneIPv6RRs 18
XML structure 18
Table description 19
Columns 19
GLB/DNSRecordMaxNum 19
XML structure 19
Table description 20
Columns 20
GLB/DNSRecordType 20
XML structure 20
Table description 21
Columns 21
GLB/DNSZoneTXTRRs 21
XML structure 22
Table description 22
Columns 22
GLB/DNSZoneSRVRRs 23
XML structure 23
Table description 23
Columns 23
GLB/LocalDefaultSyncGroupMems 24
XML structure 24
Table description 24
Columns 25
GLB/RemoteDefaultSyncGroupMems 25
XML structure 26
Table description 26
Columns 26
GLB/SyncGroupMemberIPAddresses 26
XML structure 26
Table description 27
Columns 27
GLB/DataCenters 27
XML structure 27
Table description 28
Columns 28
GLB/DataCenterLinks 28
XML structure 28
Table description 29
Columns 29
GLB/Servers 29
XML structure 29
Table description 30
Columns 30
GLB/LocalServers 31
XML structure 31
Table description 31
Columns 31
GLB/ServerIPAddresses 32
XML structure 32
Table description 32
Columns 32
GLB/LocalVirtualServers 33
XML structure 33
Table description 33
Columns 33
GLB/GlobalDNSListeners 34
XML structure 34
Table description 34
Columns 34
GLB/GlobalDNSMaps 35
XML structure 35

Table description 35
Columns 36
GLB/GlobalDNSMapDomains 36
XML structure 36
Table description 37
Columns 37
GLB/GlobalDNSMapVirtualServerPools 37
XML structure 38
Table description 38
Columns 38
GLB/GlobalVirtualServerPools 38
XML structure 38
Table description 39
Columns 39
GLB/GVSPVirtualServers 40
XML structure 40
Table description 41
Columns 41
GLB/GVSPVirtualIPs 41
XML structure 42
Table description 42
Columns 42
GLB/GVSPProbes 43
XML structure 43
Table description 43
Columns 44
GLB/GVSPVirtualServerProbes 44
XML structure 44
Table description 44
Columns 45
GLB/GVSPVIPProbes 45
XML structure 45
Table description 45
Columns 46
GLB/GTopoRegionVSPs 46
XML structure 46
Table description 47
Columns 47
GLB/GTopoRegionIPv4s 47
XML structure 47
Table description 48
Columns 48
GLB/GlobalRegions 48
XML structure 48
Table description 49
Columns 49
GLB/GlobalRegionISPs 49
XML structure 49
Table description 49
Columns 50
GLB/GlobalISPs 50
XML structure 50
Table description 50
Columns 51
GLB/GlobalIpv4ISPAddressGroups 51
XML structure 51
Table description 51
Columns 51
GLB/GlobalISPFile 52
XML structure 52
Table description 52
Columns 52

GLB/GlobalVRFProximityParameters ····· 52
XML structure ····· 53
Table description ····· 53
Columns ····· 53
GLB/GlobalDNSZones ····· 54
XML structure ····· 54
Table description ····· 55
Columns ····· 55
GLB/GlobalDNSZoneSOAs ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
GLB/GlobalDNSZoneMXRRs ····· 57
XML structure ····· 57
Table description ····· 57
Columns ····· 57
GLB/GlobalDNSZoneCNAMERRs ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 59
GLB/GlobalDNSZoneNSRRs ····· 59
XML structure ····· 59
Table description ····· 59
Columns ····· 60
GLB/GlobalDNSRevZones ····· 60
XML structure ····· 60
Table description ····· 60
Columns ····· 61
GLB/GlobalDNSRevZoneRRs ····· 61
XML structure ····· 61
Table description ····· 61
Columns ····· 62
GLB/GlobalIpv4ISPLists ····· 62
XML structure ····· 62
Table description ····· 62
Columns ····· 63

GLB

GLB/DNSMaps

This table contains information about DNS map.

XML structure

```
<GLB>
  <DNSMaps>
    <DNSMap>
      <Name></Name>
      <VRF></VRF>
      <TTL></TTL>
      <VirtualServerPool></VirtualServerPool>
      <ServiceEnable></ServiceEnable>
    </DNSMap>
  </DNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMaps
Table type	Multi-instance table
Row name	DNSMap
Restrictions	Only DNS map can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
TTL	TTL time of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DNS recorder.		Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	
VirtualServerPool	Name of the virtualserverpool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the DNS map.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

GLB/DNSMapDomains

This table contains information about DNS map domain.

XML structure

```
<GLB>
  <DNSMapDomains>
    <DNSMapDomain>
      <DNSMap></DNSMap>
      <Domain></Domain>
    </DNSMapDomain>
  </DNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapDomains
Table type	Multi-instance table
Row name	DNSMapDomain
Restrictions	Only DNS map domain can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSMap	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.

GLB/VirtualServerPools

This table contains information about virtual server pool.

XML structure

```
<GLB>
  <VirtualServerPools>
    <VirtualServerPool>
      <Name></Name>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <HashPreIpv4PrefixLength></HashPreIpv4PrefixLength>
      <HashPreIpv6PrefixLength></HashPreIpv6PrefixLength>
      <HashAltIpv4PrefixLength></HashAltIpv4PrefixLength>
      <HashAltIpv6PrefixLength></HashAltIpv6PrefixLength>
      <HashFbIpv4PrefixLength></HashFbIpv4PrefixLength>
      <HashFbIpv6PrefixLength></HashFbIpv6PrefixLength>
    </VirtualServerPool>
  </VirtualServerPools>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VirtualServerPools
Table type	Multi-instance table
Row name	VirtualServerPool
Restrictions	Only virtual server pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PredictorAlternate	Predictor alternate algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
PredictorFallback	Predictor fallback	N/A	Enumeration: • 0—None	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm for LB to select a virtual server to be the DNS recorder for client response.		• 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
PredictorPreferred	Predictor preferred algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 1—Round-robin (default). • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BusyProtectEnable	Enable the busy protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HashPreIpv4PrefixLength	Length of IPv4 address mask for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashPreIpv6PrefixLength	Length of IPv6 address prefix for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv4PrefixLength	Length of IPv4 address mask for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv6PrefixLength	Length of IPv6 address prefix for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv4PrefixLength	Length of IPv4 address mask for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv6PrefixLength	Length of IPv6 address prefix for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).

GLB/VSPVirtualServers

This table contains information about Virtual Server Pool Virtual Server.

XML structure

```
<GLB>
  <VSPVirtualServers>
    <VSPVirtualServer>
      <VirtualServerPool></VirtualServerPool>
      <VirtualServer></VirtualServer>
      <Link></Link>
      <Weight></Weight>
    </VSPVirtualServer>
  </VSPVirtualServers>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualServers
Table type	Multi-instance table
Row name	VSPVirtualServer
Restrictions	Only VSP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	Larger number means higher weight.

GLB/VSPVirtualIPs

This table contains virtual IP address information in a virtual server pool.

XML structure

```
<GLB>
  <VSPVirtualIPs>
    <VSPVirtualIP>
      <VirtualServerPool></VirtualServerPool>
      <VirtualIP></VirtualIP>
      <Link></Link>
      <Weight></Weight>
    </VSPVirtualIP>
  </VSPVirtualIPs>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualIPs
Table type	Multi-instance table
Row name	VSPVirtualIP
Restrictions	Only VSP virtual ip address can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the virtual server pool.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
Link	Link of the virtual IP address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IP address.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	Larger number means higher weight.

GLB/VSPVirtualIPv6s

This table contains virtual IPv6 address information in a virtual server pool.

XML structure

```
<GLB>
  <VSPVirtualIPv6s>
    <VSPVirtualIPv6>
      <VirtualServerPool></VirtualServerPool>
      <VirtualIPv6></VirtualIPv6>
      <Link></Link>
      <Weight></Weight>
    </VSPVirtualIPv6>
  </VSPVirtualIPv6s>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualIPv6s
Table type	Multi-instance table
Row name	VSPVirtualIPv6
Restrictions	Only VSP virtual ipv6 address can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIPv6	Virtual IPv6 address of the virtual server pool.	Index	Hexadecimal string, colon-separated.	Example: 1::1.
Link	Link of the virtual IPv6 address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IPv6 address.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	Larger number means higher weight.

GLB/DNSZones

This table contains information about DNS zone.

XML structure

```
<GLB>
  <DNSZones>
    <DNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSZone>
  </DNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZones
Table type	Multi-instance table
Row name	DNSZone
Restrictions	Only DNS zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the DNS zone,.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the DNS zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneSOAs

This table contains information about DNS zone soa resource record.

XML structure

```
<GLB>
  <DNSZoneSOAs>
    <DNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </DNSZoneSOA>
  </DNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneSOAs
Table type	Multi-instance table
Row name	DNSZoneSOA
Restrictions	Only DNS zone soa resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
PrimaryNS	Name of the Primary name server.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the value is 1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second. By default, the value is 3600s.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second. By default, the value is 600s.	N/A
Expire	Expire time	N/A	Unsigned integer. Value range: 500 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: second. By default, the value is 86400s.	
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneMXRRs

This table contains information about DNS zone mx resource record.

XML structure

```
<GLB>
  <DNSZoneMXRRs>
    <DNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
      <TTL></TTL>
    </DNSZoneMXRR>
  </DNSZoneMXRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneMXRRs
Table type	Multi-instance table
Row name	DNSZoneMXRR
Restrictions	Only DNS zone mx resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneCNAMERRs

This table contains information about DNS zone cname resource record.

XML structure

```
<GLB>
  <DNSZoneCNAMERRs>
    <DNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
      <TTL></TTL>
    </DNSZoneCNAMERR>
  </DNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB

Table name	DNSZoneCNAMERRs
Table type	Multi-instance table
Row name	DNSZoneCNAMERR
Restrictions	Only DNS zone cname resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneNSRRs

This table contains information about DNS zone ns resource record.

XML structure

```
<GLB>
  <DNSZoneNSRRs>
    <DNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
      <TTL></TTL>
    </DNSZoneNSRR>
  </DNSZoneNSRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneNSRRs
Table type	Multi-instance table
Row name	DNSZoneNSRR
Restrictions	Only DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative nameserver name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZones

This table contains information about DNS reverse zone.

XML structure

```
<GLB>
  <DNSRevZones>
    <DNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
    </DNSRevZone>
```

```
  </DNSRevZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZones
Table type	Multi-instance table
Row name	DNSRevZone
Restrictions	Only DNS reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A

GLB/DNSRevZoneRRs

This table contains information about DNS reverse zone resource record.

XML structure

```
<GLB>
  <DNSRevZoneRRs>
    <DNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneRR>
  </DNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneRRs
Table type	Multi-instance table
Row name	DNSRevZoneRR
Restrictions	Only DNS reverse zone resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Address	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZoneIPv6s

This table contains information about DNS ipv6 reverse zone.

XML structure

```
<GLB>
  <DNSRevZoneIPv6s>
```

```
    <DNSRevZoneIPv6>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
    </DNSRevZoneIPv6>
  </DNSRevZoneIPv6s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6s
Table type	Multi-instance table
Row name	DNSRevZoneIPv6
Restrictions	Only DNS ipv6 reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Address	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A

GLB/DNSRevZoneIPv6RRs

This table contains information about DNS reverse zone ipv6 resource record.

XML structure

```
<GLB>
  <DNSRevZoneIPv6RRs>
    <DNSRevZoneIPv6RR>
      <ReverseZoneIPv6></ReverseZoneIPv6>
      <ReverseZonePrefix></ReverseZonePrefix>
      <IPv6Address></IPv6Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneIPv6RR>
  </DNSRevZoneIPv6RRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6RRs
Table type	Multi-instance table
Row name	DNSRevZoneIPv6RR
Restrictions	Only DNS reverse zone ipv6 resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIPv6	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
ReverseZoneMask	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6Address	IPv6 address of the PTR resource record.	Index	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRecordMaxNum

This table contains information about DNS record max number.

XML structure

```
<GLB>
  <DNSRecordMaxNum>
    <MaxNumber></MaxNumber>
  </DNSRecordMaxNum>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordMaxNum
Table type	Simple-instance table
Row name	DNSRecordMaxNum
Restrictions	Only DNS Record max number can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxNumber	The max number of the DNS record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 10000.	N/A

GLB/DNSRecordType

This table contains information about DNS record type.

XML structure

```
<GLB>
  <DNSRecordType>
    <A></A>
    <AAAA></AAAA>
    <CNAME></CNAME>
    <MX></MX>
    <NS></NS>
    <SOA></SOA>
    <SRV></SRV>
    <TXT></TXT>
    <PTR></PTR>
  </DNSRecordType>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordType
Table type	Simple-instance table
Row name	DNSRecordType
Restrictions	Only DNS Record type can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
A	The A type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
NS	The NS type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A

GLB/DNSZoneTXTRRs

This table contains information about DNS zone txt resource record.

XML structure

```
<GLB>
  <DNSZoneTXTRRs>
    <DNSZoneTXTRR>
      <Zone></Zone>
      <Sub></Sub>
      <Description></Description>
      <TTL></TTL>
    </DNSZoneTXTRR>
  </DNSZoneTXTRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneTXTRRs
Table type	Multi-instance table
Row name	DNSZoneTXTRR
Restrictions	Only DNS zone txt resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Sub	Sub name of the resource record.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Description	Description text of the resource record.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneSRVRRs

This table contains information about DNS zone srv resource record.

XML structure

```
<GLB>
  <DNSZoneSRVRRs>
    <DNSZoneSRVRR>
      <Zone></Zone>
      <ServiceName></ServiceName>
      <HostName></HostName>
      <Port></Port>
      <Priority></Priority>
      <Weight></Weight>
      <TTL></TTL>
    </DNSZoneSRVRR>
  </DNSZoneSRVRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSRVRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneSRVRR
Restrictions	Only Global DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
ServiceName	Service name.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
HostName	Host name offering the service.	Index	String, case-insensitive. Length: 1 to 254	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Port	Port number of the resource record.	Index	Unsigned integer. Value range: 0 to 65535.	Index
Priority	Priority of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	The smaller the value, the higher the priority.
Weight	Weight value of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/LocalDefaultSyncGroupMems

This table contains information about the local default synchronization group member.

XML structure

```
<GLB>
  <LocalDefaultSyncGroupMems>
    <LocalDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <RetryTimes></RetryTimes>
      <CipherKey></CipherKey>
      <SimpleKey></SimpleKey>
    </LocalDefaultSyncGroupMem>
  </LocalDefaultSyncGroupMems>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalDefaultSyncGroupMems
Table type	Multi-instance table
Row name	LocalDefaultSyncGroupMem
Restrictions	None.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the local default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the local default synchronization group member.	N/A	Unsigned integer. Value range:1024 to 65535. By default, the value is 3936.	N/A
ServiceEnable	Enable the communicating function of the local default synchronization group member.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Interval	Specify the probe interval for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 259200. Unit: second. By default, the value is 5 seconds.	N/A
RetryTimes	Specify the probe retry times for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 10. By default, the value is 5.	N/A
CipherKey	Specify an authentication key in encrypted form.	N/A	String, case-sensitive. Length: 1 to 53 characters.	Configure CipherKey or SimpleKey, but not both.
SimpleKey	Specify an authentication key in plaintext form.	N/A	String, case-sensitive. Length: 1 to 16 characters.	Configure CipherKey or SimpleKey, but not both.

GLB/RemoteDefaultSyncGroupMems

This table contains information about a remote default synchronization group member.

XML structure

```
<GLB>
  <RemoteDefaultSyncGroupMems>
    <RemoteDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
    </RemoteDefaultSyncGroupMem>
  </RemoteDefaultSyncGroupMems>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	RemoteDefaultSyncGroupMems
Table type	Multi-instance table
Row name	RemoteDefaultSyncGroupMem
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the remote default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the remote default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535. By default, the value is 3936.	N/A

GLB/SyncGroupMemberIPAddresses

This table contains information about the IP address of the synchronization group member.

XML structure

```
<GLB>
  <SyncGroupMemberIPAddresses>
```

```
    <SyncGroupMemberIPAddress>
      <SyncGroupMemberType></SyncGroupMemberType>
      <SyncGroupMemberName></SyncGroupMemberName>
      <Ipv4Address></Ipv4Address>
    </SyncGroupMemberIPAddress>
  </SyncGroupMemberIPAddresses>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	SyncGroupMemberIPAddresses
Table type	Multi-instance table
Row name	SyncGroupMemberIPAddress
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncGroupMemberType	Type of the synchronization group member.	Index	Enumeration: • 0—Local • 1—Remote	N/A
SyncGroupMemberName	Name of the synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the synchronization group member.	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.

GLB/DataCenters

This table contains information about a data center.

XML structure

```
<GLB>
  <DataCenters>
```

```
    <DataCenter>
      <Name></Name>
      <Description></Description>
      <ServiceEnable></ServiceEnable>
    </DataCenter>
  </DataCenters>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DataCenters
Table type	Multi-instance table
Row name	DataCenter
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Specify the description of the data center.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
ServiceEnable	Enable the data center function.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

GLB/DataCenterLinks

This table contains information about the links of a data center.

XML structure

```
<GLB>
  <DataCenterLinks>
    <DataCenterLink>
      <DataCenter></DataCenter>
```

```
      <Link></Link>
    </DataCenterLink>
  </DataCenterLinks>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DataCenterLinks
Table type	Multi-instance table
Row name	DataCenterLink
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/Servers

This table contains information about a server.

XML structure

```
<GLB>
  <Servers>
    <Server>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <User></User>
      <CipherPassword></CipherPassword>
      <SimplePassword></SimplePassword>
    </Server>
```

```
  </Servers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Interval	Specify the communication interval of the server.	N/A	Unsigned integer. Value range:5 to 2419200. By default, the value is 10.	N/A
User	Specify the communication user of the server.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
CipherPassword	Specify the encrypted password of the server.	N/A	String, case-sensitive. Length: 1 to 113 characters.	Configure CipherPassword or SimplePassword, but not both.
SimplePassword	Specify the plaintext password of the server.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Configure CipherPassword or SimplePassword, but not both.

GLB/LocalServers

This table contains information about the local server.

XML structure

```
<GLB>
  <LocalServers>
    <LocalServer>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
    </LocalServer>
  </LocalServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalServers
Table type	Multi-instance table
Row name	LocalServer
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Local server name.	Index	String, case-insensitive. Must be localhost.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

GLB/ServerIPAddresses

This table contains information about the IP address of a server.

XML structure

```
<GLB>
  <ServerIPAddresses>
    <ServerIPAddress>
      <DataCenter></DataCenter>
      <Server></Server>
      <Ipv4Address></Ipv4Address>
    </ServerIPAddress>
  </ServerIPAddresses>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ServerIPAddresses
Table type	Multi-instance table
Row name	ServerIPAddress
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the server.	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.

GLB/LocalVirtualServers

This table contains information about the virtual server of a local server.

XML structure

```
<GLB>
  <LocalVirtualServers>
    <LocalVirtualServer>
      <DataCenter></DataCenter>
      <LocalServer></LocalServer>
      <VirtualServerType></VirtualServerType>
      <VirtualServer></VirtualServer>
    </LocalVirtualServer>
  </LocalVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalVirtualServers
Table type	Multi-instance table
Row name	LocalVirtualServer
Restrictions	Only virtual server of local server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocalServer	Local server name.	Index	String, case-insensitive.	Must be localhost.
VirtualServerType	Virtual server type.	Index	Enumeration: • 0—virtual server 1—virtual IP.	N/A
VirtualServer	Virtual server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalDNSListeners

This table contains information about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListeners>
    <GlobalDNSListener>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PortNumber></Ipv4PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </GlobalDNSListener>
  </GlobalDNSListeners>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListeners
Table type	Multi-instance table
Row name	GlobalDNSListener
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv4PortNumber	IPv4 port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 53.	
ServiceEnable	Enable the global DNS listener.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: • 0—No response. • 1—Reject (default).	N/A

GLB/GlobalDNSMaps

This table contains information about a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMaps>
    <GlobalDNSMap>
      <Name></Name>
      <TTL></TTL>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <ServiceEnable></ServiceEnable>
    </GlobalDNSMap>
  </GlobalDNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMaps
Table type	Multi-instance table
Row name	GlobalDNSMap
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600 seconds.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Topology. • 4—Proximity.	N/A
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Topology. • 4—Proximity.	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: 1—Round-robin (default). • 2—Random. • 3—Topology. • 4—Proximity.	N/A
ServiceEnable	Enable the global DNS map.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

GLB/GlobalDNSMapDomains

This table contains information about the domains of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapDomains>
    <GlobalDNSMapDomain>
      <GlobalDNSMap></GlobalDNSMap>
```

```
      <Domain></Domain>
    </GlobalDNSMapDomain>
  </GlobalDNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapDomains
Table type	Multi-instance table
Row name	GlobalDNSMapDomain
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNS Map	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the global DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: • Use a question mark (?) to replace one character, except the dot (.). • Multiple question marks can appear in the domain name. • Use an asterisk (*) to replace multiple characters, except the dot (.). • Multiple asterisks can appear in the domain name. • Question marks and asterisks can appear in the domain name at the same time.

GLB/GlobalDNSMapVirtualServerPools

This table contains information about the virtual server pool of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapVirtualServerPools>
    <GlobalDNSMapVirtualServerPool>
      <GlobalDNSMap></GlobalDNSMap>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Weight></Weight>
    </GlobalDNSMapVirtualServerPool>
  </GlobalDNSMapVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapVirtualServerPools
Table type	Multi-instance table
Row name	GlobalDNSMapVirtualServerPool
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNSMap	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Virtual server pool for the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the global virtual pool.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher weight.

GLB/GlobalVirtualServerPools

This table contains information about a global virtual server pool.

XML structure

```
<GLB>
```

```
  <GlobalVirtualServerPools>
    <GlobalVirtualServerPool>
      <Name></Name>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
    </GlobalVirtualServerPool>
  </GlobalVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVirtualServerPools
Table type	Multi-instance table
Row name	GlobalVirtualServerPool
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates that probe success criteria is all.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Least-connection (not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Least-connection (not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 1—Round-robin (default). • 2—Random. • 3—Least-connection (not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

GLB/GVSPVirtualServers

This table contains information about a virtual server of the global virtual server pool.

XML structure

```
<GLB>
  <GVSPVirtualServers>
    <GVSPVirtualServer>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
    </GVSPVirtualServer>
  </GVSPVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServers
Table type	Multi-instance table
Row name	GVSPVirtualServer
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates that probe success criteria is all.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher weight.

GLB/GVSPVirtualIPs

This table contains information about the virtual IP address of a global virtual server pool.

XML structure

```
<GLB>
  <GVSPVirtualIPs>
    <GVSPVirtualIP>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualIP></VirtualIP>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
    </GVSPVirtualIP>
  </GVSPVirtualIPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualIPs
Table type	Multi-instance table
Row name	GVSPVirtualIP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the global virtual server pool.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
ProbeSucce	Probe success	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ssCriteria	criteria for virtual IP.		Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates that probe success criteria is all.	
Link	Link of the virtual IP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IP.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher weight.

GLB/GVSPProbes

This table contains information the probe method of a global virtual server pool.

XML structure

```
<GLB>
  <GVSPProbes>
    <GVSPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Probe></Probe>
    </GVSPProbe>
  </GVSPProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPProbes
Table type	Multi-instance table
Row name	GVSPProbe
Restrictions	Only global virtual server pool probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GVSPVirtualServerProbes

This table contains information the probe method of a virtual server.

XML structure

```
<GLB>
  <GVSPVirtualServerProbes>
    <GVSPVirtualServerProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <Probe></Probe>
    </GVSPVirtualServerProbe>
  </GVSPVirtualServerProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServerProbes
Table type	Multi-instance table
Row name	GVSPVirtualServerProbe
Restrictions	Only virtual server probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the virtual server member.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GVSPVIPProbes

This table contains information the probe method of a virtual IP.

XML structure

```
<GLB>
  <GVSPVIPProbes>
    <GVSPVIPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualIP></VirtualIP>
      <Probe></Probe>
    </GVSPVIPProbe>
  </GVSPVIPProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVIPProbes
Table type	Multi-instance table
Row name	GVSPVIPProbe

Restrictions	Only global virtual ip probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the virtual IP.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Probe	Probe method for the virtual IP.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GTopoRegionVSPs

This table contains information about the mapping between a global region and a global virtual server pool.

XML structure

```
<GLB>
  <GTopoRegionVSPs>
    <GTopoRegionVSP>
      <GlobalRegion></GlobalRegion>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Priority></Priority>
    </GTopoRegionVSP>
  </GTopoRegionVSPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionVSPs
Table type	Multi-instance table
Row name	GTopoRegionVSP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher priority.

GLB/GTopoRegionIPv4s

This table contains information about the mapping between a global region and an IP address.

XML structure

```
<GLB>
  <GTopoRegionIPv4s>
    <GTopoRegionIPv4>
      <GlobalRegion></GlobalRegion>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Priority></Priority>
    </GTopoRegionIPv4>
  </GTopoRegionIPv4s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionIPv4s
Table type	Multi-instance table
Row name	GTopoRegionIPv4
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Address	IPv4 address.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
IPv4MaskLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher priority.

GLB/GlobalRegions

This table contains information about a global region.

XML structure

```
<GLB>
  <GlobalRegions>
    <GlobalRegion>
      <Name></Name>
    </GlobalRegion>
  </GlobalRegions>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegions
Table type	Multi-instance table
Row name	GlobalRegion
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalRegionISPs

This table contains information about the global ISP for a global region.

XML structure

```
<GLB>
  <GlobalRegionISPs>
    <GlobalRegionISP>
      <GlobalRegion></GlobalRegion>
      <GlobalISP></GlobalISP>
    </GlobalRegionISP>
  </GlobalRegionISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegionISPs
Table type	Multi-instance table
Row name	GlobalRegionISP

Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalISP	ISP for the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalISPs

This table contains information about a global ISP.

XML structure

```
<GLB>
  <GlobalISPs>
    <GlobalISP>
      <Name></Name>
    </GlobalISP>
  </GlobalISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPs
Table type	Multi-instance table
Row name	GlobalISP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalIpv4ISPAddressGroups

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPAddressGroups>
    <GlobalIpv4ISPAddressGroup>
      <GlobalISP></GlobalISP>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GlobalIpv4ISPAddressGroup>
  </GlobalIpv4ISPAddressGroups>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPAddressGroups
Table type	Multi-instance table
Row name	GlobalIpv4ISPAddressGroup
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String.	The value must be equal to the summation of the address and the

Column name	Column description	Column type	Data type and restrictions	Remarks
			Dotted decimal notation. By default, no IPv4 address is specified.	mask. Example: 1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 1 to 32.	N/A

GLB/GlobalISPFile

This table contains information about a global ISP file.

XML structure

```
<GLB>
  <GlobalISPFile>
    <FileName></FileName>
  </GlobalISPFile>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the global ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

GLB/GlobalVRFProximityParameters

This table contains information about global proximity parameters.

XML structure

```
<GLB>
  <GlobalVRFProximityParameters>
    <GlobalVRFProximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
      <MaxNumber></MaxNumber>
      <DefaultProbe></DefaultProbe>
    </GlobalVRFProximityParameter>
  </GlobalVRFProximityParameters>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVRFProximityParameters
Table type	Multi-instance table
Row name	GlobalVRFProximityParameter
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 24.	Zero means a natural mask.
Timeout	The lifetime of global proximity entries.	N/A	Unsigned integer. Value range: 60 to 3600. By default, the value is 60.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
MaxNumber	Upper limit for global proximity entries.	N/A	Unsigned integer. Value range: 0 to 10000000. By default, the value is 0, which indicates the number of global proximity entries is unlimited.	N/A
DefaultProbe	Default probe method for the global proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters. By default, no default probe is specified.	N/A

GLB/GlobalDNSZones

This table contains information about a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZones>
    <GlobalDNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </GlobalDNSZone>
  </GlobalDNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZones
Table type	Multi-instance table
Row name	GlobalDNSZone
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the global DNS zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSZoneSOAs

This table contains information about an SOA resource record for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneSOAs>
    <GlobalDNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </GlobalDNSZoneSOA>
  </GlobalDNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSOAs
Table type	Multi-instance table
Row name	GlobalDNSZoneSOA
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
PrimaryNS	Name of the primary name server.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the value is 1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second. By default, the value is 3600 seconds.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second. By default, the value is 600 seconds.	N/A
Expire	Expiration time	N/A	Unsigned integer. Value range: 500 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: second. By default, the value is 86400 seconds.	
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSZoneMXRRs

This table contains information about MX resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneMXRRs>
    <GlobalDNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
    </GlobalDNSZoneMXRR>
  </GlobalDNSZoneMXRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneMXRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneMXRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS	Index	String, case-insensitive.	The string can contain letters, numbers, hyphens (-), underscores

Column name	Column description	Column type	Data type and restrictions	Remarks
	zone.		Length: 1 to 253 characters.	(_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

GLB/GlobalDNSZoneCNAMERRs

This table contains information about CNAME resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneCNAMERRs>
    <GlobalDNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
    </GlobalDNSZoneCNAMERR>
  </GlobalDNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneCNAMERRs
Table type	Multi-instance table
Row name	GlobalDNSZoneCNAMERR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSZoneNSRRs

This table contains information about NS resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneNSRRs>
    <GlobalDNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
    </GlobalDNSZoneNSRR>
  </GlobalDNSZoneNSRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneNSRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneNSRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative name server name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSRevZones

This table contains information about a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZones>
    <GlobalDNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
      <TTL></TTL>
    </GlobalDNSRevZone>
  </GlobalDNSRevZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZones
Table type	Multi-instance table
Row name	GlobalDNSRevZone
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
TTL	TTL time of the global reverse zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSRevZoneRRs

This table contains information about a resource record for a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZoneRRs>
    <GlobalDNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
    </GlobalDNSRevZoneRR>
  </GlobalDNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZoneRRs
Table type	Multi-instance table
Row name	GlobalDNSRevZoneRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Address	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalIpv4ISPLists

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPLists>
    <GlobalIpv4ISPList>
      <GlobalISP></GlobalISP>
      <IsIncrement></IsIncrement>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GlobalIpv4ISPList>
  </GlobalIpv4ISPLists>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPLists
Table type	Multi-instance table
Row name	GlobalIpv4ISPList
Restrictions	None.
Support for row creation and	Yes

deletion

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to increment the data.	Index	Enumeration: • 0—False. • 1—True.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	The value must be equal to the summation of the address and the mask. Example: 1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 1 to 32.	N/A

Contents

GLB 1

GLB/DNSMaps 1
XML structure 1
Table description 1
Columns 1
GLB/DNSMapDomains 2
XML structure 2
Table description 2
Columns 2
GLB/DNSMapStats 3
XML structure 3
Table description 3
Columns 4
GLB/VirtualServerPools 4
XML structure 4
Table description 5
Columns 5
GLB/VSPVirtualServers 7
XML structure 7
Table description 8
Columns 8
GLB/VSPVirtualIPs 9
XML structure 9
Table description 9
Columns 9
GLB/VSPVirtualIPv6s 10
XML structure 10
Table description 10
Columns 11
GLB/DNSZones 11
XML structure 11
Table description 11
Columns 12
GLB/DNSZoneSOAs 12
XML structure 12
Table description 12
Columns 13
GLB/DNSZoneMXRRs 14
XML structure 14
Table description 14
Columns 14
GLB/DNSZoneCNAMERRs 15
XML structure 15
Table description 15
Columns 16
GLB/DNSZoneNSRRs 16
XML structure 16
Table description 16
Columns 17
GLB/DNSRevZones 17
XML structure 17
Table description 18
Columns 18
GLB/DNSRevZoneRRs 18
XML structure 18
Table description 18
Columns 19

GLB/DNSRevZoneIPv6s 19
XML structure 19
Table description 20
Columns 20
GLB/DNSRevZoneIPv6RRs 20
XML structure 20
Table description 20
Columns 21
GLB/DNSRecordMaxNum 21
XML structure 21
Table description 21
Columns 22
GLB/DNSRecordType 22
XML structure 22
Table description 22
Columns 23
GLB/AllDNSRecords 23
XML structure 23
Table description 24
Columns 24
GLB/DNSZoneTXTRRs 26
XML structure 26
Table description 26
Columns 26
GLB/DNSZoneSRVRRs 27
XML structure 27
Table description 27
Columns 28
GLB/LocalDefaultSyncGroupMems 28
XML structure 28
Table description 29
Columns 29
GLB/RemoteDefaultSyncGroupMems 30
XML structure 30
Table description 30
Columns 31
GLB/SyncGroupMemberIPAddresses 31
XML structure 31
Table description 32
Columns 32
GLB/DataCenters 32
XML structure 32
Table description 33
Columns 33
GLB/DataCenterLinks 33
XML structure 33
Table description 34
Columns 34
GLB/Servers 34
XML structure 35
Table description 35
Columns 35
GLB/LocalServers 36
XML structure 36
Table description 36
Columns 37
GLB/ServerIPAddresses 37
XML structure 37
Table description 37
Columns 38
GLB/ServerVirtualServers 38
XML structure 38

Table description 38
Columns 39
GLB/LocalVirtualServers 39
XML structure 39
Table description 39
Columns 40
GLB/GlobalDNSListeners 40
XML structure 40
Table description 40
Columns 41
GLB/GlobalDNSListenerStats 41
XML structure 41
Table description 42
Columns 42
GLB/GlobalDNSListenerTypeStats 43
XML structure 43
Table description 43
Columns 43
GLB/GlobalDNSMaps 44
XML structure 44
Table description 45
Columns 45
GLB/GlobalDNSMapDomains 46
XML structure 46
Table description 46
Columns 46
GLB/GlobalDNSMapVirtualServerPools 47
XML structure 47
Table description 47
Columns 47
GLB/GlobalDNSMapStats 48
XML structure 48
Table description 48
Columns 48
GLB/GlobalVirtualServerPools 49
XML structure 49
Table description 49
Columns 50
GLB/GVSPVirtualServers 51
XML structure 51
Table description 51
Columns 51
GLB/GVSPVirtualIPs 52
XML structure 52
Table description 53
Columns 53
GLB/GVSPProbes 54
XML structure 54
Table description 54
Columns 54
GLB/GVSPVirtualServerProbes 55
XML structure 55
Table description 55
Columns 55
GLB/GVSPVIPProbes 56
XML structure 56
Table description 56
Columns 57
GLB/GTopoRegionVSPs 57
XML structure 57
Table description 58
Columns 58

GLB/GTopoRegionIPv4s ····· 58
XML structure ····· 58
Table description ····· 59
Columns ····· 59
GLB/GlobalRegions ····· 59
XML structure ····· 59
Table description ····· 60
Columns ····· 60
GLB/GlobalRegionISPs ····· 60
XML structure ····· 60
Table description ····· 60
Columns ····· 61
GLB/GlobalISPs ····· 61
XML structure ····· 61
Table description ····· 61
Columns ····· 61
GLB/GlobalIpv4ISPAddressGroups ····· 62
XML structure ····· 62
Table description ····· 62
Columns ····· 62
GLB/GlobalISPFile ····· 63
XML structure ····· 63
Table description ····· 63
Columns ····· 63
GLB/GlobalVRFProximityParameters ····· 63
XML structure ····· 64
Table description ····· 64
Columns ····· 64
GLB/GlobalIpv4ProximityTables ····· 65
XML structure ····· 65
Table description ····· 65
Columns ····· 66
GLB/GlobalIpv4ProximityNodes ····· 66
XML structure ····· 66
Table description ····· 67
Columns ····· 67
GLB/GlobalProximityStats ····· 68
XML structure ····· 68
Table description ····· 68
Columns ····· 68
GLB/GlobalDNSZones ····· 69
XML structure ····· 69
Table description ····· 69
Columns ····· 69
GLB/GlobalDNSZoneSOAs ····· 70
XML structure ····· 70
Table description ····· 70
Columns ····· 70
GLB/GlobalDNSZoneMXRRs ····· 71
XML structure ····· 71
Table description ····· 71
Columns ····· 72
GLB/GlobalDNSZoneCNAMERRs ····· 72
XML structure ····· 72
Table description ····· 72
Columns ····· 73
GLB/GlobalDNSZoneNSRRs ····· 73
XML structure ····· 73
Table description ····· 73
Columns ····· 74
GLB/GlobalDNSRevZones ····· 74
XML structure ····· 74

Table description ····· 74
Columns ····· 75
GLB/GlobalDNSRevZoneRRs ····· 75
XML structure ····· 75
Table description ····· 75
Columns ····· 76
GLB/GlobalIpv4ISPLists ····· 76
XML structure ····· 76
Table description ····· 76
Columns ····· 77
GLB/GlobalIpv4ProximityTableLists ····· 77
XML structure ····· 77
Table description ····· 78
Columns ····· 78
GLB/GLBDomainStructures ····· 78
XML structure ····· 79
Table description ····· 79
Columns ····· 79

GLB

GLB/DNSMaps

This table contains information about DNS map.

XML structure

```
<GLB>
  <DNSMaps>
    <DNSMap>
      <Name></Name>
      <VRF></VRF>
      <TTL></TTL>
      <VirtualServerPool></VirtualServerPool>
      <ServiceEnable></ServiceEnable>
    </DNSMap>
  </DNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMaps
Table type	Multi-instance table
Row name	DNSMap
Restrictions	Only DNS map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: second.	
VirtualServerPool	Name of the virtualserverpool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the DNS map.	N/A	Enumeration: • 0—Disable • 1—Enable.	N/A

GLB/DNSMapDomains

This table contains information about DNS map domain.

XML structure

```
<GLB>
  <DNSMapDomains>
    <DNSMapDomain>
      <DNSMap></DNSMap>
      <Domain></Domain>
    </DNSMapDomain>
  </DNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapDomains
Table type	Multi-instance table
Row name	DNSMapDomain
Restrictions	Only DNS map domain can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSMap	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the DNS map.	Index	String, case-insensitive. Length: 1 to 253	The string can contain letters, numbers, hyphens (-), underscores

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	(_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.

GLB/DNSMapStats

This table contains stat information about DNS map.

XML structure

```
<GLB>
  <DNSMapStats>
    <DNSMapStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <MatchedDnsReqs></MatchedDnsReqs>
    </DNSMapStat>
  </DNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapStats
Table type	Multi-instance table
Row name	DNSMapStat
Restrictions	Only stats of DNS map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MatchedDns Reqs	Matched DNS Requests that the DNS listener received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

GLB/VirtualServerPools

This table contains information about virtual server pool.

XML structure

```
<GLB>
  <VirtualServerPools>
    <VirtualServerPool>
      <Name></Name>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <TotalVirtualServers></TotalVirtualServers>
      <ActiveVirtualServers></ActiveVirtualServers>
      <HashPreIpv4PrefixLength></HashPreIpv4PrefixLength>
      <HashPreIpv6PrefixLength></HashPreIpv6PrefixLength>
      <HashAltIpv4PrefixLength></HashAltIpv4PrefixLength>
      <HashAltIpv6PrefixLength></HashAltIpv6PrefixLength>
      <HashFbIpv4PrefixLength></HashFbIpv4PrefixLength>
      <HashFbIpv6PrefixLength></HashFbIpv6PrefixLength>
    </VirtualServerPool>
  </VirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VirtualServerPools
Table type	Multi-instance table
Row name	VirtualServerPool
Restrictions	Only virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PredictorAlternate	Predictor alternate algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
PredictorFallback	Predictor fallback algorithm for LB to select a	N/A	Enumeration: • 0—None • 1—Round-robin	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	virtual server to be the DNS recorder for client response.		• 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
PredictorPreferred	Predictor preferred algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 1—Round-robin. • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
BusyProtectEnable	Enable the busy	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protection.		• 0—Disable. • 1—Enable.	
TotalVirtual Servers	Total number of virtual servers in the virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ActiveVirtual Server	Active number of virtual servers in the virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
HashPreIpv 4PrefixLengt h	Length of IPv4 address mask for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashPreIpv 6PrefixLengt h	Length of IPv6 address prefix for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv4 PrefixLength	Length of IPv4 address mask for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv6 PrefixLength	Length of IPv6 address prefix for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv4 PrefixLength	Length of IPv4 address mask for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv6 PrefixLength	Length of IPv6 address prefix for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).

GLB/VSPVirtualServers

This table contains information about Virtual Server Pool Virtual Server.

XML structure

```
<GLB>
  <VSPVirtualServers>
    <VSPVirtualServer>
```

```
      <VirtualServerPool></VirtualServerPool>
      <VirtualServer></VirtualServer>
      <Link></Link>
      <Weight></Weight>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <State></State>
    </VSPVirtualServer>
  </VSPVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualServers
Table type	Multi-instance table
Row name	VSPVirtualServer
Restrictions	Only VSP virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255.	Larger number means higher weight.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Busy.	N/A

GLB/VSPVirtualIPs

This table contains virtual IP address information in a virtual server pool.

XML structure

```
<GLB>
  <VSPVirtualIPs>
    <VSPVirtualIP>
      <VirtualServerPool></VirtualServerPool>
      <VirtualIP></VirtualIP>
      <Link></Link>
      <Weight></Weight>
      <State></State>
    </VSPVirtualIP>
  </VSPVirtualIPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualIPs
Table type	Multi-instance table
Row name	VSPVirtualIP
Restrictions	Only VSP virtual ip address can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool.			
Link	Link of the virtual IP address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IP address.	N/A	Unsigned integer. Value range: 1 to 255.	Larger number means higher weight.
State	State of the virtual IP address.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A

GLB/VSPVirtualIPv6s

This table contains virtual IPv6 address information in a virtual server pool.

XML structure

```
<GLB>
  <VSPVirtualIPv6s>
    <VSPVirtualIPv6>
      <VirtualServerPool></VirtualServerPool>
      <VirtualIPv6></VirtualIPv6>
      <Link></Link>
      <Weight></Weight>
      <State></State>
    </VSPVirtualIPv6>
  </VSPVirtualIPv6s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualIPv6s
Table type	Multi-instance table
Row name	VSPVirtualIPv6
Restrictions	Only VSP virtual ipv6 address can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIPv6	Virtual IPv6 address of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link of the virtual IPv6 address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IPv6 address.	N/A	Unsigned integer. Value range: 1 to 255.	Larger number means higher weight.
State	State of the virtual IPv6 address.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A

GLB/DNSZones

This table contains information about DNS zone.

XML structure

```
<GLB>
  <DNSZones>
    <DNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSZone>
  </DNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZones
Table type	Multi-instance table
Row name	DNSZone
Restrictions	Only DNS zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the DNS zone,.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the DNS zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneSOAs

This table contains information about DNS zone soa resource record.

XML structure

```
<GLB>
  <DNSZoneSOAs>
    <DNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </DNSZoneSOA>
  </DNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneSOAs
Table type	Multi-instance table
Row name	DNSZoneSOA
Restrictions	Only DNS zone soa resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
PrimaryNS	Name of the Primary name server.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the value is 1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second. By default, the value is 3600s.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second. By default, the value is 600s.	N/A
Expire	Expire time	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second. By default, the value is 86400s.	N/A
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneMXRRs

This table contains information about DNS zone mx resource record.

XML structure

```
<GLB>
  <DNSZoneMXRRs>
    <DNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
      <TTL></TTL>
    </DNSZoneMXRR>
  </DNSZoneMXRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneMXRRs
Table type	Multi-instance table
Row name	DNSZoneMXRR
Restrictions	Only DNS zone mx resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneCNAMERRs

This table contains information about DNS zone cname resource record.

XML structure

```
<GLB>
  <DNSZoneCNAMERRs>
    <DNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
      <TTL></TTL>
    </DNSZoneCNAMERR>
  </DNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneCNAMERRs
Table type	Multi-instance table
Row name	DNSZoneCNAMERR
Restrictions	Only DNS zone cname resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneNSRRs

This table contains information about DNS zone ns resource record.

XML structure

```
<GLB>
  <DNSZoneNSRRs>
    <DNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
      <TTL></TTL>
    </DNSZoneNSRR>
  </DNSZoneNSRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneNSRRs
Table type	Multi-instance table

Row name	DNSZoneNSRR
Restrictions	Only DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative nameserver name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZones

This table contains information about DNS reverse zone.

XML structure

```
<GLB>
  <DNSRevZones>
    <DNSRevZone>
       <IPv4Address></IPv4Address>
       <IPv4PrefixLength></IPv4PrefixLength>
    </DNSRevZone>
  </DNSRevZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZones
Table type	Multi-instance table
Row name	DNSRevZone
Restrictions	Only DNS reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A

GLB/DNSRevZoneRRs

This table contains information about DNS reverse zone resource record.

XML structure

```
<GLB>
  <DNSRevZoneRRs>
    <DNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneRR>
  </DNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB

Table name	DNSRevZoneRRs
Table type	Multi-instance table
Row name	DNSRevZoneRR
Restrictions	Only DNS reverse zone resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Address	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/DNSRevZoneIPv6s

This table contains information about DNS ipv6 reverse zone.

XML structure

```
<GLB>
  <DNSRevZoneIPv6s>
    <DNSRevZoneIPv6>
       <IPv6Address></IPv6Address>
       <IPv6PrefixLength></IPv6PrefixLength>
    </DNSRevZoneIPv6>
  </DNSRevZoneIPv6s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6s
Table type	Multi-instance table
Row name	DNSRevZoneIPv6
Restrictions	Only DNS ipv6 reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Address	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A

GLB/DNSRevZoneIPv6RRs

This table contains information about DNS reverse zone ipv6 resource record.

XML structure

```
<GLB>
  <DNSRevZoneIPv6RRs>
    <DNSRevZoneIPv6RR>
      <ReverseZoneIPv6></ReverseZoneIPv6>
      <ReverseZonePrefix></ReverseZonePrefix>
      <IPv6Address></IPv6Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneIPv6RR>
  </DNSRevZoneIPv6RRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6RRs

Table type	Multi-instance table
Row name	DNSRevZoneIPv6RR
Restrictions	Only DNS reverse zone ipv6 resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIPv6	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
ReverseZoneMask	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6Address	IPv6 address of the PTR resource record.	Index	Hexadecimal string, colon-separated.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/DNSRecordMaxNum

This table contains information about the DNS record max number.

XML structure

```
<GLB>
  <DNSRecordMaxNum>
    <MaxNumber></MaxNumber>
  </DNSRecordMaxNum>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordMaxNum

Table type	Simple-instance table
Row name	DNSRecordMaxNum
Restrictions	Only DNS Record max number can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxNumber	The max number of DNS records.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

GLB/DNSRecordType

This table contains information about DNS record types.

XML structure

```
<GLB>
  <DNSRecordType>
    <A></A>
    <AAAA></AAAA>
    <CNAME></CNAME>
    <MX></MX>
    <NS></NS>
    <SOA></SOA>
    <SRV></SRV>
    <TXT></TXT>
    <PTR></PTR>
  </DNSRecordType>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordType
Table type	Simple-instance table
Row name	DNSRecordType
Restrictions	Only DNS Record type can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
A	The A type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
NS	The NS type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. • 0—don't record. • 1—record.	N/A

GLB/AllDNSRecords

This table contains information about DNS records.

XML structure

```
<GLB>
  <AllDNSRecords>
    <AllDNSRecord>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <OrderNumber></OrderNumber>
      <Time></Time>
      <Type></Type>
```

```
      <SrcIpAddress></SrcIpAddress>
      <SrcPort></SrcPort>
      <DstIpAddress></DstIpAddress>
      <DstPort></DstPort>
      <VRF></VRF>
      <Domain></Domain>
      <FailedCourse></FailedCourse>
    </AllDNSRecord>
  </AllDNSRecords>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecord
Table type	Simple-instance table
Row name	DNSRecord
Restrictions	Only DNS Record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
OrderNumber	The number of DNS records.	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
Time	Time when the DNS request was received.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Type	The type of the DNS record.	N/A	Enumeration: • 0—A . • 1—AAAA . • 2—MX . • 3—NS . • 4—CNAME .	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—SOA . • 6—PTR . • 7—TXT. • 8—SRV.	
SrcIpAddress	The IP source address of DNS record.	N/A	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS record.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstIpAddress	The IP destination address of DNS record.	N/A	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS record.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VRF	The VRF name of the DNS record.	N/A	String. Length: 0 to 31 characters.	N/A
Domain	The domain of the DNS record.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
FailedCourse	The failure cause of the DNS record.	N/A	Enumeration. • 0—“ ”. • 1—No matched DNS listener. • 2—No matched DNS map. • 3—No matched virtual-server-pool . • 4—No matched DNS zone. • 5— Failed to get buffer. • 6—Failed to get MDC. • 7— No matched record. • 8 No enough memory resource. • 9— Failed to parse domain. • 10— Failed to find DNS listener by ID. • 11—No schedule content. • 12—Schedule	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			fialed. • 13—No matched virtual-server-member.	

GLB/DNSZoneTXTRRs

This table contains information about DNS zone txt resource records.

XML structure

```
<GLB>
  <DNSZoneTXTRRs>
    <DNSZoneTXTRR>
      <Zone></Zone>
      <Sub></Sub>
      <Description></Description>
      <TTL></TTL>
    </DNSZoneTXTRR>
  </DNSZoneTXTRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneTXTRRs
Table type	Multi-instance table
Row name	DNSZoneTXTRR
Restrictions	Only DNS zone txt resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Sub	Sub name of the resource record.	Index	String, case-insensitive.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 254 characters.	
Description	Description text of the resource record.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/DNSZoneSRVRRs

This table contains information about DNS zone srv resource records.

XML structure

```
<GLB>
  <DNSZoneSRVRRs>
    <DNSZoneSRVRR>
      <Zone></Zone>
      <ServiceName></ServiceName>
      <HostName></HostName>
      <Port></Port>
      <Priority></Priority>
      <Weight></Weight>
      <TTL></TTL>
    </DNSZoneSRVRR>
  </DNSZoneSRVRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSRVRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneSRVRR
Restrictions	Only Global DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
ServiceName	Service name.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
HostName	Host name offering the service.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Port	Port number of the resource record.	Index	Unsigned integer. Value range: 0 to 65535.	Index
Priority	Priority of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	The smaller the value, the higher the priority.
Weight	Weight value of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/LocalDefaultSyncGroupMems

This table contains information about the local default synchronization group member.

XML structure

```
<GLB>
  <LocalDefaultSyncGroupMems>
    <LocalDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <RetryTimes></RetryTimes>
      <CipherKey></CipherKey>
      <Role></Role>
      <Online></Online>
    </LocalDefaultSyncGroupMem>
  </LocalDefaultSyncGroupMems>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalDefaultSyncGroupMems
Table type	Multi-instance table
Row name	LocalDefaultSyncGroupMem
Restrictions	Only local default synchronization group member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the local default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the local default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
ServiceEnable	Enable the communicating function of the local default synchronization group member.	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
Interval	Specify the probe interval for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 259200. Unit: second.	N/A
RetryTimes	Specify the probe retry times for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
CipherKey	Specify an	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication key in encrypted form.		Length: 1 to 53 characters.	
Role	Role of the default synchronization group member.	N/A	Enumeration: • 1—Master • 2—Standby	N/A
Online	Online state of the default synchronization group member.	N/A	Enumeration: • 0—Offline • 1—Online	N/A

GLB/RemoteDefaultSyncGroupMems

This table contains information about a remote default synchronization group member.

XML structure

```
<GLB>
  <RemoteDefaultSyncGroupMems>
    <RemoteDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
      <Role></Role>
      <ConnectState></ConnectState>
      <Online></Online>
    </RemoteDefaultSyncGroupMem>
  </RemoteDefaultSyncGroupMems>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	RemoteDefaultSyncGroupMems
Table type	Multi-instance table
Row name	RemoteDefaultSyncGroupMem
Restrictions	Only remote default synchronization group member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the remote default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the remote default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
Role	Role of the default synchronization group member.	N/A	Enumeration: • 1—Master • 2—Standby	N/A
ConnectState	Connection state of the default synchronization group member.	N/A	Enumeration: • 0—Disabled • 1—Connecting • 2—Listening • 3— Established	N/A
Online	Online state of the default synchronization group member.	N/A	Enumeration: • 0—Offline • 1—Online.	N/A

GLB/SyncGroupMemberIPAddresses

This table contains information about the IP address of the synchronization group member.

XML structure

```
<GLB>
  <SyncGroupMemberIPAddresses>
    <SyncGroupMemberIPAddress>
      <SyncGroupMemberType></SyncGroupMemberType>
      <SyncGroupMemberName></SyncGroupMemberName>
      <Ipv4Address></Ipv4Address>
    </SyncGroupMemberIPAddress>
  </SyncGroupMemberIPAddresses>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	SyncGroupMemberIPAddresses
Table type	Multi-instance table
Row name	SyncGroupMemberIPAddress
Restrictions	Only synchronization group member IP address can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncGroupMemberType	Type of the synchronization group member.	Index	Enumeration: • 0—Local • 1—Remote	N/A
SyncGroupMemberName	Name of the synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the synchronization group member.	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.

GLB/DataCenters

This table contains information about a data center.

XML structure

```
<GLB>
  <DataCenters>
    <DataCenter>
      <Name></Name>
      <Description></Description>
      <ServiceEnable></ServiceEnable>
      <Online></Online>
      <Servers></Servers>
      <Links></Links>
    </DataCenter>
  </DataCenters>
```

```
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DataCenters
Table type	Multi-instance table
Row name	DataCenter
Restrictions	Only data center can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Specify the description of the data center.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
ServiceEnable	Enable the data center function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Online	Online state of the data center.	N/A	Enumeration: • 0—Offline • 1—Online.	N/A
Servers	The server num of the data center.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Links	The link num of the data center.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

GLB/DataCenterLinks

This table contains information about the links of a data center.

XML structure

```
<GLB>
  <DataCenterLinks>
    <DataCenterLink>
```

```
      <DataCenter></DataCenter>
      <Link></Link>
      <InputRate></InputRate>
      <OutputRate></OutputRate>
    </DataCenterLink>
  </DataCenterLinks>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DataCenterLinks
Table type	Multi-instance table
Row name	DataCenterLink
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
InputRate	Input rate of the link.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Bytes/s.	N/A
OutputRate	Output rate of the link.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Bytes/s.	N/A

GLB/Servers

This table contains information about a server.

XML structure

```
<GLB>
  <Servers>
    <Server>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <User></User>
      <CipherPassword></CipherPassword>
      <SimplePassword></SimplePassword>
      <Online></Online>
      <VirtualServers></VirtualServers>
    </Server>
  </Servers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	Only server of server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Interval	Specify the communication interval of the server.	N/A	Unsigned integer. Value range:5 to 2419200.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
User	Specify the communication user of the server.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
CipherPassword	Specify the encrypted password of the server.	N/A	String, case-sensitive. Length: 1 to 113 characters.	N/A
SimplePassword	Specify the plaintext password of the server.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Online	Online state of the server.	N/A	Enumeration: • 0—Offline • 1—Online.	N/A
VirtualServers	The virtual server number of the server.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

GLB/LocalServers

This table contains information about the local server.

XML structure

```
<GLB>
  <LocalServers>
    <LocalServer>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Online></Online>
    </LocalServer>
  </LocalServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalServers
Table type	Multi-instance table
Row name	LocalServer
Restrictions	None.
Support for row creation and	No

deletion

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Local server name.	Index	String, case-insensitive.	Must be localhost.
ServiceEnable	Enable the server function.	N/A	Enumeration: • 0—Disable • 1—Enable.	N/A
Online	Online state of the local server.	N/A	Enumeration: • 0—Offline • 1—Online.	N/A

GLB/ServerIPAddresses

This table contains information about the IP address of a server.

XML structure

```
<GLB>
  <ServerIPAddresses>
    <ServerIPAddress>
      <DataCenter></DataCenter>
      <Server></Server>
      <Ipv4Address></Ipv4Address>
    </ServerIPAddress>
  </ServerIPAddresses>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ServerIPAddresses
Table type	Multi-instance table
Row name	ServerIPAddress
Restrictions	Only server address can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the server.	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.

GLB/ServerVirtualServers

This table contains information about the virtual servers of a server.

XML structure

```
<GLB>
  <ServerVirtualServers>
    <ServerVirtualServer>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
    </ServerVirtualServer>
  </ServerVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ServerVirtualServers
Table type	Multi-instance table
Row name	ServerVirtualServer
Restrictions	Only virtual server of server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/LocalVirtualServers

This table contains information about the virtual server of a local server.

XML structure

```
<GLB>
  <LocalVirtualServers>
    <LocalVirtualServer>
      <DataCenter></DataCenter>
      <LocalServer></LocalServer>
       <VirtualServerType></VirtualServerType>
      <VirtualServer></VirtualServer>
    </LocalVirtualServer>
  </LocalVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalVirtualServers
Table type	Multi-instance table
Row name	LocalVirtualServer
Restrictions	Only virtual server of local server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocalServer	Local server name.	Index	String, case-insensitive.	Must be localhost.
VirtualServerType	Virtual server type.	Index	Enumeration: • 0—virtual server • 1—virtual IP.	N/A
VirtualServer	Virtual server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalDNSListeners

This table contains information about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListeners>
    <GlobalDNSListener>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PortNumber></Ipv4PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </GlobalDNSListener>
  </GlobalDNSListeners>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListeners
Table type	Multi-instance table
Row name	GlobalDNSListener
Restrictions	Only global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv4PortNumber	IPv4 port number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ServiceEnable	Enable the global DNS listener.	N/A	Enumeration: • 0—Disable • 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: • 0—No response. • 1—Reject.	N/A

GLB/GlobalDNSListenerStats

This table contains statistics about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListenerStats>
    <GlobalDNSListenerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </GlobalDNSListenerStat>
  </GlobalDNSListenerStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListenerStats
Table type	Multi-instance table
Row name	GlobalDNSListenerStat
Restrictions	Only stats of global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedValidRequests	Number of valid requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UnrespondedRequests	Number of unresponded requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
RejectedRequests	Number of rejected requests that the global DNS listener received from	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the device.			

GLB/GlobalDNSListenerTypeStats

This table contains different types of statistics about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListenerTypeStats>
    <GlobalDNSListenerTypeStat>
      <Name></Name>
      <Type></Type>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </GlobalDNSListenerTypeStat>
  </GlobalDNSListenerTypeStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListenerTypeStats
Table type	Multi-instance table
Row name	GlobalDNSListenerTypeStat
Restrictions	Only stats of global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	global DNS listener statistics.		• 0—A. • 1—AAAA. • 2—CNAME. • 3—MX. • 4—NS. • 5—PTR. • 6—SOA.	
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedValidRequests	Number of valid requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UnrespondedRequests	Number of unresponded requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
RejectedRequests	Number of rejected requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

GLB/GlobalDNSMaps

This table contains information about a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMaps>
    <GlobalDNSMap>
```

```
      <Name></Name>
      <TTL></TTL>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <ServiceEnable></ServiceEnable>
    </GlobalDNSMap>
  </GlobalDNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMaps
Table type	Multi-instance table
Row name	GlobalDNSMap
Restrictions	Only global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Topology. • 4—Proximity.	N/A
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Topology. • 4—Proximity.	N/A
PredictorPreferred	Preferred predictor	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm for GLB to select a virtual server pool to service a DNS request.		• 1—Round-robin • 2—Random. • 3—Topology. • 4—Proximity.	
ServiceEnable	Enable the global DNS map.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

GLB/GlobalDNSMapDomains

This table contains information about the domains of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapDomains>
    <GlobalDNSMapDomain>
      <GlobalDNSMap></GlobalDNSMap>
      <Domain></Domain>
    </GlobalDNSMapDomain>
  </GlobalDNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapDomains
Table type	Multi-instance table
Row name	GlobalDNSMapDomain
Restrictions	Only domain of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNSMap	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	global DNS map.		case-insensitive. Length: 1 to 253 characters.	

GLB/GlobalDNSMapVirtualServerPools

This table contains information about the virtual server pool of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapVirtualServerPools>
    <GlobalDNSMapVirtualServerPool>
      <GlobalDNSMap></GlobalDNSMap>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Weight></Weight>
    </GlobalDNSMapVirtualServerPool>
  </GlobalDNSMapVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapVirtualServerPools
Table type	Multi-instance table
Row name	GlobalDNSMapVirtualServerPool
Restrictions	Only virtual server pool of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNS Map	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Virtual server pool for the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the	N/A	Unsigned integer.	A larger number means a higher

Column name	Column description	Column type	Data type and restrictions	Remarks
	global virtual pool.		Value range: 1 to 255.	weight.

GLB/GlobalDNSMapStats

This table contains statistics about a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapStats>
    <GlobalDNSMapStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <MatchedDnsReqs></MatchedDnsReqs>
      <MatchedDnsRequestRate></MatchedDnsRequestRate>
    </GlobalDNSMapStat>
  </GlobalDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapStats
Table type	Multi-instance table
Row name	GlobalDNSMapStat
Restrictions	Only stats of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	card on the device.		Value range: 0 to 255.	
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
MatchedDnsReqs	Matched DNS requests that the global DNS listener received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
MatchedDnsRequestRate	Matched DNS requests that the global DNS map received per second.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

GLB/GlobalVirtualServerPools

This table contains information about a global virtual server pool.

XML structure

```
<GLB>
  <GlobalVirtualServerPools>
    <GlobalVirtualServerPool>
      <Name></Name>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <TotalVirtualServers></TotalVirtualServers>
      <ActiveVirtualServers></ActiveVirtualServers>
    </GlobalVirtualServerPool>
  </GlobalVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVirtualServerPools
Table type	Multi-instance table
Row name	GlobalVirtualServerPool
Restrictions	Only global virtual server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Least-connection(not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 0—None. • 1—Round-robin. • 2—Random. • 3—Least-connection(not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	• N/A	• Enumeration: • 1—Round-robin. • 2—Random. • 3—Least-connection(not supported) • 4—Topology. • 5—Proximity. • 15—First-available.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
TotalVirtualServers	Total number of virtual servers in the global virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ActiveVirtual Servers	Active number of virtual servers in the global virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

GLB/GVSPVirtualServers

This table contains information about a virtual server of the global virtual server pool.

XML structure

```
<GLB>
  <GVSPVirtualServers>
    <GVSPVirtualServer>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
      <Ipv4Address>
      <PortNumber>
      <State></State>
    </GVSPVirtualServer>
  </GVSPVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServers
Table type	Multi-instance table
Row name	GVSPVirtualServer
Restrictions	Only virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtua	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
lServerPool	global virtual server pool.		case-insensitive. Length: 1 to 63 characters.	
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher weight.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Busy.	N/A

GLB/GVSPVirtualIPs

This table contains information about the virtual IP address of a global virtual server pool.

XML structure

```
<GLB>
  <GVSPVirtualIPs>
    <GVSPVirtualIP>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
```

```
      <Server></Server>
      <VirtualIP></VirtualIP>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
      <State></State>
    </GVSPVirtualIP>
  </GVSPVirtualIPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualIPs
Table type	Multi-instance table
Row name	GVSPVirtualIP
Restrictions	Only virtual ip can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the global virtual server pool.	Index	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
ProbeSuccessCriteria	Probe success criteria for virtual IP.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Link	Link of the virtual IP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Weight	Weight of the virtual IP.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher weight.
State	State of the virtual IP.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Busy.	N/A

GLB/GVSPProbes

This table contains information the probe method of a global virtual server pool.

XML structure

```
<GLB>
  <GVSPProbes>
    <GVSPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Probe></Probe>
    </GVSPProbe>
  </GVSPProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPProbes
Table type	Multi-instance table
Row name	GVSPProbe
Restrictions	Only global virtual server pool probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the global virtual server	Index	String, case-insensitive. Length: 1 to 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool.		characters.	

GLB/GVSPVirtualServerProbes

This table contains information the probe method of a virtual server.

XML structure

```
<GLB>
  <GVSPVirtualServerProbes>
    <GVSPVirtualServerProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <Probe></Probe>
      <State></State>
    </GVSPVirtualServerProbe>
  </GVSPVirtualServerProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServerProbes
Table type	Multi-instance table
Row name	GVSPVirtualServerProbe
Restrictions	Only virtual server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's	Index	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.		characters.	
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the virtual server member.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	Probe state of the virtual server.	N/A	Enumeration: • 0— Invalid. • 1— Succeeded. • 2—Failed. • 3—In progres	N/A

GLB/GVSPVIPProbes

This table contains information the probe method of a virtual IP.

XML structure

```
<GLB>
  <GVSPVIPProbes>
    <GVSPVIPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualIP></VirtualIP>
      <Probe></Probe>
      <State></State>
    </GVSPVIPProbe>
  </GVSPVIPProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVIPProbes
Table type	Multi-instance table
Row name	GVSPVIPProbe
Restrictions	Only global virtual ip probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	Must be “localhost”
VirtualIP	Virtual IP address of the virtual IP.	Index	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the virtual IP.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	Probe state of the virtual IP.	N/A	Enumeration: • 0— Invalid. • 1— Succeeded. • 2—Failed. • 3---In progress	N/A

GLB/GTopoRegionVSPs

This table contains information about the mapping between a global region and a global virtual server pool.

XML structure

```
<GLB>
  <GTopoRegionVSPs>
    <GTopoRegionVSP>
      <GlobalRegion></GlobalRegion>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Priority></Priority>
    </GTopoRegionVSP>
  </GTopoRegionVSPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionVSPs
Table type	Multi-instance table
Row name	GTopoRegionVSP
Restrictions	Only Topology Region VSP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher priority.

GLB/GTopoRegionIPv4s

This table contains information about the mapping between a global region and an IP address.

XML structure

```
<GLB>
  <GTopoRegionIPv4s>
    <GTopoRegionIPv4>
      <GlobalRegion></GlobalRegion>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Priority></Priority>
    </GTopoRegionIPv4>
  </GTopoRegionIPv4s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionIPv4s
Table type	Multi-instance table
Row name	GTopoRegionIPv4
Restrictions	Only Topology Region IP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Address	IPv4 address.	Index	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
IPv4MaskLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	The column cannot be configured if no IPv4 address is configured.
Priority	Priority of the global topology region.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher priority.

GLB/GlobalRegions

This table contains information about a global region.

XML structure

```
<GLB>
  <GlobalRegions>
    <GlobalRegion>
      <Name></Name>
    </GlobalRegion>
  </GlobalRegions>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegions
Table type	Multi-instance table
Row name	GlobalRegion
Restrictions	Only region can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	Name

GLB/GlobalRegionISPs

This table contains information about the global ISP for a global region.

XML structure

```
<GLB>
  <GlobalRegionISPs>
    <GlobalRegionISP>
      <GlobalRegion></GlobalRegion>
      <GlobalISP></GlobalISP>
    </GlobalRegionISP>
  </GlobalRegionISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegionISPs
Table type	Multi-instance table
Row name	GlobalRegionISP
Restrictions	Only Region ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalISP	ISP for the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalISPs

This table contains information about a global ISP.

XML structure

```
<GLB>
  <GlobalISPs>
    <GlobalISP>
      <Name></Name>
      <Origin></Origin>
    </GlobalISP>
  </GlobalISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPs
Table type	Multi-instance table
Row name	GlobalISP
Restrictions	Only ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Origin	Origin of the IPv4 address.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Import and manual.	N/A

GLB/GlobalIpv4ISPAddressGroups

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPAddressGroups>
    <GlobalIpv4ISPAddressGroup>
      <GlobalISP></GlobalISP>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </GlobalIpv4ISPAddressGroup>
  </GlobalIpv4ISPAddressGroups>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPAddressGroups
Table type	Multi-instance table
Row name	GlobalIpv4ISPAddressGroup
Restrictions	Only IPv4 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	The value must be equal to the summation of the address and the mask.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Example: 1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 1 to 32.	N/A
Origin	Origin of the IPv4 address.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Import and manual.	N/A

GLB/GlobalISPFile

This table contains information about a global ISP file.

XML structure

```
<GLB>
  <GlobalISPFile>
    <FileName></FileName>
  </GlobalISPFile>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the global ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

GLB/GlobalVRFProximityParameters

This table contains information about global proximity parameters.

XML structure

```
<GLB>
  <GlobalVRFProximityParameters>
    <GlobalVRFProximityParameter>
    <VRF></VRF>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbe></DefaultProbe>
    </GlobalVRFProximityParameter>
  </GlobalVRFProximityParameters>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVRFProximityParameters
Table type	Multi-instance table
Row name	GlobalVRFProximityParameter
Restrictions	Only proximity parameter can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means a natural mask.
Timeout	The lifetime of global proximity entries.	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TTLWeight	The weight of	N/A	Unsigned integer.	N/A

	TTL.		Value range: 0 to 255.	
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MaxNumber	Upper limit for global proximity entries.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbe	Default probe method for the global proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GlobalIpv4ProximityTables

This table contains information about global IPv4 proximity items.

XML structure

```
<GLB>
  <GlobalIpv4ProximityTables>
    <GlobalIpv4ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Lifetime></Lifetime>
      <BestLink></BestLink>
    </GlobalIpv4ProximityTable>
  </GlobalIpv4ProximityTables>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityTables
Table type	Multi-instance table
Row name	GlobalIpv4ProximityTable

Restrictions	Only IPv4 proximity items can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Lifetime	Lifetime of global proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalIpv4ProximityNodes

This table contains information about the real servers of global IPv4 proximity items.

XML structure

```
<GLB>
  <GlobalIpv4ProximityNodes>
    <GlobalIpv4ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
```

```
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Priority></Priority>
      <Link></Link>
    </GlobalIpv4ProximityNode>
  </GlobalIpv4ProximityNodes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityNodes
Table type	Multi-instance table
Row name	GlobalIpv4ProximityNode
Restrictions	Only IPv4 proximity node can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Priority	Priority.	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
Link	Link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalProximityStats

This table contains information about global proximity entries.

XML structure

```
<GLB>
  <GlobalProximityStats>
    <GlobalProximityStat>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <TotalCount></TotalCount>
      <Ipv4Count></Ipv4Count>
    </GlobalProximityStat>
  </GlobalProximityStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalProximityStats
Table type	Multi-instance table
Row name	GlobalProximityStat
Restrictions	Only proximity can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
TotalCount	Total number of global	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	proximity entries.		2^{32}-1.	
Ipv4Count	The number of global IPv4 proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

GLB/GlobalDNSZones

This table contains information about a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZones>
    <GlobalDNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </GlobalDNSZone>
  </GlobalDNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZones
Table type	Multi-instance table
Row name	GlobalDNSZone
Restrictions	Only global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the global DNS zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/GlobalDNSZoneSOAs

This table contains information about an SOA resource record for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneSOAs>
    <GlobalDNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </GlobalDNSZoneSOA>
  </GlobalDNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSOAs
Table type	Multi-instance table
Row name	GlobalDNSZoneSOA
Restrictions	Only SOA record of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
PrimaryNS	Name of the primary name server.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 253	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second.	N/A
Expire	Expiration time	N/A	Unsigned integer. Value range: 500 to 2^{32}-1. Unit: second.	N/A
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/GlobalDNSZoneMXRRs

This table contains information about MX resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneMXRRs>
    <GlobalDNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
    </GlobalDNSZoneMXRR>
  </GlobalDNSZoneMXRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneMXRRs

Table type	Multi-instance table
Row name	GlobalDNSZoneMXRR
Restrictions	Only MX records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

GLB/GlobalDNSZoneCNAMERRs

This table contains information about CNAME resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneCNAMERRs>
    <GlobalDNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
    </GlobalDNSZoneCNAMERR>
  </GlobalDNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneCNAMERRs

Table type	Multi-instance table
Row name	GlobalDNSZoneCNAMERR
Restrictions	Only CNAME records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSZoneNSRRs

This table contains information about NS resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneNSRRs>
    <GlobalDNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
    </GlobalDNSZoneNSRR>
  </GlobalDNSZoneNSRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneNSRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneNSRR

Restrictions	Only NS records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative name server name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSRevZones

This table contains information about a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZones>
    <GlobalDNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
      <TTL></TTL>
    </GlobalDNSRevZone>
  </GlobalDNSRevZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZones
Table type	Multi-instance table
Row name	GlobalDNSRevZone
Restrictions	Only global DNS reverse zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
TTL	TTL time of the global reverse zone.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: second.	N/A

GLB/GlobalDNSRevZoneRRs

This table contains information about a resource record for a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZoneRRs>
    <GlobalDNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
    </GlobalDNSRevZoneRR>
  </GlobalDNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZoneRRs
Table type	Multi-instance table
Row name	GlobalDNSRevZoneRR
Restrictions	Only records of global DNS reverse zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Address	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalIpv4ISPLists

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPLists>
    <GlobalIpv4ISPList>
      <GlobalISP></GlobalISP>
      <AllCount></AllCount>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </GlobalIpv4ISPList>
  </GlobalIpv4ISPLists>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPLists
Table type	Multi-instance table
Row name	GlobalIpv4ISPList
Restrictions	Only IPv4 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AllCount	The number of all IPv4 address.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	The value must be equal to the summation of the address and the mask. Example: 1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 1 to 32.	N/A
Origin	Origin of the IPv4 address.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Import and manual.	N/A

GLB/GlobalIpv4ProximityTableLists

This table contains information about global IPv4 proximity items.

XML structure

```
<GLB>
  <GlobalIpv4ProximityTableLists>
    <GlobalIpv4ProximityTableList>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <AllCount></AllCount>
      <Lifetime></Lifetime>
      <BestLink></BestLink>
    </GlobalIpv4ProximityTableList>
  </GlobalIpv4ProximityTableLists>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityTables
Table type	Multi-instance table
Row name	GlobalIpv4ProximityTable
Restrictions	Only IPv4 proximity items can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
AllCount	The number of all global proximity items.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Lifetime	Lifetime of global proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GLBDomainStructures

This table contains information about domain structure of GLB.

XML structure

```
<GLB>
  <GLBDomainStructures>
    <GLBDomainStructure>
      <Index></Index>
      <Domain></Domain>
      <Level></Level>
    </GLBDomainStructure>
  </GLBDomainStructures>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GLBDomainStructures
Table type	Multi-instance table
Row name	GLBDomainStructure
Restrictions	Only domain structure of GLB can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of the Domain.	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
Domain	Domain.	Index	String, case-insensitive. Length: 1 to 253 characters.	The domain name does not support wildcards including question marks (?) and asterisks (*).
Level	Level of the domain.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Contents

GLB 1
GLB/DNSZoneTXTRRs 1
GLB/DNSZoneSRVRRs 1
GLB/DNSZoneMXRRs 1
GLB/DNSZoneCNAMERRs 1
GLB/DNSZoneNSRRs 1
GLB/LocalDefaultSyncGroupMems 2
GLB/RemoteDefaultSyncGroupMems 2
GLB/SyncGroupMemberIPAddresses 2
GLB/DataCenters 2
GLB/DataCenterLinks 3
GLB/Servers 3
GLB/ServerIPAddresses 3
GLB/LocalVirtualServers 3
GLB/GlobalDNSListeners 4
GLB/GlobalDNSMaps 4
GLB/GlobalDNSMapDomains 4
GLB/GlobalDNSMapVirtualServerPools 4
GLB/GlobalVirtualServerPools 5
GLB/GVSPVirtualServers 5
GLB/GVSPVirtualIPs 5
GLB/GTopoRegionIPv4s 5
GLB/GlobalRegions 6
GLB/GlobalRegionISPs 6
GLB/GlobalISPs 6
GLB/GlobalIpv4ISPAddressGroups 6
GLB/GlobalISPFile 7
GLB/GlobalVRFProximityParameters 7
GLB/GlobalDNSRevZoneRRs 7
GLB/GlobalDNSZones 7
GLB/GlobalDNSZoneSOAs 8
GLB/GlobalDNSZoneMXRRs 8
GLB/GlobalDNSZoneCNAMERRs 8
GLB/GlobalDNSZoneNSRRs 8
GLB/GlobalIpv4ISPLists 9

GLB

GLB/DNSZoneTXTRRs

Message	Explanation
The total length exceeded the limit. 总长度超过限制。	The total length exceeded the limit. 总长度超过限制。

GLB/DNSZoneSRVRRs

Message	Explanation
The total length exceeded the limit. 总长度超过限制。	The total length exceeded the limit. 总长度超过限制。

GLB/DNSZoneMXRRs

Message	Explanation
Please specify different values for the subname and mail server host name settings. 子域名和邮件服务器主机名的配置不能相同。	Please specify different values for the subname and mail server host name settings. 子域名和邮件服务器主机名的配置不能相同。

GLB/DNSZoneCNAMERRs

Message	Explanation
Please specify different values for the alias and canonical name settings. 别名和规范名称的配置不能相同。	Please specify different values for the alias and canonical name settings. 别名和规范名称的配置不能相同。

GLB/DNSZoneNSRRs

Message	Explanation
Please specify different values for the subname and authoritative name server host name settings. 子域名和权威名称服务器主机名的配置不能相同。	Please specify different values for the subname and authoritative name server host name settings. 子域名和权威名称服务器主机名的配置不能相同。

GLB/LocalDefaultSyncGroupMems

Message	Explanation
The member name has been used by another synchronization group member. 该名字已被其他类型同步组成员使用。	The member name has been used by another synchronization group member. 该名字已被其他类型同步组成员使用。
Invalid authentication key. 认证字不合法。	Invalid authentication key. 认证字不合法。

GLB/RemoteDefaultSyncGroupMems

Message	Explanation
The member name has been used by another synchronization group member. 该名字已被其他类型同步组成员使用。	The member name has been used by another synchronization group member. 该名字已被其他类型同步组成员使用。

GLB/SyncGroupMemberIPAddresses

Message	Explanation
The IPv4 address has been configured for another synchronization group member. 该地址已被其他类型同步组成员使用。	The IPv4 address has been configured for another synchronization group member. 该地址已被其他类型同步组成员使用。

GLB/DataCenters

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/DataCenterLinks

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。
The link has been referenced by another data center. 该链路已经被其他数据中心引用。	The link has been referenced by another data center. 该链路已经被其他数据中心引用。

GLB/Servers

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。
Invalid password. 密码不合法。	Invalid password. 密码不合法。

GLB/ServerIPAddresses

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/LocalVirtualServers

Message	Explanation
The member has been referenced by the local SLB device of another data center. 该成员已经被其他数据中心的本地负载均衡设备引用。	The member has been referenced by the local SLB device of another data center. 该成员已经被其他数据中心的本地负载均衡设备引用。

Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSListeners

Message	Explanation
The IP address and port number have been configured. IP地址和端口已配置。	The IP address and port number have been configured. IP 地址和端口已配置。

GLB/GlobalDNSMaps

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSMapDomains

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSMapVirtualServerPools

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member.	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设

存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	备执行同步本机配置数据操作。

GLB/GlobalVirtualServerPools

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GVSPVirtualServers

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GVSPVirtualIPs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GTopoRegionIPv4s

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

同步组成员设备执行同步本机配置数据操作。	

GLB/GlobalRegions

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalRegionISPs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalISPs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalIpv4ISPAddressGroups

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalISPFile

Message	Explanation
The ISP name is invalid. ISP名称不合法。	The ISP name is invalid. ISP 名称不合法。

GLB/GlobalVRFProximityParameters

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSRevZoneRRs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSZones

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSZoneSOAs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

GLB/GlobalDNSZoneMXRRs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。
Please specify different values for the subname and mail server host name settings. 子域名和邮件服务器主机名的配置不能相同。	Please specify different values for the subname and mail server host name settings. 子域名和邮件服务器主机名的配置不能相同。

GLB/GlobalDNSZoneCNAMERRs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。
Please specify different values for the alias and canonical name settings. 别名和规范名称的配置不能相同。	Please specify different values for the alias and canonical name settings. 别名和规范名称的配置不能相同。

GLB/GlobalDNSZoneNSRRs

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设

member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	备执行同步本机配置数据操作。
Please specify different values for the subname and authoritative name server host name settings. 子域名和权威名称服务器主机名的配置不能相同。	Please specify different values for the subname and authoritative name server host name settings. 子域名和权威名称服务器主机名的配置不能相同。

GLB/GlobalIpv4ISPLists

Message	Explanation
Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。	Configuration conflicts exist. Please execute the synchronize local configuration data operation on a default synchronization group member. 存在配置冲突，不允许下发配置，请选择一个缺省同步组成员设备执行同步本机配置数据操作。

Contents

GRPC 1

GRPC/Configuration 1
XML structure 1
Table description 1
Columns 1
GRPC/SensorGroups 2
XML structure 2
Table description 3
Columns 3
GRPC/SensorGroups/SensorGroup 3
XML structure 3
Table description 4
Columns 4
GRPC/SensorGroups/SensorGroup/SensorPaths 4
XML structure 4
Table description 4
Columns 4
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath 5
XML structure 5
Table description 5
Columns 5
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters 6
XML structure 6
Table description 6
Columns 6
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter 6
XML structure 6
Table description 6
Columns 7
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions 7
XML structure 7
Table description 7
Columns 8
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions/ColumnCondition 8
XML structure 8
Table description 8
Columns 8
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions 9
XML structure 9
Table description 9
Columns 9
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions/ColumnCondition 9
XML structure 10
Table description 10
Columns 10
GRPC/DestinationGroups 10
XML structure 10
Table description 11
Columns 11
GRPC/DestinationGroups/DestinationGroup 11
XML structure 11
Table description 12
Columns 12
GRPC/DestinationGroups/DestinationGroup/Destinations 12
XML structure 12
Table description 12

Columns ····· 13
GRPC/DestinationGroups/DestinationGroup/Destinations/Destination ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 13
GRPC/DestinationGroups/DestinationGroup/Domains ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
GRPC/DestinationGroups/DestinationGroup/Domains/Domain ····· 14
XML structure ····· 14
Table description ····· 15
Columns ····· 15
GRPC/Subscriptions ····· 15
XML structure ····· 15
Table description ····· 16
Columns ····· 16
GRPC/Subscriptions/Subscription ····· 16
XML structure ····· 17
Table description ····· 17
Columns ····· 17
GRPC/Subscriptions/Subscription/SensorProfiles ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
GRPC/Subscriptions/Subscription/SensorProfiles/SensorProfile ····· 18
XML structure ····· 19
Table description ····· 19
Columns ····· 19
GRPC/Subscriptions/Subscription/DestinationProfiles ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
GRPC/Subscriptions/Subscription/DestinationProfiles/DestinationProfile ····· 20
XML structure ····· 20
Table description ····· 21
Columns ····· 21

GRPC

GRPC/Configuration

This table contains gRPC configuration information.

XML structure

```
<GRPC>
  <Configuration>
    <State></State>
    <Port></Port>
    <IdleTime></IdleTime>
    <SecurityParams>
      <PKIDomainName></PKIDomainName>
    </SecurityParams>
    <DataModel></DataModel>
    <SensorMode></SensorMode>
    <CPUUsage></CPUUsage>
  </Configuration>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the gRPC service	N/A	Enumeration: • **enable**—The gRPC service is enabled. • **disable**—The gRPC service is disabled.	When State is to be disabled all gRPC configuration will be deleted.
Port	Port number of the gRPC service	N/A	Unsigned integer. Value range: 1 to 65535.	Configuring Port is not allowed when State is or is to be disabled.

Column name	Column description	Column type	Data type and restrictions	Remarks
IdleTime	Idle timeout time for gRPC sessions in minutes	N/A	Unsigned integer. Value range: 0 to 30.	N/A
SecurityParams	Security parameters	Data Structure	Members include: PKIDomainName**.**	SecurityParams
PKIDomainName	PKI domain Name	N/A	String. Length: 1 to 31 characters. Case insensitive.	PKIDomainName
DataModel	Data model of the gRPC service	N/A	Enumeration: • **0**—2-layer data model**.** • **1**—3-layer data model.	
SensorMode	Sensor mode	N/A	Enumeration: • **simple**—Simple sensor mode. • **flex**—Flexible sensor mode.	In simple sensor mode, the logical operator on the filtering is fixed at logical AND. In flexible sensor mode, you can specify the AND or OR operator on the conditions in a filter.
CPUUsage	Specify the maximum CPU usage allowed for telemetry service	N/A	Unsigned integer. percent range: 1 to 50. Default: 4294967295.	gRPC data collection stops when CPU usage threshold is exceeded

GRPC/SensorGroups

This table contains gRPC sensor group information.

XML structure

```
<GRPC>
  <SensorGroups>
    <SensorGroup>
      <GroupName></GroupName>
      <SensorPaths>
        <SensorPath>
          <Path></Path>
          <EventCondition></EventCondition>
          <Depth></Depth>
          <Filters>
            <Filter>
            <Name></Name>
            <ConditionRelation></ConditionRelation>
            <ColumnConditions>
              <ColumnCondition>
```

```
            <OpField></OpField>
            <OpType></OpType>
            <OpValue></OpValue>
            </ColumnCondition>
          </ColumnConditions>
          </Filter>
        </Filters>
        <ColumnConditions>
          <ColumnCondition>
            <ColumnName></ColumnName>
            <ColumnCondition></ColumnCondition>
            <ColumnValue></ColumnValue>
          </ColumnCondition>
        </ColumnConditions>
      </SensorPath>
    </SensorPaths>
  </SensorGroup>
 </SensorGroups>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	SensorGroups
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SensorGroup	SensorGroup table	Multi-instance table	N/A	For more information, see the SensorGroup table.

GRPC/SensorGroups/SensorGroup

This table contains gRPC sensor group information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorGroup
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	index	String. Length: 1 to 31 characters.	N/A
SensorPaths	Sensor path information	Sublist	N/A	For more information, see the SensorPaths table.

GRPC/SensorGroups/SensorGroup/SensorPaths

This table contains gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPaths
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SensorPath	SensorPath table	Multi-instance table	N/A	For more information, see the SensorPath table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath

This table contains gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPath
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	Whether the path is supported or not depends on specific device.
EventCondition	Data pushing conditions for an event-triggered sensor path	NA	String.	NA
Depth	For the sensor path	N/A	Unsigned integer. Value range: 1 to 3.	N/A
ColumnConditions	Conditions information	Sublist	N/A	For more information, see the ColumnConditions table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters

This table contains the gRPC sensor path filters for flexible filtering.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Filters
Table type	Single-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Filter	Filter table	Multi-instance table	N/A	In this version, this table can contain only one filter. For more information, see the Filter table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter

This table contains the settings of a gRPC sensor path filter for flexible filtering.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC

Item	Description
Table name	Filter
Table type	Multi-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Filter name	Index	String. Length: 1 to 31 characters.	N/A
ConditionRelation	Logical operator on conditions in the filter	Index	Enumeration: • **and**—The filter is matched if all conditions in the filter are matched. • **or**—The filter is matched if any conditions in the filter are matched.	Read-write.
ColumnConditions	Conditions in the filter	Sublist	N/A	For more information, see the ColumnConditions table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions

This table contains the conditions in a flexible filter for filtering gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Single-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnConditions	ColumnConditions table	Multi-instance table	N/A	For more information, see the ColumnCondition table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions/ColumnCondition

This table contains information about a condition in a flexible filter for filtering gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Multi-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OpField	Attribute operand on which the operation is performed	Index	String. Length: 1 to 64 characters.	Read-write. This column must be under the filter node.
OpType	Comparison operator type	Index	Enumeration: • **eq**—Equal to. • **ge**—Greater than or equal to. • **gt**—Greater than.	Read-write.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **le**—Less than or equal to. • **lt**—Less than. • **ne**—Not equal to.	
OpValue	Value to be compared with the attribute operand	Column	String. Length: 1 to 127 characters.	Read-write.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions

This table contains GRPC sensor path condition information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Single-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnConditions	ColumnConditions table	Multi-instance table	N/A	For more information, see the ColumnCondition table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions/ColumnCondition

This table contains GRPC sensor path condition information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Multi-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnName	Condition column name	Index	String. Length: 1 to 64 characters.	Read-write. This column must be under sensor path.
ColumnCondition	Condition operator	Index	Enumeration: • **eq.** • **ge.** • **gt.** • **le.** • **lt.** • **ne.**	Read-write.
ColumnValue	Condition Column value	Column	String. Length: 1 to 127 characters.	Read-write. The threshold of the column.

GRPC/DestinationGroups

This table contains gRPC destination group information.

XML structure

```
<GRPC>
  <DestinationGroups>
    <DestinationGroup>
      <GroupName></GroupName>
      <Destinations>
        <Destination>
```

```
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Port></Port>
        <TLS></TLS>
      </Destination>
    </Destinations>
    <Domains>
      <Domain>
        <Type></Type>
        <Name></Name>
        <VRF></VRF>
        <Port></Port>
        <TLS></TLS>
      </Domain>
    </Domains>
  </DestinationGroup>
 </DestinationGroups>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	DestinationGroups
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
DestinationGroup	DestinationGroup table	Multi-instance table	N/A	For more information, see the DestinationGroup table.

GRPC/DestinationGroups/DestinationGroup

This table contains gRPC destination group information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationGroup
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	index	String. Length: 1 to 31 characters.	N/A
Destinations	Destination info	Sublist	N/A	For more information, see the Destinations table.

GRPC/DestinationGroups/DestinationGroup/Destinations

This table contains gRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Destinations
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Destination table	Multi-instance table	N/A	For more information, see the Destination table.

GRPC/DestinationGroups/DestinationGroup/Destinations/Destination

This table contains gRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Destination
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	Address of the destination group	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A
TLS	Whether use Transport Layer	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Security protocol to secure the communication		• **true**—Use Transport Layer Security protocol • **false**—Not use Transport Layer Security protocol.	

GRPC/DestinationGroups/DestinationGroup/Domains

This table contains gRPC domain information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Domains
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Domain	Domain table	Multi-instance table	N/A	For more information, see the Domain table.

GRPC/DestinationGroups/DestinationGroup/Domains/Domain

This table contains gRPC domain information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Domain
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the DNS IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
Name	Domain Name	Index	String Length: 1 to 253 characters,	N/A
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A
TLS	Whether use Transport Layer Security protocol to secure the communication	N/A	Boolean: • **true**—Use Transport Layer Security protocol • **false**—Not use Transport Layer **Security** protocol.	N/A

GRPC/Subscriptions

This table contains gRPC subscription information.

XML structure

```
<GRPC>
  <Subscriptions>
    <Subscription>
      <SubscriptionName></SubscriptionName>
      <Protocol></Protocol>
```

```
      <SourceAddress></SourceAddress>
      <SourcePort></SourcePort>
      <Dscp></Dscp>
      <JsonRowTimestamp></JsonRowTimestamp>
      <SensorProfiles>
       <SensorProfile>
        <GroupName></GroupName>
        <SampleInterval></SampleInterval>
        <SampleIntervalInMSec></SampleIntervalInMSec>
       </SensorProfile>
      </SensorProfiles>
      <DestinationProfiles>
        <DestinationProfile>
          <GroupName></GroupName>
        </DestinationProfile>
      </DestinationProfiles>
      <Encoding></Encoding>
    </Subscription>
  </Subscriptions>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	Subscriptions
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Subscription	Subscription table	Multi-instance table	N/A	For more information, see the Subscription table.

GRPC/Subscriptions/Subscription

This table contains gRPC subscription information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	Subscription
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	String. Length: 1 to 31 characters.	N/A
Protocol	Telemetry transport protocol	N/A	Enumeration: • 1—UDP • 2—GRPC	N/A
SourceAddress	Source IP address for packets	N/A	IPv4: String, in dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Interface: String, interface type and number	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Interface example: LoopBack2 In the current software version, it must be a loopback interface.
SourcePort	Port number of the sourceAddress	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Dscp	Dscp value of the packet	N/A	Unsigned integer. Value range: 0 to 63.	N/A
JsonRowTimestamp	Row-level timestamp json format protocol	N/A	Enumeration: • **enable**—The Row-level timestamp json format protocol is enabled**.** • **disable**—The Row-level timestamp json format protocol is disabled.	Only the 2-layer telemetry data model supports the json data format.
SensorProfiles	Sensor profile information	Sublist	N/A	For more information, see the SensorProfiles table.

Column name	Column description	Column type	Data type and restrictions	Remarks
DestinationProfiles	Destination profile information	Sublist	N/A	For more information, see the DestinationProfiles table.
Encoding	Data encoding format	N/A	Enumeration: • **0**—JSON. • **1**—GPB.	Only the 3-layer telemetry data model supports the GPB data encoding format.

GRPC/Subscriptions/Subscription/SensorProfiles

This table contains gRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	SensorProfiles
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SensorProfile	SensorProfile table	Multi-instance table	N/A	For more information, see the SensorProfile table.

GRPC/Subscriptions/Subscription/SensorProfiles/SensorProfile

This table contains gRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	SensorProfile
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	Index	String. Length: 1 to 31 characters.	N/A
SampleInterval	Sampling interval in seconds	N/A	Unsigned integer. Value range: 1 to 86400.	Specify this column for periodic sensor paths and only for periodic sensor paths. • If you specify this column for event-triggered sensor paths, the sensor paths do not take effect. • If you do not specify this column for periodic sensor paths, the device does not sample or push data.
SampleIntervalInMSec	Sampling interval in milliseconds	N/A	Unsigned integer. Value range:100 to 900, in steps of 100.	Specify this column for periodic sensor paths and only for periodic sensor paths. • If you specify this column for event-triggered sensor paths, the sensor paths do not take effect. • If you do not specify this column for periodic sensor paths, the device does not sample

Column name	Column description	Column type	Data type and restrictions	Remarks
				or push data.

GRPC/Subscriptions/Subscription/DestinationProfiles

This table contains gRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationProfiles
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
DestinationProfile	DestinationProfile table	Multi-instance table	N/A	For more information, see the DestinationProfile table.

GRPC/Subscriptions/Subscription/DestinationProfiles/DestinationProfile

This table contains gRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationProfile
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	Index	String. Length: 1 to 31 characters.	N/A

Contents

GRPC 1

GRPC/Configuration 1
XML structure 1
Table description 1
Columns 1
GRPC/SensorPaths 2
XML structure 2
Table description 2
Columns 3
GRPC/SensorPaths/SensorPath 3
XML structure 3
Table description 3
Columns 3
GRPC/SensorGroups 4
XML structure 4
Table description 4
Columns 5
GRPC/SensorGroups/SensorGroup 5
XML structure 5
Table description 5
Columns 5
GRPC/SensorGroups/SensorGroup/SensorPaths 6
XML structure 6
Table description 6
Columns 6
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath 6
XML structure 6
Table description 6
Columns 7
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters 7
XML structure 7
Table description 7
Columns 8
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter 8
XML structure 8
Table description 8
Columns 8
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions 9
XML structure 9
Table description 9
Columns 9
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions/ColumnCondition 9
XML structure 10
Table description 10
Columns 10
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions 10
XML structure 10
Table description 11
Columns 11
GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions/ColumnCondition 11
XML structure 11
Table description 11
Columns 11
GRPC/DestinationGroups 12
XML structure 12
Table description 13

Columns ····· 13
GRPC/DestinationGroups/DestinationGroup ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 13
GRPC/DestinationGroups/DestinationGroup/Destinations ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
GRPC/DestinationGroups/DestinationGroup/Destinations/Destination ····· 14
XML structure ····· 14
Table description ····· 15
Columns ····· 15
GRPC/DestinationGroups/DestinationGroup/Domains ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 16
GRPC/DestinationGroups/DestinationGroup/Domains/Domain ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 16
GRPC/Subscriptions ····· 17
XML structure ····· 17
Table description ····· 18
Columns ····· 18
GRPC/Subscriptions/Subscription ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
GRPC/Subscriptions/Subscription/SensorProfiles ····· 19
XML structure ····· 19
Table description ····· 20
Columns ····· 20
GRPC/Subscriptions/Subscription/SensorProfiles/SensorProfile ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
GRPC/Subscriptions/Subscription/DestinationProfiles ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 22
GRPC/Subscriptions/Subscription/DestinationProfiles/DestinationProfile ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22

GRPC

GRPC/Configuration

This table contains gRPC configuration information.

XML structure

```
<GRPC>
  <Configuration>
    <State></State>
    <Port></Port>
    <IdleTime></IdleTime>
    <SecurityParams>
      <PKIDomainName></PKIDomainName>
    </SecurityParams>
    <DataModel></DataModel>
    <SensorMode></SensorMode>
    <CPUUsage></CPUUsage>
  </Configuration>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the gRPC service	N/A	Enumeration: • **enable**—The gRPC service is enabled. • **disable**—The gRPC service is disabled.
Port	Port number of the gRPC service	N/A	Unsigned integer. Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
IdleTime	Idle timeout time for gRPC sessions in minutes	N/A	Unsigned integer. Value range: 0 to 30.
SecurityParams	Security parameters	Data Structure	Members include: PKIDomainName
PKIDomainName	PKI domain Name	N/A	String. Length: 1 to 31 characters. Case insensitive.
DataModel	Data model of the gRPC service	N/A	Enumeration: • **0**—2-layer data model**.** • **1**—3-layer data model.
SensorMode	Mode of sensor	N/A	Enumeration: • **simple**—Simple sensor mode. • **flex**—Flexible sensor mode.
CPUUsage	Specify the maximum CPU usage allowed for telemetry service	N/A	Unsigned integer. percent range: 1 to 50. Default: 4294967295.

GRPC/SensorPaths

This table contains gRPC sensor paths information.

XML structure

```
<GRPC>
  <SensorPaths>
    <SensorPath>
      <Path></Path>
      <MinSampleInterval></MinSampleInterval>
    </SensorPath>
  </SensorPaths>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	SensorPaths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SensorPath	SensorPath table	Multi-instance table	• N/A

GRPC/SensorPaths/SensorPath

This table contains gRPC sensor paths information.

XML structure

Please refer to the XML structure of GRPC/SensorPaths.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPath
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Path	Path of the node to be show sample interval	Index	String. Case insensitive. Length: 1 to 255 characters.	N/A
MinSampleInterval	Mininum sampling interval in milliseconds	N/A	Unsigned integer. Value range: 100 to 86400000.	Display all data tables and event tables with customized minimum sampling period.The event tables only include full report event tables.

GRPC/SensorGroups

This table contains gRPC sensor group information.

XML structure

```
<GRPC>
  <SensorGroups>
    <SensorGroup>
      <GroupName></GroupName>
      <SensorPaths>
        <SensorPath>
          <Path></Path>
          <EventCondition></EventCondition>
          <Depth></Depth>
          <Filters>
            <Filter>
            <Name></Name>
            <ConditionRelation></ConditionRelation>
            <ColumnConditions>
              <ColumnCondition>
                <OpField></OpField>
                <OpType></OpType>
                <OpValue></OpValue>
                </ColumnCondition>
            </ColumnConditions>
            </Filter>
          </Filters>
          <ColumnConditions>
            <ColumnCondition>
              <ColumnName></ColumnName>
              <ColumnCondition></ColumnCondition>
              <ColumnValue></ColumnValue>
            </ColumnCondition>
           </ColumnConditions>
        </SensorPath>
      </SensorPaths>
    </SensorGroup>
  </SensorGroups>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	SensorGroups

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SensorGroup	SensorGroup table	Multi-instance table	N/A	For more information, see the SensorGroup table.

GRPC/SensorGroups/SensorGroup

This table contains gRPC sensor group information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorGroup
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	index	String. Length: 1 to 31 characters.	N/A
SensorPaths	Sensor path information	Sublist	N/A	For more information, see the SensorPaths table.

GRPC/SensorGroups/SensorGroup/SensorPaths

This table contains gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPaths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SensorPath	SensorPath table	Multi-instance table	N/A	For more information, see the SensorPath table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath

This table contains gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPath
Table type	Multi-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	N/A
EventCondition	Data pushing conditions for an event-triggered sensor path	NA	String.	NA
Depth	For the sensor path	N/A	Unsigned integer. Value range: 1 to 3.	N/A
ColumnConditions	Conditions information	Sublist	N/A	For more information, see the ColumnConditions table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters

This table contains the gRPC sensor path filters for flexible filtering.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	**Description**
Feature name	GRPC
Table name	Filters
Table type	Single-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Filter	Filter table	Multi-instance table	N/A	In this version, this table can contain only one filter. For more information, see the Filter table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter

This table contains the settings of a gRPC sensor path filter for flexible filtering.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Filter
Table type	Multi-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Filter name	Index	String. Length: 1 to 31 characters.	N/A
ConditionRelation	Logical operator on conditions in the filter	Index	Enumeration: • **and**—The filter is matched if all conditions in the filter are matched. • **or**—The filter is matched if any conditions in the filter are matched.	Read-write.
ColumnConditions	Conditions in the filter	Sublist	N/A	For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				ColumnConditions table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions

This table contains the conditions in a flexible filter for filtering gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Single-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnConditions	ColumnConditions table	Multi-instance table	N/A	For more information, see the ColumnCondition table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/Filters/Filter/ColumnConditions/ColumnCondition

This table contains information about a condition in a flexible filter for filtering gRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Multi-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OpField	Attribute operand on which the operation is performed	Index	String. Length: 1 to 64 characters.	Read-write. This column must be under the filter node.
OpType	Comparison operator type	Index	Enumeration: • **eq**—Equal to. • **ge**—Greater than or equal to. • **gt**—Greater than. • **le**—Less than or equal to. • **lt**—Less than. • **ne**—Not equal to.	Read-write.
OpValue	Value to be compared with the attribute operand	Column	String. Length: 1 to 127 characters.	Read-write.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions

This table contains GRPC sensor path condition information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Single-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnConditions	ColumnConditions table	Multi-instance table	N/A	For more information, see the ColumnCondition table.

GRPC/SensorGroups/SensorGroup/SensorPaths/SensorPath/ColumnConditions/ColumnCondition

This table contains GRPC sensor path condition information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	ColumnConditions
Table type	Multi-instance table
Row name	ColumnCondition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColumnName	Condition column name	Index	String. Length: 1 to 64 characters.	Read. This column must be under sensor path.
ColumnCondition	Condition operator	Index	Enumeration: • **eq.** • **ge.** • **gt.** • **le.** • **lt.** • **ne.**	Read.
ColumnValue	Condition Column value	Column	String. Length: 1 to 127 characters.	Read. The threshold of the column.

GRPC/DestinationGroups

This table contains gRPC destination group information.

XML structure

```
<GRPC>
  <DestinationGroups>
    <DestinationGroup>
      <GroupName></GroupName>
      <Destinations>
        <Destination>
          <IpAddress></IpAddress>
          <VRF></VRF>
          <Port></Port>
          <TLS></TLS>
        </Destination>
      </Destinations>
      <Domains>
        <Domain>
          <Type></Type>
          <Name></Name>
          <VRF></VRF>
          <Port></Port>
          <TLS></TLS>
          <IpAddress></IpAddress>
        </Domain>
      </Domains>
    </DestinationGroup>
  </DestinationGroups>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	DestinationGroups
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
DestinationGroup	DestinationGroup table	Multi-instance table	N/A	For more information, see the DestinationGroup table.

GRPC/DestinationGroups/DestinationGroup

This table contains gRPC destination group information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationGroup
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	index	String. Length: 1 to 31 characters.	N/A
Destinations	Destination info	Sublist	N/A	For more information, see the Destinations

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.

GRPC/DestinationGroups/DestinationGroup/Destinations

This table contains gRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Destinations
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Destination	Destination table	Multi-instance table	N/A	For more information, see the Destination table.

GRPC/DestinationGroups/DestinationGroup/Destinations/Destination

This table contains gRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Destination
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	Address of the destination group	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A
TLS	Whether use Transport Layer Security protocol to secure the communication	N/A	Boolean: • **true**—Use Transport Layer Security protocol • **false**—Not use Transport Layer Security protocol.	N/A

GRPC/DestinationGroups/DestinationGroup/Domains

This table contains gRPC domain information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC

Item	Description
Table name	Domains
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Domain	Domain table	Multi-instance table	N/A	For more information, see the Domain table.

GRPC/DestinationGroups/DestinationGroup/Domains/Domain

This table contains gRPC domain information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Domain
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the DNS IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Domain Name	Index	String, 1 to 253 characters.	N/A
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A
TLS	Whether use Transport Layer Security protocol to secure the communication	N/A	Boolean: • **true**—Use Transport Layer Security protocol. • **false**—Not use Transport Layer Security protocol.	N/A
IpAddress	Result of DNS	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

GRPC/Subscriptions

This table contains gRPC subscription information.

XML structure

```
<GRPC>
  <Subscriptions>
    <Subscription>
      <SubscriptionName></SubscriptionName>
      <Protocol></Protocol>
      <SourceAddress></SourceAddress>
      <SourcePort></SourcePort>
      <Dscp></Dscp>
      <JsonRowTimestamp></JsonRowTimestamp>
      <SensorProfiles>
       <SensorProfile>
        <GroupName></GroupName>
        <SampleInterval></SampleInterval>
        <SampleIntervalInMSec></SampleIntervalInMSec>
       </SensorProfile>
      </SensorProfiles>
      <DestinationProfiles>
        <DestinationProfile>
          <GroupName></GroupName>
        </DestinationProfile>
```

```
      </DestinationProfiles>
      <Encoding></Encoding>
    </Subscription>
  </Subscriptions>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	Subscriptions
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Subscription	Subscription table	Multi-instance table	N/A	For more information, see the Subscription table.

GRPC/Subscriptions/Subscription

This table contains gRPC subscription information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	Subscription
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	String. Length: 1 to 31 characters.	N/A
Protocol	Telemetry transport protocol	N/A	Enumeration: • 1—UDP • 2—GRPC	N/A
SourceAddress	Source IP address for packets	N/A	IPv4: String, in dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Interface: String, interface type and number	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Interface example: LoopBack2 In the current software version, it must be a loopback interface.
SourcePort	Port number of the sourceAddress	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Dscp	Dscp value of the packet	N/A	Unsigned integer. Value range: 0 to 63.	N/A
JsonRowTimestamp	Row-level timestamp json format protocol	N/A	Enumeration: • **enable**—The Row-level timestamp json format protocol is enabled**.** • **disable**—The Row-level timestamp json format protocol is disabled.	Only the 2-layer telemetry data model supports the json data format.
SensorProfiles	Sensor profile information	Sublist	N/A	For more information, see the SensorProfiles table.
DestinationProfiles	Destination profile information	Sublist	N/A	For more information, see the DestinationProfiles table.
Encoding	Data encoding format	N/A	Enumeration: • **0**—JSON**.** • **1**—GPB.	Only the 3-layer telemetry data model supports the GPB data encoding format.

GRPC/Subscriptions/Subscription/SensorProfiles

This table contains gRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	SensorProfiles
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
SensorProfile	SensorProfile table	Multi-instance table	N/A	For more information, see the SensorProfile table.

GRPC/Subscriptions/Subscription/SensorProfiles/SensorProfile

This table contains gRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	SensorProfile
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SampleInterval	Sampling interval in seconds	N/A	Unsigned integer. Value range: 1 to 86400.	This column is intended for periodic sensor paths and only for periodic sensor paths. • If this column is present for event-triggered sensor paths, the sensor paths do not take effect. • If this column is absent for periodic sensor paths, the device does not sample or push data.
SampleIntervalInMSec	Sampling interval in milliseconds	N/A	Unsigned integer. Value range:100 to 900, in steps of 100.	Specify this column for periodic sensor paths and only for periodic sensor paths. • If you specify this column for event-triggered sensor paths, the sensor paths do not take effect. • If you do not specify this column for periodic sensor paths, the device does not sample or push data.

GRPC/Subscriptions/Subscription/DestinationProfiles

This table contains gRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationProfiles
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestinationProfile	DestinationProfile table	Multi-instance table	N/A	For more information, see the DestinationProfile table.

GRPC/Subscriptions/Subscription/DestinationProfiles/DestinationProfile

This table contains gRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationProfile
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	Index	String. Length: 1 to 31 characters.	N/A

Contents

GRPC 2
GRPC/Configuration 2
GRPC/SensorGroups 2
GRPC/DestinationGroups 3
GRPC/Subscriptions 3

GRPC

GRPC/Configuration

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。
Please stop gRPC server first. 请先去使能gRPC服务。	Disable gRPC first. 请先去使能gRPC服务。
Cannot specify the %s column when you disable the gRPC service. 不能在去使能gRPC服务时指定%s列。	The %s column is available only when gRPC service is enabled. %s列仅在启动gRPC服务后可用。

GRPC/SensorGroups

Message	Explanation
Incomplete parameter. 参数输入不完整。	Specified sampling data filter parameters are incomplete. 必须制定过滤列的值。
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gPRC first. 需要先启动gRPC服务，再提供相关服务。
The path doesn't exist, or it is invalid. path不存在或者格式错误。	Invalid sampling path. path不存在或者格式错误。
The sensor group has been used by subscriptions. Please remove the sensor group from the subscriptions first. 当前sensor group正在被订阅使用，请先从相关订阅下移除。	A user failed to delete a sensor group, failed to assign a sensor path to a sensor group, or failed to remove a sensor path from a sensor group. 用户删除sensor group失败，或者在当前sensor group下配置或移除sensor path失败。
Path *path* is not supported. 不支持指定path。	Unsupported sampling path. 不支持指定path。
Only one filtering method is allowed. 只允许配置一种过滤方法。	Only one filtering method is allowed. 只允许配置一种过滤方法。
Can’t delete the ColumnValue column separately. You must specify the index columns to delete the entire row. 无法单独删除ColumnValue列，只能删除ColumnCondition整行的配置。	A user specified the ColumnValue column in a delete or remove request. 用户在删除操作中指定了 ColumnValue 列。
The condition attribute for data filtering is not supported for tables that contain subtables. 多级表（含有子表的采样路径）不支持condition过滤。	To filter on multi-level tables, use the selection-nodes column to specify columns of interest. 如需对多级表进行过滤，请使用selection-nodes列指定需要获取的数据列。
Flexible filtering and simple filtering for sensor paths are mutually exclusive. Please remove the	If you receive this message when you configure flexible filtering for sensor paths, remove all simple filtering settings for sensor

conflicting filtering settings and try again. 传感器路径的灵活过滤和简单过滤是相互排斥的。请删除冲突的过滤设置，然后重试。	paths, and try again. If you receive this message when you configure simply filtering for sensor paths, remove all flexible filtering settings for sensor paths, and try again. 如果在为传感器路径配置灵活过滤时收到此消息，请删除传感器路径的所有简单过滤设置，然后重试。 如果您在为传感器路径配置简单过滤时收到此消息，请删除传感器路径的所有灵活过滤设置，然后重试。
To change the sensor mode, please first delete all sensor paths in all sensor groups or delete all sensor groups. 要更改传感器模式，请先删除传感器组中的所有传感器路径，或删除所有传感器组。	To change the sensor mode, you must first delete all sensor paths in all sensor groups or delete all sensor groups. 要更改传感器模式，请先删除传感器组中的所有传感器路径，或删除所有传感器组。
The OpField value does not exist. 指定的OpField取值不存在。	The operator value specified for the OpField field does not exist. 指定的OpField 取值不存在。
Invalid operator type. OpType的值无效。	Invalid operator type. OpType的值无效。
Invalid operator value. OpValue的值无效。	Invalid operator value. OpValue的值无效。

GRPC/DestinationGroups

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。
The destination group has been used by subscriptions. Please remove the destination group from the subscriptions first. 当前destination group正在被订阅使用，请先从相关订阅下移除。	A user failed to delete a destination group, failed to assign a collector to a destination group, or failed to remove a collector from a destination group. 用户删除destination group失败，或者在当前destination group下配置或移除采集器失败。

GRPC/Subscriptions

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。
The sensor group doesn't exist. 指定的sensor group不存在。	A user specified a non-existent sensor group. 用户指定了一个不存在的sensor group。
The destination group doesn't exist. 指定的destination group不存在。	A user specified a non-existent destination group. 用户指定了一个不存在的destination group。
Can't specify both SampleInterval and SampleIntervalInMSec at the same time. 不能同时输入SampleInterval和SampleIntervalInMSec。	A user specified both SampleInterval and SampleIntervalInMSec at the same time. 用户同时执行了SampleInterval和SampleIntervalInMSec。

Can’t delete the SampleInterval column separately. You must delete the SensorProfile sublist as a whole. 无法单独删除SampleInterval列，只能删除SensorProfile整个表的配置。	A user specified the SampleInterval column in a delete or remove request. 用户在删除操作中指定了 SampleInterval 列。
Can’t delete the SampleIntervalInMSec column separately. You must delete the SensorProfile sublist as a whole. 无法单独删除SampleIntervalInMSec列，只能删除SensorProfile整个表的配置。	A user specified the SampleIntervalInMSec column in a delete or remove request. 用户在删除操作中指定了 SampleIntervalInMSec 列。

Contents

arp 1
arp/arpInterfaces 1
XML structure 1
Table description 1
Columns 1

arp

arp/arpInterfaces

This table contains ARP configuration on interfaces.

XML structure

```
<arp  xmlns="http://www.gsta.com/netconf/gsta-arp">
  <arpInterfaces>
    <arpInterface>
      <ifName></ifName>
      <expireTime></expireTime>
      <arpLearnDisable></arpLearnDisable>
      <innerProxyEnable></innerProxyEnable>
      <interProxyEnable></interProxyEnable>
      <localProxyEnable></localProxyEnable>
    </arpInterface>
  </arpInterfaces>
</arp>
```

Table description

Item	Description
Feature name	arp
Table name	arpInterfaces
Table type	Multi-instance table
Row name	arpInterface
Restrictions	This table supports interface types: Layer 3 Ethernet subinterface Layer 3 aggregate subinterface Layer 3 L3VE subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name	Index	String Value range: 1 to 47.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information,

Column name	Column description	Column type	Data type and restrictions	Remarks
				see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
expireTime	Aging time of a dynamic ARP entry	N/A	Unsigned integer. Value Range: 60 to 86400 seconds.	Not used
arpLearnDisable	Disable ARP learning	N/A	Boolean: • **true** • **false** (default)	Not used
innerProxyEnable	Enable intra-VLAN proxy ARP	N/A	Boolean: • **true** • **false** (default)	Not used
interProxyEnable	Enable inter-VLAN proxy ARP	N/A	Boolean: • **true** • **false** (default)	N/A
localProxyEnable	Enable local proxy ARP	N/A	Boolean: • **true** • **false** (default)	Not used

Contents

arp 1
arp/arpInterfaces 1
XML structure 1
Table description 1
Columns 1

arp

arp/arpInterfaces

This table contains ARP configuration on interfaces.

XML structure

```
<arp  xmlns="http://www.gsta.com/netconf/gsta-arp">
  <arpInterfaces>
    <arpInterface>
      <ifName></ifName>
      <expireTime></expireTime>
      <arpLearnDisable></arpLearnDisable>
      <innerProxyEnable></innerProxyEnable>
      <interProxyEnable></interProxyEnable>
      <localProxyEnable></localProxyEnable>
    </arpInterface>
  </arpInterfaces>
</arp>
```

Table description

Item	Description
Feature name	arp
Table name	arpInterfaces
Table type	Multi-instance table
Row name	arpInterface
Restrictions	This table supports interface types: Layer 3 Ethernet subinterface Layer 3 aggregate subinterface Layer 3 L3VE subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name	Index	String Value range: 1 to 47.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
expireTime	Aging time of a dynamic ARP entry	N/A	Unsigned integer. Value Range: 60 to 86400 seconds.	Not used
arpLearnDisable	Disable ARP learning	N/A	Boolean: • **true** • **false** (default)	Not used
innerProxyEnable	Enable intra-VLAN proxy ARP	N/A	Boolean: • **true** • **false** (default)	Not used
interProxyEnable	Enable inter-VLAN proxy ARP	N/A	Boolean: • **true** • **false** (default)	N/A
localProxyEnable	Enable local proxy ARP	N/A	Boolean: • **true** • **false** (default)	Not used

Contents

bfd 1
bfd/bfdSchGlobal 1
XML structure 1
Table description 1
Columns 1
bfd/bfdCfgSessions 1
XML structure 1
Table description 2
Columns 2

bfd

bfd/bfdSchGlobal

This table contains global BFD information.

XML structure

```
<bfd>
  <bfdSchGlobal>
    <mplsPassive></mplsPassive>
  </bfdSchGlobal>
</bfd>
```

Table description

Item	Description
Feature name	bfd
Table name	bfdSchGlobal
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mplsPassive	Indicate whether to enable BFD to support the creation of an MPLS passive session	N/A	Boolean: • true • false	N/A

bfd/bfdCfgSessions

This table contains static BFD information.

XML structure

```
<bfd>
  <bfdCfgSessions>
```

```
    <bfdCfgSession>
      <sessName></sessName>
      <bfdHopType></bfdHopType>
      <createType></createType>
      <localDiscr></localDiscr>
      <remoteDiscr></remoteDiscr>
      <linkType ></linkType>
      <addrType></addrType>
      <outIfName></outIfName>
      <destAddr></destAddr>
      <srcAddr></srcAddr>
      <vrfName></vrfName>
      <tunnelName></tunnelName>
      <teBackup></teBackup>
      <remotePeer></remotePeer>
      <pwSecondary></pwSecondary>
      <minTxInt></minTxInt>
      <minRxInt></minRxInt>
      <detectMulti></detectMulti>
      <trackIfName></trackIfName>
      <oneArmEcho></oneArmEcho>
      <minEchoRxInt></minEchoRxInt>
    </bfdCfgSession>
  </bfdCfgSessions>
</bfd>
```

Table description

Item	Description
Feature name	bfd
Table name	bfdCfgSessions
Table type	Multi-instance table
Row name	bfdCfgsession
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
sessName	Name of a BFD session	Index	String. Length: 1 to 64 characters.	Required when create a new row, can not be modified.

bfdHopType	Session hop type	N/A	Enumeration: • - : "Non-IP session." • IP_SINGLE_HOP:" IP single-hop session" • IP_MULTI_HOP"IP multi-hop session"	Required when create a new row, can not be modified.
createType	Type for creating a BFD session	N/A	Enumeration: • SESS_STATIC •	Required when create a new row, can not be modified.
localDiscr	Local discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 32768.	N/A
remoteDiscr	Remote discriminator of a BFD session	N/A	Unsigned integer. • Value range: 1 to 4294967295.	N/A
linkType	Type of the link detected by a BFD session	N/A	Enumeration: • IP • TE_LSP • TE_TUNNEL • VLL_PW •	Required when create a new row, can not be modified.
addrType	Type of the IP address	N/A	Enumeration: • IPV4 • IPV6	Required when create a new row, can not be modified.
outIfName	Name of the outbound interface of a BFD session.	N/A	String. Length: 2 to 47 characters.	This parameter is available only when the type of the detected link is IP.
destAddr	Destination IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. This parameter is available only when the type of the detected link is IP
srcAddr	Source IP address of a BFD session	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
vrfName	Name of the VPN to which a BFD session belongs	N/A	String. Length: 0 to 31 characters.	If the BFD session belongs to the public network, the length of characters is 0.
tunnelName	Name of a TE tunnel	N/A	String. Length: 2 to 47 characters.	This parameter is available only when the type of the detected link is

				TE LSP or TE Tunnel
teBackup	Flag of determining whether the LSP is the primary LSP in a tunnel	N/A	Boolean: • true-backup LSP • false- primary LSP	This parameter is available when the type of the detected link is TE LSP
remotePeer	Remote address of the PW/VSI.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
pwSecondary	Secondary PW flag.	N/A	Boolean: • true - Secondary PW • false - Main PW	N/A
minTxInt	Minimum interval for sending packets	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model.
minRxInt	Minimum interval for receiving packets	N/A	Unsigned integer.	The value is expressed in milliseconds. The value range for this argument varies by device model.
detectMulti	Number of times that a BFD session continuously detects that packets are sent but no response is returned, based on which the system considers the BFD session Down.	N/A	Unsigned integer.	The value range for this argument varies by device model.
trackIfName	Name of the interface tracked by a BFD session.	N/A	String. Length: 2 to 47 characters.	N/A
oneArmEcho	Echo session in one-arm mode, which must be configured for one-arm session type.	N/A	Boolean: • true • false	N/A
minEchoRxInt	Minimum interval for receiving	N/A	Unsigned integer.	The value is expressed in milliseconds. The

	one-arm echo session packets.			value range for this argument varies by device model.

Contents

gsta-bgp 1
- gsta-bgp/bgp 1
  - XML structure 1
  - Table description 2
  - Columns 2
- gsta-bgp/bgp/bgpcomm 2
  - XML structure 2
  - Table description 2
  - Columns 3
- gsta-bgp/bgp/bgpcomm/bgpSite 3
  - XML structure 3
  - Table description 3
  - Columns 3
- gsta-bgp/bgp/bgpcomm/bgpVrfs 4
  - XML structure 4
  - Table description 4
  - Columns 4
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf 4
  - XML structure 4
  - Table description 5
  - Columns 5
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs 5
  - XML structure 5
  - Table description 5
  - Columns 6
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF 6
  - XML structure 6
  - Table description 6
  - Columns 6
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs 8
  - XML structure 8
  - Table description 8
  - Columns 9
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs/peerAF 9
  - XML structure 9
  - Table description 9
  - Columns 9
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes 10
  - XML structure 10
  - Table description 10
  - Columns 11
- gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes/importRoute 11
  - XML structure 11
  - Table description 11
  - Columns 11

gsta-bgp

gsta-bgp/bgp

This table contains BGP information.

XML structure

```
<gsta-bgp>
  <bgp>
    <bgpcomm>
     <bgpSite>
       <asNumber></asNumber>
     </bgpSite>
     <bgpVrfs>
       <bgpVrf>
         <vrfName></vrfName>
         <bgpVrfAFs>
           <bgpVrfAF>
             <afType></afType>
             <preferenceExternal></preferenceExternal>
            <preferenceInternal></preferenceInternal>
             <preferenceLocal></preferenceLocal>
             <loadBalancingEibgp></loadBalancingEibgp>
             <loadBalancingAsPathIgnore></loadBalancingAsPathIgnore>
             <loadBalancingAsPathRelax></loadBalancingAsPathRelax>
             <nexthopDelayTime></nexthopDelayTime>
             <tunnelSelectorName></tunnelSelectorName>
             <tunnelSelectorAll></tunnelSelectorAll>
             <peerAFs>
               <peerAF>
                    <remoteAddress></remoteAddress>
                    <advertiseCommunity></advertiseCommunity>
                    <advertiseExtCommunity></advertiseExtCommunity>
               </peerAF>
             </peerAFs>
             <importRoutes>
               <importRoute>
                    <importProtocol></importProtocol>
                    <importProcessId></importProcessId>
                    <importRoutePolicy></importRoutePolicy>
                    <medNew></medNew>
               </importRoute>
             </importRoutes>
           </bgpVrfAF>
         </bgpVrfAFs>
```

```
      </bgpVrf>
     </bgpVrfs>
    </bgpcomm>
  </bgp>
</gsta-bgp>
```

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
bgpcomm	Universal BGP configurations that contain the basic BGP configurations and the query information.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm table.

gsta-bgp/bgp/bgpcomm

This table contains BGP common information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpcomm
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
bgpSite	Site containing the global BGP information, such as the protocol version, AS number, and system identifier	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpSite table.
bgpVrfs	Site containing the global BGP information, such as the protocol version, AS number, and system identifier.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs table.

gsta-bgp/bgp/bgpcomm/bgpSite

This table contains BGP site information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpSite
Table type	Single-instance table
Row name	asNumber
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks

Column name	Column description	Column type	Data type and restrictions	Remarks
asNumber	Local AS number.	N/A	Uint32.. Value range: 1 to 4294967295. or 0.1～65535.65535	N/A

gsta-bgp/bgp/bgpcomm/bgpVrfs

This table contains BGP VPN instance information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpVrfs
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
bgpVrf	Create a BGP instance.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf

This table contains information for a BGP VPN instance.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpVrf
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance name of a BGP instance.	Index	String. Length: 1 to 31 characters.	N/A
bgpVrfAFs	List of BGP address family instances.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs

This table contains BGP address family information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpVrfAFs
Table type	Single-instance table
Row name	vrfName
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
bgpVrfAF	List of BGP address family instances.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF

This table contains information of a BGP address family.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpVrfAF
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afType	Address family type of a BGP instance.	index	Enumeration: • ipv4uni. • ipv4multi. • ipv4vpn. • ipv6uni. • ipv6vpn.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ipv4flow. • l2vpnad. • mvpn. • evpn. • ls. • mdt. • vpnv4flow. •	
preferenceExternal	Set the protocol priority of EBGP routes.	N/A	uint8. Value range: 1 to 255	N/A
preferenceInternal	Set the protocol priority of IBGP routes.	N/A	uint8. Value range: 1 to 255	N/A
preferenceLocal	Set the protocol priority of a local BGP route.	N/A	uint8. Value range: 1 to 255.	N/A
loadBalancingEibgp	Configure EBGP and IBGP route load balancing. By default, load balancing cannot be implemented among IBGP and EBGP routes.	N/A	Uint32. Value range: 1 to 16.	N/A
loadBalancingAsPathIgnore	Configure BGP to ignore the AS_Path of each BGP route to the next hop when selecting routes for load balancing. By default, only the routes with the same AS_Path can participate in load balancing.	N/A	Enumeration: • **0**—false. • 1—true.	N/A
loadBalancingAsPathRelax	Configure BGP to ignore comparison of AS_Path attributes with the same length. By default, only the routes with the same AS_Path can participate in load balancing.	N/A	Enumeration: • **0**—false. • **1**—true.	N/A
nexthopDelayTime	Configure the delay-time of next hop.	N/A	Uint32. Value range: 1 to 100.	N/A
tunnelSelectorName	Configure a tunnel selector	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and apply it to the BGP IPv4 unicast, BGP VPNv4, and BGP VPNv6 address families so that IPv4 ,VPNv4, and VPNv6 labeled routes can recurse to tunnels based on the tunnel selector. By default, no tunnel selector is configured.		Length: 1 to 40 characters.	
tunnelSelectorAll	Tunnel selector for labeled, imported, and network segment routes.	N/A	Enumeration: • **0**—false. • **1**—true.	N/A
peerAFs	Peers in a specified address family.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs table.
importRoutes	List of imported routes.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs

This table contains BGP peer address family information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	bgpVrfAFs

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peerAF	Peer in a specified address family.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs/peerAF table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/peerAFs/peerAF

This table contains address family information for a BGP peer.

XML structure

Please refer to the XML structure of gsta-bgp/bgp

Table description

Item	Description
Feature name	gsta-bgp
Table name	peerAF
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
remoteAddress	IPv4 or IPv6 peer address.	Index	IPv4: String, dotted decimal	IPv4 example: 1.1.1.1

Column name	Column description	Column type	Data type and restrictions	Remarks
			notation. IPv6: String.	IPv6 example: 2001::1
advertiseCommunity	Advertise the community attribute to a peer or peer group. By default, the community attribute is not advertised to any peer or peer group.	N/A	Enumeration: • **0**—false. • **1**—true.	N/A
advertiseExtCommunity	Advertise the extended community attribute to a peer or peer group. By default, the extended community attribute is not advertised to any peer or peer group.	N/A	Enumeration: • **0**—false. • **1**—true.	N/A

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes

This table contains route redistribution information.

XML structure

Please refer to the XML structure of gsta-bgp/bgp.

Table description

Item	Description
Feature name	gsta-bgp
Table name	importRoutes
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
importRoute	Route redistribution. Routes of other protocol types can be redistributed by BGP. By default, BGP does not redistribute routes of other protocol types.	Subtable	N/A	For more information, see the gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes/importRoute table.

gsta-bgp/bgp/bgpcomm/bgpVrfs/bgpVrf/bgpVrfAFs/bgpVrfAF/importRoutes/importRoute

This table contains information of redistributed routes.

XML structure

Please refer to the XML structure of gsta-bgp/bgp

Table description

Item	Description
Feature name	gsta-bgp
Table name	importRoute
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
importProtocol	Routing protocol from which routes can be redistributed.	Index	Enumeration: • 1—direct. • 2—ospf.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	The routing protocol can be IS-IS, OSPF, static, direct, or RIP for an IPv4 unicast address family or an IPv4 multicast address family. The routing protocol can be IS-IS, OSPFv3, static, direct, or RIPng for an IPv6 uincast address family.		• 3—isis • 4—static • 5—rip • 6—ospfv3 • 7—ripng	
importProcessId	Process ID of the routing protocol. The process ID must be specified if the routing protocol is RIP, OSPF, RIPng, or OSPFv3.	Index	Uint32. Value range: 0 to 65535	N/A
importRoutePolicy	When routes are redistributed from other routing protocols, the route-policy filter can be used to filter the routes and change route attributes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
medNew	Specify the MED of imported routes.	N/A	uint64 Value range: 0 to 4294967295	N/A

Contents

GSTA-DHCPV6-RELAY 1
dhcpv6 1
XML structure 1
Table description 1
Columns 2

GSTA-DHCPV6-RELAY

dhcpv6

This table contains configuration information of DHCPv6.

XML structure

```
<dhcpv6>
  <relay>
    <dhcpv6RelayIfCfgs>
      <dhcpv6RelayIfCfg>
        <ifName></ifName>
        <sourceAddr></sourceAddr>
        <dhcpv6RelayDestAddrs>
          <dhcpv6RelayDestAddr>
             <destinationAddress></destinationAddress>
          </dhcpv6RelayDestAddr>
        </dhcpv6RelayDestAddrs>
        <dhcpv6RelayOptCfg>
          <interfaceIdMode></interfaceIdMode>
          <interfaceIdSelfDefineText></interfaceIdSelfDefineText>
        </dhcpv6RelayOptCfg>
      </dhcpv6RelayIfCfg>
    </dhcpv6RelayIfCfgs>
  </relay>
</dhcpv6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayIfCfgs
Table type	Multi-instance table
Row name	dhcpv6RelayIfCfg

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Name of the DHCPv6 relay interface	Index	String, case-insensitive. Length: 1 to 48 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
sourceAddr	Source address	N/A	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multicast address are invalid.
destinationAddress	Destination address	N/A	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multicast address are invalid.
interfaceIdMode	Interface-ID mode	N/A	Enumeration: • disable (default). • cn-telecom. • tr-101 • self-define	Interface-ID mode
interfaceIdSelfDefineText	User-defined DHCPv6 Interface-ID format	N/A	String. case-sensitive. Length: 1 to 12 characters. Enumeration: • bas. • interface.	When Interface-ID mode is self-define, interfaceIdSelfDefineText has only two choices of bas and interface.

Contents

GSTA-DHCPV6-RELAY 1
dhcpv6 1
XML structure 1
Table description 1
Columns 2

GSTA-DHCPV6-RELAY

dhcpv6

This table contains configuration information of DHCPv6.

XML structure

```
<dhcpv6>
  <relay>
    <dhcpv6RelayIfCfgs>
      <dhcpv6RelayIfCfg>
        <ifName></ifName>
        <sourceAddr></sourceAddr>
        <dhcpv6RelayDestAddrs>
          <dhcpv6RelayDestAddr>
             <destinationAddress></destinationAddress>
          </dhcpv6RelayDestAddr>
        </dhcpv6RelayDestAddrs>
        <dhcpv6RelayOptCfg>
          <interfaceIdMode></interfaceIdMode>
          <interfaceIdSelfDefineText></interfaceIdSelfDefineText>
        </dhcpv6RelayOptCfg>
      </dhcpv6RelayIfCfg>
    </dhcpv6RelayIfCfgs>
  </relay>
</dhcpv6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayIfCfgs
Table type	Multi-instance table
Row name	dhcpv6RelayIfCfg

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Name of the DHCPv6 relay interface	Index	String, case-insensitive. Length: 1 to 48 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
sourceAddr	Source address	N/A	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multi-cast address are invalid.
destinationAddress	Destination address	N/A	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1.and local multi-cast address are invalid.
interfaceIdMode	Interface-ID mode	N/A	Enumeration: • disable (default). • cn-telecom. • tr-101 • self-define	Interface-ID mode

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaceIdSelfDefineText	User-defined DHCPv6 Interface-ID format	N/A	String. case-sensitive. Length: 1 to 12 characters. Enumeration: • bas. • interface.	When Interface-ID mode is self-define, interfaceIdSelfDefineText has only two choices of bas and interface.

Contents

directrt 2
directrt/directrtvlink 2
XML structure 2
Table description 2
Columns 3
directrt/ directrtvlink / drVlinkVpns 3
XML structure 3
Table description 3
Columns 4

directrt

directrt/directrtvlink

This table contains configure vlink routes.

XML structure

```
<directrt   xmlns="http://www.gsta.com/netconf/gsta-directrt">
  <directrtvlink>
    <drVlinkVpns>
      <drVlinkVpn>
          <vrfName></vrfName >
          <addressFamily></addressFamily>
          <routePolicyName></routePolicyName>
          <routeFilterName></routeFilterName>
        </drVlinkVpn>
      </drVlinkVpns>
  </directrtvlink>
</directrt>
```

Table description

Item	Description
Feature name	directrt

Item	Description
Table name	directrtvlink
Table type	Multi-instance table
Row name	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
directrtvlink	Configure Vlink routes	Subtable	N/A	For more information, see the directrtvlink / drVlinkVpns table.

directrt/ directrtvlink / drVlinkVpns

This table contains Configure Vlink routes.

XML structure

Please refer to the XML structure of directrt/ directrtvlink.

Table description

Item	Description
Feature name	directrtvlink
Table name	drVlinkVpns
Table type	Multi-instance table
Row name	drVlinkVpn
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance	index	String. Length: 1 to 31 characters.	VPN instance
addressFamily	APR or ND flag	index	Members include: • ipv4unicast • ipv6unicast	N/A
routePolicyName	Set the name of a Vlink route-policy	N/A	String.	Not used
routeFilterName	Set the name of a Vlink route-filter	N/A	String. Length: 0 to 201 characters.	Not used

Contents

directrt 2
directrt/directrtvlink 2
XML structure 2
Table description 2
Columns 3
directrt/ directrtvlink / drVlinkVpns 3
XML structure 3
Table description 3
Columns 4

directrt

directrt/directrtvlink

This table contains configure vlink routes.

XML structure

```
<directrt   xmlns="http://www.gsta.com/netconf/gsta-directrt">
  <directrtvlink>
    <drVlinkVpns>
      <drVlinkVpn>
          <vrfName></vrfName>
          <addressFamily></addressFamily>
          <routePolicyName></routePolicyName>
          <routeFilterName></routeFilterName>
        </drVlinkVpn>
      </drVlinkVpns>
  </directrtvlink>
</directrt>
```

Table description

Item	Description
Feature name	directrt

Item	Description
Table name	directrtvlink
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
directrtvlink	Configure Vlink routes	Subtable	N/A	For more information, see the directrtvlink / drVlinkVpns table.

directrt/ directrtvlink / drVlinkVpns

This table contains Configure Vlink routes.

XML structure

Please refer to the XML structure of directrt/ directrtvlink.

Table description

Item	Description
Feature name	directrtvlink
Table name	drVlinkVpns
Table type	Multi-instance table
Row name	drVlinkVpn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance	index	String. Length: 1 to 31 characters.	VPN instance
addressFamily	APR or ND flag	index	Members include: • ipv4unicast • ipv6unicast	N/A
routePolicyName	Set the name of a Vlink route-policy	N/A	String.	Not used
routeFilterName	Set the name of a Vlink route-filter	N/A	String. Length: 0 to 201 characters.	Not used

Contents

ethernet 1
ethernet/eth/ethSubIfs 1
XML structure 1
Table description 1
Columns 1

ethernet

ethernet/eth/ethSubIfs

This table contains the subinterface attribute list.

XML structure

```
<ethernet  xmlns="http://www.gsta.com/netconf/gsta-ethernet">
  <ethSubIfs>
    <ethSubIf>
      <ifName></ifName>
      <flowType></flowType>
      <arpBroadcastEnable></arpBroadcastEnable>
      <vlanTypeVid></vlanTypeVid>
      <flowDot1qs>
        <flowDot1q>
          <segIndex></segIndex>
          <vlanIdBgn></vlanIdBgn>
          <vlanIdEnd></vlanIdEnd>
          <groupId></groupId>
        </flowDot1q>
      </flowDot1qs>
    </ethSubIf>
  </ethSubIfs>
</ethernet>
```

Table description

Item	Description
Feature name	ethernet
Table name	ethSubIfs
Table type	Multi-instance table
Row name	ethSubIf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Name of a subinterface. For example, Ethernet 0/1/0.1.	index	String Value range: 1 to 47.	Name of a subinterface.

Column name	Column description	Column type	Data type and restrictions	Remarks
flowType	Subinterface type, including VLAN subinterfaces, subinterfaces for Dot1q VLAN tag termination, subinterfaces for QinQ VLAN tag termination, and stacking subinterfaces.	N/A	Members include: • VlanType • Dot1qTerm • Stacking • QinQTerm • Mapping1to1	Not used.
arpBroadcastEnable	Enable ARP broadcast.	N/A	Boolean: • true • false	Not used.
vlanTypeVid	VLAN ID of the VLAN subinterface.	N/A	Unsigned Short. Value range: 1 to 4094.	Not used.
flowDot1qs	Dot1q VLAN tag termination list.	N/A	Include: • Value • Unit	Dot1q VLAN tag termination list.
flowDot1q	Dot1q VLAN tag termination.	N/A	Include: • Value • Unit	Dot1q VLAN tag termination.
segIndex	QinQ segment.	index	Unsigned integer	Dot1q segment.
vlanIdBgn	Start VLAN ID in the user packet.	N/A	Unsigned integer. Value range: 1 to 4094.	Start VLAN ID.
vlanIdEnd	End VLAN ID in the user packet.	N/A	Unsigned short. Value range: 1 to 4094.	End VLAN ID.
groupId	VLAN group ID.	N/A	Unsigned char. Value range: 1 to 16.	Not used.

Contents

ifm 1
ifm/interfaces 1
XML structure 1
Table description 1
Columns 1

ifm

ifm/interfaces

This table contains basic interface information for GSTA.

XML structure

```
<ifm xmlns="http://www.gsta.com/netconf/gsta-interfacemng">
  <interfaces>
    <interface>
      <ifName></ifName>
      <ifDescr></ifDescr>
      <ifAdminStatus></ifAdminStatus>
      <ifTrapEnable></ifTrapEnable>
      <ifStatiEnable></ifStatiEnable>
      <statMode></statMode>
      <ifMtu></ifMtu>
      <spreadMtuFlag></spreadMtuFlag>
      <ifBandwidth></ifBandwidth>
      <ifStatItvl></ifStatItvl>
      <downDelayTime></downDelayTime>
      <ifCfgMac></ifCfgMac>
    </interface>
  </interfaces>
</ifm>
```

Table description

Item	Description
Feature name	ifm
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Information about an	Index	String. Length: 2 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface		Example: GigabitEthernet2/0/2	
ifDescr	Description of an interface	N/A	String. Length: 1 to 255 characters. Default: Interface name.	N/A
IfAdminStatus	Administrative status of an interface	N/A	String enumeration: • up. • down.	N/A
ifTrapEnable	Enable the trap function on an interface	N/A	Boolean: • true. • false.	N/A
ifStatiEnable	Enable the statistics function on an interface	N/A	Boolean: • true. • false.	N/A
statMode	Mode of statistics collection. statistics by interface or vlangroup	N/A	String enumeration: • baseInterface. • baseVlanGroup.	The baseVlanGroup value is not supported.
ifMtu	IPV4 Maximum transmission unit of an interface	N/A	Unsigned integer. Value range: 0-64000	Applicable to only Layer 3 interfaces.
spreadMtuFlag	Spread the MTU of main interface to subinterface(optional)	N/A	Boolean: • true. • false.	Applicable to only Layer 3 main interfaces.
ifBandwidth	Specify MIB-referenced bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A
ifStatItvl	Interval at which flow statistics are collected on an interface	N/A	Unsigned integer. Value range: 5 to 300	Configured at multiples of 5.
downDelayTime	Specify down-delay-time value in milliseconds	N/A	Unsigned integer. Value range: 1 to 1000 Unit: Milliseconds.	Configured at multiples of 10 when the interface type is eth-trunk.
ifCfgMac	Config MAC Address	N/A	String: Length: 0 to 255 characters.	Config MAC Address, in the format of HH-HH-HH

Contents

ifm 1
ifm/interfaces 1
XML structure 1
Table description 1
Columns 2

ifm

ifm/interfaces

This table contains basic interface information for GSTA.

XML structure

```
<ifm xmlns="http://www.gsta.com/netconf/gsta-interfacemng">
  <interfaces>
    <interface>
      <ifName></ifName>
      <ifClass></ifClass>
      <ifPhyType></ifPhyType>
      <ifParentIfName></ifParentIfName>
      <ifNumber></ifNumber>
      <ifDescr></ifDescr>
      <ifAdminStatus></ifAdminStatus>
      <ifTrapEnable></ifTrapEnable>
      <ifStatiEnable></ifStatiEnable>
      <statMode></statMode>
      <ifMtu></ifMtu>
      <spreadMtuFlag></spreadMtuFlag>
      <ifBandwidth></ifBandwidth>
      <ifStatItvl></ifStatItvl>
      <downDelayTime></downDelayTime>
      <ifCfgMac></ifCfgMac>
    </interface>
  </interfaces>
</ifm>
```

Table description

Item	Description
Feature name	ifm
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Information about an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
ifClass	Identify a main interface or a sub-interface	N/A	String enumeration: • mainInterface. • subInterface.	N/A
ifPhyType	Type of an interface	N/A	String enumeration. For more information, see Table 1.	N/A
ifParentIfName	Name of the main interface	N/A	String. Length: 2 to 47 characters.	Available when the ifClass is subInterface. Example: GigabitEthernet2/0/2
ifNumber	Number of an interface	N/A	String. Length: 1 to 47 characters.	For example: 1, 0/1/0, or 2:1.
ifDescr	Description of an interface	N/A	String. Length: 1 to 255 characters. Default: Interface name.	N/A
ifAdminStatus	Administrative status of an interface	N/A	String enumeration: • up. • down.	N/A
ifTrapEnable	Enable the trap function on an interface	N/A	Boolean: • true. • false.	N/A
ifStatiEnable	Enable the statistics function on an interface	N/A	Boolean: • true. • false.	N/A
statMode	Mode of statistics collection	N/A	String enumeration: • baseInterface. • baseVlanGroup.	The baseVlanGroup value is not supported.
ifMtu	IPV4 Maximum transmission unit of an interface	N/A	Unsigned integer. Value range: 0-64000	Applicable to only Layer 3 interfaces.
spreadMtuFlag	Spread the MTU of main interface to subinterface(optional)	N/A	Boolean: • true. • false.	Applicable to only Layer 3 main interfaces.
ifBandwidth	Specify MIB-referenced bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ifStatItvl	Interval at which flow statistics are collected on an interface	N/A	Unsigned integer. Value range: 5 to 300.	The value must be a multiple of 5 in seconds.
downDelayTime	Specify the down-delay-time value in milliseconds	N/A	Unsigned integer. Value range: 0 to 1000. Unit: Milliseconds.	Configured at multiples of 10，when ifPhyType is Eth-Trunk.
ifCfgMac	Config MAC Address	N/A	String. Length: 0 to 255 characters.	Config MAC Address, in the format of HH-HH-HH.

Table 1 Interface extension types

String enum	Interface type	Description
ATM	IF_ATM_TYPE	ATM interface.
Cpos	IF_CPOS_TYPE	CPOS interface.
E1	IF_E1_TYPE	E1 interface.
InLoopBack	IF_INLOOPBACK_TYPE	Internal loopback interface.
LoopBack	IF_LOOPBACK_TYPE	Loopback interface.
Ethernet	IF_L2ETHERNET_TYPE	Layer 2 FE interface.
GigabitEthernet	IF_L2GE_TYPE	Layer 2 GE interface.
VEB	IF_L2VE_TYPE	Layer 2 VE interface.
XGigabitEthernet	IF_L2XGE_TYPE	Layer 2 10-GE interface.
Ethernet	IF_L3ETHERNET_TYPE	Layer 3 FE interface.
GigabitEthernet	IF_L3GE_TYPE	Layer 3 GE interface.
XGigabitEthernet	IF_L3XGE_TYPE	Layer 3 10-GE interface.
MEth	IF_ME_TYPE	Management Ethernet interface.
MGE	IF_MGE_TYPE	Management GE interface.
Mp-group	IF_MPGROUP_TYPE	MP-group interface.
NULL	IF_NULL_TYPE	Null interface.
Pos	IF_POS_TYPE	POS interface.
Serial	IF_SERIAL_TYPE	Serial interface.
T1	IF_T1_TYPE	T1 interface.
Tunnel	IF_TUNNEL_TYPE	Tunnel interface.
Vlanif	IF_VLAN_TYPE	VLAN interface.
Virtual-Template	IF_VT_TYPE	VT interface.
MTunnel	IF_MTUNNEL_TYPE	M-Tunnel interface.
InAsy	IF_INASY_TYPE	Internal asynchronous serial interface.
Eth-trunk	IF_BAGG_TYPE	Layer 2 aggregate interface.

String enum	Interface type	Description
Register-Tunnel	IF_REGISTER_TUNNEL_TYPE	Register-Tunnel interface.
Ethernet	IF_LOOPFE_TYPE	Loopback FE interface.
GigabitEthernet	IF_LOOPGE_TYPE	Loopback GE interface.
XGigabitEthernet	IF_LOOPXGE_TYPE	Loopback 10-GE interface.
Ethernet	IF_MIRRORFE_TYPE	Mirroring FE interface.
GigabitEthernet	IF_MIRRORGE_TYPE	Mirroring GE interface.
XGigabitEthernet	IF_MIRRORXGE_TYPE	Mirroring 10-GE interface.
Ethernet	IF_IDSFE_TYPE	IDS FE interface.
GigabitEthernet	IF_IDSGE_TYPE	IDS GE interface.
XGigabitEthernet	IF_IDSXGE_TYPE	IDS 10-GE interface.
Eth-trunk	IF_RAGG_TYPE	Layer 3 aggregate interface.
40GE	IF_L2FGE_TYPE	Layer 2 40-GE interface.
100GE	IF_L2HGE_TYPE	Layer 2 100-GE interface.
40GE	IF_L3FGE_TYPE	Layer 3 40-GE interface.
100GE	IF_L3HGE_TYPE	Layer 3 100-GE interface.
40GE	IF_LOOPFGE_TYPE	Loopback 40-GE interface.
100GE	IF_LOOPHGE_TYPE	Loopback 100-GE interface.
40GE	IF_MIRRORFGE_TYPE	Mirroring 40-GE interface.
100GE	IF_MIRRORHGE_TYPE	Mirroring 100-GE interface.
40GE	IF_IDSFGE_TYPE	IDS 40-GE interface.
100GE	IF_IDSHGE_TYPE	IDS 100-GE interface.
VPPP	IF_VPPP_TYPE	Virtual PPP interface.
HDLC-B	IF_HDLCBUNDLE_TYPE	HDLC bundle interface.
Virtual-Ethernet	IF_VE_L2VPN_TYPE	L2VPN virtual Ethernet interface
Virtual-Ethernet	IF_VE_L3VPN_TYPE	L3VPN virtual Ethernet interface
VSI	IF_VSI_TYPE	VSI interface
BAS	IF_LOCAL_BAS_IF_TYPE	Local BAS interface
BAS	IF_GLOBAL_BAS_IF_TYPE	Global BAS interface

Contents

ipv4Config 1

ipv4Config 1
XML structure 1
Table description 1
Columns 1
ipv4Config/am4CfgAddrs 2
XML structure 2
Table description 2
Columns 2
ipv4Config/am4CfgAddrs/am4CfgAddr 2
XML structure 2
Table description 3
Columns 3

ipv4Config

ipv4Config

This table contains IPv4 configuration.

XML structure

```
<ipv4Config>
   <addrCfgType></addrCfgType>
   <am4CfgAddrs>
     <am4CfgAddr>
        <ifIpAddr></ifIpAddr>
        <subnetMask></subnetMask>
        <addrType></addrType>
     </am4CfgAddr>
   </am4CfgAddrs>
  <unNumIfName></unNumIfName>
</ipv4Config>
```

Table description

Item	Description
Feature name	ipv4Config
Table name	ipv4Config
Table type	Single-instance table
Row name	N/A
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
addrCfgType	IPv4 address configuration type	N/A	Enumeration: • **1**—config. • **2**—negotiation. • **3**—unnumbered.	N/A
am4CfgAddrs	List of IPv4 addresses	Subtable	N/A	For more information, see the ipv4Config/am4CfgAdd

Column name	Column description	Column type	Data type and restrictions	Remarks
				rs/am4CfgAddr table.
unNumIfName	Name of an unnumbered interface	N/A	String.	N/A

ipv4Config/am4CfgAddrs

This table contains a list of IPv4 addresses.

XML structure

Please refer to the XML structure of ipv4Config.

Table description

Item	Description
Feature name	ipv4Config
Table name	am4CfgAddrs
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
am4CfgAddr	IPv4 address configuration	Subtable	N/A.	When “addrCfgType” is neither “negotiation” nor “unnumbered””. For more information, see the ipv4Config/am4CfgAddrs/am4CfgAddr table.

ipv4Config/am4CfgAddrs/am4CfgAddr

This table contains IPv4 address configuration.

XML structure

Please refer to the XML structure of ipv4Config.

Table description

Item	Description
Feature name	ipv4Config
Table name	am4CfgAddr
Table type	Single-instance table
Row name	N/A
Restrictions	When addrCfgType is neither “negotiation” nor “unnumbered”.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIpAddr	IPv4 address	index	String, dotted decimal.	IPv4 example: 1.1.1.1.
subnetMask	IPv4 address mask	N/A	String. Value length: 9 to 15	N/A
addrType	IPv4 address type	N/A	Enumeration: • **1**—main. • **2**—sub. • **3**—neg. • **4**—neg remote. • **5**—unnumber. • **6**—nap.	“addrType” must be “main” or “sub”.

Contents

ipv6Config 1

ipv6Config 1
XML structure 1
Table description 1
Columns 1
ipv6Config/am6CfgAddrs 2
XML structure 2
Table description 2
Columns 2
ipv6Config/am6CfgAddrs/am6CfgAddr 2
XML structure 2
Table description 3
Columns 3

ipv6Config

ipv6Config

This table contains IPv6 configuration.

XML structure

```
<ipv6Config>
  <enableFlag></enableFlag>
  <autoLinkLocal></autoLinkLocal>
  <am6CfgAddrs>
    <am6CfgAddr>
      <ifIp6Addr></ifIp6Addr>
      <addrPrefixLen></addrPrefixLen>
      <addrType6></ addrType6>
      <ifIDGenType></ifIDGenType>
    </am6CfgAddr>
  </am6CfgAddrs>
<ipv6Config>
```

Table description

Item	Description
Feature name	ipv6Config
Table name	ipv6Config
Table type	Single-instance table
Row name	N/A
Restrictions	none
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enableFlag	Enabling status of the IPv6 function on an interface	N/A	Boolean: • True • False	N/A
autoLinkLocal	Enablnig status of the auto link-local address feature on	N/A	Boolean: • True	“enableFlag” must be “true” and “autoLinkLocal” must

Column name	Column description	Column type	Data type and restrictions	Remarks
	an interface		• False	be “true”.
am6CfgAddrs	List of IPv6 addresses	subtable	N/A	When “enableFlag” is “true”. For more information, see the ipv6Config/am6CfgAddrs/am6CfgAddr table.

ipv6Config/am6CfgAddrs

This table contains a list of IPv6 addresses.

XML structure

Please refer to the XML structure of ipv6Config.

Table description

Item	Description
Feature name	ipv6Config
Table name	am6CfgAddrs
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
am6CfgAddr	IPv6 address configuration	subtable	N/A.	For more information, see the ipv6Config/am6CfgAddrs/am6CfgAddr table.

ipv6Config/am6CfgAddrs/am6CfgAddr

This table contains IPv6 address configuration.

XML structure

Please refer to the XML structure of ipv6Config.

Table description

Item	Description
Feature name	ipv6Config
Table name	am6CfgAddr
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIp6Addr	IPv6 address	index	String, dotted decimal.	IPv6 example: 1:2:3:4:5:6:7:8.
addrPrefixLen	Length of the IPv6 address prefix	N/A	Unsigned integer. Value range: 1 to 128.	“addrType6” must not be “linkLocal” but “addrPrefixLen” is 10.
addrType6	IPv6 address type	N/A	Enumeration: • **1**—global. • **2**—linkLocal. • **3**—ndPrefix. • **4**—eui64. • **5**—anycast.	“addrType6” must be “global” or “linkLocal” or “anycast”
ifIDGenType	Address algorithm	N/A	Enumeration: • **1**—none. • **2**—cga. • **3**—eui64.	When “addrType6” is “global”, then “ifIDGenType” must be “none” or “cga” or “eui64”,when “addrType6” is “linklocal”,“ifIDGenType” must be “none” or “cga”,and When “addrType6” is “anycast”,then “ifIDGenType” must be “none”.

Contents

L2vpn 1

l2vpn/l2vpncommon/arpDualSendInterfaces 1
XML structure 1
Table description 1
Columns 1
l2vpn/l2vpnvpws/vpwsInstances 2
XML structure 2
Table description 2
Columns 2
l2vpn/l2vpnvpws/vpwsInstances/l2vpnAcs 3
XML structure 3
Table description 3
Columns 4
l2vpn/l2vpnvpws/vpwsInstances/vpwsPws 4
XML structure 4
Table description 4
Columns 5
l2vpn/l2vpnvpws/vpwsInstances/reliabilitys 5
XML structure 5
Table description 6
Columns 6
l2vpn/l2vpnvpws/vpwsSwitchInstances 7
XML structure 7
Table description 7
Columns 7
l2vpn/l2vpnvpws/vpwsSwitchInstances/vpwsPws 8
XML structure 8
Table description 8
Columns 9

L2vpn

l2vpn/l2vpncommon/arpDualSendInterfaces

This table contains information about the ARP dual sending configuration on interfaces.

XML structure

```
<l2vpn  xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpncommon>
    <arpDualSendInterfaces>
      <arpDualSendInterface>
        <interfaceName></interfaceName>
        <arpDualSendEnable></arpDualSendEnable>
        <expireTime></expireTime>
      </arpDualSendInterface>
    </arpDualSendInterfaces>
  </l2vpncommon>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	arpDualSendInterfaces
Table type	Multi-instance table
Row name	arpDualSendInterface
Restrictions	Max-elements 65536
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
interfaceName	Interface name	Index	String. Length: 1 to 31 characters.	N/A
arpDualSendEnable	Enabling status of the ARP dual sending feature	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
expireTime	Set expire time(seconds)	N/A	Uint32:	N/A

			Value range: 60 to 4294967295. Default: 3600.	

l2vpn/l2vpnvpws/vpwsInstances

This table contains information about VPWS instances.

XML structure

```
<l2vpn  xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <instanceName></instanceName>
        <encapsulateType></encapsulateType>
        <description></description>
        <mtu></mtu>
        <l2vpnAcs>
        </l2vpnAcs>
        <vpwsPws>
        </vpwsPws>
        <reliabilitys>
        </reliabilitys>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsInstances
Table type	Multi-instance table
Row name	VpwsInstance
Restrictions	Max-elements 65536
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
instanceName	Name of the VPWS instance	Index	String. Length: 1 to 31 characters.	N/A

encapsulateType	Data encapsulation type	N/A	String: • VLAN. • Ethernet.	N/A
description	Description for the VPWS instance	N/A	String. Length: 1 to 80 characters.	N/A
mtu	MTU value	N/A	uint16 Value range: 46 to 9600.	N/A
l2vpnAcs	L2VPN ACs	Sublist	N/A	N/A
vpwsPws	VPWS PWs	Sublist	N/A	N/A
reliabilitys	Reliabilities	Sublist	N/A	N/A

l2vpn/l2vpnvpws/vpwsInstances/l2vpnAcs

This table contains information about a list of L2VPN ACs in a VPWS instance.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <l2vpnAcs>
          <l2vpnAc>
            <interfaceName></interfaceName>
            <perfStatisticsEnable></perfStatisticsEnable>
          </l2vpnAc>
        </l2vpnAcs>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	L2vpnAcs
Table type	Multi-instance table
Row name	L2vpnAc
Restrictions	Max-elements 2
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
interfaceName	Name of the VPWS instance	Index	String. Length: 1 to 31 characters.	N/A
perfStatisticsEnable	Enable AC statistics	N/A	Boolean	N/A

l2vpn/l2vpnvpws/vpwsInstances/vpwsPws

This table contains information about a list of VPWS PWs in a VPWS instance.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <vpwsPws>
          <vpwsPw>
            <pwId></pwId>
            <peerIp></peerIp>
            <transmitLabel></transmitLabel>
            <receiveLabel></receiveLabel>
            <ctrlWord></ctrlWord>
            <tnlPolicyName></tnlPolicyName>
            <ignoreStandby></ignoreStandby>
          </vpwsPw>
        </vpwsPws>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsPws
Table type	Multi-instance table
Row name	VpwsPw
Restrictions	Max-elements 4

Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwId	PW ID	Index	uint32 Value range: 1 to 4294967295.	N/A
peerIp	IP address of a peer	Index	IPv4: String, dotted decimal notation.	N/A
transmitLabel	Incoming label	N/A	Uint32 Value range: 0 to 1048575.	N/A
receiveLabel	Outgoing label	N/A	Uint32 Value range: 16 to 1048575.	N/A
ctrlWord	Control word feature	N/A	String: • default • enable. • disable	N/A
tnlPolicyName	Name of a tunnel policy	N/A	String	N/A
ignoreStandby	Ignore the PW active/standby status bit received	N/A	Boolean	N/A

l2vpn/l2vpnvpws/vpwsInstances/reliabilitys

This table contains information about a list of PW reliability features in a VPWS instance.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <reliabilitys>
          <reliability>
            <pwRedundancyMode></pwRedundancyMode>
            <dualReceive></dualReceive>
            <reRoute>
              <reRoutePolicy></reRoutePolicy>
              <delayTime></delayTime>
            </reRoute>
          </reliability>
        </reliabilitys>
```

```
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	Reliabilitys
Table type	Multi-instance table
Row name	Reliability
Restrictions	instanceType not in('vpwsRemoteccc', 'vpwsLocalccc', 'vpwsSingleccc')
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwRedundancyMode	PW redundancy mode	Index	String: • Master/slave. • Independent.	N/A
dualReceive	Allow both the primary and secondary PWs to receive packets	N/A	Boolean	N/A
reRoute	Switchback settings	N/A	Members include: • reRoutePolicy. • delayTime.	N/A
reRoutePolicy	Switchback policy	N/A	String: • delay. • immediately. • never.	If you set reRoutePolicy to delay, you must give the delayTime. If you set reRoutePolicy to immediately or never, you cannot send the delayTime.
delayTime	Delay time for switching traffic back	N/A	Uint32. Value range: 10 to 10800.	Cannot only send delayTime without setting ReRoutePolicy.

l2vpn/l2vpnvpws/vpwsSwitchInstances

This table contains information about VPWS switch instances.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsSwitchInstances>
      <vpwsSwitchInstance>
        <instanceName></instanceName>
        <encapsulateType></encapsulateType>
        <description></description>
        <mtu></mtu>
        <vpwsPws>
        </vpwsPws>
      </vpwsSwitchInstance>
    </vpwsSwitchInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsSwitchInstances
Table type	Multi-instance table
Row name	VpwsSwitchInstance
Restrictions	Max-elements 65536
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
instanceName	Instance name	Index	String. Length: 1 to 31 characters.	N/A
encapsulateType	L2VPN encapsulate type	N/A	String: • VLAN. • Ethernet.	N/A
description	Description for the instance	N/A	String. Length: 1 to 128 characters.	N/A

mtu	MTU value	N/A	Uint16. Value range: 46 to 9600.	N/A
vpwsPws	List of VPWS PWs	sublist	N/A	N/A

l2vpn/l2vpnvpws/vpwsSwitchInstances/vpwsPws

This table contains information about a list of VPWS PWs in a VPWS switch instance.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsSwitchInstances>
      <vpwsSwitchInstance>
        <vpwsPws>
          <vpwsPw>
            <pwId></pwId>
            <peerIp></peerIp>
            <transmitLabel></transmitLabel>
            <receiveLabel></receiveLabel>
            <ctrlWord></ctrlWord>
            <tnlPolicyName></tnlPolicyName>
            <ignoreStandby></ignoreStandby>
          </vpwsPw>
        </vpwsPws>
      </vpwsSwitchInstance>
    </vpwsSwitchInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsPws
Table type	Multi-instance table
Row name	VpwsPw
Restrictions	Max-elements 4
Support for row creation and deletion	Yes

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwId	PW ID	Index	uint32 Value range: 1 to 4294967295.	N/A
peerIp	IP address of a peer	Index	IPv4: String, dotted decimal notation.	N/A
transmitLabel	Incoming label	N/A	Uint32 Value range: 0 to 1048575.	N/A
receiveLabel	Outgoing label	N/A	Uint32 Value range: 16 to 1048575.	N/A
ctrlWord	Control word feature	N/A	String: • default • enable. • disable	N/A
tnlPolicyName	Name of a tunnel policy	N/A	String	N/A
ignoreStandby	Ignore the PW active/standby status bit received	N/A	Boolean	N/A

Contents

L2vpn 1

l2vpn/l2vpncommon/arpDualSendInterfaces 1
XML structure 1
Table description 1
Columns 1
l2vpn/l2vpnvpws/vpwsInstances 2
XML structure 2
Table description 2
Columns 2
l2vpn/l2vpnvpws/vpwsInstances/l2vpnAcs 3
XML structure 3
Table description 3
Columns 4
l2vpn/l2vpnvpws/vpwsInstances/vpwsPws 4
XML structure 4
Table description 4
Columns 5
l2vpn/l2vpnvpws/vpwsInstances/reliabilitys 5
XML structure 5
Table description 6
Columns 6
l2vpn/l2vpnvpws/vpwsSwitchInstances 7
XML structure 7
Table description 7
Columns 7
l2vpn/l2vpnvpws/vpwsSwitchInstances/vpwsPws 8
XML structure 8
Table description 8
Columns 9

L2vpn

l2vpn/l2vpncommon/arpDualSendInterfaces

This table contains information about arpDualSendInterfaces

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpncommon>
    <arpDualSendInterfaces>
      <arpDualSendInterface>
        <interfaceName></interfaceName>
        <arpDualSendEnable></arpDualSendEnable>
        <expireTime></expireTime>
      </arpDualSendInterface>
    </arpDualSendInterfaces>
  </l2vpncommon>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	arpDualSendInterfaces
Table type	Multi-instance table
Row name	arpDualSendInterface
Restrictions	Max-elements 65536

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
interfaceName	interfaceName	Index	String. Length: 1 to 31 characters.	N/A
arpDualSendEnable	arpDualSendEnable	N/A	Boolean： • true—Enabled • false—Disabled	N/A
expireTime	expireTime	N/A	Uint32: Range: 60 to 4294967295	N/A

l2vpn/l2vpnvpws/vpwsInstances

This table contains information about vpws instances

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <instanceName></instanceName>
        <instanceType></instanceType>
        <encapsulateType></encapsulateType>
        <description></description>
        <mtu></mtu>
        <l2vpnAcs>
        </l2vpnAcs>
        <vpwsPws>
        </vpwsPws>
        <reliabilitys>
        </reliabilitys>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsInstances
Table type	Multi-instance table
Row name	VpwsInstance
Restrictions	Max-elements 65536

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
instanceName	instanceName	Index	String. Length: 1 to 31 characters.	N/A
instanceType	Instance type	N/A	String: • vpwsSvc • vpwsLdp • vpwsSwitch	N/A

encapsulateType	encapsulateType	N/A	String: • vlan • ethernet	N/A
description	description for vpwsInstance	N/A	String. Length: 1 to 80 characters.	N/A
mtu	mtu	N/A	uint16 Range: 46 to 9600	N/A
l2vpnAcs	l2vpn Acs	Sublist	N/A	N/A
vpwsPws	Vpws Pws	Sublist	N/A	N/A
reliabilitys	reliabilitys	Sublist	N/A	N/A

l2vpn/l2vpnvpws/vpwsInstances/l2vpnAcs

This table is a sublist of vpwsInstances. This table contains information about l2vpn acs.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <l2vpnAcs>
          <l2vpnAc>
            <interfaceName></interfaceName>
            <perfStatisticsEnable></perfStatisticsEnable>
          </l2vpnAc>
        </l2vpnAcs>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	L2vpnAcs
Table type	Multi-instance table
Row name	L2vpnAc
Restrictions	Max-elements 2

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
interfaceName	instanceName	Index	String. Length: 1 to 31 characters.	N/A
perfStatisticsEnable	Enable the function to PW performance statistics	N/A	Boolean	N/A

l2vpn/l2vpnvpws/vpwsInstances/vpwsPws

This table is a sublist of vpwsInstances . This table contains information about vpws Pws.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <vpwsPws>
          <vpwsPw>
            <pwId></pwId>
            <peerIp></peerIp>
            <pwRole></pwRole>
            <pwSignalType></pwSignalType>
            <transmitLabel></transmitLabel>
            <receiveLabel></receiveLabel>
            <ctrlWord></ctrlWord>
            <tnlPolicyName></tnlPolicyName>
            <ignoreStandby></ignoreStandby>
          </vpwsPw>
        </vpwsPws>
      </vpwsInstance>
    </vpwsInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsPws
Table type	Multi-instance table

Row name	VpwsPw
Restrictions	Max-elements 4

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwId	PW ID	Index	uint32 range "1..4294967295	N/A
peerIp	IP address of a peer	Index	inet:ipv4-address-no-zone IP address of a peer	IPv4 example: 1.1.1.1.
pwRole	Role of a PW	N/A	String: • Primary. • Backup.	N/A
pwSignalType	PW type	N/A	String: • LDP. • Static.	N/A
transmitLabel	transmitLabel	N/A	Uint32 range "0..1048575"	N/A
receiveLabel	receiveLabel	N/A	Uint32 range "16..1048575"	N/A
ctrlWord	ctrlWord	N/A	String: • default • enable. • disable	N/A
tnlPolicyName	tnlPolicyName	N/A	String Name of a tunnel policy	N/A
ignoreStandby	ignoreStandby	N/A	Boolean	N/A

l2vpn/l2vpnvpws/vpwsInstances/reliabilitys

This table is a sublist of vpwsInstances. This table contains information about pw reliabilitys

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsInstances>
      <vpwsInstance>
        <reliabilitys>
          <reliability>
            <pwRedundancyMode></pwRedundancyMode>
            <dualReceive></dualReceive>
            <reRoute>
              <reRoutePolicy></reRoutePolicy>
```

```
            <delayTime></delayTime>
          </reRoute>
        </reliability>
      </reliabilitys>
    </vpwsInstance>
  </vpwsInstances>
 </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	Reliabilitys
Table type	Multi-instance table
Row name	Reliability
Restrictions	instanceType not in('vpwsRemoteccc', 'vpwsLocalccc', 'vpwsSingleccc')

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwRedundancyMode	pw Redundancy Mode	Index	String: • masterSlave. • independent.	N/A
dualReceive	Allow both the primary and secondary PWs to receive packets	N/A	Boolean	N/A
reRoute	Switchback policy group	N/A	Members include: • reRoutePolicy. • delayTime.	It is a group including reRoutePolicy and delayTime.
reRoutePolicy	switch back policy	N/A	String : • delay. • immediately. • never.	When you create,merge or replace,If the reRoutePolicy is delay,you must give the delayTime. When you set,if the reRoutePolicy is immediately or never,you can not send the delayTime.
delayTime	delay for switching	N/A	Uint32.	Cannot only send delayTime without

	traffic back		Range: 10 to 10800	ReRoutePolicy anyway when set.

l2vpn/l2vpnvpws/vpwsSwitchInstances

This table contains information about vpws Switch Instances.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsSwitchInstances>
      <vpwsSwitchInstance>
        <instanceName></instanceName>
        <instanceType></instanceType>
        <encapsulateType></encapsulateType>
        <description></description>
        <mtu></mtu>
        <vpwsPws>
        </vpwsPws>
      </vpwsSwitchInstance>
    </vpwsSwitchInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsSwitchInstances
Table type	Multi-instance table
Row name	VpwsSwitchInstance
Restrictions	Max-elements 65536

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
instanceName	instance name	Index	String. Length: 1 to 31 characters.	N/A
instanceType	Instance type	N/A	String: • vpwsSwitch	N/A
encapsulateType	l2vpn encapsulate	N/A	String: • vlan	N/A

	type		• ethernet	
description	description	N/A	String. Length: 1 to 128 characters.	N/A
mtu	mtu	N/A	Uint16 Range: 46 to 9600	N/A
vpwsPws	sublist of vpwsPws	sublist	N/A	N/A

l2vpn/l2vpnvpws/vpwsSwitchInstances/vpwsPws

This table is a sublist of vpwsSwitchInstances. This table contains information about vpws mul-Pws.

XML structure

```
<l2vpn xmlns="http://www.gsta.com/netconf/gsta-l2vpn">
  <l2vpnvpws>
    <vpwsSwitchInstances>
      <vpwsSwitchInstance>
        <vpwsPws>
          <vpwsPw>
            <pwId></pwId>
            <peerIp></peerIp>
            <pwSignalType></pwSignalType>
            <transmitLabel></transmitLabel>
            <receiveLabel></receiveLabel>
            <ctrlWord></ctrlWord>
            <tnlPolicyName></tnlPolicyName>
            <ignoreStandby></ignoreStandby>
          </vpwsPw>
        </vpwsPws>
      </vpwsSwitchInstance>
    </vpwsSwitchInstances>
  </l2vpnvpws>
</l2vpn>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpwsPws
Table type	Multi-instance table
Row name	VpwsPw
Restrictions	Max-elements 4

Columns

Column name or list-table	Column description	Column type	Data type and restrictions	Remarks
pwId	PW ID	Index	uint32 range "1..4294967295	N/A
peerIp	IP address of a peer	Index	inet:ipv4-address-no-zone IP address of a peer	IPv4 example: 1.1.1.1.
pwSignalType	PW type	N/A	String: • LDP. • Static.	N/A
transmitLabel	transmitLabel	N/A	Uint32 range "0..1048575"	N/A
receiveLabel	receiveLabel	N/A	Uint32 range "16..1048575"	N/A
ctrlWord	ctrlWord	N/A	String: • default • enable. • disable	N/A
tnlPolicyName	tnlPolicyName	N/A	String Name of a tunnel policy	N/A
ignoreStandby	ignoreStandby	N/A	Boolean	N/A

Contents

gsta-l3vpn 1
gsta-l3vpn/l3vpn 1
XML structure 1
Table description 2
Columns 2
gsta-l3vpn/l3vpn/l3vpncomm 2
XML structure 2
Table description 2
Columns 2
gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances 3
XML structure 3
Table description 3
Columns 3
gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs 4
XML structure 4
Table description 4
Columns 4
gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ vpnTargets 5
XML structure 5
Table description 5
Columns 6
gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ exVpnTargets 6
XML structure 6
Table description 6
Columns 7

gsta-l3vpn

gsta-l3vpn/l3vpn

This table contains L3VPN information.

XML structure

```
<gsta-l3vpn>
  <l3vpn>
    <l3vpncomm>
      <l3vpnInstances>
        <l3vpnInstance>
          <vrfName></vrfName>
          <vpnInstAFs>
            <vpnInstAF>
            <afType></afType>
            <imPolicyName></imPolicyName>
            <exPolicyName></exPolicyName>
            <vrfLabelMode></vrfLabelMode>
            <tnlPolicyName></tnlPolicyName>
            <vrfRD></vrfRD>
            <vpnTargets>
              <vpnTarget>
                <vrfRTValue></vrfRTValue>
                <vrfRTType></vrfRTType>
              </vpnTarget>
            </vpnTargets>
            <exVpnTargets>
              <exVpnTarget>
                <vrfRTValue></vrfRTValue>
                <vrfRTType></vrfRTType>
                <extAddrFamily></extAddrFamily>
              </exVpnTarget>
            </exVpnTargets>
          </vpnInstAF>
        </vpnInstAFs>
      </l3vpnInstance>
    </l3vpnInstances>
  </l3vpncomm>
</l3vpn>
</gsta-l3vpn>
```

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	l3vpn
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
l3vpncomm	Container of L3VPN common information	Subtable	N/A	For more information, see the gsta-l3vpn/l3vpncomm table.

gsta-l3vpn/l3vpn/l3vpncomm

This table contains L3VPN common information.

XML structure

Please refer to the XML structure of gsta-l3vpn/l3vpn.

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	l3vpncomm
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
l3vpnInstances	List of VPN	Subtable	N/A	For more

Column name	Column description	Column type	Data type and restrictions	Remarks
	instances			information, see the gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances table.

gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances

This table contains Layer 3 VPN instance information.

XML structure

Please refer to the XML structure of gsta-l3vpn/l3vpn.

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	l3vpnInstances
Table type	Multi-instance table
Row name	l3vpnInstance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters. The name cannot be"_public_".	N/A
vpnInstAFs	List of VPN address families	Subtable	N/A	For more information, see the gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/vpnInstAFs table.

gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/vpnInstAFs

This table contains VPN instance address family information.

XML structure

Please refer to the XML structure of gsta-l3vpn/l3vpn.

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	vpnInstAFs
Table type	Multi-instance table
Row name	vpnInstAF
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters. The name cannot be"_public_".	N/A
afType	Address families of the VPN instance	Index	Enumeration: • ipv4uni • ipv6uni	N/A
imPolicyName	Name of the import routing policy for the VPN instance	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
exPolicyName	Name of the export routing policy for the VPN instance	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
vrfLabelMode	The Mode of L3vpncommonLabel	N/A	Enumeration: • perInstance • perRoute • perNexthop	N/A
tnlPolicyName	Name of the tunnel policy for the VPN	N/A	String, case-sensitive. Length: 1 to 126 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	instance			
vpnTargets	A group of RTs	Subtable	N/A	The number of RTs in the group ranges from 1 to 8. For more information, see the gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ vpnTargets table.
exVpnTargets	A group of extended RTs	Subtable	N/A	The number of RTs in the group ranges from 1 to 8. For more information, see the gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ exVpnTargets table.
vrfRD	Route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A

gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ vpnTargets

This table contains route target (RT) information of VPN instances.

XML structure

Please refer to the XML structure of gsta-l3vpn/l3vpn.

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	vpnTargets
Table type	Multi-instance table
Row name	vpnTarget
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance name	index	String, case-sensitive. Length: 1 to 31 characters. The name cannot be"_public_".	N/A
afType	Address families of the VPN instance	index	Enumeration: • 1—ipv4uni • 2—ipv6uni	N/A
vrfRTValue	Route targets of the VPN instance	index	String. Length: 3 to 21 characters. An RT can be in one of the following formats: • 16-bit AS number:32-bit user-defined number • 32-bit IP address:16-bit user-defined number • 32-bit AS number:16-bit user-defined number	N/A
vrfRTType	Route target types	index	Enumeration: • 1—export_extcommunity • 2—import_extcommunity	N/A

gsta-l3vpn/l3vpn/l3vpncomm/l3vpnInstances/ vpnInstAFs/ exVpnTargets

This table contains route target information for VPN instances in extended address families.

XML structure

Please refer to the XML structure of gsta-l3vpn/l3vpn.

Table description

Item	Description
Feature name	gsta-l3vpn
Table name	vpnTargets
Table type	Multi-instance table
Row name	exVpnTarget
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	VPN instance name	index	String, case-sensitive. Length: 1 to 31 characters. The name cannot be"_public_".	N/A
afType	Address family of the VPN instance	index	Enumeration: • 1—ipv4uni	N/A
vrfRTValue	Route targets of the VPN instance	index	String. Length: 3 to 21 characters. An RT can be in one of the following formats: • 16-bit AS number:32-bit user-defined number • 32-bit IP address:16-bit user-defined number • 32-bit AS number:16-bit user-defined number	N/A
vrfRTType	Route target types	index	Enumeration: • 1—export_extcommunity • 2—import_extcommunity	N/A
extAddrFamily	Extended address family of the VPN instance	index	Enumeration: • 1—evpn	N/A

Contents

monitorgroup 1
monitorgroup/monitorGroups 1
monitorgroup/monitorGroups/bindInterfaces 1
monitorgroup/monitorGroups/trackedInterfaces 1

monitorgroup

monitorgroup/monitorGroups

Message	Explanation
"The Monitor Link group doesn't exist." "指定Monitor Link组不存在。"	
"The Monitor Link group has members." "删除指定Monitor Link组失败，因为该Monitor Link组包含成员端口。"	删除组时，组内不能包含成员端口
"The number of Monitor Link groups reaches the limit." "支持的Monitor Link组已经达到最大支持数量。"	最大支持 Monitor Link 组数量限制
"The ID corresponding to the default group name is occupied." "默认Monitor Link组名对应的id已经被使用。"	Monitor Link 组的 ID 与默认格式组名为一一对应关系

monitorgroup/monitorGroups/bindInterfaces

Message	Explanation
"%s已经加入其他Monitor Link组。" "%s has been assigned to another Monitor Link group."	接口不能重复加入其它Monitor Link组
"The role of port has been configured." "接口已指定角色。"	不能修改已指定接口的角色

monitorgroup/monitorGroups/trackedInterfaces

Message	Explanation
"%s已经加入其他Monitor Link组。" "%s has been assigned to another Monitor Link group."	接口不能重复加入其它Monitor Link组
"The role of port has been configured." "接口已指定角色。"	不能修改已指定接口的角色

Contents

monitorgroup 1
monitorgroup/monitorGroups 1
XML structure 1
Table description 1
Columns 2
monitorgroup/monitorGroups/monitorGroup 2
XML structure 2
Table description 2
Columns 2
monitorgroup/monitorGroups/bindInterfaces 2
XML structure 3
Table description 3
Columns 3
monitorgroup/monitorGroups/bindInterfaces/ bindInterface 3
XML structure 3
Table description 3
Columns 4
monitorgroup/monitorGroups/trackedInterfaces 4
XML structure 4
Table description 4
Columns 4
monitorgroup/monitorGroups/trackedInterfaces/ trackedInterface 4
XML structure 5
Table description 5
Columns 5

monitorgroup

monitorgroup/monitorGroups

This table contains information about monitorGroups.

XML structure

```
<monitorgroup xmlns="http://www.gsta.com/netconf/gsta-monitorgroup">
  <monitorGroups>
    <monitorGroup>
      <groupName></groupName>
      <triggerUpDelay></triggerUpDelay>
      <enableStatus></enableStatus>
      <bindInterfaces>
        <bindInterface>
          <ifName></ifName>
          <downWeight></downWeight>
        </bindInterface>
      </bindInterfaces>
      <trackedInterfaces>
        <trackedInterface>
          <ifName></ifName>
          <downWeight></downWeight>
        </trackedInterface>
      </trackedInterfaces>
    </monitorGroup>
  </monitorGroups>
</monitorgroup>
```

Table description

Item	Description
Feature name	monitorgroup
Table name	monitorGroups
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
monitorGroup	A set of monitor group.	Sublist	N/A

monitorgroup/monitorGroups/monitorGroup

This table contains information about monitorGroup.

XML structure

See the XML structure of monitorgroup/monitorGroups

Table description

Item	Description
Feature name	monitorgroup
Table name	monitorGroups
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
groupName	The name of an interface monitoring group.	Index	String. • Length: 1 to 31 characters.
triggerUpDelay	Delay for a track interface to go up.	N/A	Unsigned integer32. The value is an integer ranging from 0 to 4294967295, in seconds. Default: 0.
enableStatus	The enable status of monitorgroup.	N/A	string: • Inactive (default). • Active.
bindInterfaces	Monitor group binding interfaces.	Sublist	N/A
trackedInterfaces	A set of track interfaces.	Sublist	N/A

monitorgroup/monitorGroups/bindInterfaces

This table contains information about bindings Interfaces.

XML structure

See the XML structure of monitorgroup/monitorGroups

Table description

Item	Description
Feature name	monitorgroup
Table name	bindInterfaces
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
bindInterface	Monitor group binding interface.	Sublist	N/A

monitorgroup/monitorGroups/bindInterfaces/bindInterface

This table contains information about bindings Interface.

XML structure

See the XML structure of monitorgroup/monitorGroups

Table description

Item	Description
Feature name	monitorgroup
Table name	bindInterface
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ifName	Name of monitor group binding interface.	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/1
downWeight	Down weight of monitor group binding interface.	N/A	Unsigned integer32. Value range: 1 to 1000. Default: 10.

monitorgroup/monitorGroups/trackedInterfaces

This table contains information about track Interfaces.

XML structure

See the XML structure of monitorgroup/monitorGroups

Table description

Item	Description
Feature name	monitorgroup
Table name	trackedInterfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ifName	Name of a track interface.	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/1

monitorgroup/monitorGroups/trackedInterfaces/trackedInterface

This table contains information about track Interface.

XML structure

See the XML structure of monitorgroup/monitorGroups

Table description

Item	Description
Feature name	monitorgroup
Table name	trackedInterface
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ifName	Name of a track interface.	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/1
downWeight	Down weight of monitor group binding interface.	N/A	Unsigned integer32. Value range: 1 to 1000. Default value is the sum of all the uplink interface weight.

Contents

mpls/mplsCommon/mplsCommonCfg 1
XML structure 1
Table description 1
Columns 1
mpls/mplsCommon/mplsInterfaces 1
XML structure 1
Table description 2
Columns 2

mpls/mplsCommon/mplsCommonCfg

This table contains basic MPLS configuration information.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-common">
  <mplsCommon>
    <mplsCommonCfg>
      <mplsLsrID></mplsLsrID>
      <teEnable></teEnable>
    </mplsCommonCfg>
  </mplsCommon>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-common
Table name	mplsCommoncfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mplsLsrID	MPLS LSR ID	N/A	String, dotted decimal notation.	N/A
teEnable	Enable MPLS TE	N/A	Boolean: • true—Enable. • false—Disable (default).	N/A

mpls/mplsCommon/mplsInterfaces

This table contains MPLS interfaces information.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-common">
  <mplsCommon>
```

```
    <mplsInterfaces>
      <mplsInterface>
        <interfaceName></interfaceName>
        <mtuValue></mtuValue>
      </mplsInterface>
    </mplsInterfaces>
  </mplsCommon>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-common
Table name	mplsInterfaces
Table type	Multi-instance table
Row name	mplsInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaceName	Name of a physical interface to be enabled or disabled with the MPLS capability	index	String Length: 2 to 47 characters.	N/A
mtuValue	MTU value	N/A	uint 32 Value range: 0 to 65535.	N/A

Contents

mpls/mplsCommon/mplsCommonCfg 1
XML structure 1
Table description 1
Columns 1
mpls/mplsCommon/mplsInterfaces 1
XML structure 2
Table description 2
Columns 2

mpls/mplsCommon/mplsCommonCfg

This table contains basic MPLS configuration information.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-common">
  <mplsCommon>
    <mplsCommonCfg>
      <mplsLsrID></mplsLsrID>
      <mplsEnable></mplsEnable>
      <teEnable></teEnable>
    </mplsCommonCfg>
  </mplsCommon>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-common
Table name	mplsCommoncfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mplsLsrID	MPLS LSR ID	N/A	String, dotted decimal notation.	
mplsEnable	Whether MPLS is enabled	N/A	Boolean: • true • false	N/A
teEnable	Whether MPLS TE is enabled	N/A	Boolean: • true • false	N/A

mpls/mplsCommon/mplsInterfaces

This table contains MPLS interfaces information.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-common">
  <mplsCommon>
    <mplsInterfaces>
      <mplsInterface>
        <interfaceName></interfaceName>
        <mtuValue></mtuValue>
      </mplsInterface>
    </mplsInterfaces>
  </mplsCommon>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-common
Table name	mplsInterfaces
Table type	Multi-instance table
Row name	mplsInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaceNam e	MPLS enabled interface name	index	String Length: 2 to 47 characters.	N/A
mtuValue	MTU value	N/A	uint 32 Value range: 0 to 65535.	N/A

Contents

mpls/mplsLdp/ldpInstances 1
XML structure 1
Table description 1
Columns 1
mpls/mplsLdp/ldpInstances/ldpInstance/ldpRemotePeers 1
XML structure 2
Table description 2
Columns 2

mpls/mplsLdp/ldpInstances

This table contains LDP-VPN instance information.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-ldp">
  <mplsLdp>
    <ldpInstances>
      <ldpInstance>
        <vrfName></vrfName>
        <ldpRemotePeers></ldpRemotePeers>
      </ldpInstance>
     </ldpInstances>
   </mplsLdp>
 </mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-ldp
Table name	ldpInstances
Table type	Multi-instance table
Row name	ldpInstance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	Name of the VPN instance where LDP is enabled	Index	String. Length: 1 to 31 characters.	N/A
ldpRemotePeers	List of remote LDP neighbors	Sublist	N/A	N/A

mpls/mplsLdp/ldpInstances/ldpInstance/ldpRemotePeers

This table contains LDP remote peers information. The table is a subtable of ldpInstance.

XML structure

```
<ldpRemotePeers>
  <ldpRemotePeer>
    <remotePeerName></remotePeerName>
    <remoteIp></remoteIp>
  </ldpRemotePeer>
</ldpRemotePeers>
```

Table description

Item	Description
Feature name	gsta-mpls-ldp
Table name	ldpRemotePeers
Table type	Multi-instance table
Row name	ldpRemotePeer
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
remotePeerName	Name of the remote neighbor	Index	String. Length: 1 to 32 characters.	N/A
remoteIp	IPv4 address of the remote neighbor	N/A	String, dotted decimal notation.	N/A

Contents

mpls/mplsLdp/dpInstances 1
XML structure 1
Table description 1
Columns 1
mpls/mplsLdp/ldpInstances/ldpInstance/ldpRemotePeers 1
XML structure 2
Table description 2
Columns 2

mpls/mplsLdp/dpInstances

This table contains LDP-VPN instances information. The table is a subtable of ldpInstance.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-ldp">
  <mplsLdp>
    <ldpInstances>
      <ldpInstance>
        <vrfName></vrfName>
        <ldpRemotePeers></ldpRemotePeers>
      </ldpInstance>
     </ldpInstances>
   </mplsLdp>
 </mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-ldp
Table name	ldpInstances
Table type	Multi-instance table
Row name	ldpInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	Name of the VPN instance where LDP is enabled	Index	String. Length: 1 to 31 characters	N/A
ldpRemotePeers	List of remote LDP neighbors.	Sublist	N/A	N/A

mpls/mplsLdp/ldpInstances/ldpInstance/ldpRemotePeers

This table contains LDP remote peers information. The table is a subtable of ldpInstance.

XML structure

```
<ldpRemotePeers>
  <ldpRemotePeer>
    <remotePeerName></remotePeerName>
    <remoteIp></remoteIp>
  </ldpRemotePeer>
</ldpRemotePeers>
```

Table description

Item	Description
Feature name	gsta-mpls-ldp
Table name	ldpRemotePeers
Table type	Multi-instance table
Row name	ldpRemotePeer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
remotePeerName	Name of the remote neighbor.	Index	String. Length: 1 to 32 characters	N/A
remoteIp	IPv4 address of the remote neighbor.	N/A	String, dotted decimal notation	N/A

Contents

mpls/mplsTe/teLinks ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
mpls/mplsTe/srTeTunnels ····· 1
XML structure ····· 1
Table description ····· 2
Columns ····· 2
mpls/mplsTe/srTeTunnels/srTeTunnel/mplsTeTunnelBfd ····· 3
XML structure ····· 3
Table description ····· 3
Columns ····· 3

mpls/mplsTe/teLinks

This table contains information about MPLS TE interfaces.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-tetunnels">
  <mplsTe>
    <teLinks>
      <teLink>
        <interfaceName></interfaceName>
      </teLink>
    </teLinks>
  </mplsTe>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	teLinks
Table type	Multi-instance table
Row name	teLink
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaceName	Name of a physical interface to be enabled or disabled with MPLS TE	index	String. Length: 2 to 47 characters.	N/A

mpls/mplsTe/srTeTunnels

This table contains information about MPLS segment routing TE tunnels.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-tetunnels">
  <mplsTe>
    <srTeTunnels>
```

```
      <srTeTunnel>
        <tunnelName></tunnelName>
        <mplsTunnelEgressLSRId></mplsTunnelEgressLSRId>
        <mplsTunnelIndex></mplsTunnelIndex>
        <hotStandbyEnable></hotStandbyEnable>
        <pceDelegation></pceDelegation>
        <resvForBinding></resvForBinding>
        <mplsTeTunnelBfd></mplsTeTunnelBfd>
      </srTeTunnel>
    </srTeTunnels>
  </mplsTe>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	stTeTunnels
Table type	Multi-instance table
Row name	srTeTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	SR-TE tunnel name	index	String. Length: 2 to 47 characters.	Tunnel interfaces can be named in the format of **Tunnel***N*.
mplsTunnelEgressLSRId	Destination address of the SR-TE tunnel	N/A	String, dotted decimal notation.	N/A
mplsTunnelIndex	Session ID of the SR-TE tunnel	N/A	Unsigned integer.	N/A
hotStandbyEnable	Enable hot-standby backup for the SR-TE tunnel	N/A	Boolean: • true. • false (default).	N/A
pceDelegation	PCE delegation capability	N/A	Enumeration: • active • only status report • no (default).	N/A
mplsTeTunnelBfd	Dynamic BFD settings for the SR-TE tunnel	Sublist	N/A	N/A

mpls/mplsTe/srTeTunnels/srTeTunnel/mplsTeTunnelBfd

This table contains information about dynamic BFD settings for the SR-TE tunnel. The table is a subtable of srTeTunnel.

XML structure

```
<mplsTeTunnelBfd>
  <mplsTeTunnelBfdEnable></mplsTeTunnelBfdEnable>
  <mplsTeTunnelBfdMinTx></mplsTeTunnelBfdMinTx>
  <mplsTeTunnelBfdMinnRx></mplsTeTunnelBfdMinnRx>
  <mplsTeTunnelBfdDetectMultiplier></mplsTeTunnelBfdDetectMultiplier>
  <mplsTeTunnelBfdOneArmEcho></mplsTeTunnelBfdOneArmEcho>
</mplsTeTunnelBfd>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	mplsTeTunnelBfd
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mplsTeTunnelBfdEnable	Enable BFD for the SR-TE tunnel	N/A	Boolean: • true • false (default).	This capability can take effect only when BFD for MPLS is enabled globally.
mplsTeTunnelBfdMinTx	BFD sending interval	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
mplsTeTunnelBfdMinnRx	BFD receiving interval	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
mplsTeTunnelBfdDetectMultiplier	Multihop detection time multiplier	N/A	Unsigned integer.	The value range for this argument varies by device model.
mplsTeTunnelBfdOneArmEcho	Echo packet sending capability	N/A	Boolean: • true • false (default)	N/A

Contents

mpls/mplsTe/teLinks ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
mpls/mplsTe/srTeTunnels ····· 1
XML structure ····· 1
Table description ····· 2
Columns ····· 2
mpls/mplsTe/srTeTunnels/srTeTunnel/mplsTeTunnelBfd ····· 3
XML structure ····· 3
Table description ····· 3
Columns ····· 3

mpls/mplsTe/teLinks

This table contains information about MPLS TE interfaces.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-tetunnels">
  <mplsTe>
    <teLinks>
      <teLink>
        <interfaceName></interfaceName>
      </teLink>
    </teLinks>
  </mplsTe>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	teLinks
Table type	Multi-instance table
Row name	teLink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaceName	Name of a physical interface enabled with MPLS TE	index	String Length: 2 to 47 characters.	N/A

mpls/mplsTe/srTeTunnels

This table contains information about MPLS segment routing TE tunnels.

XML structure

```
<mpls xmlns="http://www.gsta.com/netconf/gsta-mpls-tetunnels">
  <mplsTe>
    <srTeTunnels>
      <srTeTunnel>
```

```
        <tunnelName></tunnelName>
        <mplsTunnelEgressLSRId></mplsTunnelEgressLSRId>
        <mplsTunnelIndex></mplsTunnelIndex>
        <hotStandbyEnable></hotStandbyEnable>
        <pceDelegation></pceDelegation>
        <resvForBinding></resvForBinding>
        <mplsTeTunnelBfd></mplsTeTunnelBfd>
      </srTeTunnel>
    </srTeTunnels>
  </mplsTe>
</mpls>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	stTeTunnels
Table type	Multi-instance table
Row name	srTeTunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	SR-TE tunnel name	index	String Length: 2 to 47 characters.	Tunnel interfaces can be named in the following formats: **Tunnel***N***.**
mplsTunnelEgressLSRId	Destination address of the SR-TE tunnel	N/A	String, dotted decimal notation	N/A
mplsTunnelIndex	Session ID of the SR-TE tunnel	N/A	Unsigned integer.	N/A
hotStandbyEnable	The state of hot-standby backup capability	N/A	Boolean: • true • false	N/A
pceDelegation	The state of PCE delegation capability.	N/A	Enumeration: • active • only status report • no	N/A
mplsTeTunnelBfd	Dynamic BFD settings for the SR-TE tunnel	Sublist	N/A	N/A

mpls/mplsTe/srTeTunnels/srTeTunnel/mplsTeTunnelBfd

This table contains information about dynamic BFD settings for the SR-TE tunnel. The table is a subtable of srTeTunnel.

XML structure

```
<mplsTeTunnelBfd>
  <mplsTeTunnelBfdEnable></mplsTeTunnelBfdEnable>
  <mplsTeTunnelBfdMinTx></mplsTeTunnelBfdMinTx>
  <mplsTeTunnelBfdMinnRx></mplsTeTunnelBfdMinnRx>
  <mplsTeTunnelBfdDetectMultiplier></mplsTeTunnelBfdDetectMultiplier>
  <mplsTeTunnelBfdOneArmEcho></mplsTeTunnelBfdOneArmEcho>
</mplsTeTunnelBfd>
```

Table description

Item	Description
Feature name	gsta-mpls-tetunnels
Table name	mplsTeTunnelBfd
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mplsTeTunnelBfdEnable	The state of BFD for SR-TE tunnel.	N/A	Boolean: • true • false	N/A
mplsTeTunnelBfdMinTx	BFD sending interval.	N/A	Unsigned integer. Unit: millisecond.	N/A
mplsTeTunnelBfdMinnRx	BFD receiving interval.	N/A	Unsigned integer. Unit: millisecond.	N/A
mplsTeTunnelBfdDetectMultiplier	Multihop detection time multiplier	N/A	Unsigned integer.	N/A.
mplsTeTunnelBfdOneArmEcho	Echo packet sending capability	N/A	Boolean: • true • false	N/A

Contents

nd 1
nd/ndIfTables 1
XML structure 1
Table description 1
Columns 1

nd

nd/ndIfTables

This table contains ND configuration on interfaces.

XML structure

```
<nd  xmlns="http://www.gsta.com/netconf/gsta-nd">
  <ndIfTables>
    <ndIfTable>
      <ifName></ifName>
      <interAccessVlanEnabled></interAccessVlanEnabled>
      <externalAccessVlanEnabled></externalAccessVlanEnabled>
      <internalAccessVlanEnabled></internalAccessVlanEnabled>
    </ndIfTable>
  </ndIfTables>
</nd>
```

Table description

Item	Description
Feature name	nd
Table name	ndIfTable
Table type	Multi-instance table
Row name	ndIfTable
Restrictions	This table supports interface types: Layer 3 Ethernet subinterface Layer 3 aggregate subinterface Layer 3 L3VE subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name	Index	String Value range:1 to 47.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD

Column name	Column description	Column type	Data type and restrictions	Remarks
				document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
interAccessVlanEnabled	Enable ND proxy between sub-interface VLANs	N/A	Boolean: • **true** • **false** (default)	N/A
externalAccessVlanEnabled	Enable ND proxy between sub-interface VLANs	N/A	Boolean: • **true** • **false** (default)	Not used
internalAccessVlanEnabled	Enable ND proxy in sub-interface VLANs	N/A	Boolean: • **true** • **false** (default)	Not used

Contents

nd 1
nd/ndIfTables 1
XML structure 1
Table description 1
Columns 1

nd

nd/ndIfTables

This table contains ND configuration on interfaces.

XML structure

```
<nd  xmlns="http://www.gsta.com/netconf/gsta-nd>
  <ndIfTables>
    <ndIfTable>
      <ifName></ifName>
      <interAccessVlanEnabled></interAccessVlanEnabled>
      <externalAccessVlanEnabled></externalAccessVlanEnabled>
      <internalAccessVlanEnabled></internalAccessVlanEnabled>
    </ndIfTable>
  </ndIfTables>
</nd>
```

Table description

Item	Description
Feature name	nd
Table name	ndIfTable
Table type	Multi-instance table
Row name	ndIfTable
Restrictions	This table supports interface types: Layer 3 Ethernet subinterface Layer 3 aggregate subinterface Layer 3 L3VE subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name	Index	String Value range: 1 to 47.	Only Layer 3 physical interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				“Appendix” in Ifmgr NETCONF XML API Configuration Reference.
interAccessVlanEnabled	Enable ND proxy between sub-interface VLANs	N/A	Boolean: • **true** • **false**	N/A
externalAccessVlanEnabled	Enable ND proxy between sub-interface VLANs	N/A	Boolean: • **true** • **false**	Not used
internalAccessVlanEnabled	Enable ND proxy in sub-interface VLANs	N/A	Boolean: • **true** • **false**	Not used

Contents

qos 1

qos/qosDss 1
XML structure 1
Table description 1
Columns 2
qos/qosDss/qosBas 2
XML structure 2
Table description 2
Columns 2
qos/qosDss/qosPhbs 3
XML structure 3
Table description 3
Columns 4
qos/qosIfQoss 4
XML structure 5
Table description 5
Columns 5
qos/qosIfQoss/qosIfTrusts 5
XML structure 6
Table description 6
Columns 6

qos

qos/qosDss

This table contains information about Diff-Serv domain.

XML structure

```
<qos>
  <qosDss>
    <qosDs>
      <dsName></dsName>
      <dsId></dsId>
      <qosBas>
        <qosBa>
          <baType></baType>
          <baValue></baValue>
          <serviceClass></serviceClass>
          <color></color>
        </qosBa>
      </qosBas>
      <qosPhbs>
        <qosPhb>
          <phbType></phbType>
          <serviceClass></serviceClass>
          <color></color>
          <phbValue></phbValue>
        </qosPhb>
      </qosPhbs>
    </qosDs>
  </qosDss>
</qos>
```

Table description

Item	Description
Feature name	qos
Table name	qosDss
Table type	Multi-instance table
List Table	qosDs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
dsId	The ID of Diff-Serv domain.	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column setting does not take effect.
qosBas	Qos Bas tables	Sublist	N/A	For more information, see the qosBas table.
qosPhbs	Qos Phbs tables	Sublist	N/A	For more information, see the qosPhbs table.

qos/qosDss/qosBas

This table contains external priority mapping to local priority information.

XML structure

Please refer to the XML structure of qos/qosDss.

Table description

Item	Description
Feature name	qos
Table name	qosBas
Table type	Multi-instance table
Row name	qosBa
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
baType	The priority type.	Index	Enumeration: • 8021p • ipDscp	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• mplsExp • userPriority	
baValue	External priority value.	Index	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of source priority values. 8021p: 0 to 7 ipDscp: 0 to 63 mplsExp: 0 to 7 userPriority: 0 to 7
serviceClass	Local priority value.	N/A	Enumeration: • be • af1 • af2 • af3 • af4 • ef • cs6 • cs7 • total • cos0 • cos1 • cos2 • cos3	Required. Only supports be to cs7.
color	Local color type.	N/A	Enumeration: • green (default) • yellow • red	N/A

qos/qosDss/qosPhbs

This table contains local priority mapping to external priority information.

XML structure

Please refer to the XML structure of qos/qosDss.

Table description

Item	Description
Feature name	qos
Table name	qosPhbs
Table type	Multi-instance table
Row name	qosPhb
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
phbType	The priority type.	Index	Enumeration: • 8021p • ipDscp • mplsExp • userPriority	N/A
serviceClass	Local priority value.	Index	Enumeration: • be • af1 • af2 • af3 • af4 • ef • cs6 • cs7 • total • cos0 • cos1 • cos2 • cos3	Only supports be to cs7.
color	Local color type.	Index	Enumeration: • green • yellow • red	N/A
phbValue	Target priority value.	N/A	Unsigned integer. Value range: 0 to 63.	Required. Different priority types have different ranges of target priority values. 8021p: 0 to 7 ipDscp: 0 to 63 mplsExp: 0 to 7 userPriority: 0 to 7

qos/qosIfQoss

This table contains about interface Qos configuration information.

XML structure

```
<qos>
  <qosIfQoss>
    <qosIfQos>
      <ifName></ifName>
      <qosIfTrusts>
        <qosIfTrust>
          <trustType></trustType>
          <directType></directType>
          <vlanMode></vlanMode>
          <groupId></groupId>
          <dsName></dsName>
          <vpnMode></vpnMode>
          <vlanId></vlanId>
        </qosIfTrust>
      </qosIfTrusts>
    </qosIfQos>
  </qosIfQoss>
</qos>
```

Table description

Item	Description
Feature name	qos
Table name	qosIfQoss
Table type	Multi-instance table
List Table	qosIfQos
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
qosIfTrusts	Qos interface trust mode information.	Sublist	N/A	For more information, see the qosIfTrusts table.

qos/qosIfQoss/qosIfTrusts

This table contains about interface Qos trust mode information.

XML structure

Please refer to the XML structure of qos/qosIfQoss.

Table description

Item	Description
Feature name	qos
Table name	qosIfTrusts
Table type	Multi-instance table
Row name	qosIfTrust
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
trustType	Port priority trust type.	Index	Enumeration: • 8021p • ds • inner-8021p • outer-8021p	Not supported when the column is outer-8021p.
directType	The direction of priority trus.	Index	Enumeration: • inbound • outbound	This column only supports inbound when the **trustType** is not ds.
vlanMode	The vlan mode of priority trust.	Index	Boolean: • **false**. • **true**.	This column can only be **false**.
groupId	The group id of priority trust.	Index	Unsigned integer.	The value of this column setting does not take effect.
dsName	The name of Diff-Serv domain.	N/A	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters. This column can only be specified when the **trustType** is ds.
vpnMode	The vpn mode of priority trust.	N/A	Boolean: • **false** (default). • **true**.	The column does not support.
vlanId	The vlan id of priority trust.	N/A	Unsigned integer. Value range: 1 to 4094.	The column does not support.

Contents

qos 1

qos/qosDss 1
XML structure 1
Table description 1
Columns 2
qos/qosDss/qosBas 2
XML structure 2
Table description 2
Columns 2
qos/qosDss/qosPhbs 3
XML structure 3
Table description 3
Columns 4
qos/qosIfQoss 4
XML structure 4
Table description 5
Columns 5
qos/qosIfQoss/qosIfTrusts 5
XML structure 5
Table description 6
Columns 6

qos

qos/qosDss

This table contains information about Diff-Serv domain.

XML structure

```
<qos>
  <qosDss>
    <qosDs>
      <dsName></dsName>
      <dsId></dsId>
      <qosBas>
        <qosBa>
          <baType></baType>
          <baValue></baValue>
          <serviceClass></serviceClass>
          <color></color>
        </qosBa>
      </qosBas>
      <qosPhbs>
        <qosPhb>
          <phbType></phbType>
          <serviceClass></serviceClass>
          <color></color>
          <phbValue></phbValue>
        </qosPhb>
      </qosPhbs>
    </qosDs>
  </qosDss>
</qos>
```

Table description

Item	Description
Feature name	qos
Table name	qosDss
Table type	Multi-instance table
List Table	qosDs
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
dsId	The ID of Diff-Serv domain.	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column setting does not take effect.
qosBas	Qos Bas tables	Sublist	N/A	For more information, see the qosBas table.
qosPhbs	Qos Phbs tables	Sublist	N/A	For more information, see the qosPhbs table.

qos/qosDss/qosBas

This table contains external priority mapping to local priority information.

XML structure

Please refer to the XML structure of qos/qosDss.

Table description

Item	Description
Feature name	qos
Table name	qosBas
Table type	Multi-instance table
Row name	qosBa
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
baType	The priority type.	Index	Enumeration: • 8021p • ipDscp • mplsExp • userPriority	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
baValue	External priority value.	Index	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of source priority values. 8021p: 0 to 7 ipDscp: 0 to 63 mplsExp: 0 to 7 userPriority: 0 to 7
serviceClass	Local priority value.	N/A	Enumeration: • be • af1 • af2 • af3 • af4 • ef • cs6 • cs7 • total • cos0 • cos1 • cos2 • cos3	Only supports be to cs7.
color	Local color type.	N/A	Enumeration: • green • yellow • red	N/A

qos/qosDss/qosPhbs

This table contains local priority mapping to external priorityinformation.

XML structure

Please refer to the XML structure of qos/qosDss.

Table description

Item	Description
Feature name	qos
Table name	qosPhbs
Table type	Multi-instance table
Row name	qosPhb
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dsName	The name of Diff-Serv domain.	Index	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters.
phbType	The priority type.	Index	Enumeration: • 8021p • ipDscp • mplsExp • userPriority	N/A
serviceClass	Local priority value.	Index	Enumeration: • be • af1 • af2 • af3 • af4 • ef • cs6 • cs7 • total • cos0 • cos1 • cos2 • cos3	Only supports be to cs7.
color	Local color type.	Index	Enumeration: • green • yellow • red	N/A
phbValue	Target priority value.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of target priority values. 8021p: 0 to 7 ipDscp: 0 to 63 mplsExp: 0 to 7 userPriority: 0 to 7

qos/qosIfQoss

This table contains about interface Qos configuration information.

XML structure

```
<qos>
  <qosIfQoss>
```

```
    <qosIfQos>
      <ifName></ifName>
      <qosIfTrusts>
        <qosIfTrust>
          <trustType></trustType>
          <directType></directType>
          <vlanMode></vlanMode>
          <groupId></groupId>
          <dsName></dsName>
          <vpnMode></vpnMode>
          <vlanId></vlanId>
        </qosIfTrust>
      </qosIfTrusts>
    </qosIfQos>
  </qosIfQoss>
</qos>
```

Table description

Item	Description
Feature name	qos
Table name	qosIfQoss
Table type	Multi-instance table
List Table	qosIfQos
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
qosIfTrusts	Qos interface trust mode information.	Sublist	N/A	For more information, see the qosIfTrusts table.

qos/qosIfQoss/qosIfTrusts

This table contains about interface Qos trust mode information.

XML structure

Please refer to the XML structure of qos/qosIfQoss.

Table description

Item	Description
Feature name	qos
Table name	qosIfTrusts
Table type	Multi-instance table
Row name	qosIfTrust
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifName	Interface name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
trustType	Port priority trust type.	Index	Enumeration: • 8021p • ds • inner-8021p • outer-8021p	Not supported when the column is outer-8021p.
directType	The direction of priority trus.	Index	Enumeration: • inbound • outbound	This column only supports inbound when the **trustType** is not ds.
vlanMode	The vlan mode of priority trust.	Index	Boolean: • **false**. • **true**.	This column can only be **false**.
groupId	The group id of priority trust.	Index	Unsigned integer.	The value of this column setting does not take effect.
dsName	The name of Diff-Serv domain.	N/A	String. Length: 1 to 48 characters.	Only supports 1 to 31 characters. This column can only be specified when the **trustType** is ds.
vpnMode	The vpn mode of priority trust.	N/A	Boolean: • **false**. • **true**.	The column does not support.
vlanId	The vlan id of priority trust.	N/A	Unsigned integer. Value range: 1 to 4094.	The column does not support.

Contents

Gsta-route-policy 4
Gsta-route-policy/RTP 4
Gsta-route-policy/RTP/TunnelSelectors 4
XML structure 4
Table description 5
Columns 5
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector 6
XML structure 6
Table description 6
Columns 6
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes 6
XML structure 7
Table description 7
Columns 7
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode 7
XML structure 7
Table description 8
Columns 8
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition 9
XML structure 9
Table description 9
Columns 10
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchDestPrefixFilters 11
XML structure 11
Table description 11
Columns 12

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/MatchCondition/MatchDestPrefixFilters/ MatchDestPrefixFilter 12
XML structure 12
Table description 12
Columns 13
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchIPv4NextHops 13
XML structure 13
Table description 13
Columns 14
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchIPv4NextHops/ MatchIPv4NextHop 14
XML structure 14
Table description 14
Columns 15
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchIPv6NextHops 15
XML structure 15
Table description 15
Columns 16
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchIPv6NextHops/MatchIPv6NextHop 16
XML structure 16
Table description 16
Columns 17
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchCommunityFilters 17
XML structure 17
Table description 17
Columns 17
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/MatchCondition/MatchCommunityFilters/MatchCommunityFilter 18
XML structure 18

Table description 18
Columns 18
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchRdFilters 19
XML structure 19
Table description 19
Columns 20
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchRdFilters /MatchRdFilter 20
XML structure 20
Table description 20
Columns 20
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction 21
XML structure 21
Table description 21
Columns 21
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction /ApplyTnlPolicys 22
XML structure 22
Table description 22
Columns 22
Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction /ApplyTnlPolicys/ApplyTnlPolicy 22
XML structure 22
Table description 23
Columns 23

Gsta-route-policy

Gsta-route-policy/RTP

Gsta-route-policy/RTP/TunnelSelectors

This table contains route policy tunnel selector information.

XML structure

```
<gsta-route-policy>
 <rtp>
   <tunnelSelectors>
     <tunnelSelector>
       <name></name>
       <tunnelSelectorNodes>
         <tunnelSelectorNode>
          <nodeSequence></nodeSequence>
            <matchMode></matchMode>
            <matchCondition>
              <matchDestPrefixFilters>
                <matchDestPrefixFilter>
                   <prefixName></prefixName>
                </matchDestPrefixFilter>
              </matchDestPrefixFilters>
              <matchIPv4NextHops>
                <matchIPv4NextHop>
                   <matchType></matchType>
                   <prefixName></prefixName>
                   <aclNameOrNum></aclNameOrNum>
                </matchIPv4NextHop>
              </matchIPv4NextHops>
              <matchIPv6NextHops>
                <matchIPv6NextHop>
                  <ipv6PrefixName></ipv6PrefixName>
                </matchIPv6NextHop>
              </matchIPv6NextHops>
              <matchCommunityFilters>
                <matchCommunityFilter>
                 <wholeMatch></wholeMatch>
                 <cmntyNameOrNum></cmntyNameOrNum>
                </matchCommunityFilter>
```

```
            </matchCommunityFilters>
            <matchRdFilters>
              <matchRdFilter>
                <rdIndex></rdIndex>
              </matchRdFilter >
            </matchRdFilters>
        </matchCondition>
        <applyAction>
          <applyTnlPolicys>
            <applyTnlPolicy>
              <tnlPolicyName></tnlPolicyName>
            </applyTnlPolicy>
          </applyTnlPolicys>
        </applyAction>
      </tunnelSelectorNode>
     </tunnelSelectorNodes>
    </tunnelSelector>
   </tunnelSelectors>
  </rtp>
</gsta-route-policy>
```

Table description

Item	Description
Feature name	rtp
Table name	tunnelSelectors
Table type	Multi-instance table
Row name	tunnelSelector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelSelector	Tunnel selector.	Subtable	N/A	For more information, see the RTP/TunnelSelec

Column name	Column description	Column type	Data type and restrictions	Remarks
				tors/TunnelSelector table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector

This table contains list of tunnel selectors

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	tunnelselector
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
tunnelselectnodes	List of tunnel selector nodes.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes

This table contains list of tunnel selector nodes.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	TunnelSelectNodes
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelselectnode	Tunnel selector node.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ TunnelSelectnodes/SunnelSelectnode table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode

This table contains tunnel selector node information.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	tunnelselectnode
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
matchMode	Matching mode of nodes.	type: rtpMatchMode; mandatory: true;	enumeration • Permit • deny	Perform create or replace operation, Mode can't be empty. Perform Merge operation to create a row, Mode can't be empty. Not support delete or remove operation.
matchCondition	Match type list.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
				tunnelselectnode/ matchCondition table.
applyAction	Set type list.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ applyAction table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition

This table contains match type list.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchCondition
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
matchDestPrefixFilters	Match IPv4 destination addresses by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ matchDestPrefixFilters table.
matchIPv4NextHops	Match IPv4 next hops by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ matchIPv4NextHops table.
matchIPv6NextHops	Match IPv6 destination addresses by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ matchIPv6NextHops table.
matchCommunityFilters	Match community	Subtable	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
	attribute filters.			the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ matchCommunityFilters table.
matchRdFilters	Match RD filters.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ matchRdFilters table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchDestPrefixFilters

This table contains information of matching IPv4 destination addresses by the prefix filter..

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	matchDestPrefixFilters
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
matchDestPrefixFilter	Match IPv4 destination addresses by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/tunnelselectnodes/tunnelselectnode/matchCondition/matchDestPrefixFilters/matchDestPrefixFilter table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/TunnelSelectNode/MatchCondition/MatchDestPrefixFilters/MatchDestPrefixFilter

This table contains information of matching IPv4 destination addresses by the prefix filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchDestPrefixFilter
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
prefixName	Name of the specified prefix filter when IPv4 destination addresses are matched.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchIPv4NextHops

This table contains information of matching IPv4 next hops by the prefix filter or ACL filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchIPv4NextHops
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchIPv4NextHop	Match IPv4 next hops by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ MatchIPv4NextHops/ MatchIPv4NextHop table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/ MatchIPv4NextHops/ MatchIPv4NextHop

This table contains information of matching IPv4 next hops by the prefix filter or ACL filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchIPv4NextHop
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
matchType	Match type. IPv4 next hops are matched with either the prefix or ACL.	N/A	enumeration • matchNHopPF • matchNHopAcl	N/A
prefixName	Match IGP routes with the specified tag	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
aclNameOrNum	Name of the specified ACL when next hops are matched.	N/A	Unsigned integer. Value range: 2000 to 2999. .	N/A

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchIPv6NextHops

This table contains information of matching IPv6 next hops by the IPv6 prefix filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchIPv6NextHops
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchIPv6NextHop	Match IPv6 destination addresses by the prefix filter.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/ tunnelselectnode/ matchCondition/ MatchIPv6NextHops/ MatchIPv6NextHop table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchIPv6NextHops/MatchIPv6NextHop

This table contains information of matching IPv6 next hops by the IPv6 prefix filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchIPv6NextHop
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ipv6PrefixName	Name of the specified prefix filter when IPv6 next hops are matched.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchCommunityFilters

This table contains information of a matching community attribute filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchCommunityFilters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchCommuni	Match a	Subtable	N/A	For more

Column name	Column description	Column type	Data type and restrictions	Remarks
tyFilter	community attribute filter.			information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/tunnelselectnode/matchCondition/MatchCommunityFilters / MatchCommunity Filter table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/TunnelSelectNode/MatchCondition/MatchCommunityFilters/MatchCommunity Filter

This table contains information of a matching community attribute filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchCommunityFilter
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
wholeMatch	All the communities are matched. It is valid to only basic community attribute filters.	N/A	type boolean; default "false"	N/A
cmntyNameOrNum	Name or index of a community attribute filter.	Index	The ID of a basic community attribute filter is an integer ranging from 1 to 99; the ID of an advanced community attribute filter is an integer ranging from 100 to 199. The name of a community attribute filter is a string of 1 to 63 characters.	N/A

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchRdFilters

This table contains information of matching RD filters.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchRdFilters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
matchRdFilter	Match an RD filter.	Subtable	Unit32 1-65535	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/tunnelselectnode/matchCondition / MatchRdFilters / MatchRdFilter table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ MatchCondition/MatchRdFilters /MatchRdFilter

This table contains information of a matching RD filter.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	MatchRdFilter
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	node.			
rdIndex	Index of an RD filter.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction

This table contains information of setting type list.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	applyAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
applyTnlPolicys	Set tunnel policies.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/tunnelselectnode/ applyAction / applyTnlPolicys table.

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction /ApplyTnlPolicys

This table contains information of setting tunnel policies.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	ApplyTnlPolicys
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApplyTnlPolicy	Name of a tunnel selector.	Subtable	N/A	For more information, see the RTP/TunnelSelectors/TunnelSelector/ tunnelselectnodes/tunnelselectnode/ applyAction / applyTnlPolicys/ applyTnlPolicy table

Gsta-route-policy/RTP/TunnelSelectors/TunnelSelector/TunnelSelectNodes/ TunnelSelectNode/ applyAction /ApplyTnlPolicys/ApplyTnlPolicy

This table contains information of setting a tunnel policy.

XML structure

Please refer to the XML structure of RTP/TunnelSelectors.

Table description

Item	Description
Feature name	rtp
Table name	ApplyTnlPolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of a tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
nodeSequence	Sequence number of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
tnlPolicyName	Name of a tunnel policy	N/A	String, case-sensitive. Length: 1 to 126 characters.	N/A

Contents

tnlm/tunnelPolicys ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops ····· 1
XML structure ····· 2
Table description ····· 2
Columns ····· 2
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels ····· 3
XML structure ····· 3
Table description ····· 3
Columns ····· 3
tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs ····· 3
XML structure ····· 3
Table description ····· 4
Columns ····· 4

tnlm/tunnelPolicys

This table contains information about tunnel policies.

XML structure

```
<tnlm xmlns="http://www.gsta.com/netconf/gsta-tnlm">
  <tunnelPolicys>
    <tunnelPolicy>
      <tnlPolicyName></tnlPolicyName>
      <tpNexthops></tpNexthops>
     <tnlSelSeqs></tnlSelSeqs>
    </tunnelPolicy>
  </tunnelPolicys>
</tnlm>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tunnelPolicys
Table type	Multi-instance table
Row name	tunnelPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tnlPolicyNam e	Name of a tunnel policy	index	String, case-sensitive Length: 1 to 19 characters.	some product 1 to 126 characters.
tpNexthops	List of tunnel binding destinations	Sublist	N/A	N/A
tnlSelSeqs	Tunnel selection sequence	Subtable	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

XML structure

```
<tpNexthops>
  <tpNexthop>
    <nexthopIPaddr></nexthopIPaddr>
    <downSwitch></downSwitch>
    <ignoreDestCheck></ignoreDestCheck>
    <tpTunnels></tpTunnels>
  </tpNexthop>
</tpNexthops>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tpNexthops
Table type	Multi-instance table
Row name	tpNexthop
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPaddr	Destination IP address	index	String,dotted decimal notation	N/A
downSwitch	Enable tunnel switching	N/A	Boolean • true. • False (default)	After tunnel switching is enabled, if the bound TE tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the TE tunnel matches the bound destination address specified	N/A	Boolean • true • false (default)	N/A
tpTunnels	List of tunnels bound to the specified destination IP address	Sublist	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels

This table contains information about the tunnels bound to a destination address. The table is a subtable of tpNexthop.

XML structure

```
<tpTunnels>
  <tpTunnel>
    <tunnelName></tunnelName>
  </tpTunnel>
</tpTunnels>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tpTunnels
Table type	Multi-instance table
Row name	tpTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	Name of the tunnel	index	String. Length: 2 to 47 characters.	N/A

tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs

This table contains tunnel selection sequence information of a tunnel policy. The table is a subtable of tunnelPolicy.

XML structure

```
<tnlSelSeqs>
  <tnlSelSeq>
    <loadBalanceNum></loadBalanceNum>
    <selTnlType1></selTnlType1>
    <selTnlType2></selTnlType2>
```

```
    <selTnlType3></selTnlType3>
    <selTnlType4></selTnlType4>
    <unmix></unmix>
  </tnlSelSeq>
</tnlSelSeqs>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tnlSelSeqs
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
loadBalanceNum	Number of tunnels for load sharing	N/A	uint32 • Value range: 1 to 128	N/A
selTnlType1	Sequence in which different types of tunnels are selected	N/A	Enumeration: • 1—invalid (default) • 2—lsp • 3—cr-lsp • 4—gre • 5—srbe-lsp	N/A
selTnlType2				
selTnlType3				
selTnlType4				
unmix	Use the same type of tunnels for load balancing	N/A	Boolean • true • false (default)	N/A

Contents

tnlm/tunnelPolicys ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops ····· 1
XML structure ····· 2
Table description ····· 2
Columns ····· 2
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels ····· 3
XML structure ····· 3
Table description ····· 3
Columns ····· 3
tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs ····· 3
XML structure ····· 3
Table description ····· 4
Columns ····· 4

tnlm/tunnelPolicys

This table contains information about tunnel policies.

XML structure

```
<tnlm xmlns="http://www.gsta.com/netconf/gsta-tnlm">
  <tunnelPolicys>
    <tunnelPolicy>
      <tnlPolicyName></tnlPolicyName>
      <tpNexthops></tpNexthops>
     <tnlSelSeqs></tnlSelSeqs>
    </tunnelPolicy>
  </tunnelPolicys>
</tnlm>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tunnelPolicys
Table type	Multi-instance table
Row name	tunnelPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tnlPolicyName	Name of a tunnel policy	index	String, case-sensitive Length: 1 to 19 characters.	some product 1 to 126 characters.
tpNexthops	List of tunnel binding destinations	Sublist	N/A	N/A
tnlSelSeqs	Tunnel selection sequence	Subtable	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

XML structure

```
<tpNexthops>
  <tpNexthop>
    <nexthopIPaddr></nexthopIPaddr>
    <downSwitch></downSwitch>
    <ignoreDestCheck></ignoreDestCheck>
    <tpTunnels></tpTunnels>
  </tpNexthop>
</tpNexthops>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tpNexthops
Table type	Multi-instance table
Row name	tpNexthop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPaddr	Destination IP address.	index	String, dotted decimal notation	N/A
downSwitch	Enable tunnel switching	N/A	Boolean • true • false	After tunnel switching is enabled, if the bound TE tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the TE tunnel matches the bound destination address specified	N/A	Boolean • true • false	N/A
tpTunnels	List of tunnels bound to the specified destination IP address	Sublist	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels

This table contains information about the tunnels bound to a destination address. The table is a subtable of tpNexthop.

XML structure

```
<tpTunnels>
  <tpTunnel>
    <tunnelName></tunnelName>
  </tpTunnel>
</tpTunnels>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tpTunnels
Table type	Multi-instance table
Row name	tpTunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	Name of the tunnel	index	String. Length: 2 to 47 characters.	N/A

tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs

This table contains tunnel selection sequence information of a tunnel policy. The table is a subtable of tunnelPolicy.

XML structure

```
<tnlSelSeqs>
  <tnlSelSeq>
    <loadBalanceNum></loadBalanceNum>
    <selTnlType1></selTnlType1>
    <selTnlType2></selTnlType2>
    <selTnlType3></selTnlType3>
    <selTnlType4></selTnlType4>
```

```
    <unmix></unmix>
  </tnlSelSeq>
</tnlSelSeqs>
```

Table description

Item	Description
Feature name	gsta-tnlm
Table name	tnlSelSeqs
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
loadBalanceNum	Number of tunnels for load sharing	N/A	uint32 • range：1 to 128	N/A
selTnlType1	Sequence in which different types of tunnels are selected	N/A	Enumeration: • 1—invalid • 2—lsp • 3—cr-lsp • 4—gre • 5—srbe-lsp	N/A
selTnlType2				
selTnlType3				
selTnlType4				
unmix	Use the same type of tunnels for load balancing	N/A	Boolean • true • false	N/A

Contents

GTS 1
GTS/Interfaces 1
XML structure 1
Table description 1
Columns 1

GTS

GTS/Interfaces

This table contains information about generic traffic shaping (GTS) policies.

XML structure

```
<GTS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Type></Type>
      <Value></Value>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <QueueLength></QueueLength>
      <PIR></PIR>
    </Interface>
  </Interfaces>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API

Column name	Column description	Column type	Data type and restrictions	Remarks
				Configuration Reference.
Type	Match type	Index	Enumeration : • **1**—Any. • **2**—IPv4Acl. • **3**—IPv6Acl. • **4**—queue.	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, this column only can be configured as 0. When **Type** is **2**, the value is 2000~5999. When **Type** is **3**, the value is 2000~3999. When **Type** is **4**, the value is 0~7.
BandwidthUnit	Bandwidth unit	N/A	Enumeration: • **2**—kbps (default). • **3**—percent.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	Required. When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 1 to 100.
CBS	Committed burst size	N/A	Unsigned integer.	When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 50 to 2000.
EBS	Excess burst size	N/A	Unsigned integer.	If **CBS** or **PIR** is not configured, **EBS** cannot be configured. When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 0 to 2000.
PIR	Peak information rate	N/A	Unsigned integer.	When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 1 to 100.
QueueLength	Queue length	N/A	Unsigned integer.	The value range for this column depends on the

Column name	Column description	Column type	Data type and restrictions	Remarks
				device model.

Contents

GTS 1
GTS/Interfaces 1
XML structure 1
Table description 1
Columns 2
GTS/IfCapabilities 3
XML structure 3
Table description 3
Columns 4

GTS

GTS/Interfaces

This table contains information about generic traffic shaping (GTS) policies.

XML structure

```
<GTS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Type></Type>
      <Value></Value>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <QueueLength></QueueLength>
      <PassedPkts></PassedPkts>
      <DiscardedPkts></DiscardedPkts>
      <DelayedPkts></DelayedPkts>
      <PassedBytes></PassedBytes>
      <DiscardedBytes></DiscardedBytes>
      <DelayedBytes></DelayedBytes>
      <QueueSize></QueueSize>
      <IfName></IfName>
    </Interface>
  </Interfaces>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Type	Match type	Index	Enumeration : • **1**—Any. • **2**—IPv4Acl. • **3**—IPv6Acl. • **4**—queue.	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, this column only can be configured as 0. When **Type** is **2**, the value is 2000~5999. When **Type** is **3**, the value is 2000~3999. When **Type** is **4**, the value is 0~7.
BandwidthUnit	Bandwidth Unit	N/A	Enumeration: • **2**—kbps. • **3**—percent.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	N/A
PassedPkts	Number of pass packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPkts	Number of discard packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedPkts	Number of delay packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassedBytes	Number of pass bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Number of discard bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedBytes	Number of delay bytes	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2^{64} - 1.	
QueueSize	Queue size	N/A	Unsigned integer.	N/A
`IfName`	Interface name	N/A	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A

GTS/IfCapabilities

This table contains generic traffic shaping (GTS) capabilities of interfaces.

XML structure

```
<GTS>
  <IfCapabilities>
    <Capability>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <IfTokenPara></IfTokenPara>
      <CIRMin></CIRMin>
      <CIRMax></CIRMax>
      <CIRGranularity></CIRGranularity>
      <CBSMin></CBSMin>
      <CBSMax></CBSMax>
      <CBSGranularity></CBSGranularity>
      <EBSMin></EBSMin>
      <EBSMax></EBSMax>
      <EBSGranularity></EBSGranularity>
      <PIRMin></PIRMin>
      <PIRMax></PIRMax>
      <PIRGranularity></PIRGranularity>
      <QueueMin></QueueMin>
      <QueueMax></QueueMax>
      <QueueDefault></QueueDefault>
    </Capability>
  </IfCapabilities>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	IfCapabilities
Table type	Multi-instance table

Item	Description
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
`IfName`	Interface name	N/A	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A
IfTokenPara	Token bucket capability	N/A	Each bit represents a type as follows: • **1**—CBS. • **2**—EBS. • **4**—PIR.	N/A
CIRMin	Minimum CIR value in kbps	N/A	Unsigned integer.	N/A
CIRMax	Maximum CIR value in kbps	N/A	Unsigned integer.	N/A
CIRGranularity	Granularity of CIR in kbps	N/A	Unsigned integer.	N/A
CBSMin	Minimum CBS value in bytes	N/A	Unsigned integer.	N/A
CBSMax	Maximum CBS value in bytes	N/A	Unsigned integer.	N/A
CBSGranularity	Granularity of CBS in bytes	N/A	Unsigned integer.	N/A
EBSMin	Minimum EBS value in bytes	N/A	Unsigned integer.	N/A
EBSMax	Maximum EBS value in bytes	N/A	Unsigned integer.	N/A
EBSGranularity	Granularity of EBS in bytes	N/A	Unsigned integer.	N/A
PIRMin	Minimum PIR value in kbps	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PIRMax	Maximum PIR value in kbps	N/A	Unsigned integer.	N/A
PIRGranularity	Granularity of PIR in kbps	N/A	Unsigned integer.	N/A
QueueMin	Minimum queue length value	N/A	Unsigned integer.	N/A
QueueMax	Maximum queue length value	N/A	Unsigned integer.	N/A
QueueDefault	Default queue length value	N/A	Unsigned integer.	N/A

Contents

HIKVISION 1
HIKVISION/SetEzvizParaInfo 1
XML structure 1
Table description 1
Columns 1

HIKVISION

HIKVISION/SetEzvizParaInfo

This table contains EAVIZ parameter information.

XML structure

```
<HIKVISION>
  <ActivateDevice>
    <EzvizSwitch></EzvizSwitch>
    <OpCode></OpCode>
    <EzvizServerIp></EzvizServerIp>
  </ActivateDevice>
</HIKVISION>
```

Table description

Item	Description
Feature name	HIKVISION
Table name	SetEzvizParaInfo
Table type	single -instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EzvizServerIp	EAVIZ server IP or domain name	N/A	String. Length: 1 to 64 characters.	N/A
EzvizSwitch	EAVIZ switch	N/A	Enumeration. ● 0: Disabled. ● 1: Enabled.	N/A
OpCode	Operation code	N/A	String. Length: 6 to 12 characters.	N/A

Contents

HIKVISION 1
HIKVISION/EzvizInfo 1
XML structure 1
Table description 1
Columns 1

HIKVISION

HIKVISION/EzvizInfo

This table contains EAVIZ cloud access information.

XML structure

```
<HIKVISION>
  <EzvizInfo>
    <EzvizServerIp></EzvizServerIp>
    <EzvizRegState></EzvizRegState>
    <EzvizSwitch></EzvizSwitch>
    <OpCode></OpCode>
  </EzvizInfo>
</HIKVISION>
```

Table description

Item	Description
Feature name	HIKVISION
Table name	EzvizInfo
Table type	single -instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EzvizServerIp	EAVIZ server IP or domain name	N/A	String. Length: 1 to 64 characters.	N/A
EzvizRegState	EAVIZ registration state	N/A	Enumeration. • 0: EAVIZ not registered • 1: EAVIZ registered	N/A
EzvizSwitch	EAVIZ switch	N/A	Enumeration. • 0: Disabled. • 1: Enabled.	N/A
OpCode	Operation code	N/A	String. Length: 6 to 12 characters.	N/A

Contents

HardwareQueue 1

HardwareQueue/QueueMode 1
XML structure 1
Table description 1
Columns 1
HardwareQueue/QueueParameter 2
XML structure 2
Table description 2
Columns 2
HardwareQueue/QMProfiles 3
XML structure 3
Table description 3
Columns 3
HardwareQueue/QMProfileQueue 4
XML structure 4
Table description 4
Columns 5
HardwareQueue/InterfaceQMProfile 6
XML structure 6
Table description 6
Columns 6
HardwareQueue/QMProfileGroup 7
XML structure 7
Table description 7
Columns 8
HardwareQueue/Channel 8
XML structure 8
Table description 9
Columns 9
HardwareQueue/ChannelEnhance 9
XML structure 9
Table description 9
Columns 10
HardwareQueue/MainIfChannel 10
XML structure 10
Table description 11
Columns 11

HardwareQueue

HardwareQueue/QueueMode

This table contains information about queue schedule mode on an interface.

XML structure

```
<HardwareQueue>
  <QueueMode>
    <Queue>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </Queue>
  </QueueMode>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Mode	Queue schedule mode on an interface.	N/A	Enumeration: • **1**—SP. • **2**—Weight WRR. • **3**—Bytecount WRR. • **4**—Weight WFQ. • **5**—Bytecount WFQ.	The default priority trust mode on an interface varies by device.

HardwareQueue/QueueParameter

This table contains information about schedule parameters for the queues on an interface.

XML structure

```
<HardwareQueue>
  <QueueParameter>
    <Queue>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <GroupID></GroupID>
      <Weight></Weight>
      <ByteCount></ByteCount>
      <MinBandwidthKbps></MinBandwidthKbps>
    </Queue>
  </QueueParameter>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue schedule mode on an interface is SP, do not support this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
GroupID	Group ID	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Weight	Queue weight	N/A	Unsigned integer	The value is valid only when the scheduling unit

Column name	Column description	Column type	Data type and restrictions	Remarks
				is weight.
ByteCount	Queue byte-count	N/A	Unsigned integer	The value is valid only when the scheduling unit is byte-count.
MinBandwidth Kbps	Value of minimum bandwidth	N/A	Unsigned integer	The value is valid only when the queue is a WFQ queue.

HardwareQueue/QMProfiles

This table contains information about queue scheduling profile.

XML structure

```
<HardwareQueue>
  <QMProfiles>
    <Qmprofile>
      <Name></Name>
      <Mode></Mode>
      <Type></Type>
    </Qmprofile>
  </QMProfiles>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfiles
Table type	Multi-instance table
Row name	Qmprofile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Mode	Queue scheduling	N/A	Enumeration: • 0—Advanced.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile mode		• 1—Basic.	
Type	Queue scheduling profile type	N/A	Enumeration: • 0—Eight-queue. • 1—Four-queue.	N/A

HardwareQueue/QMProfileQueue

This table contains information about schedule parameters for the queues on a QMProfile.

XML structure

```
<HardwareQueue>
  <QMProfileQueue>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <Mode></Mode>
      <GroupID></GroupID>
      <Unit></Unit>
      <Value></Value>
      <MinBandwidthKbps></MinBandwidthKbps>
      <MaxBandwidthKbps></MaxBandwidthKbps>
      <MinBandwidthPct></MinBandwidthPct>
      <MaxBandwidthPct></MaxBandwidthPct>
      <ServiceType></ServiceType>
      <WredProfile></WredProfile>
    </Queue>
  </QMProfileQueue>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue scheduling profile is not created, this table is not supported.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
Mode	Queue mode type	N/A	Enumeration: • 1—SP. • 2—WRR. • 3—WFQ.	When the operation is remove or delete want to set default value. If the item of *Mode* is change. The other column items will be default value.
GroupID	Group ID	N/A	Unsigned integer	When the Queue mode type is SP. The *GroupID* can't be set. When the operation is remove or delete want to set default value. the item of *Mode* must to be set.
Unit	Scheduling unit	N/A	Enumeration: • 1—Weight. • 2—Bytecount.	When the Queue mode type is SP. The *Scheduling Uint* can't be set. When the operation is remove or delete want to set default value. the item of *Mode* must to be set.
Value	Scheduling value	N/A	Unsigned integer	When the Queue mode type is SP. The *Scheduling Value* can't be set. When the operation is remove or delete want to set default value. the item of *Mode* must to be set.
MinBandwidthKbps	Minimum bandwidth in kbps	N/A	Unsigned integer	The value of this column depends on the device model.
MaxBandwidthKbps	Maximum bandwidth in kbps	N/A	Unsigned integer	The value of this column depends on the device model.
MinBandwidthPct	Minimum bandwidth percentage	N/A	Unsigned integer	The profile doesn't support configuring the minimum bandwith and the minimum bandwith percentage at the same time.
MaxBandwidthPct	Maximum bandwidth percentage	N/A	Unsigned integer	The profile doesn't support configuring the maximum bandwith and

Column name	Column description	Column type	Data type and restrictions	Remarks
				the maximum bandwith percentage at the same time.
ServiceType	ServiceType	N/A	Enumeration: • 0—HSI. • 1—STB. • 2—VOIP	N/A
WredProfile	Per-queue WRED profile name	N/A	String. Length: 1 to 32 characters.	N/A

HardwareQueue/InterfaceQMProfile

This table contains information about the queue scheduling profile applied to interface.

XML structure

```
<HardwareQueue>
  <InterfaceQMProfile>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ProfileName></ProfileName>
    </Application>
  </InterfaceQMProfile>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	InterfaceQMProfile
Table type	Multi-instance table
Row name	Application
Restrictions	When queue scheduling profile is not created, this table is not supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ProfileName	Queue scheduling profile name	N/A	String.Length: 1 to 31 characters.	N/A

HardwareQueue/QMProfileGroup

This table contains the maximum bandwidth of a group in a queue scheduling profile.

XML structure

```
<HardwareQueue>
  <QMProfileGroup>
    <Group>
      <Name></Name>
      <GroupID></GroupID>
      <MaxBandwidthKbps></MaxBandwidthKbps>
    </Group>
  </QMProfileGroup>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileGroup
Table type	Multi-instance table
Row name	Group
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
GroupID	Group ID	Index	Unsigned integer	The value range for this column varies by device model.
MaxBandwidthKbps	Maximum bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

HardwareQueue/Channel

This table contains the channelization bandwidth of a sub interface.

XML structure

```
<HardwareQueue>
 <Channel>
    <Bandwidth>
       <IfName></IfName>
       <BandwidthKbps></BandwidthKbps>
    </Bandwidth>
 </Channel>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	Channel
Table type	Multi-instance table
Row name	Bandwidth
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	Only sub interfaces are supported.
BandwidthKbps	Channelization bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

HardwareQueue/ChannelEnhance

This table contains the channel enhancement of a interface.

XML structure

```
<HardwareQueue>
  <ChannelEnhance>
    <Enhance>
      <IfName></IfName>
      <Enhancement></Enhancement>
    </Enhance>
  </ChannelEnhance>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	ChannelEnhance
Table type	Multi-instance table
Row name	Enhance

Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Enhancement	Enhancement	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

HardwareQueue/MainIfChannel

This table contains the channelized bandwidth of a subinterface in the default MDC.

XML structure

```
<HardwareQueue>
  <MainIfChannel>
    <Bandwidth>
      <IfName></IfName>
      <SubIfNumber></SubIfNumber>
      <BandwidthKbps></BandwidthKbps>
    </Bandwidth>
  </MainIfChannel>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	MainIfChannel
Table type	Multi-instance table
Row name	Bandwidth
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	Only main interfaces are supported in the default MDC.
SubIfNumber	Subinterface number	Index	Unsigned integer	The value range for this column varies by device model.
BandwidthKbps	Channelization bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

Contents

HardwareQueue 1

HardwareQueue/QueueMode 1
XML structure 1
Table description 1
Columns 1
HardwareQueue/QueueParameter 2
XML structure 2
Table description 2
Columns 2
HardwareQueue/QMProfiles 3
XML structure 3
Table description 3
Columns 3
HardwareQueue/QMProfileQueue 4
XML structure 4
Table description 4
Columns 5
HardwareQueue/DefaultQueueMode 5
XML structure 6
Table description 6
Columns 7
HardwareQueue/DefaultQueueParameter 7
XML structure 7
Table description 8
Columns 8
HardwareQueue/InterfaceQMProfile 8
XML structure 8
Table description 9
Columns 9
HardwareQueue/QMProfileGroup 9
XML structure 9
Table description 10
Columns 10
HardwareQueue/Channel 10
XML structure 10
Table description 11
Columns 11
HardwareQueue/ChannelEnhance 11
XML structure 11
Table description 11
Columns 12
HardwareQueue/MainIfChannel 12
XML structure 12
Table description 13
Columns 13

HardwareQueue

HardwareQueue/QueueMode

This table contains information about queue schedule mode on an interface.

XML structure

```
<HardwareQueue>
  <QueueMode>
    <Queue>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <IfName></IfName>
    </Queue>
  </QueueMode>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
Mode	Queue schedule mode on an interface	N/A	Enumeration: • **1**—SP. • **2**—Weight WRR. • **3**—Bytecount WRR. • **4**—Weight WFQ. • **5**—Bytecount WFQ.	The default priority trust mode on an interface varies by device
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

HardwareQueue/QueueParameter

This table contains information about schedule parameters for the queues on an interface.

XML structure

```
<HardwareQueue>
  <QueueParameter>
    <Queue>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <GroupID></GroupID>
      <Weight></Weight>
      <ByteCount></ByteCount>
      <MinBandwidthKbps></MinBandwidthKbps>
      <IfName></IfName>
    </Queue>
  </QueueParameter>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue schedule mode on an interface is SP, do not support this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
GroupID	Group ID.	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Weight	Queue weight	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ByteCount	Queue byte-count	N/A	Unsigned integer	N/A
MinBandwidthKbps	Value of minimum bandwidth	N/A	Unsigned integer	The value is valid only when the queue is a WFQ queue.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

HardwareQueue/QMProfiles

This table contains information about queue scheduling profile.

XML structure

```
<HardwareQueue>
  <QMProfiles>
    <Qmprofile>
      <Name></Name>
      <Mode></Mode>
      <Type></Type>
    </Qmprofile>
  </QMProfiles>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfiles
Table type	Multi-instance table
Row name	Qmprofile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Mode	Queue scheduling profile mode	N/A	Enumeration: • 0—Advanced.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Basic.	
Type	Queue scheduling profile Type	N/A	Enumeration: • 0—Eight-queue. • 1—Four-queue.	N/A

HardwareQueue/QMProfileQueue

This table contains information about schedule parameters for the queues on a QMProfile.

XML structure

```
<HardwareQueue>
  <QMProfileQueue>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <Mode></Mode>
      <GroupID></GroupID>
      <Unit></Unit>
      <Value></Value>
      <MinBandwidthKbps></MinBandwidthKbps>
      <MaxBandwidthKbps></MaxBandwidthKbps>
      <MinBandwidthPct></MinBandwidthPct>
      <MaxBandwidthPct></MaxBandwidthPct>
      <ServiceType></ServiceType>
      <WredProfile></WredProfile>
    </Queue>
  </QMProfileQueue>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue scheduling profile not creat, do not support this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
Mode	Queue mode type	N/A	Enumeration: • 1—SP. • 2—WRR. • 3—WFQ.	N/A
GroupID	Group ID	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Unit	Scheduling unit	N/A	Enumeration: • 1—Weight. • 2—Bytecount.	N/A
Value	Scheduling value	N/A	Unsigned integer	N/A
MinBandwidthKbps	Minimum bandwidth	N/A	Unsigned integer	N/A
MaxBandwidthKbps	Maximum bandwidth	N/A	Unsigned integer	N/A
MinBandwidthPct	Minimum bandwidth percentage	N/A	Unsigned integer	The profile doesn't support configuring the minimum bandwith and the minimum bandwith percentage at the same time.
MaxBandwidthPct	Maximum bandwidth percentage	N/A	Unsigned integer	The profile doesn't support configuring the maximum bandwith and the maximum bandwith percentage at the same time.
ServiceType	Service tpe	N/A	Enumeration: • 0—HSI. • 1—STB. • 2—VOIP	N/A
WredProfile	Per-queue WRED profile name	N/A	String. Length: 1 to 32 characters.	N/A

HardwareQueue/DefaultQueueMode

This table contains information about default capability and schedule queue mode for an interface.

XML structure

```
<HardwareQueue>
  <DefaultQueueMode>
    <Queue>
      <IfType></IfType>
      <ScheduleMode></ScheduleMode>
      <ScheduleUnit></ScheduleUnit>
      <QueueNum></QueueNum>
      <BasicMode></BasicMode>
      <MaxBandWidth1></MaxBandWidth1>
      <MaxBandWidth2></MaxBandWidth2>
      <MaxBandWidth3></MaxBandWidth3>
      <MaxBandWidth4></MaxBandWidth4>
    </Queue>
  </DefaultQueueMode>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	DefaultQueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfType	Interface type	index	Unsigned integer Value range: 0 to 255.	N/A
ScheduleMode	Schedule Mode	N/A	Unsigned integer	N/A
ScheduleUnit	Schedule Unit	N/A	Unsigned integer	N/A
QueueNum	Queue Number	N/A	Unsigned integer	Value is 0 when queue is sp.
BasicMode	Basic Mode	N/A	Unsigned interger	N/A
MaxBandWidth1	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth2	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth3	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth4	Gourp Max BandWidth	N/A	Unsigned interger	N/A

HardwareQueue/DefaultQueueParameter

This table contains information about default queue parameter for an interface.

XML structure

```
<HardwareQueue>
  <DefaultQueueParameter>
    <Queue>
      <IfType></IfType>
      <QueueID></QueueID>
      <SetMask></SetMask>
      <MinBandWidth></MinBandWidth>
      <QueueLength></QueueLength>
      <Group></Group>
      <ScheduleValue></ScheduleValue>
      <MaxBandWidth></MaxBandWidth>
      <ServiceType></ServiceType>
      <MinBandWidthPct></MinBandWidthPct>
    </Queue>
  </DefaultQueueParameter>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	DefaultQueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfType	Interface type	Index	Unsigned integer Value range: 0 to 255.	N/A
QueueID	Queue ID	Index	Unsigned integer	N/A
SetMask	Set Mask	N/A	Unsigned integer	N/A
MinBandWidth	Min BandWidth	N/A	Unsigned integer	N/A
QueueLength	Queue length	N/A	Unsigned integer	N/A
Group	Group	N/A	Unsigned integer	N/A
ScheduleValue	Schedule Value	N/A	Unsigned integer	N/A
MaxBandWidth	Max BandWidth	N/A	Unsigned integer	N/A
ServiceType	Service Type	N/A	Unsigned integer	N/A
MinBandWidthPct	Min BandWidth percentage	N/A	Unsigned integer	N/A

HardwareQueue/InterfaceQMProfile

This table contains information about the queue scheduling profile applied to interface.

XML structure

```
<HardwareQueue>
  <InterfaceQMProfile>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
```

```
      <ProfileName></ProfileName>
      <IfName></IfName>
    </Application>
  </InterfaceQMProfile>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	InterfaceQMProfile
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ProfileName	Queue scheduling profile name	N/A	String.Length: 1 to 31 characters.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

HardwareQueue/QMProfileGroup

This table contains the maximum bandwidth of a group in a queue scheduling profile.

XML structure

```
<HardwareQueue>
  <QMProfileGroup>
    <Group>
```

```
      <Name></Name>
      <GroupID></GroupID>
      <MaxBandWidthKbps></MaxBandWidthKbps>
    </Group>
  </QMProfileGroup>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileGroup
Table type	Multi-instance table
Row name	Group
Restrictions	No.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
GroupID	Group ID	Index	Unsigned integer	The value range for this column varies by device model.
MaxBandwidthKbps	Maximum bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

HardwareQueue/Channel

This table contains the channelization bandwidth of a sub interface.

XML structure

```
<HardwareQueue>
 <Channel>
    <Bandwidth>
       <IfName></IfName>
       <BandwidthKbps></BandwidthKbps>
    </Bandwidth>
 </Channel>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	Channel
Table type	Multi-instance table
Row name	Bandwidth
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	Only sub interfaces are supported.
BandwidthKbps	Channelization bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

HardwareQueue/ChannelEnhance

This table contains the channel enhancement of a interface.

XML structure

```
<HardwareQueue>
  <ChannelEnhance>
    <Enhance>
      <IfName></IfName>
      <Enhancement></Enhancement>
    </Enhance>
  </ChannelEnhance>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	ChannelEnhance
Table type	Multi-instance table
Row name	Enhance

Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Enhancement	Enhancement	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

HardwareQueue/MainIfChannel

This table contains the channelized bandwidth of a subinterface in the default MDC.

XML structure

```
<HardwareQueue>
  <MainIfChannel>
    <Bandwidth>
      <IfName></IfName>
      <SubIfNumber></SubIfNumber>
      <BandwidthKbps></BandwidthKbps>
    </Bandwidth>
  </MainIfChannel>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	MainIfChannel
Table type	Multi-instance table
Row name	Bandwidth
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	Only main interfaces are supported in the default MDC.
SubIfNumber	Subinterface number	Index	Unsigned integer	The value range for this column varies by device model.
BandwidthKbps	Channelization bandwidth in kbps	N/A	Unsigned integer	The value range for this column varies by device model.

Contents

HQ 1
HQ 1

HQ

HQ

Message	Explanation
Please enable WFQ queuing first. 请先使能WFQ队列调度模式。	Configure or modify WFQ should enable WFQ queuing first. 配置WFQ队列或修改WFQ队列参数需要在端口队列为WFQ调度模式下使用.
This queue scheduler mode is not enabled. 队列调度模式未使能。	When delete queue scheduler mode, the interface should already configure the scheduler mode. 删除队列调度模式时需要与当前接口的队列调度模式匹配。
Queue is not supported. 不支持该队列。	Queue is not supported. 不支持该队列。
The scheduling units must be the same. 队列调度权重的单位必须相同。	The scheduling units must be the same. 队列调度权重的单位必须相同。
Failed to apply the queue management profile. The minimum bandwidth can't exceed the interface bandwidth. 应用队列调度策略失败。最小保证带宽值不能超过接口带宽值。	Failed to apply the queue management profile. The minimum bandwidth can't exceed the interface bandwidth. 应用队列调度策略失败。最小保证带宽值不能超过接口带宽值。
The number of queue management profiles has reached the upper limit. 队列调度策略数量已达上限。	When create, the number of queue management profiles has reached the upper limit. 创建队列调度策略时队列调度策略数量已达上限。
The queue management profile doesn't exist. 队列调度策略不存在。	When apply, the queue management profile doesn't exist. 应用队列调度策略时策略不存在。
Another queue management profile has been applied. 已应用另一个队列调度策略。	Another queue management profile has been applied. 应用队列调度策略时该对象已应用其他策略。
The profile doesn't support WFQ and WRR queue types at the same time. 不支持WRR+WFQ的队列组合。	The profile doesn't support WFQ and WRR queue types at the same time. 队列调度策略存在非SP队列时需要检测WRR模式和WFQ模式冲突。
A queue schedule value in this queue management profile is out of range on the interface. 队列调度权重的值超出合法范围。	A queue schedule value in this queue management profile is out of range on the interface. 队列调度权重的值超出合法范围。
Maximum bandwidth can't be smaller than the minimum bandwidth. 最大限制带宽的值不能小于最小保证带宽的值。	Maximum bandwidth can't be smaller than the minimum bandwidth. 最大限制带宽的值不能小于最小保证带宽的值。
The profile name has been used by another queue management profile. 队列调度策略名称已存在。	When create, the profile name has been used by another queue management profile. 创建队列调度策略时名称已被占用。
Type of queue management profile is incorrect. 队列调度策略的类型无效。	Type of queue management profile is incorrect. 队列调度策略的类型无效。

The operation conflicts with some existing configurations. 该操作与已经存在的配置发生冲突。	The operation conflicts with some existing configurations such as GTS. 配置队列调度策略和GTS冲突。
Can't delete the queue scheduling profile, because it has been applied. 该调度策略不能被删除，因为已经被应用。	Can't delete the queue scheduling profile, because it has been applied. 不能删除已经被应用的调度策略。
The profile doesn't support configuring the minimum/maximum bandwith and the minimum/maximum bandwith percentage at the same time. 不支持同时配置队列带宽和队列带宽百分比。	The profile doesn't support configuring the minimum/maximum bandwith and the minimum/maximum bandwith percentage at the same time. 队列调度策略不支持同时配置队列最小带宽和最小带宽百分比，不支持同时配置队列最大带宽和最大带宽百分比。
The command must be executed in the default MDC. 该命令必须在缺省MDC下执行。	For a create,meger or replace operation, the command must be executed in the default MDC. 执行create或者meger或者replace操作时，该命令必须在缺省MDC下执行。
The command can be executed only if the main interface is in the same context as the subinterface. 该命令只能在主接口和子接口在同一个环境下执行。	For a create, meger, or replace operation, the command can be executed only if the main interface is in the same context as the subinterface. 执行create或者meger或者replace操作时，该命令只能在主接口和子接口在同一个环境下执行。

Contents

HTTP 1
HTTP/Configuration 1
XML structure 1
Table description 1
Columns 1
HTTP/Configuration/Http 2
XML structure 2
Table description 2
Columns 2
HTTP/Configuration/Https 3
XML structure 3
Table description 3
Columns 3
HTTP/SlowAttackDefense 4
XML structure 4
Table description 4
Columns 4

HTTP

HTTP/Configuration

This table contains HTTP Configuration information.

XML structure

```
<HTTP>
  <Configuration>
    <Preflight></Preflight>
    <IdleTimeout></IdleTimeout>
    <Method></Method>
    <Http>
      <AclNumber></AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </Http>
    <Https>
      <AclNumber></AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </Https>
  </Configuration>
</HTTP>
```

Table description

Item	Description
Feature name	HTTP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preflight	HTTP Preflight enable	N/A	Enumeration: • **enable**—The http service preflight is enable. • **disable**—The http service preflight is disable..	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IdleTimeout	HTTP idle-timeout minutes	N/A	Unsigned integer: Value range: 1 to 60. Default：30.	The default value is 30 minutes.
Method	HTTP method	N/A	Enumeration: • **delete**. • **get**. • **head**. • **options**. • **post**. • **put**.	This column is repeatable
Http	Http acl information	Sublist	N/A	For more information, see the Http table.
Https	Https acl information	Sublist	N/A	For more information, see the Https table.

HTTP/Configuration/Http

This table contains HTTP Configuration information.

XML structure

Please refer to the XML structure of HTTP/Configuration.

Table description

Item	Description
Feature name	HTTP
Table name	Http
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	Http AclNumber	N/A	Unsigned integer. Value range: 2000 to 3999.	If AclNumber: 2000 to 2999. • The Ipv4 Acl type is Basic.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If AclNumber: 3000 to 3999. • The Ipv4 Acl type is Advanced.
Ipv6AclNumber	Http Ipv6AclNumber	N/A	Unsigned integer: Value range: 2000 to 3999.	If Ipv6AclNumber: 2000 to 2999. • The Ipv6 Acl type is Basic. If Ipv6AclNumber: 3000 to 3999. • The Ipv6 Acl type is Advanced.

HTTP/Configuration/Https

This table contains HTTP Configuration information.

XML structure

Please refer to the XML structure of HTTP/Configuration.

Table description

Item	Description
Feature name	HTTP
Table name	Https
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	Https AclNumber	N/A	Unsigned integer: Value range: 2000 to 3999.	If AclNumber: 2000 to 2999. • The Ipv4 Acl type is Basic. If AclNumber: 3000 to 3999. • The Ipv4 Acl type is Advanced.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6AclNumber	Https Ipv6AclNumber	N/A	Unsigned integer: • Value range: 2000 to 3999.	If Ipv6AclNumber: 2000 to 2999. • The Ipv6 Acl type is Basic. If Ipv6AclNumber: 3000 to 3999. The Ipv6 Acl type is Advanced.

HTTP/SlowAttackDefense

This table contains information about Slow Attack Defense.

XML structure

```
<HTTP>
  <SlowAttackDefense>
    <State></State>
    <PacketHeaderTimeout></PacketHeaderTimeout>
    <PacketBodyTimeout></PacketBodyTimeout>
    <ClientReadTimeout></ClientReadTimeout>
  </SlowAttackDefense>
</HTTP>
```

Table description

Item	Description
Feature name	HTTP
Table name	SlowAttackDefense
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	http slow-attack defense enable.	N/A	Enumeration: • **enable**—The http slow attack defense service is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			enable. • **disable**—The http slow attack defense service is disable.	
PacketHeaderTimeout	Client header timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	Default：packet-header-timeout 10 seconds.
PacketBodyTimeout	Client body timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	Default：packet-body-timeout 20 seconds.
ClientReadTimeout	Client read timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	Default：Client-read-timeout 30 seconds.

Contents

HTTP 1
HTTP/Configuration 1
XML structure 1
Table description 1
Columns 1
HTTP/Configuration/Http 2
XML structure 2
Table description 2
Columns 2
HTTP/Configuration/Https 3
XML structure 3
Table description 3
Columns 3
HTTP/SlowAttackDefense 4
XML structure 4
Table description 4
Columns 4

HTTP

HTTP/Configuration

This table contains HTTP Configuration information.

XML structure

```
<HTTP>
  <Configuration>
    <Preflight></Preflight>
    <IdleTimeout></IdleTimeout>
    <Method></Method>
    <Http>
      <AclNumber></AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </Http>
    <Https>
      <AclNumber></AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </Https>
  </Configuration>
</HTTP>
```

Table description

Item	Description
Feature name	HTTP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preflight	HTTP Preflight enable	N/A	Enumeration: • **enable**—The http service preflight is enable. • **disable**—The http service preflight is disable..	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IdleTimeout	HTTP idle-timeout minutes	N/A	Unsigned integer: Value range: 1 to 60.	N/A
Method	HTTP method	N/A	Enumeration: • **delete**. • **get**. • **head**. • **options**. • **post**. • **put**.	This column is repeatable
Http	Http acl information	Sublist	N/A	For more information, see the Http table.
Https	Https acl information	Sublist	N/A	For more information, see the Https table.

HTTP/Configuration/Http

This table contains HTTP Configuration information.

XML structure

Please refer to the XML structure of HTTP/Configuration.

Table description

Item	Description
Feature name	HTTP
Table name	Http
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	Http AclNumber	N/A	Unsigned integer. Value range: 2000 to 3999.	If AclNumber: 2000 to 2999. • The Ipv4 Acl type is Basic. If AclNumber: 3000 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				3999. • The Ipv4 Acl type is Advanced.
Ipv6AclNumber	Http Ipv6AclNumber	N/A	Unsigned integer: Value range: 2000 to 3999.	If Ipv6AclNumber: 2000 to 2999. • The Ipv6 Acl type is Basic. If Ipv6AclNumber: 3000 to 3999. • The Ipv6 Acl type is Advanced.

HTTP/Configuration/Https

This table contains HTTP Configuration information.

XML structure

Please refer to the XML structure of HTTP/Configuration.

Table description

Item	Description
Feature name	HTTP
Table name	Https
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	Https AclNumber	N/A	Unsigned integer: Value range: 2000 to 3999.	If AclNumber: 2000 to 2999. • The Ipv4 Acl type is Basic. If AclNumber: 3000 to 3999. • The Ipv4 Acl type is Advanced.
Ipv6AclNumb	Https	N/A	Unsigned integer:	If Ipv6AclNumber: 2000

Column name	Column description	Column type	Data type and restrictions	Remarks
er	Ipv6AclNumber		Value range: 2000 to 3999.	to 2999. • The Ipv6 Acl type is Basic. If Ipv6AclNumber: 3000 to 3999. • The Ipv6 Acl type is Advanced.

HTTP/SlowAttackDefense

This table contains information about Slow Attack Defense.

XML structure

```
<HTTP>
  <SlowAttackDefense>
    <State></State>
    <PacketHeaderTimeout></PacketHeaderTimeout>
    <PacketBodyTimeout></PacketBodyTimeout>
    <ClientReadTimeout></ClientReadTimeout>
  </SlowAttackDefense>
</HTTP>
```

Table description

Item	Description
Feature name	HTTP
Table name	SlowAttackDefense
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	http slow-attack defense enable.	N/A	Enumeration: • **enable**—The http slow attack defense service is enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **disable**—The http slow attack defense service is disable.	
PacketHeaderTimeout	Client header timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
PacketBodyTimeout	Client body timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ClientReadTimeout	Client read timeout.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Contents

HTTPRedirect 1
HTTPRedirect/GlobalConfig 1
XML structure 1
Table description 1
Columns 1

HTTPRedirect

HTTPRedirect/GlobalConfig

This table contains global settings for HTTP redirect.

XML structure

```
<HTTPRedirect>
  <GlobalConfig>
    <HTTPSPort></HTTPSPort>
    <SSLServerPolicyName></SSLServerPolicyName>
  </GlobalConfig>
</HTTPRedirect>
```

Table description

Item	Description
Feature name	HTTPRedirect
Table name	GlobalConfig
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTPSPort	Internal listening port number for redirecting HTTPS packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SSLServerPolicyName	Name of the SSL server policy associated with the HTTPS redirect service	N/A	String. Length: 1 to 31 characters.	N/A

Contents

HTTPRedirect 1
HTTPRedirect/ GlobalConfig 1
XML structure 1
Table description 1
Columns 1

HTTPRedirect

HTTPRedirect/ GlobalConfig

This table contains global settings for HTTP redirect.

XML structure

```
<HTTPRedirect>
  <GlobalConfig>
    <HTTPSPort></HTTPSPort>
    <SSLServerPolicyName></SSLServerPolicyName>
  </GlobalConfig>
</HTTPRedirect>
```

Table description

Item	Description
Feature name	HTTPRedirect
Table name	GlobalConfig
Table type	Single -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTPSPort	Internal listening port number for redirecting HTTPS packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SSLServerPolicyName	Name of the SSL server policy associated with the HTTPS redirect service	N/A	String. Length: 1 to 31 characters.	N/A

Contents

HTTPRedirect 1
HTTPRedirect/GlobalConfig 1

HTTPRedirect

HTTPRedirect/GlobalConfig

Message	Explanation
The port is already in use. Please specify another port. 端口已在使用中。请指定其他端口。	The specified listening port is being used by antoher service. You need to specify another port.

Contents

IB 1
IB/IbBackup/Table 1
XML structure 1
Table description 1
Columns 2
IB/IbTrack/Table 2
XML structure 2
Table description 2
Columns 3
IB/IbBackupInfo/Table 3
XML structure 3
Table description 3
Columns 4

IB

IB/IbBackup/Table

This table contains interface backup configuration information.

XML structure

```
<IB>
  <IbBackup>
    <Backup>
      <IfIndex></IfIndex>
      <BackupIfIndex></BackupIfIndex>
      <Priority></Priority>
    </Backup>
  </IbBackup>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackup
Table type	Multi-instance table
Row name	Backup
Restrictions	An interface can only be the backup of one interface. A primary interface cannot be configured as a backup interface at the same time. A main interface and its subinterfaces cannot be the backup of each other. The primary and backup interfaces cannot be members of a logical link. For example, they cannot be members of a Layer 3 aggregation group.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupIfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Priority	I Priority of interface.	N/A	Unsigned integer Value range: 0 to 255. Default: 0.	N/A

IB/IbTrack/Table

This table contains backup track configuration information.

XML structure

```
<IB>
  <IbTrack>
    <Track>
      <IfIndex></IfIndex>
      <TrackNum></TrackNum>
    </Track>
  </IbTrack>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbTrack
Table type	Multi-instance table
Row name	Track

Restrictions	If you have configured the backup interface command on the primary interface, you cannot configure the backup track command on the primary or backup interface. If you have associated a backup interface with a track entry, you cannot configure the backup interface command on it or specify it as a backup interface by using the backup interface command.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrackNum	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

IB/IbBackupInfo/Table

This table contains primary interface configuration.about backup.

XML structure

```
<IB>
  <IbBackupInfo>
    <BackupInfo>
      <IfIndex></IfIndex>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
      <UpDelay></UpDelay>
      <DownDelay></DownDelay>
      <FlowCheck></FlowCheck>
    </BackupInfo>
  </IbBackupInfo>
</IB>
```

Table description

Item	Description
Feature name	IB

Table name	IbBackupInfo
Table type	Multi-instance table
Row name	BackupInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UpperThreshold	Upper-threshold	N/A	Unsigned integer Value range: 1 to 99.	N/A
LowerThreshold	Lower-threshold	N/A	Unsigned integer Value range: 1 to 99.	N/A
UpDelay	Up-delay	N/A	Unsigned integer Value range: 1 to 65535. Default: 5	Unit: seconds
DownDelay	Down-delay	N/A	Unsigned integer Value range: 1 to 65535. Default: 5	Unit: seconds
FlowCheck	Flow-check time	N/A	Unsigned integer Value range: 30 to 600. Default: 30	Unit: seconds

Contents

IB 1
IB/IbBackup/Table 1
- XML structure 1
- Table description 1
- Columns 2

IB/IbTrack/Table 2
- XML structure 2
- Table description 3
- Columns 3

IB/IbBackupInfo/Table 3
- XML structure 3
- Table description 4
- Columns 4

IB/IbBackupStatistics/Table 4
- XML structure 5
- Table description 5
- Columns 5

IB

IB/IbBackup/Table

This table contains interface backup configuration information.

XML structure

```
<IB>
  <IbBackup>
    <Backup>
      <IfIndex></IfIndex>
      <BackupIfIndex></BackupIfIndex>
      <Priority></Priority>
      <State></State>
    </Backup>
  </IbBackup>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackup
Table type	Multi-instance table
Row name	Backup
Restrictions	An interface can only be the backup of one interface. A primary interface cannot be configured as a backup interface at the same time. A main interface and its subinterfaces cannot be the backup of each other. The primary and backup interfaces cannot be members of a logical link. For example, they cannot be members of a Layer 3 aggregation group.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupIfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Priority	I Priority of interface.	N/A	Unsigned integer Value range: 0 to 255.	N/A
State	State of the backup interface	N/A	Enumeration: • 0—INVALID. • 1—UP. • 2—DOWN. • 3—UP_DELAY. • 4—DOWN_DELAY. • 5—STANDBY.	N/A

IB/IbTrack/Table

This table contains backup track configuration information.

XML structure

```
<IB>
  <IbTrack>
    <Track>
      <IfIndex></IfIndex>
      <TrackNum></TrackNum>
    </Track>
  </IbTrack>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbTrack
Table type	Multi-instance table
Row name	Track
Restrictions	If you have configured the backup interface command on the primary interface, you cannot configure the backup track command on the primary or backup interface. If you have associated a backup interface with a track entry, you cannot configure the backup interface command on it or specify it as a backup interface by using the backup interface command.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrackNum	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

IB/IbBackupInfo/Table

This table contains primary interface configuration about backup.

XML structure

```
<IB>
  <IbBackupInfo>
    <BackupInfo>
      <IfIndex></IfIndex>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
      <UpDelay></UpDelay>
      <DownDelay></DownDelay>
      <FlowCheck></FlowCheck>
      <State></State>
```

```
    </BackupInfo>
  </IbBackupInfo>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackupInfo
Table type	Multi-instance table
Row name	BackupInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UpperThreshold	Upper-threshold	N/A	Unsigned integer Value range: 1 to 99.	N/A
LowerThreshold	Lower-threshold	N/A	Unsigned integer Value range: 1 to 99.	N/A
UpDelay	Up-delay	N/A	Unsigned integer Value range: 1 to 65535.	Unit: seconds
DownDelay	Down-delay	N/A	Unsigned integer Value range: 1 to 65535.	Unit: seconds
FlowCheck	Flow-check time	N/A	Unsigned integer Value range: 30 to 600.	Unit: seconds
State	State of the primary interface	N/A	Enumeration: • 0—INVALID. • 1—UP. • 2—DOWN. • 3—UP_DELAY. • 4—DOWN_DELAY.	N/A

IB/IbBackupStatistics/Table

This table contains statistics information.about backup interface.

XML structure

```
<IB>
  <IbBackupStatistics>
    <BackupStatistics>
      <IfIndex></IfIndex>
      <StatisticsInterval></StatisticsInterval>
      <Bandwidth></Bandwidth>
      <PrimaryTotalIn></PrimaryTotalIn>
      <PrimaryTotalOut></PrimaryTotalOut>
      <PrimaryIntervalIn></PrimaryIntervalIn>
      <PrimaryIntervalOut></PrimaryIntervalOut>
      <PrimaryUsedBandwidth></PrimaryUsedBandwidth>
      <TotalIn></TotalIn>
      <TotalOut></TotalOut>
      <TotalIntervalIn></TotalIntervalIn>
      <TotalIntervalOut></TotalIntervalOut>
      <TotalUsedBandwidth></TotalUsedBandwidth>
    </BackupStatistics>
  </IbBackupStatistics>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackupStatistics
Table type	Multi-instance table
Row name	BackupStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
StatisticsInterval	Traffic polling interval	N/A	Unsigned integer.	Unit: seconds

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Expected bandwidth of the primary interface.	N/A	Unsigned integer.	Unit: bps
PrimaryTotalIn	Cumulative sum of incoming bytes on the primary interface at the most recent traffic polling.	N/A	Unsigned integer.	Unit: seconds
PrimaryTotalOut	Cumulative sum of outgoing bytes on the primary interface at the most recent traffic polling.	N/A	Unsigned integer.	Unit: seconds
PrimaryIntervalIn	Number of incoming bytes on the primary interface for the most recent polling interval.	N/A	Unsigned integer.	Unit: seconds
PrimaryIntervalOut	Number of outgoing bytes on the primary interface for the most recent polling interval.	N/A	Unsigned integer.	Unit: seconds
PrimaryUsedBandwidth	The primary interface's used bandwidth that was counted in load sharing computation.	N/A	Unsigned integer.	Unit: bps
TotalIn	Cumulative sum of incoming bytes on the load-shared primary and backup interfaces at the most recent traffic polling.	N/A	Unsigned integer.	Unit: seconds
TotalOut	Cumulative sum of outgoing bytes on the load-shared primary and backup interfaces at the most recent traffic polling.	N/A	Unsigned integer.	Unit: seconds
TotalIntervalIn	Number of incoming bytes on the load-shared primary and backup interfaces for the most recent polling interval.	N/A	Unsigned integer.	Unit: seconds

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalIntervalOut	Number of outgoing bytes on the load-shared primary and backup interfaces for the most recent polling interval.	N/A	Unsigned integer.	Unit: seconds
TotalUsedBandwidth	Total used bandwidth (in bps) of the load-shared primary and backup interfaces for the most recent polling interval.	N/A	Unsigned integer.	Unit: bps

Contents

Comware 7 IB NETCONF XML API Error Message Reference ····· 1
IB/IbBackupInfo ····· 1

Comware 7 IB NETCONF XML API Error Message Reference

IB/IbBackupInfo

Message	Explanation
This configuration is supported only on the primary interface. 仅主接口上支持本配置。	The interface is a backup interface. 当前接口是备份接口。
Please configure a backup interface first. 请先为当前接口配置备份接口。	The interface is not a primary interface. 当前接口不是主接口。

Contents

IED 1
Ied/Csd 1
XML structure 1
Table description 1
Columns 1
Ied/Csd/Import 1
XML structure 1
Table description 2
Columns 2
Ied/Csd/Export 2
XML structure 2
Table description 2
Columns 2
Appendix 3

IED

Ied/Csd

This table contains CSD configuration information.

XML structure

```
<Ied>
  <Csd>
    <Import>
      <URL></URL>
    </Import>
    <Export>
      <URL></URL>
    </Export>
  </Csd>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Csd
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Import	Imports CSD file	Subtable	For more information, see the Import table	N/A
Export	Exports CSD file	Subtable	For more information, see the Export table	N/A

Ied/Csd/Import

Use this table to import the CSD file.

XML structure

Please refer to the XML Structure of IED/Csd

Table description

Item	Description
Feature name	Ied
Table name	Csd
Table type	Single-instance table
Row name	Import
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Full URL path. Example: ftp://@192.168.41.45/dagang-220kV-A1-SW.csd	N/A	String, Length: 1 to 512 characters.	Ied/IedConfiguration/State and Ied/Csd/State must be true.

Ied/Csd/Export

Use this table to export the CSD file.

XML structure

Please refer to the XML Structure of IED/Csd

Table description

Item	Description
Feature name	Ied
Table name	Csd
Table type	Single-instance table
Row name	Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Full URL path. Example: ftp://@192.168.41.45/	N/A	String. Length: 1 to 512 characters.	Ied/IedConfiguration/State and Ied/Csd/State must be true.

Appendix

Abbreviations 缩略语	Full spelling 英文全名	Chinese explanation 中文解释
IEC	International Electrical Commission	国际电工委员会
IED	Intelligent Electronic Device	智能电子设备
Server	Server	服务器
LD	Logical Device	逻辑设备
LN	Logical Node	逻辑节点
DO	Data	数据
DA	Data Attribute	数据属性
CDC	Common Data Class	公共数据类
ACSI	Abstract Communication Service Interface	抽象通信服务接口
MMS	Manufacturing Message Specification	报文制造规范
CMS	Communication Message Specification	国产化报文规范
PDU	Protocol Indication Bit	协议数据单元
GOOSE	Generic Object Oriented Substation Events	通用面向对象的变电站事件
SV	Sample Value	采样值
ASN.1	Abstract syntax notation one	抽象标记语法
BER	Basic encoding rules	基本编码规则
SCL	Substation Configuration Language	
ICD	IED Capability Description	IED能力描述文件
SSD	System Specification Description	系统规范文件
SCD	Substation Configuration Description	全站系统配置文件
CID	Configured IED Description	IED实例配置文件
CSD	Configured Switch Description	交换机配置描述

Contents

IED 1
Ied/ForwardState 1
XML structure 1
Table description 1
Columns 1
Ied/Goose 1
XML structure 1
Table description 2
Columns 2
Ied/Mms 2
XML structure 2
Table description 2
Columns 3
Ied/Csd 3
XML structure 3
Table description 3
Columns 4
Ied/Sv 4
XML structure 4
Table description 4
Columns 4
Ied/Interfaces 4
XML structure 5
Table description 5
Columns 5
Appendix 5

IED

Ied/ForwardState

This table contains forwarding mode information.

XML structure

```
<Ied>
  <ForwardState>
    <State></State>
  </ForwardState>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	ForwardState
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Forwarding mode enabling status.	N/A	Boolean: • **true**—Enabled. • **false** (defaut)**—**Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.

Ied/Goose

This table contains information about GOOSE communication.

XML structure

```
<Ied>
  <Goose>
    <State></State>
    <Bypass></Bypass>
```

```
  </Goose>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Goose
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	GOOSE enabling status	N/A	Boolean: • **true**—Enabled. • **false** (defaut)—Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**
Bypass	GOOSE bypass status	N/A	Boolean: • **true**. • **False** (default).	N/A

Ied/Mms

This table contains MMS configuration information

XML structure

```
<Ied>
  <Mms>
    <State></State>
    <Port></Port>
  </Mms>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Mms
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	MMS enabling status	N/A	Boolean: • **true**—Enabled. • **false** (defaut)**—**Disabled.	This column takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.
Port	MMS Port number	N/A	Unsigned integer. Value range: 1 to 65535, The default value is 102.	This column takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.

Ied/Csd

This table contains CSD configuration information.

XML structure

```
<Ied>
  <Csd>
    <State></State>
  </Csd>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Csd
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	CSD enabling status	N/A	Boolean: • **true**(default)—Enabled. • **false—**Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.

Ied/Sv

This table contains information about SV communication.

XML structure

```
<Ied>
  <Sv>
    <Bypass></Bypass>
  </Sv>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Sv
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bypass	SampleValue bypass status	N/A	Boolean: • **true**—Enabled. • **False** (default)—Disabled.	N/A

Ied/Interfaces

This table contains information about interface communication.

XML structure

```
<Ied>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <InputDelay></InputDelay>
      <OutputDelay></OutputDelay>
    </Interface>
  </Interfaces>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
InputDelay	Port input packet delay.	N/A	Unsigned integer. Value range: 0 to 256,	N/A
OutputDelay	Port output packet delay.	N/A	Unsigned integer. Value range: 0 to 256,	N/A

Appendix

Abbreviations 缩略语	Full spelling 英文全名	Chinese explanation 中文解释
IEC	International Electrical Commission	国际电工委员会
IED	Intelligent Electronic Device	智能电子设备
Server	Server	服务器
LD	Logical Device	逻辑设备
LN	Logical Node	逻辑节点
DO	Data	数据

Abbreviations 缩略语	Full spelling 英文全名	Chinese explanation 中文解释
DA	Data Attribute	数据属性
CDC	Common Data Class	公共数据类
ACSI	Abstract Communication Service Interface	抽象通信服务接口
MMS	Manufacturing Message Specification	报文制造规范
CMS	Communication Message Specification	国产化报文规范
PDU	Protocol Indication Bit	协议数据单元
GOOSE	Generic Object Oriented Substation Events	通用面向对象的变电站事件
SV	Sample Value	采样值
ASN.1	Abstract syntax notation one	抽象标记语法
BER	Basic encoding rules	基本编码规则
SCL	Substation Configuration Language	
ICD	IED Capability Description	IED能力描述文件
SSD	System Specification Description	系统规范文件
SCD	Substation Configuration Description	全站系统配置文件
CID	Configured IED Description	IED实例配置文件
CSD	Configured Switch Description	交换机配置描述

Contents

IED 1
Ied/IedConfiguration 1
XML structure 1
Table description 1
Columns 1
Ied/ForwardState 1
XML structure 1
Table description 2
Columns 2
Ied/Goose 2
XML structure 2
Table description 2
Columns 3
Ied/Mms 3
XML structure 3
Table description 3
Columns 3
Ied/Csd 4
XML structure 4
Table description 4
Columns 4
Ied/Sv 4
XML structure 4
Table description 5
Columns 5
Ied/Interfaces 5
XML structure 5
Table description 5
Columns 6
Appendix 6

IED

Ied/IedConfiguration

This table contains IED information.

XML structure

```
<Ied>
  <IedConfiguration>
    <State></State>
    <IedName></IedName>
  </IedConfiguration>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	IedConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	IED enabling status.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
IedName	IED name	N/A	String: Length: 1 to 64 characters.	This column takes effect only when the **State** column value is **true**.

Ied/ForwardState

This table contains forwarding mode information.

XML structure

```
<Ied>
  <ForwardState>
```

```
    <State></State>
  </ForwardState>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	ForwardState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Forwarding mode enabling status	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.

Ied/Goose

This table contains information about GOOSE communication.

XML structure

```
<Ied>
  <Goose>
    <State></State>
    <Bypass></Bypass>
  </Goose>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Goose
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	GOOSE enabling status	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.
Bypass	GOOSE bypass status	N/A	Boolean: • **true** • **False**	N/A

Ied/Mms

This table contains MMS configuration information.

XML structure

```
<Ied>
  <Mms>
    <State></State>
    <Port></Port>
  </Mms>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Mms
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	MMS enabling status	N/A	Boolean: • **true**—Enabled. • **false—**Disabled. •	This column takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.
Port	MMS port number	N/A	Unsigned integer.	This column takes effect only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 65535, The default value is 102.	**State** column value in the Ied/IedConfiguration table is **true**.

Ied/Csd

This table contains CSD configuration information.

XML structure

```
<Ied>
  <Csd>
    <State></State>
  </Csd>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Csd
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	CSD enabling status	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	This table takes effect only when the **State** column value in the Ied/IedConfiguration table is **true**.

Ied/Sv

This table contains information about SV communication.

XML structure

```
<Ied>
```

```
  <Sv>
    <Bypass></Bypass>
  </Sv>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Sv
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Bypass	SampleValue bypass status	N/A	Boolean: • **true**—Enabled. • **False** (default)—Disabled.	N/A

Ied/Interfaces

This table contains information about interface communication.

XML structure

```
<Ied>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <InputDelay></InputDelay>
      <OutputDelay></OutputDelay>
    </Interface>
  </Interfaces>
</Ied>
```

Table description

Item	Description
Feature name	Ied
Table name	Interfaces

Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
InputDelay	Port input packet delay.	N/A	Unsigned integer. Value range: 0 to 256,	N/A
OutputDelay	Port output packet delay.	N/A	Unsigned integer. Value range: 0 to 256,	N/A

Appendix

Abbreviations 缩略语	Full spelling 英文全名	Chinese explanation 中文解释
IEC	International Electrical Commission	国际电工委员会
IED	Intelligent Electronic Device	智能电子设备
Server	Server	服务器
LD	Logical Device	逻辑设备
LN	Logical Node	逻辑节点
DO	Data	数据
DA	Data Attribute	数据属性
CDC	Common Data Class	公共数据类
ACSI	Abstract Communication Service Interface	抽象通信服务接口
MMS	Manufacturing Message Specification	报文制造规范
CMS	Communication Message Specification	国产化报文规范
PDU	Protocol Indication Bit	协议数据单元
GOOSE	Generic Object Oriented Substation Events	通用面向对象的变电站事件
SV	Sample Value	采样值
ASN.1	Abstract syntax notation one	抽象标记语法
BER	Basic encoding rules	基本编码规则
SCL	Substation Configuration Language	
ICD	IED Capability Description	IED能力描述文件
SSD	System Specification Description	系统规范文件
SCD	Substation Configuration Description	全站系统配置文件
CID	Configured IED Description	IED实例配置文件
CSD	Configured Switch Description	交换机配置描述

Contents

ietf-interfaces 1
interfaces/interface 1
XML structure 1
Table description 1
Columns 1

ietf-interfaces

interfaces/interface

This table contains basic interface information for IETF.

XML structure

```
<interfaces>
  <interface>
    <name></name>
    <description></description>
    <type></type>
    <enabled></enabled>
    <link-up-down-trap-enable></link-up-down-trap-enable>
    <mode-l2></mode-l2>
    <bind-ni-name></bind-ni-name>
  </interface>
</interfaces>
```

Table description

Item	Description
Feature name	ietf-interfaces
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of the interface	Index	String. Length: 2 to 47 characters. Example: E1 2/0/21	N/A
description	Textual description of the interface	N/A	String. Length: 1 to 255 characters. Default: Interface name.	N/A
type	Type of the interface	N/A	Identityref.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Configured, desired state of the interface	N/A	Boolean: • true. • false. Default: true	N/A
link-up-down-trap-enable	Controls whether linkUp/linkDown SNMP notifications are generated for this interface	N/A	Enumeration: • 1(enabled) • 2(disabled)	N/A
mode-l2	Specify the sub-interface to use the l2 mode	N/A	Boolean: • true. • false. Default: false.	N/A
bind-ni-name	Network instance to which the interface is bound	N/A	String. Length: 1 to 31 characters. Example: vpn100	N/A

Contents

ietf-interfaces 1
interfaces/interface 1
XML structure 1
Table description 2
Columns 2

ietf-interfaces

interfaces/interface

This table contains basic interface information for IETF.

XML structure

```
<interfaces>
  <interface>
    <name></name>
    <description></description>
    <type></type>
    <enabled></enabled>
    <link-up-down-trap-enable></link-up-down-trap-enable>
    <admin-status></admin-status>
    <oper-status></oper-status>
    <last-change></last-change>
    <if-index></if-index>
    <phys-address></phys-address>
    <speed></speed>
    <statistics>
       <discontinuity-time></discontinuity-time>
       <in-octets></in-octets>
       <in-unicast-pkts></in-unicast-pkts>
       <in-broadcast-pkts></in-broadcast-pkts>
       <in-multicast-pkts></in-multicast-pkts>
       <in-discards></in-discards>
       <in-errors></in-errors>
       <in-unknown-protos></in-unknown-protos>
       <out-octets></out-octets>
       <out-unicast-pkts></out-unicast-pkts>
       <out-broadcast-pkts></out-broadcast-pkts>
       <out-multicast-pkts></out-multicast-pkts>
       <out-discards></out-discards>
       <out-errors></out-errors>
    </statistics>
    <mode-l2></mode-l2>
    <bind-ni-name></bind-ni-name>
  </interface>
</interfaces>
```

Table description

Item	Description
Feature name	ietf-interfaces
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of the interface	Index	String. Length: 2 to 47 characters. Example: E1 2/0/21	N/A
description	Textual description of the interface	N/A	String. Length: 1 to 255 characters. Default: Interface name.	N/A
type	Type of the interface	N/A	Identityref.	The type string is sub-interface if the interface is a sub-interface. For more information, see Table 1.
enabled	Configured, desired state of the interface	N/A	Boolean: • true. • false. Default: true.	N/A
link-up-down-trap-enable	Controls whether linkUp/linkDown SNMP notifications are generated for this interface	N/A	Enumeration: • 1(enabled) • 2(disabled)	N/A
admin-status	Desired state of the interface	N/A	Enumeration: • 1(up) • 2(down) • 3 (testing)	For more information, see Table 2.
oper-status	Current operational state of the interface	N/A	Enumeration: • 1(up) • 2(down) • 3 (testing) • 4(unknown) • 5(dormant)	For more information, see Table 2.

			• 6(not-present) • 7(lower-layer-down)	
last-change	Time when the interface entered its current operational state	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
if-index	IfIndex value for the ifEntry represented by this interface	N/A	Integer. Value range: 1 to 2147483647.	N/A
phys-address	Interface's address at its protocol sub-layer	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
speed	Estimated current bandwidth (in bps) of the interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
statistics	Collection of interface-related statistics objects	N/A	Include: • discontinuity-time. • in-octets • in-unicast-pkts • in-broadcast-pkts • in-multicast-pkts • in-discards • in-errors • in-unknown-protos • out-octets • out-unicast-pkts • out-broadcast-pkts • out-multicast-pkts • out-discards • out-errors	N/A
discontinuity-time	Latest time when any one or more of this interface's counters suffered a discontinuity	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
in-octets	Total number of octets received on the interface, including framing characters	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
in-unicast-pkts	Number of packets, delivered by this sub-layer to a higher (sub-)layer, that were not addressed to a multicast or broadcast	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

	address at this sub-layer			
in-broadcast-pkts	Number of packets, delivered by this sub-layer to a higher (sub-)layer, that were addressed to a broadcast address at this sub-layer	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
in-multicast-pkts	Number of packets, delivered by this sub-layer to a higher (sub-)layer, that were addressed to a multicast address at this sub-layer	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
in-discards	Number of inbound packets that were chosen to be discarded even though no errors had been detected to prevent them being delivered to a higher-layer protocol	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
in-errors	For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being delivered to a higher-layer protocol	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
in-unknown-protos	For packet-oriented interfaces, the number of packets received via the interface that were discarded because of an unknown or unsupported protocol	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
out-octets	Total number of octets transmitted out of the interface, including framing	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

	characters			
out-unicast-pkts	Total number of packets that higher-level protocols requested be transmitted, and that were not addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
out-broadcast-pkts	Total number of packets that higher-level protocols requested be transmitted, and that were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
out-multicast-pkts	Total number of packets that higher-level protocols requested be transmitted, and that were addressed to a multicast address at this sub-layer, including those that were discarded or not sent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
out-discards	Number of outbound packets that were chosen to be discarded even though no errors had been detected to prevent them being transmitted	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
out-errors	For packet-oriented interfaces, the number of outbound	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

	packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors			
mode-l2	Specify the sub-interface to use the l2 mode	N/A	Boolean: • true. • false. Default: false	N/A
bind-ni-name	Network instance to which an interface is bound	N/A	String. Length: 1 to 31 characters. Example: vpn100	N/A

Table 1 Interface extension types

String num	Interface type	Description
other	IF_COMMON_TYPE	General interface.
other	IF_AM_TYPE	Analog modem interface.
atmIma	IF_ASY_TYPE	Asynchronous serial port.
atm	IF_IMA_TYPE	IMA interface.
other	IF_ATM_TYPE	ATM interface.
	IF_AUX_TYPE	AUX interface.
other	IF_BRI_TYPE	ISDN BRI interface.
other	IF_BVI_TYPE	Bridge-group virtual interface.
sonet	IF_CONSOLE_TYPE	Console interface.
other	IF_CPOS_TYPE	CPOS interface.
other	IF_DIALER_TYPE	Dialer interface.
e1	IF_LOCAL_VA_TYPE	Local VA interface, bound to a physical interface.
ds3	IF_E1_TYPE	E1 interface.
other	IF_E3_TYPE	E3 interface.
ethernetCsmacd	IF_INETH_TYPE	Internal Ethernet interface.
other	IF_INLOOPBACK_TYPE	Internal loopback interface.
other	IF_LOOPBACK_TYPE	Loopback interface.
other	IF_ENCRYPT_TYPE	Encryption interface.
ethernetCsmacd	IF_L2ETHERNET_TYPE	Layer 2 FE interface.

String num	Interface type	Description
ethernetCsmacd	IF_L2GE_TYPE	Layer 2 GE interface.
ethernetCsmacd	IF_L2VE_TYPE	Layer 2 VE interface.
other	IF_L2XGE_TYPE	Layer 2 10-GE interface.
ethernetCsmacd	IF_L3ETHERNET_TYPE	Layer 3 FE interface.
ethernetCsmacd	IF_L3GE_TYPE	Layer 3 GE interface.
ethernetCsmacd	IF_L3VE_TYPE	Layer 3 VE interface.
ethernetCsmacd	IF_L3XGE_TYPE	Layer 3 10-GE interface.
other	IF_ME_TYPE	Management Ethernet interface.
ethernetCsmacd	IF_MFR_TYPE	MFR interface.
ethernetCsmacd	IF_MGE_TYPE	Management GE interface.
other	IF_MPGROUP_TYPE	MP-group interface.
ethernetCsmacd	IF_NULL_TYPE	Null interface.
other	IF_POS_TYPE	POS interface.
other	IF_RPR_POS_TYPE	RPR POS physical interface.
ethernetCsmacd	IF_RPR_XGE_TYPE	RPR 10-GE physical interface.
ethernetCsmacd	IF_RPR_GE_TYPE	RPR GE physical interface.
other	IF_SERIAL_TYPE	Serial interface.
	IF_SUBSCRIBER_LINE_TYPE	Subscriber line interface.
ds1	IF_T1_TYPE	T1 interface.
ds3	IF_T3_TYPE	T3 interface.
tunnel	IF_TUNNEL_TYPE	Tunnel interface.
other	IF_GLOBAL_VA_TYPE	Global VA interface, bound to a global logical interface.
l3ipvlan	IF_VLAN_TYPE	VLAN interface.
other	IF_VT_TYPE	VT interface.
ieee80211	IF_RADIO_DOT11_TYPE	WLAN-Radio interface.
other	IF_WLAN_ESS_TYPE	WLAN ESS interface.
other	IF_WLAN_DBSS_TYPE	WLAN DBSS interface.
other	IF_WLAN_BSS_TYPE	WLAN BSS interface.
other	IF_WLAN_ETH_TYPE	WLAN Ethernet interface.
other	IF_WLAN_TUN_TYPE	WLAN tunnel interface.
other	IF_OLT_TYPE	OLT interface.
other	IF_ONU_TYPE	ONU interface.
other	IF_MTUNNEL_TYPE	M-Tunnel interface.
other	IF_CELLULAR_TYPE	Cellular interface.
other	IF_INASY_TYPE	Internal asynchronous serial interface.
other	IF_L2RPR_TYPE	Layer 2 RPR logical interface.

String num	Interface type	Description
other	IF_L3RPR_TYPE	Layer 3 RPR logical interface.
ieee8023adLag	IF_BAGG_TYPE	Layer 2 aggregate interface.
other	IF_REGISTER_TUNNEL_TYPE	Register-Tunnel interface.
ethernetCsmacd	IF_LOOPFE_TYPE	Loopback FE interface.
ethernetCsmacd	IF_LOOPGE_TYPE	Loopback GE interface.
ethernetCsmacd	IF_LOOPXGE_TYPE	Loopback 10-GE interface.
ethernetCsmacd	IF_MIRRORFE_TYPE	Mirroring FE interface.
ethernetCsmacd	IF_MIRRORGE_TYPE	Mirroring GE interface.
ethernetCsmacd	IF_MIRRORXGE_TYPE	Mirroring 10-GE interface.
ethernetCsmacd	IF_IDSFE_TYPE	IDS FE interface.
ethernetCsmacd	IF_IDSGE_TYPE	IDS GE interface.
ethernetCsmacd	IF_IDSXGE_TYPE	IDS 10-GE interface.
ieee8023adLag	IF_RAGG_TYPE	Layer 3 aggregate interface.
ethernetCsmacd	IF_L2FGE_TYPE	Layer 2 40-GE interface.
ethernetCsmacd	IF_L2HGE_TYPE	Layer 2 100-GE interface.
ethernetCsmacd	IF_L3FGE_TYPE	Layer 3 40-GE interface.
ethernetCsmacd	IF_L3HGE_TYPE	Layer 3 100-GE interface.
ethernetCsmacd	IF_LOOPFGE_TYPE	Loopback 40-GE interface.
ethernetCsmacd	IF_LOOPHGE_TYPE	Loopback 100-GE interface.
ethernetCsmacd	IF_MIRRORFGE_TYPE	Mirroring 40-GE interface.
ethernetCsmacd	IF_MIRRORHGE_TYPE	Mirroring 100-GE interface.
ethernetCsmacd	IF_IDSFGE_TYPE	IDS 40-GE interface.
ethernetCsmacd	IF_IDSHGE_TYPE	IDS 100-GE interface.
other	IF_FC_TYPE	FC interface.
other	IF_VFC_TYPE	VFC interface.
other	IF_FCB_TYPE	FC bundle interface.
other	IF_EVI_LINK_TYPE	EVI-link interface.
ethernetCsmacd	IF_SCHANNEL_TYPE	S-channel interface.
other	IF_FCM_TYPE	FCM interface.
other	IF_VPPP_TYPE	Virtual PPP interface.
other	IF_TRILL_REMOTE_TYPE	Remote TRILL interface.
other	IF_HDLCBUNDLE_TYPE	HDLC bundle interface.
ieee8023adLag	IF_GSCHANNEL_TYPE	Aggregate S-channel interface.
ethernetCsmacd	IF_L2TGE_TYPE	Layer 2 20-GE interface.
ethernetCsmacd	IF_L3TGE_TYPE	Layer 3 20-GE interface.
ethernetCsmacd	IF_LOOPTGE_TYPE	Loopback 20-GE interface.
ethernetCsmacd	IF_MIRRORTGE_TYPE	Mirroring 20-GE interface.

String num	Interface type	Description
ethernetCsmacd	IF_IDSTGE_TYPE	IDS 20-GE interface.
other	IF_AC_TYPE	AC interface.
other	IF_UPW_TYPE	U-PW interface.
other	IF_NPW_TYPE	N-PW interface.
tunnel	IF_TUNNEL_BUNDLE_TYPE	Tunnel bundle interface.
ethernetCsmacd	IF_EFM_TYPE	EFM interface.
other	IF_MAPPED_TYPE	Mapped interface.
ethernetCsmacd	IF_CBGE_TYPE	CBGE interface.
ethernetCsmacd	IF_CBXGE_TYPE	CBXGE interface.
ethernetCsmacd	IF_CBFGE_TYPE	CBFGE interface.
ethernetCsmacd	IF_CBHGE_TYPE	CBHGE interface.
ethernetCsmacd	IF_PEX_TYPE	PEX interface.
other	IF_VE_L2VPN_TYPE	L2VPN virtual Ethernet interface
other	IF_VE_L3VPN_TYPE	L3VPN virtual Ethernet interface
other	IF_BLADE_TYPE	Blade interface
ieee8023adLag	IF_BLAGG_TYPE	Blade aggregation interface
other	IF_ETHCHANNEL_TYPE	EtherChannel interface
other	IF_BETH_TYPE	Beth interface
other	IF_RETH_TYPE	Reth interface
other	IF_VSI_TYPE	VSI interface
other	IF_CEM_TYPE	CEM interface
other	IF_INCOMM_TYPE	INCOMM interface
other	IF_SVPNAC_TYPE	SVPN-AC interface
other	IF_LISP_TYPE	LISP interface
other	IF_L2RPRLOCAL_TYPE	Layer 2 RPR interface
ieee8023adLag	IF_SCHANNEL_BUNDLE_TYPE	S-channel bundle interface
other	IF_WLAN_MESH_TYPE	WLAN Mesh interface
other	IF_WLAN_MESHLINK_TYPE	WLAN-MeshLink interface
other	IF_CMTUNNEL_TYPE	CMTunnel interface
ethernetCsmacd	IF_L2SGE_TYPE	Layer 2 SGE interface
ethernetCsmacd	IF_L3SGE_TYPE	Layer 3 SGE interface
ethernetCsmacd	IF_L2WGE_TYPE	Layer 2 WGE interface
ethernetCsmacd	IF_L3WGE_TYPE	Layer 3 WGE interface
ethernetCsmacd	IF_LOOPWGE_TYPE	Loopback WGE interface
ethernetCsmacd	IF_MIRRORWGE_TYPE	Mirroring WGE interface
ethernetCsmacd	IF_IDSWGE_TYPE	IDS WGE interface
ethernetCsmacd	IF_LOOPSGE_TYPE	Loopback SGE interface

String num	Interface type	Description
ethernetCsmacd	IF_MIRRORSGE_TYPE	Mirroring SGE interface
other	IF_WTU_ETH_TYPE	WTU ETH interface
ethernetCsmacd	IF_IDSSGE_TYPE	IDS SGE interface
ethernetCsmacd	IF_L2_50GE_TYPE	Layer 2 50-GE interface.
ethernetCsmacd	IF_L3_50GE_TYPE	Layer 3 50-GE interface.
ethernetCsmacd	IF_MIRROR_50GE_TYPE	Mirroring 50-GE interface.
ethernetCsmacd	IF_LOOP_50GE_TYPE	Loopback 50-GE interface.
ethernetCsmacd	IF_IDS_50GE_TYPE	IDS 50-GE interface.
other	IF_ROLT_TYPE	ROLT interface
other	IF_RONU_TYPE	RONU interface
ethernetCsmacd	IF_L2_400GE_TYPE	Layer 2 400-GE interface.
ethernetCsmacd	IF_L3_400GE_TYPE	Layer 3 400-GE interface.
ethernetCsmacd	IF_MIRROR_400GE_TYPE	Mirroring 400-GE interface.
ethernetCsmacd	IF_LOOP_400GE_TYPE	Loopback 400-GE interface.
ethernetCsmacd	IF_IDS_400GE_TYPE	IDS 400-GE interface.
Other	IF_MAX_TYPE	N/A

Table 2 Interface operational status

Value	Operational status	Remarks
1	up	When the administrative status of an interface changes to up, the operational status of the interface changes to up if the interface is ready to transmit and receive network traffic.
2	down	• When the administrative status of an interface changes to up, the operational status of the interface remains in the down status if a fault prevents it from going to the up status. • When the administrative status of an interface changes to down, the operational status of the interface changes to down.
3	testing	No operation packets can be transmitted or received through the interface.
4	unknown	The operational status of the interface cannot be determined.
5	dormant	When the administrative status of an interface changes to up, the operational status of the interface changes to dormant if the interface is waiting for external actions (such as a serial line waiting for an incoming connection).
6	notPresent	When the administrative status of an interface changes to up, the operational status of an interface remains in the notPresent status if the interface has missing components (typically hardware).
7	lowerLayerDown	The lower-layer interfaces are down.

Contents

IFIT 1
IFIT/ClearDynamicFlow 1
XML structure 1
Table description 1
Columns 1
IFIT/ClearFlowStatistic 1
XML structure 1
Table description 2
Columns 2

IFIT

IFIT/ClearDynamicFlow

The ClearDynamicFlow table is used to clear dynamic learning information from flows.

XML structure

```
<IFIT>
  <ClearDynamicFlow>
    <FlowID></FlowID>
  </ClearDynamicFlow>
</IFIT>
```

Table description

Item	Description
Feature name	IFIT
Table name	ResetDynamicFlow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowID	Flow ID of a dynamic flow	N/A	Unsigned integer. Value range: 0 to 18446744073709551614.	If you do not specify a flow ID, all flows will be cleared.

IFIT/ClearFlowStatistic

The ClearFlowStatistic table is used to clear statistics information of flows..

XML structure

```
<IFIT>
  <ClearFlowStatistic>
    <FlowID></FlowID>
  </ClearFlowStatistic>
</IFIT>
```

Table description

Item	Description
Feature name	IFIT
Table name	ClearFlowStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowID	Flow identifier	N/A	Unsigned integer. Value range: 0 to 18446744073709551614.	If you do not specify a flow ID, the all statistics of flows will be cleared.

Contents

IFIT 1
IFIT/Global 1
XML structure 1
Table description 1
Columns 1
IFIT/Global/Encapsulations 2
XML structure 2
Table description 2
Columns 2
IFIT/Instances 3
XML structure 3
Table description 4
Columns 4
IFIT/Instances/UniFlow 5
XML structure 5
Table description 5
Columns 5
IFIT/Instances/BindInterfaces 6
XML structure 7
Table description 7
Columns 7

IFIT

IFIT/Global

This table contains global configuration parameters about ifit.

XML structure

```
<IFIT>
  <Global>
    <Enable></Enable>
    <DeviceID></DeviceID>
    <DeviceIP></DeviceIP>
    <DyncAgeMulti></DyncAgeMulti>
    <ThresholdPercent></ThresholdPercent>
    <Encapsulations>
      <Encapsulation>
        <NextHop></NextHop>
      </Encapsulation>
    </Encapsulations>
  </Global>
</IFIT>
```

Table description

Item	Description
Feature name	Ifit
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of iFIT	N/A	Boolean: • true.	Please use remove operation to disabled iFIT.
DeviceID	Device ID of iFIT	N/A	Unsigned integer. Value range: 1 to 1048575	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceIP	Device IP of iFIT	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DyncAgeMulti	Aging timer of dynamic flows	N/A	Unsigned integer. Value range: 2 to 100	N/A
ThresholdPercent	Percentage threshold on the number of dynamic flows	N/A	Unsigned integer. Value range: 0 to 100	The percentage threshold represents the ratio of current dynamic flows to maximum dynamic flows. The default value for this column varies by device model.
Encapsulations	Encapsulation information	Sublist	N/A	N/A

IFIT/Global/Encapsulations

This table contains encapsulations of nexthop configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Global

Table description

Item	Description
Feature name	Ifit
Table name	Encapsulations
Table type	Multi-instance table
Row name	Encapsulation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHop	Next hop IP address of encapsulation	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IFIT/Instances

This table contains instance configuration parameters about ifit.

XML structure

```
<IFIT>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <NetworkType></NetworkType>
      <Measure>
        <Enable></Enable>
        <Mode></Mode>
        <Period></Period>
        <Delay></Delay>
        <Loss></Loss>
      </Measure>
      <UniFlow>
        <AddrFamily></AddrFamily>
        <SourceIP></SourceIP>
        <SourceMask></SourceMask>
        <DestinationIP></DestinationIP>
        <DestinationMask></DestinationMask>
        <Protocol></Protocol>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
        <Dscp></Dscp>
        <VRF></VRF>
        <NextHop></NextHop>
        <VsiName></VsiName>
        <XCGName></XCGName>
        <ConnectionName></ConnectionName>
        <PeerLocator>
          <Prefix></Prefix>
          <PrefixLength></PrefixLength>
        </PeerLocator>
      </UniFlow>
      <BindInterfaces>
        <BindInterface>
          <IfIndex></IfIndex>
        </BindInterface>
      </BindInterfaces>
    </Instance>
```

```
  </Instances>
</IFIT>
```

Table description

Item	Description
Feature name	Ifit
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of an iFIT instance	Index	String. Length: 1 to 31 characters	N/A
NetworkType	Transmit network type of an iFIT instance	N/A	Enumeration: • **1**—Tunnel. (Default) • **2**—Native-IP.	N/A
Measure	Measurement related configuration	Data structure	Members include: • Enable • Mode • Period • Delay • Loss	N/A
Enable	Enabling status of measurement	N/A	Boolean: • true. • false .(Default)	N/A
Mode	Type of measurement mode	N/A	Enumeration: • **1**—e2e. (Default) • **2**—trace.	N/A
Period	Statistics polling period	N/A	Enumeration: • 1 • 10 • 30(default) • 60 • 300	Unit is seconds.
Delay	Status of delay measurement	N/A	Boolean: • true. (Default) • false.	N/A
Loss	Status of loss	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	measurement		• true. (Default) • false.	
UniFlow	Unidirectional flow information	Subtable	N/A	N/A
BindInterfaces	Index of a bound interface	Subtable	N/A	N/A

IFIT/Instances/UniFlow

This table contains unidirectional flow configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Instances.

Table description

Item	Description
Feature name	Ifit
Table name	UniFlow
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrFamily	Family of IP address	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
SourceIP	Source IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated.3. ANY: Mean all legal IP Addresses.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
SourceMask	Source mask length of the flow	N/A	Unsigned integer.	Value range of IPv4:1 to 32; Value range of IPv6:1 to 32;

Column name	Column description	Column type	Data type and restrictions	Remarks
DestinationIP	Destination IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated. 3. ANY: Mean all legal IP Addresses.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DestinationMask	Destination mask length of the flow	N/A	Unsigned integer.	Value range of IPv4: 1 to 32; Value range of IPv6: 1 to 32;
Protocol	Type of protocol	N/A	Unsigned integer.	Example:TCP: 6, UDP:17,SCTP:132
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Dscp	Differentiated Services Code Point	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VRF	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A
NextHop	Next hop IP address of the flow	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
XCGName	XCG name	N/A	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection name	N/A	String. Length: 1 to 20 characters.	N/A
PeerLocator	Peer locator prefix address	Data structure	Members include: • Prefix • PrefixLength	N/A
Prefix	Prefix address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
PrefixLength	Prefix Length	N/A	Unsigned integer. Value range: 32 to 120.	N/A

IFIT/Instances/BindInterfaces

This table contains binding interfaces of instance configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Global

Table description

Item	Description
Feature name	Ifit
Table name	BindInterfaces
Table type	Multi-instance table
Row name	BindInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Name of a bound interface.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Contents

IFIT 1
IFIT/Global 1
XML structure 1
Table description 1
Columns 1
IFIT/Global/Encapsulations 2
XML structure 2
Table description 2
Columns 2
IFIT/Instances 2
XML structure 3
Table description 4
Columns 4
IFIT/Instances/UniFlow 5
XML structure 5
Table description 5
Columns 5
IFIT/Instances/BindInterfaces 6
XML structure 6
Table description 6
Columns 7
IFIT/FlowStatistics 7
XML structure 7
Table description 8
Columns 8
IFIT/FlowStatistics/StatisticDetails 9
XML structure 9
Table description 9
Columns 9

IFIT

IFIT/Global

This table contains global information parameters about ifit.

XML structure

```
<IFIT>
  <Global>
    <Enable></Enable>
    <DeviceID></DeviceID>
    <DeviceIP></DeviceIP>
    <DyncAgeMulti></DyncAgeMulti>
    <ThresholdPercent></ThresholdPercent>
    <Encapsulations>
      <Encapsulation>
        <NextHop></NextHop>
      </Encapsulation>
    </Encapsulations>
  </Global>
</IFIT>
```

Table description

Item	Description
Feature name	Ifit
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of iFIT	N/A	Boolean: • true.	N/A
DeviceID	Device ID of iFIT	N/A	Unsigned integer. Value range: 1 to 1048575	N/A
DeviceIP	Device IP of iFIT	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
DyncAgeMulti	Aging timer of dynamic flows	N/A	Unsigned integer. Value range: 2 to 100	N/A
ThresholdPercent	Percentage threshold on the number of dynamic flows	N/A	Unsigned integer. Value range: 0 to 100	The percentage threshold represents the ratio of current dynamic flows to maximum dynamic flows. The default value for this column varies by device model.
Encapsulations	Encapsulations information	Sublist	N/A	N/A

IFIT/Global/Encapsulations

This table contains encapsulations of nexthop configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Global

Table description

Item	Description
Feature name	Ifit
Table name	Encapsulations
Table type	Multi-instance table
Row name	Encapsulation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHop	Next hop IP address of encapsulation	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IFIT/Instances

This table contains instance information about ifit.

XML structure

```
<IFIT>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <NetworkType></NetworkType>
      <Measure>
        <Enable></Enable>
        <Mode></Mode>
        <Period></Period>
        <Delay></Delay>
        <Loss></Loss>
      </Measure>
      <UniFlow>
        <AddrFamily></AddrFamily>
        <SourceIP></SourceIP>
        <SourceMask></SourceMask>
        <DestinationIP></DestinationIP>
        <DestinationMask></DestinationMask>
        <Protocol></Protocol>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
        <Dscp></Dscp>
        <VRF></VRF>
        <NextHop></NextHop>
        <VsiName></VsiName>
        <XCGName></XCGName>
        <ConnectionName></ConnectionName>
        <PeerLocator>
          <Prefix></Prefix>
          <PrefixLength></PrefixLength>
        </PeerLocator>
      </UniFlow>
      <BindInterfaces>
        <BindInterface>
          <IfIndex></IfIndex>
          <IfName></IfName>
        </BindInterface>
      </BindInterfaces>
    </Instance>
  </Instances>
</IFIT>
```

Table description

Item	Description
Feature name	Ifit
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of an ifit instance	Index	String. Length: 1 to 31 characters	N/A
NetworkType	Transmit network type of an iFIT instance	N/A	Enumeration: • **1**—Tunnel. • **2**—Native-IP.	N/A
Measure	Measurement related configuration	Data structure	Members include: • Enable • Mode • Period • Delay • Loss	N/A
Enable	Enabling status of measurement	N/A	Boolean: • true. • false .	N/A
Mode	Type of measurement mode	N/A	Enumeration: • **1**—e2e. • **2**—trace.	N/A
Period	Statistics polling period	N/A	Enumeration: • **10**. • **30**. • **60**. • **300**.	Unit is seconds.
Delay	Status of delay measurement	N/A	Boolean: • true. • false.	N/A
Loss	Status of loss measurement	N/A	Boolean: • true. • false.	N/A
UniFlow	Unidirectional flow information	Subtable	N/A	N/A
BindInterfaces	Index of a bound interface	Subtable	N/A	N/A

IFIT/Instances/UniFlow

This table contains unidirectional flow configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Instances.

Table description

Item	Description
Feature name	Ifit
Table name	UniFlow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrFamily	Family of IP address	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
SourceIP	Source IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated. 3. ANY: Mean all legal IP Addresses.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
SourceMask	Source mask length of the flow	N/A	Unsigned integer.	N/A
DestinationIP	Destination IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated. 3. ANY: Mean all legal IP Addresses.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DestinationMask	Destination mask length of the flow	N/A	Unsigned integer.	N/A
Protocol	Type of protocol	N/A	Unsigned integer.	Example:TCP: 6, UDP:17,SCTP:132

Column name	Column description	Column type	Data type and restrictions	Remarks
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Dscp	Differentiated Services Code Point	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VRF	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A
NextHop	Next hop IP address of the flow	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
XCGName	XCG name	N/A	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection name	N/A	String. Length: 1 to 20 characters.	N/A
PeerLocator	Peer locater prefix address	Data structure	Members include: • Prefix • PrefixLength	N/A
Prefix	Prefix address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
PrefixLength	Prefix Length	N/A	Unsigned integer. Value range: 32 to 120.	N/A

IFIT/Instances/BindInterfaces

This table contains binding interfaces of instance configuration parameters about ifit.

XML structure

See the XML structure of IFIT/Instances

Table description

Item	Description
Feature name	Ifit
Table name	BindInterfaces
Table type	Multi-instance table
Row name	BindInterface

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Name of a bound interface.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

IFIT/FlowStatistics

This table container the statistics information of flows.

XML structure

```
<IFIT>
  <FlowStatistics>
    <FlowStatistic>
      <FlowID></FlowID>
      <UniFlow>
        <AddrFamily></AddrFamily>
        <SourceIP></SourceIP>
        <SourceMask></SourceMask>
        <DestinationIP></DestinationIP>
        <DestinationMask></DestinationMask>
        <Protocol></Protocol>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
        <Dscp></Dscp>
        <VRF></VRF>
        <NextHop></NextHop>
        <VsiName></VsiName>
        <XCGName></XCGName>
        <ConnectionName></ConnectionName>
        <PeerLocator>
```

```
        <PrefixAddress></PrefixAddress>
        <PrefixLength></PrefixLength>
      </PeerLocator>
    </UniFlow>
    <StatisticDetails>
      <StatisticDetail>
        <PeriodID></PeriodID>
        <IfIndex></IfIndex>
        <Direction></Direction>
        <IfName></IfName>
        <Period></Period>
        <PacketCount></PacketCount>
        <ByteCount></ByteCount>
        <TimestampSecond></TimestampSecond>
        <TimestampNanoSecond></TimestampNanoSecond>
        <TTL></TTL>
        <ErrorInfo></ErrorInfo>
        <IfAggName></IfAggName>
      </StatisticDetail>
    </StatisticDetails>
  </FlowStatistic>
</FlowStatistics>
</IFIT>
```

Table description

Item	Description
Feature name	Ifit
Table name	FlowStatistics
Table type	Multi-instance table
Row name	FlowStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowID	Flow identifier	Index	Unsigned integer. Value range: 0 to 18446744073709551614.	N/A
UniFlow	Unidirectional flow information	Subtable	N/A	For more information, see "IFIT/Instances/UniFlow."
StatisticDetails	Detailed flow statistics	Sublist	N/A	For more information, see " IFIT/FlowStatistics/Stati

Column name	Column description	Column type	Data type and restrictions	Remarks
				sticDetails."

IFIT/FlowStatistics/StatisticDetails

This table container the detail statistics information of flows.

XML structure

See the XML structure of IFIT/FlowStatistics.

Table description

Item	Description
Feature name	Ifit
Table name	FlowStatistics
Table type	Multi-instance table
Row name	FlowStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeriodID	Period identifier	Index	Unsigned integer. Length: 64 bits.	N/A
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	N/A
Direction	Flow direction	Index	Enumeration: • **1**—Ingress. • **2**—TransInput • **3**—TransOutput • **4**—Egress.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Period	Statistics polling period	N/A	Enumeration: • **1**. • **10**. • **30** • **60** • **300**	Unit is seconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketCount	Packet number	N/A	Unsigned integer. Length: 64 bits.	N/A
ByteCount	Byte number	N/A	Unsigned integer. Length: 64 bits.	N/A
TimestampSecond	Second part of the timestamp	N/A	Unsigned integer. Length: 64 bits.	N/A
TimestampNanoSecond	Nanosecond part of the timestamp	N/A	Unsigned integer. Length: 64 bits.	N/A
TTL	Time to live	N/A	Unsigned integer. Length: 32 bits.	N/A
ErrorInfo	Error information	N/A	Unsigned integer. Length: 32 bits. Bit 0 (trust flag): • Not set—Accurate period. • Set—Inaccurate period.	The trust flag is set in the first two periods and not set in the subsequent periods.
IfAggName	Aggregate interface name.	N/A	String. Length: 2 to 47 characters. Example: Route-Aggregation1	N/A

Contents

IFIT 1
IFIT/Global 1
IFIT/Instances 1

IFIT

IFIT/Global

Message	Explanation
"IFIT is not enabled." IFIT未使能。	IFIT is not enabled. IFIT 未使能。
"Maximum number of next hops has already been reached." “Nexthop配置个数已达到上限。”	Maximum number of next hops has already been reached. Nexthop 配置个数已达到上限。

IFIT/Instances

Message	Explanation
"Instance name can't contain spaces. 实例名中不能包含空格符号	"Instance name can't contain spaces. 实例名中不能包含空格符号
“Maximum number of instances has already been reached.” “实例配置个数已经达到上限。”	Maximum number of instances has already been reached. 实例配置个数已经达到上限。
“Operation failed, because the instance has been enabled.” “实例已使能，不允许修改配置。”	Enabling the measurement fails because it has been enabled in the instance “实例已使能，不允许修改配置。”
“Maximum number of enabled instances has already been reached.” “实例使能个数已经达到上限。”	Maximum number of enabled instances has already been reached. 实例使能个数已经达到上限
“Maximum number of bound interfaces has already been reached.” “实例绑定接口个数已经达到上限。”	Maximum number of bound interfaces has already been reached. 实例绑定接口个数已经达到上限。
The source and destination IP addresses must be of the same IP version. 源IP和目的IP的类型必须一致。	The configuration of source IP and destination IP addresses must be of the same IP version. 配置的源IP和目的IP的类型必须一致。
The current configuration protocol does not support configuring port numbers 当前协议类型不支持配置端口号	Only TCP, UDP, and STCP protocols supports configuration of destination and source port number 只有TCP UDP STCP协议支持配置目的、源端口号
The source and destination IP addresses must be configured together.	The source and destination IP addresses must be configured together.

“配置源ip地址和目的ip地址必须同时下发”	源ip地址和目的ip地址必须绑定下发
The source and destination ports must be configured together. “配置端口和目的端口必须同时下发”	The source and destination ports must be configured together. 源端口和目的端口必须绑定下发
The VPN instance does not exist. “VPN实例不存在”。	The VPN instance does not exist. VPN实例不存在。
“IP address is invalid.” “IP地址无效。”	The configured IP address is invalid. 配置的IP地址无效。
“The address family does not match the configured source and destination addresses” “地址簇类型与源或者目的地址不匹配”	The address family does not match the configured source and destination addresses 地址簇类型与源或者目的地址不匹配
“A measured flow with the same attributes is already defined in another instance.” “配置冲突，目标流已经绑定其它实例。”	A measured flow with the same attributes is already defined in another instance. 其他实例已经存在 flow。
"Operation failed due to lack of device-id. " 配置失败，因为缺少device-id参数。	Operation failed due to lack of device-id. 配置失败，因为没有配置 device-id。
"Operation failed due to lack of measured flow setting.” 配置失败，因为缺少Flow参数。	Operation failed due to lack of measured flow setting. 配置失败，因为没有配置 flow。
"Operation failed due to lack of bound interfaces. " 配置失败，因为绑定接口参数。	Operation failed due to lack of bound interfaces. 配置失败，因为没有配置绑定接口。
"Operation failed. Please enable loss-measure or delay-measure first." “配置失败，请先使能丢包或者时延测量。”	"Operation failed. Please enable loss-measure or delay-measure first." “配置失败，请先使能丢包或者时延测量。”
"Operation failed due to lack of device-ip. " 配置失败，因为缺少 device-ip。	Operation failed due to lack of device IP. 配置失败，因为没有配置 device-ip。
"Operation failed because of conflict between device ID and device IP. " 配置失败，因为device-id和device-ip冲突。	Operation failed because of conflict between device ID and device IP. 配置失败，因为device-id和device-ip冲突。
"Operation failed, because transmit network type of native-ip does not support intervals of 1 second. " 配置失败，native-ip传输网类型不支持1s周期探测。	Operation failed, because transmit network type **native-ip** does not support intervals of 1 second. 配置失败，native-ip传输网类型不支持1s周期探测。

Contents

Ifmgr 1

Ifmgr/Interfaces 1
XML structure 1
Table description 1
Columns 1
Ifmgr/ClearAllIfStatistics 2
XML structure 2
Table description 2
Columns 2
Ifmgr/SubInterfaces 2
XML structure 3
Table description 3
Columns 3
Ifmgr/LogicInterfaces 4
XML structure 4
Table description 4
Columns 4
Ifmgr/VirtualCableTest 5
XML structure 5
Responsed XML structure 5
Table description 6
Columns 6
Responsed Columns 6
Ifmgr/ClearPacketDropStatistics 7
XML structure 7
Table description 8
Columns 8
Ifmgr/ShutdownAllPhyIf 8
XML structure 8
Table description 8
Columns 9
Ifmgr/EthFlexESwitch 9
XML structure 9
Table description 9
Columns 9

Ifmgr

Ifmgr/Interfaces

This table contains interface action information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Clear></Clear>
      <Default></Default>
      <Loopback></Loopback>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Clear	Clears interface statistics.	N/A	This column must be empty.
Default	Restore default settings.	N/A	This column must be empty.

Column name	Column description	Column type	Data type and restrictions
Loopback	Interface loopback testing.	N/A	Enumeration: • **1**—Internal • **2**—External Applicable to only Ethernet interfaces and AUX interfaces which loopback testing can be auto stopped.

Ifmgr/ClearAllIfStatistics

This table is used to clear statistics on all interfaces.

XML structure

```
<Ifmgr>
  <ClearAllIfStatistics>
    <Clear></Clear>
  </ClearAllIfStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all interfaces.	N/A	This column must be empty.

Ifmgr/SubInterfaces

This table is used to create or delete sub-interfaces.

XML structure

```
<Ifmgr>
  <SubInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SubNum></SubNum>
      <Remove></Remove>
    </Interface>
  </SubInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	SubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	• Create: Interface index of parent interface. • Delete: Interface index of the sub-interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SubNum	Sub-interface number.	N/A	Unsigned integer	• Applicable to only create a sub-interface • This column must be specified when create a sub-interface. • The range of SubNum is reference in table

Column name	Column description	Column type	Data type and restrictions	Remarks
				of InterfaceCapabilities which in Data API.
Remove	Delete specified sub-interface.	N/A	This column must be empty.	Applicable to only delete a sub-interface

Ifmgr/LogicInterfaces

This table is used to create or delete logic interfaces.

XML structure

```
<Ifmgr>
  <LogicInterfaces>
    <Interface>
      <IfTypeExt></IfTypeExt>
      <Number></Number>
      <Remove></Remove>
    </Interface>
  </LogicInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	LogicInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfTypeExt	The type of interface.	Index	Unsigned integer	IfTypeExt is Reference in table of Ifmgr/Interfaces.which in Data API. The supported logic interface type as follow: • 16—IF_LOOPBACK_TYPE • 41—IF_VLAN_TY

Column name	Column description	Column type	Data type and restrictions	Remarks
				PE • 56—IF_BAGG_TYPE • 67—IF_RAGG_TYPE • 110—IF_RETH_TYPE • 111—IF_VSI_TYPE • 114—IF_SSLVPNAC_TYPE • 160—IF_ROLT_TYPE
Number	Number of the logic interface.	Index	Unsigned integer	The range of Number is Reference in table of InterfaceCapabilities which in Data API.
Remove	Delete specified logic interface.	N/A	This column must be empty.	Applicable to only delete a logic interface.

Ifmgr/VirtualCableTest

This table is used to test the cable connection of Ethernet interfaces and get the test results.

XML structure

```
<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
    </Interface>
  </VirtualCableTest>
</Ifmgr>
```

Responsed XML structure

```
<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
      <CableStatus></CableStatus>
      <CableLen></CableLen>
      <Mismatch></Mismatch>
      <PairSkew></PairSkew>
      <PairSwap></PairSwap>
      <PairPolarity></PairPolarity>
```

```
      <InsertionLoss></InsertionLoss>
      <ReturnLoss></ReturnLoss>
      <NearEndCrosstalk></NearEndCrosstalk>
    </Interface>
  </VirtualCableTest>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	VirtualCableTest
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of FastEthernet, GigabitEthernet and Ten-GigabitEthernet.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions supportinterface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Responsed Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	
CableStatus	Cable status of an interface	N/A	Enumeration: • **0—The test failed.** • **1—Normal, the cable is in good condition.** • 2—**Abnormal (open), an open circuit is detected.** • **3—Abnormal (short), a short circuit is detected.** • **4—Abnormal, the cable**	

Column name	Column description	Column type	Data type and restrictions	Remarks
			is abnormal.	
CableLen	Cable length of an interface	N/A	Unsigned integer, in metres.	
Mismatch	Pair impedance mismatch information of an interface	N/A	Unsigned integer: • **0xffffffff**—Not support • **0**—Mismatch • Others—Match	
PairSkew	Pair skew information of an interface	N/A	Unsigned integer, in ns. The value is 0xffffffff if not support.	
PairSwap	Pair swap information of an interface	N/A	Unsigned integer: • **0xffffffff**—Not support • **0**—Normal • Others—Swap	
PairPolarity	Pair **polarity** information of an interface	N/A	Unsigned integer: • **0xffffffff**—Not support • **0**—Normal • Others—Swap	
InsertionLoss	Insertion loss information of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
ReturnLoss	Return loss infomaion of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
NearEndCrosstalk	Near-end crosstalk of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	

Ifmgr/ClearPacketDropStatistics

This table is used to clear interfaces packet drop statistics.

XML structure

```
<Ifmgr>
  <ClearPacketDropStatistics>
    <Interface>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Interface>
  </ClearPacketDropStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ClearPacketDropStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions supportinterface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Clear	Clear interface packet drop statistics.	N/A	This column must be empty.	Applicable to only clear Clear interface packet drop statistics

Ifmgr/ShutdownAllPhyIf

This table is used to shut down all physical interfaces.

XML structure

```
<Ifmgr>
  <ShutdownAllPhyIf>
    <Shutdown></Shutdown>
  </ShutdownAllPhyIf>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ShutdownAllPhyIf
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Shutdown	Shut down all physical interfaces.	N/A	Boolean: • true—shutdown • false—undo shutdown	

Ifmgr/EthFlexESwitch

This table is used to switch port type of interfaces between Ethernet and FlexE.

XML structure

```
<Ifmgr>
  <EthFlexESwitch>
    <Interface>
      <IfName></IfName>
      <PortType></PortType>
    </Interface>
  </EthFlexESwitch>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthFlexESwitch
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: HundredGigE2/0/2	• N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortType	Port type of the interface to be switched.	N/A	Enumeration: • **1**—switch to Ethernet type • **2**—switch to FlexE type • **3**—switch to FlexE-FG type	• N/A

Contents

Ifmgr 1

Ifmgr/Interfaces 1
XML structure 1
Table description 2
Columns 2
Ifmgr/ShutdownInterval 2
XML structure 2
Table description 3
Columns 3
Ifmgr/FlexeInstances 3
XML structure 4
Table description 8
Columns 8
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups 9
XML structure 9
Table description 9
Columns 10
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces 10
XML structure 11
Table description 11
Columns 11
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients 12
XML structure 12
Table description 13
Columns 13
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots 13
XML structure 14
Table description 14
Columns 14
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels 15
XML structure 15
Table description 16
Columns 16
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots 17
XML structure 17
Table description 17
Columns 18
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients 18
XML structure 19
Table description 19
Columns 19
Ifmgr/ShutdownAllPhyIf 20
XML structure 20
Table description 21
Columns 21
Ifmgr/FlexeFgInterfaces 21
XML structure 21
Table description 23
Columns 23
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients 23
XML structure 24
Table description 24
Columns 24
Ifmgr/LinkFlap 25
XML structure 25
Table description 26
Columns 26

Ifmgr/TrafficStatistics/Interval ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 30
Ifmgr/EthInterfaces ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
Ifmgr/ShutdownInterval ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
Ifmgr/FlexeInstances ····· 32
XML structure ····· 33
Table description ····· 36
Columns ····· 36
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces ····· 38
XML structure ····· 39
Table description ····· 39
Columns ····· 39
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots ····· 41
XML structure ····· 42
Table description ····· 42
Columns ····· 42
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels ····· 42
XML structure ····· 43
Table description ····· 43
Columns ····· 44
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots ····· 44
XML structure ····· 45
Table description ····· 45
Columns ····· 45
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 47
Ifmgr/ShutdownAllPhyIf ····· 47
XML structure ····· 47
Table description ····· 48
Columns ····· 48
Ifmgr/FlexeFgInterfaces ····· 48
XML structure ····· 48
Table description ····· 49
Columns ····· 50
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients ····· 50
XML structure ····· 51
Table description ····· 51
Columns ····· 51
Ifmgr/LinkFlap ····· 51
XML structure ····· 52
Table description ····· 52
Columns ····· 52
Ifmgr/StormConstrain/Interfaces ····· 55
XML structure ····· 55

Table description 56
Columns 56
Ifmgr/ShutdownInterval 56
XML structure 57
Table description 57
Columns 57
Ifmgr/FlexeInstances 57
XML structure 58
Table description 62
Columns 63
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups 63
XML structure 64
Table description 64
Columns 64
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces 65
XML structure 65
Table description 66
Columns 66
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients 66
XML structure 67
Table description 67
Columns 68
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots 68
XML structure 69
Table description 69
Columns 69
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels 70
XML structure 70
Table description 70
Columns 71
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots 71
XML structure 72
Table description 72
Columns 73
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients 73
XML structure 74
Table description 74
Columns 74
Ifmgr/ShutdownAllPhyIf 75
XML structure 75
Table description 76
Columns 76
Ifmgr/FlexeFgInterfaces 76
XML structure 77
Table description 78
Columns 78
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients 79
XML structure 79
Table description 79
Columns 80
Ifmgr/LinkFlap 80
XML structure 80
Table description 81
Columns 81
Ifmgr/StormConstrain/Interval 84
XML structure 84
Table description 84
Columns 84
Ifmgr/StormConstrain/WhiteProtocol 84
XML structure 85
Table description 85
Columns 85

Ifmgr/PortIsolation/Groups ····· 85
XML structure ····· 85
Table description ····· 86
Columns ····· 86
Ifmgr/PortIsolation/Interfaces ····· 86
XML structure ····· 86
Table description ····· 87
Columns ····· 87
Ifmgr/ShutdownInterval ····· 87
XML structure ····· 87
Table description ····· 88
Columns ····· 88
Ifmgr/FlexeInstances ····· 88
XML structure ····· 89
Table description ····· 93
Columns ····· 93
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups ····· 94
XML structure ····· 94
Table description ····· 95
Columns ····· 95
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces ····· 95
XML structure ····· 96
Table description ····· 96
Columns ····· 97
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients ····· 97
XML structure ····· 98
Table description ····· 98
Columns ····· 98
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots ····· 99
XML structure ····· 99
Table description ····· 100
Columns ····· 100
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels ····· 100
XML structure ····· 101
Table description ····· 101
Columns ····· 102
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots ····· 102
XML structure ····· 103
Table description ····· 103
Columns ····· 103
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients ····· 104
XML structure ····· 105
Table description ····· 105
Columns ····· 105
Ifmgr/ShutdownAllPhyIf ····· 106
XML structure ····· 106
Table description ····· 106
Columns ····· 107
Ifmgr/FlexeFgInterfaces ····· 107
XML structure ····· 107
Table description ····· 109
Columns ····· 109
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients ····· 109
XML structure ····· 110
Table description ····· 110
Columns ····· 110
Ifmgr/LinkFlap ····· 111
XML structure ····· 111
Table description ····· 112
Columns ····· 112
Ifmgr/ReserveVlanInterface ····· 113
XML structure ····· 113

Table description 113
Columns 113
Ifmgr/CellularChannel 114
XML structure 114
Table description 114
Columns 114
Ifmgr/ShutdownInterval 115
XML structure 115
Table description 115
Columns 116
Ifmgr/FlexeInstances 116
XML structure 116
Table description 121
Columns 122
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups 122
XML structure 123
Table description 123
Columns 123
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces 123
XML structure 124
Table description 124
Columns 125
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients 125
XML structure 126
Table description 126
Columns 126
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots 127
XML structure 127
Table description 128
Columns 128
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels 128
XML structure 129
Table description 129
Columns 130
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots 130
XML structure 131
Table description 131
Columns 132
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients 132
XML structure 133
Table description 133
Columns 133
Ifmgr/ShutdownAllPhyIf 134
XML structure 134
Table description 135
Columns 135
Ifmgr/FlexeFgInterfaces 135
XML structure 135
Table description 137
Columns 137
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients 138
XML structure 138
Table description 138
Columns 139
Ifmgr/LinkFlap 139
XML structure 139
Table description 140
Columns 140
Ifmgr/NewSubInterfaces 141
XML structure 141
Table description 141
Columns 142

Ifmgr/ShutdownInterval ····· 142
XML structure ····· 142
Table description ····· 143
Columns ····· 143
Ifmgr/FlexeInstances ····· 143
XML structure ····· 143
Table description ····· 147
Columns ····· 147
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups ····· 148
XML structure ····· 148
Table description ····· 148
Columns ····· 149
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces ····· 149
XML structure ····· 149
Table description ····· 150
Columns ····· 150
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients ····· 150
XML structure ····· 151
Table description ····· 151
Columns ····· 151
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots ····· 152
XML structure ····· 152
Table description ····· 153
Columns ····· 153
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels ····· 153
XML structure ····· 154
Table description ····· 154
Columns ····· 154
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots ····· 155
XML structure ····· 155
Table description ····· 156
Columns ····· 156
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients ····· 156
XML structure ····· 157
Table description ····· 157
Columns ····· 157
Ifmgr/ShutdownAllPhyIf ····· 158
XML structure ····· 158
Table description ····· 159
Columns ····· 159
Ifmgr/FlexeFgInterfaces ····· 159
XML structure ····· 159
Table description ····· 160
Columns ····· 161
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients ····· 161
XML structure ····· 161
Table description ····· 162
Columns ····· 162
Ifmgr/LinkFlap ····· 162
XML structure ····· 162
Table description ····· 163
Columns ····· 163
Ifmgr/ShutdownInterval ····· 164
XML structure ····· 164
Table description ····· 164
Columns ····· 165
Ifmgr/FlexeInstances ····· 165
XML structure ····· 165
Table description ····· 166
Columns ····· 166
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups ····· 167
XML structure ····· 167

Table description 167
Columns 167
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces 168
XML structure 168
Table description 168
Columns 168
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients 168
XML structure 169
Table description 169
Columns 169
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots 169
XML structure 169
Table description 169
Columns 170
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels 170
XML structure 170
Table description 170
Columns 171
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots 171
XML structure 171
Table description 171
Columns 172
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients 172
XML structure 172
Table description 172
Columns 172
Ifmgr/ShutdownAllPhyIf 173
XML structure 173
Table description 173
Columns 173
Ifmgr/FlexeFgInterfaces 174
XML structure 174
Table description 174
Columns 174
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients 175
XML structure 175
Table description 175
Columns 175
Ifmgr/LinkFlap 176
XML structure 176
Table description 176
Columns 176
Appendix 177

Ifmgr

Ifmgr/Interfaces

This table contains basic interface information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Description></Description>
      <AdminStatus></AdminStatus>
      <ConfigSpeed></ConfigSpeed>
      <ConfigDuplex></ConfigDuplex>
      <PortLayer></PortLayer>
      <LinkType></LinkType>
      <PVID></PVID>
      <MAC></MAC>
      <Loopback></Loopback>
      <MDI></MDI>
      <ConfigMTU></ConfigMTU>
      <ConfigBandwidth></ConfigBandwidth>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <KeepAlive></KeepAlive>
      <KeepAliveRetry></KeepAliveRetry>
      <TrafficStatisticsEnable></TrafficStatisticsEnable>
      <SubIfRateStatisticsEnable></SubIfRateStatisticsEnable>
      <LinkDelay>
        <UpTime></UpTime>
        <DownTime></DownTime>
      </LinkDelay>
      <ServiceSlot>
        <Chassis></Chassis>
        <Slot></Slot>
        <Cpu></Cpu>
      </ServiceSlot>
      <ServiceStandbySlot>
        <Chassis></Chassis>
        <Slot></Slot>
        <Cpu></Cpu>
      </ServiceStandbySlot>
    </Interface>
  </Interfaces>
```

```
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see " SubIfI Ifmgr/ShutdownInterval This table contains the shutdown recovery interval for ports. XML structure <Ifmgr>

```
<ShutdownInterval>

<Interval></Interval>

</ShutdownInterval>
</Ifmgr>
```

Table description

Item
Featu
Table
Table
Restri
Suppo

Columns

Colu name
Interv

Ifmgr/FlexeInstances

This table contains FlexeI

				nstance interface information. XML structure <Ifmgr> <FlexeInstances> <FlexeInstance> <Chassis></Chassis> <Slot></Slot> <Subslot></Subslot> <ConfigMode></ConfigMode> <FlexeGroups> <FlexeGroup> <GroupID></GroupID>

				<BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex> <PhyNo></PhyNo> </BindPhyInterface> </BindPhyInterfaces> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyIfIndex></PhyI

				fIndex > <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> </Client> </Clients> <ClientChannels> <ClientChannel> <ClientChannelID></ClientChannelID> <ClientConfigMode></ClientConfigMode> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot>

				<PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> </Client> </Clients> </ClientChannel> </ClientChan

```
nels>

</Flex
eGroup
>

</Flex
eGroup
s>

</Flex
eInsta
nce>

</Flex
eInsta
nces>
</Ifmg
r>
```

Table descripti on

Item
Featu
Table
Table
Row r
Restri
Suppo deleti

Columns

Colur name
Chass
Slot
Subsl
Config

				FlexeGro Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups This table contains creating information of FlexE group interfaces. XML structure See the XML structure of FlexeInstance. Table description

				Item Feature Table na Table typ Row man Restricti Support Columns Colum name Group BindP aces Client Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces This

table contains binding information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deleti

Columns

Colur name
PhyIfI

				PhyNo
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance.

				Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client Bandv TimeS lfmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGr

				oup/Clients/Client/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns

					Column name PhyIndex TimeSlot
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels This table contains Client Channel configuration information. XML structure	

				See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client IID Client Mode Bandv TimeS Client

				lfmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table

				description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name PhyIn TimeS Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Ch

				annelClients/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client

					Bandwid
					SubTime List
					Ifmgr/ShutdownAllPhyIf This table is used to shut down all physical interfaces. XML structure <Ifmgr> <ShutdownAllPhyIf> <Shutdown></Shutdown> </ShutdownAl

```
lPhyIf
>
</Ifmg
r>
```

Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deleti

Columns

Colur name
Shutd

Ifmgr/FlexeFgInterfaces

This table contains FlexeFg interface information.

XML

				structure <Ifmgr> <FlexeFgInterfaces> <FlexeFgInterface> <IfName></IfName> <ConfigMode></ConfigMode> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> <Client> <Clients>

```
</Flex
EFGInt
erface
>

</Flex
EFGInt
erface
s>
</Ifmg
r>
```

Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Columns

Colur name	
IfNam	
Config	
Client	

Ifmgr/FlexeFgI

				nterfaces/FlexeFgInterface/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeFgInterface. Table description Item Featu Table Table Row r Restri Suppo deleti Columns

Column name
Client ID
Bandwid
SubTime List

Ifmgr/LinkFlap

This table is used to enable link flapping protection globally.

XML structure

```
<Ifmgr>

<LinkFlap>

<Enable></Enable>

<Batch></Batch>

<Interval></Interval>
```

				<Threshold></Threshold> </LinkFlap> </Ifmgr> Table description Item Featu Table Table Restri Suppo deleti Columns Colur name Enabl Batch Interv Thres Appendix"
Description	Interface description	N/A	String. Length: 1 to 255 characters.	N/A

			Default: *interface-name* **Interface**.	
AdminStatus	Interface administration status	N/A	Enumeration: • **1**—Up (default). • **2**—Down.	N/A
ConfigSpeed	Configured speed of an interface.	N/A	Each bit represents a speed. As follows: • **1**—Auto • **2**—10Mbps • **4**—100Mbps • **8**—155Mbps • **16**—622Mbps • **32**—1Gbps • **64**—2Gbps • **128**—2.5Gbps • **256**—4Gbps • **512**—8Gbps • **1024**—10Gbps • **2048**—16Gbps • **4096**—20Gbps • **8192**—40Gbps • **16384**—100Gbps • **32768**—5Gbps • **65536—25Gbps** • **131072—32Gbps** • 262144—50Gbps • 524288—200Gbps • 1048576—400Gbps	Examples: • **32**—Speed is 1000Mbps. • **37**—Auto-ne gotiation mode, and negotiation values are 100Mbps and 1000Mbps.
ConfigDuplex	Configured duplex mode of an interface	N/A	Enumeration: • **1**—Full. • **2**—Half. • **3**—Auto.	Applicable to only Ethernet interfaces.
PortLayer	Port layer of an interface	N/A	Enumeration: • **1**—Layer 2 • **2**—Layer 3	Applicable to Ethernet interfaces.
LinkType	VLAN type of an interface	N/A	Enumeration: • **1**—Access (default). • **2**—Trunk. • **3**—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Loopback	Loopback test	N/A	Enumeration: • 0—No loopback • **1**—Internal • **2**—External	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an	N/A	Enumeration:	Applicable to only Layer 2 Ethernet

	interface		• **1**—MDI-II (crossover cable) • **2**—MDI-X (straight-through cable) • **3**—MDI-AUTO (auto-sensing)	interfaces.
ConfigMTU	Configured MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ConfigBandwidth	Configured expected bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A
Interval	Sampling interval of an interface	N/A	Unsigned integer. Value range: 5 to 300, in seconds, in step of 5	N/A
ForceUP	Forcibly bring up an interface.	N/A	Boolean: • **true** • **false**	Applicable to only Ethernet and POS interfaces.
KeepAlive	KeepAlive value of an interface	N/A	Unsigned integer. Value range: 0 to 32767.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
KeepAliveRetry	KeepAlive retry times of an interface	N/A	Unsigned integer. Value range: 1 to 255.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
TrafficStatisticsEnable	Enable interface statistics collection.	N/A	Enumeration: • enable • disable	Applicable to only Layer 3 subinterfaces.
SubIfRateStatisticsEnable	Enable rate statistics collection for the subinterfaces of an interface	N/A	Enumeration: • enable • disable	Applicable to only main interface and POS channels.
LinkDelay	Physical state change suppression configuration of an interface.	N/A	Include: • UpTime • DownTime	
UpTime	Configured link-up event suppression interval of an interface.	N/A	Unsigned integer. Value range: 0 to 30000, in milliseconds. Within 10 seconds, in step of 100; More than 10 seconds, in step of 1000.	
DownTime	Configured link-down event suppression interval of an interface.	N/A	Unsigned integer. Value range: 0 to 30000, in milliseconds. Within 10 seconds, in step of 100; More than 10 seconds, in step of 1000.	

ServiceSlot	Primary traffic processing slot ID	N/A	Include: • Chassis • Slot • Cpu	N/A
Chassis	ID of the IRF member device where the entity resides.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Cpu	CPU ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ServiceStandbySlot	Backup traffic processing slot ID	N/A	Include: • Chassis • Slot • Cpu	N/A
Chassis	ID of the IRF member device where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Cpu	CPU ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Ifmgr/TrafficStatistics/Interval

This table contains traffic sampling interval information of all interfaces.

XML structure

```
<Ifmgr>
  <TrafficStatistics>
    <Interval>
      <Interval></Interval>
    </Interval>
  </TrafficStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Sampling interval of all interfaces, in seconds, in step of 5.	N/A	Unsigned integer. Value range: 5 to 300. It can configured only when Configurable" (Reference in table of TrafficStatistics/Interval which in Data API) value is true.

Ifmgr/EthInterfaces

This table contains Ethernet interfaces information.

XML structure

```
<Ifmgr>
  <EthInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <Jumboframe></Jumboframe>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
        <Action></Action>
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
        <Flag></Flag>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
        <Action></Action>
      </UnknownUnicastSuppression>
      <BPDUDrop></BPDUDrop>
      <EEE></EEE>
```

```
      <ConnectMode></ConnectMode>
      <KnownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </KnownUnicastSuppression>
    </Interface>
  </EthInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see " SubIfIndex Ifmgr/ShutdownInterval This table contains the shutdown recovery interval for ports. XML structure <Ifmgr>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Shutdown Interval> <Interval ></Interv al> </Shutdow nInterval > </Ifmgr> Table description Item Feature na Table nam Table type Restrictior Support fc Columns Column name Interval Ifmgr/Fle xeInstan ces This table contains FlexeInsta nce interface informatio n.

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML structure <Ifmgr> <FlexeInstances> <FlexeInstance> <Chassis></Chassis> <Slot></Slot> <Subslot></Subslot> <ConfigMode></ConfigMode> <FlexeGroups> <FlexeGroup> <GroupID></GroupID> <BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex> <PhyNo></PhyNo>

Column name	Column description	Column type	Data type and restrictions	Remarks
				</BindPhyInterface> </BindPhyInterfaces> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyIfIndex></PhyIfIndex> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> </Client> </Clients> <ClientChannels> <ClientCh

Column name	Column description	Column type	Data type and restrictions	Remarks
				annel> <ClientChannelID></ClientChannelID> <ClientConfigMode></ClientConfigMode> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<SubTimeSlotList></SubTimeSlotList> </Client> </Clients> </ClientChannel> </ClientChannels> </FlexeGroup> </FlexeGroups> </FlexeInstance> </FlexeInstances> </Ifmgr> Table description Item Feature na Table nam Table type Row name Restrictior Support fc deletion Columns Column name

Column name	Column description	Column type	Data type and restrictions	Remarks

Chassis	ID of the where t resides
Slot	Slot ID entity
Subslot	SubSlot entity
ConfigMode	Bandwi configu mode
FlexeGroups	FlexE g interfac

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups

This table contains creating information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table

Column name	Column description	Column type	Data type and restrictions	Remarks
				description Item Feature na Table nam Table type Row name Restrictior Support fo Columns Column name GroupID BindPhyIn aces Clients Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces

Column name	Column description	Column type	Data type and restrictions	Remarks
				This table contains binding information of FlexE group interfaces. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fc deletion Columns Column name PhyIfIndex PhyNo

Column name	Column description	Column type	Data type and restrictions	Remarks
				physica interfac

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item
Feature na
Table nam
Table type
Row name

Column name	Column description	Column type	Data type and restrictions	Remarks
				Restrictions Support for row creation deletion Columns Column name ClientID Bandwidth TimeSlots Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots This table contains TimeSlot configuration information.

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name PhyIndex TimeSlotL Ifmgr/FlexeInstan

Column name	Column description	Column type	Data type and restrictions	Remarks
				ces/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels This table contains ClientChannel configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fc deletion

Column name	Column description	Column type	Data type and restrictions	Remarks
				Columns Column name ClientChannelID ClientConnMode Bandwidth TimeSlots Clients Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots

Column name	Column description	Column type	Data type and restrictions	Remarks
				This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fc deletion Columns Column name PhyInterfa TimeSlotL

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name

Column name	Column description	Column type	Data type and restrictions	Remarks
				Restrictions Support for row creation deletion Columns Column name ClientID Bandwidth SubTimeSList Ifmgr/ShutdownAllPhyIf This table is used to shut down all physical interfaces. XML structure <Ifmgr> <Shutdown AllPhyIf> <Shutdown

Column name	Column description	Column type	Data type and restrictions	Remarks
				></Shutdown> </ShutdownAllPhyIf> </Ifmgr> Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name Shutdown Ifmgr/FlexeFgInterfaces This table contains FlexeFg interface informatio n. XML structure

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Ifmgr> <FlexeFgInterfaces> <FlexeFgInterface> <IfName></IfName> <ConfigMode></ConfigMode> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> <Client> <Clients> </FlexEFGInterface> </FlexEFGInterfaces> </Ifmgr> Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
				Item Feature name Table name Table type Row name Restrictions Support for row creation deletion Columns Column name IfName ConfigMod Clients Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients This table contains Client configuration information.

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML structure See the XML structure of FlexeFgInterface. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name ClientID Bandwidth SubTimeS List Ifmgr/LinkFlap This table is used to enable link flapping

Column name	Column description	Column type	Data type and restrictions	Remarks

				protection globally.
				XML structure
				`<Ifmgr>`
				`<LinkFlap>`
				`<Enable></Enable>`
				`<Batch></Batch>`
				`<Interval></Interval>`
				`<Threshold></Threshold>`
				`</LinkFlap>`
				`</Ifmgr>`
				Table description
				Item
				Feature na
				Table nam
				Table type
				Restrictior
				Support fc deletion
				Columns
				Column name
				Enable

Column name	Column description	Column type	Data type and restrictions	Remarks
				flapping protecti globally Batch: Enable flapping protecti globally all inter Interval: Specifi link fla detecti interva second Threshold: Specifi link fla detecti thresho Appendix"
Combo	Combo mode of an interface	N/A	Enumeration: • **1**—fiber mode • **2**—copper mode • **3**—auto mode	
FlowControl	Flow control information of an interface	N/A	Enumeration: • **1**—Enable flow control • **2**—Disable • **3**—Only enable flow control packet receiving	Applicable to only Physical interfaces.
AutoPowerDown	Port auto power down	N/A	Boolean: • **true** • **false**	Applicable to only Physical interfaces.
Jumboframe	Jumbo frame information of an interface	N/A	Unsigned integer, the value is 0 if jumbo fame is disable on an interface.	
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: • Value • Unit	
ConfigValue	Config broadcast suppression value of an interface	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	
Action	Action of	N/A	Enumeration:.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	broadcast suppression		• **0—NA** • **1**—blockEgressUnknown	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: • Value • Unit	
ConfigValue	Config multicast suppression value of an interface	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	
Flag	Multicast suppression flag	N/A	Enumeration: • 1—all • 2—unknown	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: • Value • Unit	
ConfigValue	Config unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	
Action	Action of UnKnown Unicast suppression	N/A	Enumeration:. • **0—NA** • **1**—blockEgressUnknown	
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: • **true** • **false**	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: • **true** • **false**	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: • **1**—Normal connection mode	Applicable to only Layer 2 10GE Physical interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Extend connection mode	
KnownUnicastSuppression	Known Unicast Suppression information of an interface	N/A	Include: • Value • Unit	N/A
ConfigValue	Config Known unicast suppression value of an interface	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	N/A
Unit	KnownUnicast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	N/A

Ifmgr/StormConstrain/Interfaces

This table contains interface storm constrain information.

XML structure

```
<Ifmgr>
  <StormConstrain>   <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <CtlMode></CtlMode>
        <Trap></Trap>
        <Log></Log>
        <Broadcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Broadcast>
        <Multicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Multicast>
        <UnknownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
       </UnknownUnicast>
       <KnownUnicast>
```

```
        <Upper></Upper>
        <Lower></Lower>
        <Unit></Unit>
      </KnownUnicast>     </Interface>
    </Interfaces>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 physical Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about the string type, see " SubIfI Ifmgr/ShutdownInterval This table contains the shutdown recovery interval for ports.

Column name	Column description	Column type	Data type and restrictions	Remarks

				XML structure
				`<Ifmgr>`
				`<ShutdownInterval>`
				`<Interval></Interval>`
				`</ShutdownInterval>`
				`</Ifmgr>`
				Table description
				Item
				Featu
				Table
				Table
				Restri
				Suppo
				Columns
				Colu name
				Interv
				Ifmgr/Fl

Column name	Column description	Column type	Data type and restrictions	Remarks

				exeInstances
				This table contains FlexeInstance interface information.
				XML structure
				`<Ifmgr>`
				`<FlexeInstances>`
				`<FlexeInstance>`
				`<Chassis></Chassis>`
				`<Slot></Slot>`
				`<Subslot></Subslot>`
				`<ConfigMode></ConfigMode>`

Column name	Column description	Column type	Data type and restrictions	Remarks
				<FlexeGroups> <FlexeGroup> <GroupID></GroupID> <BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex> <PhyNo></PhyNo> </BindPhyInterface> </BindPhyInterfaces> <Clients> <Client> <ClientID></ClientID>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyIfIndex></PhyIfIndex> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> </Client> </Clients> <ClientChannels> <ClientChannel> <ClientChannelID></ClientChannelID> <ClientConfi

Column name	Column description	Column type	Data type and restrictions	Remarks
				gMode> </ClientConfigMode> <Bandwidth> </Bandwidth> <TimeSlots> <TimeSlot> <PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth> </Bandwidth> <SubTi

Column name	Column description	Column type	Data type and restrictions	Remarks
				meSlot List> /SubTi meSlot List> </Clie nt> </Clie nts> </Clie ntChan nel> </Clie ntChan nels> </Flex eGroup > </Flex eGroup s> </Flex eInsta nce> </Flex eInsta nces> </Ifmg r> Table descripti on Item Featu Table Table Row r

Column name	Column description	Column type	Data type and restrictions	Remarks
				Restrictions Support for row crea deletion Columns Colur name Chass Slot Subsl Config Flexe lfmgr/FlexeInstances/FlexeInstance/FlexeGroups This table contains creating information

Column name	Column description	Column type	Data type and restrictions	Remarks
				of FlexE group interfaces. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo Columns Colur name Group BindP aces Client

Column name	Column description	Column type	Data type and restrictions	Remarks
				lfmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces This table contains binding information of FlexE group interfaces. XML structure See the XML structure of FlexeInstance.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name PhyIfI PhyN Ifmgr/FlexeInstances/FlexeInstance/

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeGroups/FlexeGroup/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti

Column name	Column description	Column type	Data type and restrictions	Remarks
				Columns Colur name Client Bandv TimeS Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots This table contains TimeSlot config

Column name	Column description	Column type	Data type and restrictions	Remarks
				uration inform ation. XML structure See the XML structu re of FlexeI nstanc e. Table descripti on Item Featu Table Table Row r Restri Suppo deleti Columns Colur name PhyIn TimeS

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels This table contains Client Channel configuration information. XML structure See the XML structure of FlexeInstance. Table descripti

Column name	Column description	Column type	Data type and restrictions	Remarks
				on Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client IID Client Mode Bandv Times Client Ifmgr/Fl exeInst ances/

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table description Item

Column name	Column description	Column type	Data type and restrictions	Remarks
				Feature name Table name Table type Row name Restrictions Support for row crea deletion Columns Colur name PhyIn TimeS Ifmgr/Fl exeInst ances/ FlexeIn stance/ FlexeG roups/F lexeGr oup/Ch annelCl ients/Cl

Column name	Column description	Column type	Data type and restrictions	Remarks
				ients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client

Column name	Column description	Column type	Data type and restrictions	Remarks

				Bandwidth
				Ban in C
				SubTimeSlot List
				Sub
				
				Ifmgr/ShutdownAllPhyIf
				This table is used to shut down all physical interfaces.
				
				XML structure
				`<Ifmgr>`
				`<ShutdownAllPhyIf>`
				`<Shutdown></Shutdown>`

Column name	Column description	Column type	Data type and restrictions	Remarks

				`</ShutdownAllPhyIf>`
				`</Ifmgr>`
				Table description
				Item
				Featu
				Table
				Table
				Row r
				Restri
				Suppo deleti
				Columns
				Colur name
				Shutd
				Ifmgr/FlexeFgInterfaces
				This table contains FlexeFg interface inform

Column name	Column description	Column type	Data type and restrictions	Remarks
				ation. XML structure <Ifmgr> <FlexeFgInterfaces> <FlexeFgInterface> <IfName></IfName> <ConfigMode></ConfigMode> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> <Clien

Column name	Column description	Column type	Data type and restrictions	Remarks
				t> <Clien ts> </Flex EFGInt erface > </Flex EFGInt erface s> </Ifmg r> Table descripti on Item Featu Table Table Row r Restri Suppo deleti Columns Colur name IfNam Confi Client

Column name	Column description	Column type	Data type and restrictions	Remarks
				lfmgr/FlexeFgInterfaces/FlexeFgInterface/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeFgInterface. Table description Item Featu Table

Column name	Column description	Column type	Data type and restrictions	Remarks

				Table type
				Row name
				Restrictions
				Support for row crea deletion
				
				Columns
				
				Colur name
				Client
				Bandv
				SubTi List
				
				Ifmgr/LinkFlap
				
				This table is used to enable link flapping protection globally.
				
				XML structure
				
				`<Ifmgr>`
				`<LinkFlap>`
				`<Enabl`

Column name	Column description	Column type	Data type and restrictions	Remarks
				e></Enable> <Batch></Batch> <Interval></Interval> <Threshold></Threshold> </LinkFlap> </Ifmgr> Table description Item Featu Table Table Restri Suppo deleti Columns Colur name Enabl Batch

Column name	Column description	Column type	Data type and restrictions	Remarks
				all i Interval: Spe link det inte sec Threshold: Spe link det thre Appendix"
CtlMode	Storm constrain protective action	N/A	Enumeration: • **0**—N/A • **1**—Block • **2**—Shutdown	
Trap	Event trap switch	N/A	Boolean: • true • false	
Log	Event log switch	N/A	Boolean: • true • false	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Broadcast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Broadcast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Broadcast threshold unit	N/A	Enumeration: • **1**—pps • **2**—ratio • **3**—kbps	
Multicast	Multicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Multicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the	

Column name	Column description	Column type	Data type and restrictions	Remarks
			maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Multicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Multicast threshold unit	N/A	Enumeration: • **1**—pps • **2**—ratio • **3**—kbps	
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Unknown-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Unknown-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Unknown-unicast unit	N/A	Enumeration: • **1**—pps • **2**—ratio • **3**—kbps	
KnownUnicast	Known-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Known-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• kbps: 1 to the maximum interface rate	
Unit	Known-unicast unit	N/A	Enumeration: • **1**—pps • **2**—ratio • **3**—kbps	

Ifmgr/StormConstrain/Interval

This table contains storm constrain traffic collection interval information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interval>
      <Interval></Interval>
    </Interval>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	None
Restrictions	
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Traffic statistics collection interval for storm constrain, in seconds.	N/A	Unsigned integer. Value range: 1 to 300.

Ifmgr/StormConstrain/WhiteProtocol

This table contains storm constrain traffic white protocol.

XML structure

```
<Ifmgr>
  <StormConstrain>
   <WhitelistProtocol>
      <Protocol></Protocol>
   </WhitelistProtocol>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	WhiteProtocol
Table type	Single-instance table
Row name	None
Restrictions	
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Whitelist-protocol	• Each bit represents a protocol. • As follows: • 1—arpreq • 2—bpdu • 4—dhcp • 8—igmp • 16—rip	Example: • 22 —Protocol bpdu, dhcp, and rip are configurable.	

Ifmgr/PortIsolation/Groups

This table contains port isolation groups information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Groups>
      <Group>
```

```
      <IsolatedGroupID></IsolatedGroupID>
    </Group>
  </Groups>
 </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation. The maximum group ID are in the MaxGroupNum column in the Ifmgr/PortIsolation/Capabilities table. If the maximum is 1: • Isolation group 1 is created automatically after device started. • Isolation group 1 cannot created or deleted.
Support for row creation and deletion	Yes If the maximum is not 1. • **Yes**—If the maximum group ID value is not 1. • **No**—If the maximum group ID value is 1.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroup ID	Isolation group ID.	Index	Unsigned integer.	

Ifmgr/PortIsolation/Interfaces

This table contains interface isolation information.

XML structure

```
<Ifmgr>
 <PortIsolation>
  <Interfaces>
   <Interface>
    <IfIndex></IfIndex>
    <IsolatedGroupID></IsolatedGroupID>
   </Interface>
  </Interfaces>
 </PortIsolation>
```

```
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and Aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about the string type, see " SubIfI Ifmgr/ShutdownInterval This table contains the shutdown recovery interval for ports. XML structure <Ifmgr> <Shutd

Column name	Column description	Column type	Data type and restrictions	Remarks

				`ownInterval>`
				
				`<Interval></Interval>`
				
				`</ShutdownInterval>`
				`</Ifmgr>`
				
				Table description
				
				Item
				Featu
				Table
				Table
				Restri
				Suppo
				
				Columns
				
				Colu name
				Interv
				
				Ifmgr/FlexeInstances
				
				This table contains FlexeI

Column name	Column description	Column type	Data type and restrictions	Remarks
				nstance interface information. XML structure <Ifmgr> <FlexeInstances> <FlexeInstance> <Chassis></Chassis> <Slot></Slot> <Subslot></Subslot> <ConfigMode></ConfigMode> <FlexeGroups> <FlexeGroup> <GroupID></GroupID

Column name	Column description	Column type	Data type and restrictions	Remarks
				> <BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex> <PhyNo></PhyNo> </BindPhyInterface> </BindPhyInterfaces> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<PhyIfIndex></PhyIfIndex> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> </Client> </Clients> <ClientChannels> <ClientChannel> <ClientChannelID></ClientChannelID> <ClientConfigMode></ClientConfigMode> <Bandwidth></Bandwidth>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<TimeSlots> <TimeSlot> <PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> </Client> </Clie

Column name	Column description	Column type	Data type and restrictions	Remarks
				nts> </ClientChannel> </ClientChannels> </FlexeGroup> </FlexeGroups> </FlexeInstance> </FlexeInstances> </Ifmgr> Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups This table contains creating information of FlexE group interfaces. XML structure

Chassis	ID o whe resi
Slot	Slo enti
Subslot	Sub enti
ConfigMode	Bar con mo
FlexeGroups	Flex inte

Column name	Column description	Column type	Data type and restrictions	Remarks
				See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo Columns Colur name Group BindP aces Client Ifmgr/FlexeInstances/

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces This table contains binding information of FlexE group interfaces. XML structure See the XML structure of FlexeInstance. Table description Item Featu

Column name	Column description	Column type	Data type and restrictions	Remarks
				Table name Table type Row name Restrictions Support for row crea deletion Columns Colur name PhyIfI PhyN Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients

Column name	Column description	Column type	Data type and restrictions	Remarks
				This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client Bandv

Column name	Column description	Column type	Data type and restrictions	Remarks
				TimeSlots Tim Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name PhyIn TimeS Ifmgr/FlexeInstances/FlexeInstance/

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeGroups/FlexeGroup/ClientChannels This table contains Client Channel configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri

Column name	Column description	Column type	Data type and restrictions	Remarks
				Support for row crea deletion Columns Colur name Client IID Client Mode Bandv TimeS Client Ifmgr/Fl exeInst ances/ FlexeIn stance/ FlexeG roups/F lexeGr oup/Ch

Column name	Column description	Column type	Data type and restrictions	Remarks
				annelClients/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients This table contains Client configuration information.

Column name	Co des
PhyInterface	Fle Inte
TimeSlotList	Tim

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML structure See the XML structure of FlexeInstance. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name Client Bandv SubTi List

Column name	Column description	Column type	Data type and restrictions	Remarks

				Ifmgr/ShutdownAllPhyIf
				This table is used to shut down all physical interfaces.
				XML structure
				`<Ifmgr>`
				`<ShutdownAllPhyIf>`
				`<Shutdown></Shutdown>`
				`</ShutdownAllPhyIf>`
				`</Ifmgr>`
				Table description

Column name	Column description	Column type	Data type and restrictions	Remarks

				Item
				Feature name
				Table name
				Table type
				Row name
				Restrictions
				Support for row creation deletion
				
				Columns
				
				Column name
				Shutdown
				
				Ifmgr/FlexeFgInterfaces
				
				This table contains FlexeFg interface information.
				
				XML structure
				
				`<Ifmgr>`
				
				`<FlexeFgInterfaces>`

Column name	Column description	Column type	Data type and restrictions	Remarks
				<FlexeFgInterface> <IfName></IfName> <ConfigMode></ConfigMode> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> <Client> <Clients> </FlexEFGInterface> </FlexEFGInterface

Column name	Column description	Column type	Data type and restrictions	Remarks
				s> </Ifmgr> Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name IfNam Config Client Ifmgr/FlexeFgInterfaces/Flex

Column name	Column description	Column type	Data type and restrictions	Remarks
				eFgInterface/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeFgInterface. Table description Item Featu Table Table Row r Restri Suppo deleti Columns Colur name

Column name	Column description	Column type	Data type and restrictions	Remarks

ClientID	Flex ID
Bandwidth	Ban in M
SubTimeSlot List	Sub

Ifmgr/LinkFlap

This table is used to enable link flapping protection globally.

XML structure

```
<Ifmgr>

<LinkFlap>

<Enable></Enable>

<Batch></Batch>

<Interval></Interval>
```

Column name	Column description	Column type	Data type and restrictions	Remarks

				`<Threshold></Threshold>`
				
				`</LinkFlap>`
				`</Ifmgr>`
				
				Table description
				
				Item
				Featu
				Table
				Table
				Restri
				Suppo deleti
				
				Columns
				
				Colur name
				Enabl
				Batch
				Interv
				Thres
				
				Appendix"

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroupID	Port isolation group ID of an interface	N/A	Unsigned integer.	

Ifmgr/ReserveVlanInterface

This table contains the reservation of VLAN interface resources.

XML structure

```
<Ifmgr>
  <ReserveVlanInterface>
    <VlanInterface>
     <Type></Type>
     <VlanList></VlanList>
    </VlanInterface>
  </ReserveVlanInterface>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ReserveVlanInterface
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	N/A
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the reservation of VLAN interface resources is global or local.	Index	Enumeration: • **1**—Global. • **2**—Local.	The reservation of global VLAN interface resources or local VLAN interface resources.
VlanList	List of VLANs for the reservation of VLAN interface resources.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN	Example: 1,2,3,5-8,10-20 The item is permitted to be

Column name	Column description	Column type	Data type and restrictions	Remarks
			ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	incrementally edited. You can set the flag like"<VlanList base:incremental= "true">". If the value is true, the VLAN list can be added or removed. Otherwise, it is the final result.

Ifmgr/CellularChannel

This table contains sub channel creating information of cellular controller.

XML structure

```
<Ifmgr>
  <CellularChannel>
    <Interface>
      <IfIndex></IfIndex>
      <CreateMode></CreateMode>
      <ChannelNum></ChannelNum>
    </Interface>
  </CellularChannel>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	CellularChannel
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	For information about the string type, see "

Column name	Column description	Column type	Data type and restrictions	Remarks
SubIfIndex	Sub inde			

Ifmgr/ShutdownInterval

This table contains the shutdown recovery interval for ports.

XML structure

```
<Ifmgr>

<ShutdownInterval>

<Interval>
</Interval>

</ShutdownInterval>
</Ifmgr>
```

Table descripti

Column name	Column description	Column type	Data type and restrictions	Remarks

on

Item
Featu
Table
Table
Restri
Suppo

Columns

Colu name
Interva

Ifmgr/FlexeInstances

This table contains FlexeInstance interface information.

XML structure

```
<Ifmgr>

<FlexeInstances>
```

Column name	Column description	Column type	Data type and restrictions	Remarks
				<FlexeInstance> <Chassis></Chassis> <Slot></Slot> <Subslot></Subslot> <ConfigMode></ConfigMode> <FlexeGroups> <FlexeGroup> <GroupID></GroupID> <BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<PhyNo></PhyNo> </BindPhyInterface> </BindPhyInterfaces> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyIfIndex></PhyIfIndex> <TimeSlotList></TimeSlotList>

Column name	Column description	Column type	Data type and restrictions	Remarks
				</TimeSlot> </TimeSlots> </Client> </Clients> <ClientChannels> <ClientChannel> <ClientChannelID></ClientChannelID> <ClientConfigMode></ClientConfigMode> <Bandwidth></Bandwidth> <TimeSlots> <Time

Column name	Column description	Column type	Data type and restrictions	Remarks
				Slot> <PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> </Client>

Column name	Column description	Column type	Data type and restrictions	Remarks

				`</Clients>`
				`</ClientChannel>`
				`</ClientChannels>`
				`</FlexeGroup>`
				`</FlexeGroups>`
				`</FlexeInstance>`
				`</FlexeInstances>`
				`</Ifmgr>`

Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Column name	Column description	Column type	Data type and restrictions	Remarks

Columns

Colur name
Chass
Slot
Subsl
Config
FlexeG

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups

This table contains creating information of FlexE group interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML structure
				See the XML structure of FlexeInstance.
				Table description
				Item
				Featu
				Table
				Table
				Row r
				Restri
				Suppo
				Columns
				Colur name
				Group
				BindP aces
				Client
				Ifmgr/F

Column name	Column description	Column type	Data type and restrictions	Remarks
				lexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces
				This table contains binding information of FlexE group interfaces.
				XML structure
				See the XML structure of FlexeInstance.
				Table descripti

Column name	Column description	Column type	Data type and restrictions	Remarks
				on

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Columns

Colur name
PhyIfI
PhyNo

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeG

Column name	Column description	Column type	Data type and restrictions	Remarks
				roup/Clients
				This table contains Client configuration information.
				XML structure
				See the XML structure of FlexeInstance.
				Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Columns

Colur name
Client

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Ban in G			
TimeSlots	Tim			

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots

This table contains TimeSlot configuration information.

XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				structure See the XML structure of FlexeInstance.

Table description

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Columns

Colur name
PhyIn
TimeS

Ifmgr/FlexeIns

Column name	Column description	Column type	Data type and restrictions	Remarks
				tances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels This table contains Client Channel configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Featu

Column name	Column description	Column type	Data type and restrictions	Remarks

Table name
Table type
Row name
Restrictions
Support for row creat deletion

Columns

Colur name
Client IID
Client Mode
Bandv
TimeS
Client

Ifmgr/FlexeInstances/FlexeInstance/FlexeG

Column name	Column description	Column type	Data type and restrictions	Remarks
				roups/FlexeGroup/ChannelClients/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure of FlexeInstance. Table description

Item
Featu
Table
Table
Row r

Column name	Column description	Column type	Data type and restrictions	Remarks

Restrictions
Support for row creat deletion

Columns

Colur name
PhyInt
TimeS

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients

This table contains

Column name	Column description	Column type	Data type and restrictions	Remarks
				Client configuration information.
				XML structure
				See the XML structure of FlexeInstance.
				Table description
				Item
				Featu
				Table
				Table
				Row r
				Restri
				Suppo deletio
				Columns
				Colur name
				Client
				Bandv

Column name	Column description	Column type	Data type and restrictions	Remarks
SubTimeSlotList	Sub			

Ifmgr/ShutdownAllPhyIf

This table is used to shut down all physical interfaces.

XML structure

```
<Ifmgr>

<ShutdownAllPhyIf>

<Shutdown>
</Shutdown>

</ShutdownAllPhyIf>
</Ifmgr>
```

Column name	Column description	Column type	Data type and restrictions	Remarks
				Table description
				Item Featu Table Table Row r Restri Suppo deletio
				Columns
				Colur name Shutd
				Ifmgr/FlexeFgInterfaces
				This table contains FlexeFg interface information.
				XML structure

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Ifmgr> <FlexeFgInterfaces> <FlexeFgInterface> <IfName></IfName> <ConfigMode></ConfigMode> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> <Client>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Clie nts> </Fle xEFGI nterf ace> </Fle xEFGI nterf aces> </Ifm gr>

Table descripti on

Item
Featu
Table
Table
Row r
Restri
Suppo deletio

Columns

Colur name
IfNam
Config
Client

Column name	Column description	Column type	Data type and restrictions	Remarks

Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeFgInterface.

Table description

Item
Featu
Table
Table

Column name	Column description	Column type	Data type and restrictions	Remarks

Row name
Restrictions
Support for row creat deletion

Columns

Colur name
Client
Bandv
SubTi List

Ifmgr/LinkFlap

This table is used to enable link flapping protection globally.

XML structure

```
<Ifmgr>

<LinkFlap>

<Enable></Enabl
```

Column name	Column description	Column type	Data type and restrictions	Remarks
				e> <Batch></Batch> <Interval></Interval> <Threshold></Threshold> </LinkFlap> </Ifmgr>

Table description

Item
Featu
Table
Table
Restri
Suppo deletio

Columns

Colum name
Enabl
Batch

Column name	Column description	Column type	Data type and restrictions	Remarks
				prot glob all i
				Interval: Spe link det inte sec
				Threshold: Spe link det thre
				Appendix"
CreateMode	The mode of creating sub channel.	Index	Enumeration: • 1—serial-set • 2—eth-channel	N/A
ChannelNum	Sub channel number.	Index	Unsigned integer	N/A

Ifmgr/NewSubInterfaces

This table contains creating information of sub-interfaces.

XML structure

```
<Ifmgr>
  <NewSubInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SubNum></SubNum>
      <SubIfIndex></SubIfIndex>
    </Interface>
  </NewSubInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr

Table name	NewSubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the main interface. Some versions support interface name. For relevant information, see the XSD document of your product.For information about the string type, see " SubIfIndex Ifmgr/ShutdownInterval This table contains the shutdown recovery interval for ports. XML structure <Ifmgr> <ShutdownInterval> <Interval></Interval> </Shutdow

Column name	Column description	Column type	Data type and restrictions	Remarks

				`nInterval>`
				`</Ifmgr>`
				
				Table description
				
				Item
				Feature na
				Table nam
				Table type
				Restrictior
				Support fo
				
				Columns
				
				Column name
				Interval
				
				Ifmgr/FlexeInstances
				
				This table contains FlexeInstance interface information.
				
				XML structure
				
				`<Ifmgr>`
				
				`<FlexeInstances>`

Column name	Column description	Column type	Data type and restrictions	Remarks
				<FlexeInstance> <Chassis></Chassis> <Slot></Slot> <Subslot></Subslot> <ConfigMode></ConfigMode> <FlexeGroups> <FlexeGroup> <GroupID></GroupID> <BindPhyInterfaces> <BindPhyInterface> <PhyIfIndex></PhyIfIndex> <PhyNo></PhyNo> </BindPhyInterface> </BindPhyInterfaces> <Clients>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Client> <ClientID> </Client ID> <Bandwidt h></Bandw idth> <TimeSlot s> <TimeSlot > <PhyIfInd ex></PhyI fIndex> <TimeSlot List></Ti meSlotLis t> </TimeSlo t> </TimeSlo ts> </Client> </Clients > <ClientCh annels> <ClientCh annel> <ClientCh annelID> </ClientCh annelID> <ClientCo nfigMode> </ClientC

Column name	Column description	Column type	Data type and restrictions	Remarks
				onfigMode >\ <Bandwidth></Bandwidth> <TimeSlots> <TimeSlot> <PhyInterface></PhyInterface> <TimeSlotList></TimeSlotList> </TimeSlot> </TimeSlots> <Clients> <Client> <ClientID></ClientID> <Bandwidth></Bandwidth> <SubTimeSlotList></SubTimeSlotList> </Client> </Clients>

Column name	Column description	Column type	Data type and restrictions	Remarks

				`</ClientChannel>`
				
				`</ClientChannels>`
				
				`</FlexeGroup>`
				
				`</FlexeGroups>`
				
				`</FlexeInstance>`
				
				`</FlexeInstances>`
				`</Ifmgr>`
				
				Table description
				
				Item
				Feature na
				Table nam
				Table type
				Row name
				Restrictior
				Support fo deletion
				
				Columns
				
				Column name
				Chassis
				Slot
				Subslot
				ConfigMod

Column name	Column description	Column type	Data type and restrictions	Remarks
				FlexeGroups
				FlexE gr interface

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups

This table contains creating information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item
Feature na
Table nam
Table type
Row name

Column name	Column description	Column type	Data type and restrictions	Remarks
				Restrictions Support for row creation a Columns Column name GroupID BindPhyInaces Clients Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces This table contains binding information of FlexE group interfaces. XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name PhyIfIndex PhyNo Ifmgr/FlexeInstan

Column name	Column description	Column type	Data type and restrictions	Remarks
				ces/FlexeInstance/FlexeGroups/FlexeGroup/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots This table contains TimeSlot configuration information. XML structure See the XML structure

Column name		Column descript
ClientID		FlexE Cl
Bandwidth		Bandwid in Gbps
TimeSlots		TimeSlo

Column name	Column description	Column type	Data type and restrictions	Remarks
				of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name PhyIndex TimeSlotL Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/Fle

Column name	Column description	Column type	Data type and restrictions	Remarks
				xeGroup/ClientChannels This table contains ClientChannel configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name ClientChar IID ClientCon Mode

Column name	Column description	Column type	Data type and restrictions	Remarks
				mode
				Bandwidth
				Bandwid in Gbps
				TimeSlots
				FlexE Ti config
				Clients
				FlexE ClientCh config
				Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots
				This table contains TimeSlot configuration information.
				XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name PhyInterfa TimeSlotL Ifmgr/FlexeInstances/FlexeInstanc

Column name	Column description	Column type	Data type and restrictions	Remarks
				e/FlexeGroups/FlexeGroup/Channel Clients/Clients This table contains Client configuration information. XML structure See the XML structure of FlexeInstance. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns

Column name	Column description	Column type	Data type and restrictions	Remarks

Column name		Column descript
ClientID		FlexE ClientCh Client ID
Bandwidth		Bandwid in Gbps
SubTimeSlot List		SubTime

Ifmgr/ShutdownAllPhyIf

This table is used to shut down all physical interfaces.

XML structure

```
<Ifmgr>

<ShutdownAllPhyIf>

<Shutdown></Shutdown>

</ShutdownAllPhyIf>
</Ifmgr>
```

Column name	Column description	Column type	Data type and restrictions	Remarks

				Table description
				Item
				Feature na
				Table nam
				Table type
				Row name
				Restrictior
				Support fo deletion
				Columns
				Column name
				Shutdown
				Ifmgr/FlexeFgInterfaces
				This table contains FlexeFg interface informatio n.
				XML structure
				`<Ifmgr>`
				`<FlexeFgInterfaces>`
				`<FlexeFgI`

Column name	Column description	Column type	Data type and restrictions	Remarks
				nterface> <IfName>< /IfName> <ConfigMo de></Conf igMode> <Clients> <Client> <ClientID ></Client ID> <Bandwidt h></Bandw idth> <SubTimeS lotList>< /SubTimeS lotList> <Client> <Clients> </FlexEFG Interface > </FlexEFG Interface s> </Ifmgr> Table description Item Feature na Table nam Table type Row name

Column name	Column description	Column type	Data type and restrictions	Remarks
				Restrictions Support for row creation and deletion Columns Column name IfName ConfigMod Clients Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients This table contains Client configuration information. XML structure See the XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				structure of FlexeFgInterface. Table description Item Feature na Table nam Table type Row name Restrictior Support fo deletion Columns Column name ClientID Bandwidth SubTimeS List Ifmgr/LinkFlap This table is used to enable link flapping protection globally. XML structure

Column name	Column description	Column type	Data type and restrictions	Remarks
				<Ifmgr> <LinkFlap> <Enable></Enable> <Batch></Batch> <Interval></Interval> <Threshold></Threshold> </LinkFlap> </Ifmgr> Table description Item Feature na Table nam Table type Restrictior Support fo deletion Columns Column name Enable Batch

Column name	Column description	Column type	Data type and restrictions	Remarks
				Interval Specifie link flap detectio interval seconds Threshold Specifie link flap detectio thresho Appendix"
SubNum	Sub-interface number.	Index	Unsigned integer	The range for SubNum is shown in table of InterfaceCapabilities in Ifmgr NETCONF XML API Data Reference.
SubIfIndex	Sub-interface index	N/A	Unsigned integer	Interface index of the sub-interface.

Ifmgr/ShutdownInterval

This table contains the shutdown recovery interval for ports.

XML structure

```
<Ifmgr>
  <ShutdownInterval>
    <Interval></Interval>
  </ShutdownInterval>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ShutdownInterval
Table type	Single-instance table
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Shutdown recovery interval in seconds	N/A	Unsigned integer. Value range: 0 to 300.	N/A

Ifmgr/FlexeInstances

This table contains FlexeInstance interface information.

XML structure

```
<Ifmgr>
  <FlexeInstances>
    <FlexeInstance>
      <Chassis></Chassis>
      <Slot></Slot>
      <Subslot></Subslot>
      <ConfigMode></ConfigMode>
      <FlexeGroups>
        <FlexeGroup>
          <GroupID></GroupID>
          <BindPhyInterfaces>
             <BindPhyInterface>
               <PhyIfIndex></PhyIfIndex>
               <PhyNo></PhyNo>
             </BindPhyInterface>
          </BindPhyInterfaces>
          <Clients>
            <Client>
              <ClientID></ClientID>
              <Bandwidth></Bandwidth>
              <TimeSlots>
                <TimeSlot>
                  <PhyIfIndex></PhyIfIndex>
                  <TimeSlotList></TimeSlotList>
                </TimeSlot>
              </TimeSlots>
            </Client>
          </Clients>
          <ClientChannels>
           <ClientChannel>
             <ClientChannelID></ClientChannelID>
             <ClientConfigMode></ClientConfigMode>
             <Bandwidth></Bandwidth>
             <TimeSlots>
```

```
            <TimeSlot>
              <PhyInterface></PhyInterface>
              <TimeSlotList></TimeSlotList>
            </TimeSlot>
          </TimeSlots>
          <Clients>
            <Client>
              <ClientID></ClientID>
               <Bandwidth></Bandwidth>
               <SubTimeSlotList></SubTimeSlotList>
             </Client>
           </Clients>
         </ClientChannel>
       </ClientChannels>
     </FlexeGroup>
   </FlexeGroups>
  </FlexeInstance>
 </FlexeInstances>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeInstances
Table type	Multi-instance table
Row name	FlexeInstance
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	
Subslot	SubSlot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	
ConfigMode	Bandwidth configuration mode	N/A	Enumeration: • 1—Bandwidth. • 2—TimeSlot.	If the Client ID is already configured under the Flexe-Group interface, the FlexE interface configmode

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot be modified.
FlexeGroups	FlexE group interfaces	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups

This table contains creating information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeGroups
Table type	Multi-instance table
Row name	FlexeGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Group ID	Index	Unsigned integer. Value range: 1 to 1048573.	
BindPhyInterfaces	FlexE Physical interface config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/BindPhyInterfaces table
Clients	FlexE client config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/Clients table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces

This table contains binding information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	BindPhyInterfaces
Table type	Multi-instance table
Row name	BindPhyInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyIfIndex	FlexE Phisycal Interface index.	Index	Unsigned integer	For information about the string type, see "错误!书签自引用无效。". Some versions support interface name. For relevant information, see the XSD document of your product.For information about the string type, see "错误!书签自引用无效。"
PhyNo	PHY number for the FlexE physical interface	N/A	Unsigned integer. Value range: 1 to 254.	

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE Client ID	Index	Unsigned integer. Value range: 1 to 65534.	If you replace the Client, you must carry the ConfigMode.
Bandwidth	Bandwidth value in Gbps	N/A	Unsigned integer. Value range:5 to 4194303 (in steps of 5)	
TimeSlots	TimeSlots	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/Clients/TimeSlots table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients/Client/TimeSlots

This table contains TimeSlot configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr

Table name	TimeSlots
Table type	Multi-instance table
Row name	TimeSlot
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyIndex	FlexE Phisycal Interface index.	Index	Unsigned integer	For information about the string type, see "错误!书签自引用无效。". Some versions support interface name. For relevant information, see the XSD document of your product.For information about the string type, see "错误!书签自引用无效。"
TimeSlotList	TimeSlot list	N/A	TimeSlots, separated by commas(,) or hyphens (-)	

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ClientChannels

This table contains ClientChannel configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	ClientChannels
Table type	Multi-instance table
Row name	ClientChannel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientChannelID	FlexE Client Channel ID.	Index	Unsigned integer	
ClientConfigMode	Bandwidth configuration mode	NA	Enumeration: • 1—Bandwidth. • 2—TimeSlot.	If the Client ID is already configured in the ChannelClients, the ClientConfigMode cannot be modified.如果ChannelClients表创建了Client，则ClientConfigMode不能被修改
Bandwidth	Bandwidth value in Gbps	N/A	Unsigned integer. Value range:10 to 4194303 (in steps of 10)	
TimeSlots	FlexE TimeSlot config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/ClientsChannels/TimeSlots table
Clients	FlexE ClientChannel config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/ClientsChannels/clients table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots

This table contains TimeSlot configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	TimeSlots
Table type	Multi-instance table
Row name	TimeSlot
Restrictions	None
Support for row creation and	Yes

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyInterface	FlexE Phisycal Interface index.	Index	Unsigned integer	For information about the string type, see "错误!书签自引用无效。". Some versions support interface name. For relevant information, see the XSD document of your product.For information about the string type, see "错误!书签自引用无效。"
TimeSlotList	TimeSlot list	N/A	TimeSlots, separated by commas(,) or hyphens (-)	

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE ClientChannel	Index	Unsigned integer. Value range: 1 to 65534.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	Client ID			
Bandwidth	Bandwidth value in Gbps	N/A	Unsigned integer. Value range:10 to 4194303 (in steps of 10)	Only the ClientConfigMode is bandwidth, this column can be configured，只有ClientConfigMode配置为bandwidth时，此节点可以配置
SubTimeSlot List	SubTimeSlot list	N/A	SubTimeSlots, separated by commas(,) or hyphens (-)	Only the ClientConfigMode is timeslot, this column can be configured。只有ClientConfigMode配置为timeslot时，此节点可以配置

Ifmgr/ShutdownAllPhyIf

This table is used to shut down all physical interfaces.

XML structure

```
<Ifmgr>
  <ShutdownAllPhyIf>
    <Shutdown></Shutdown>
  </ShutdownAllPhyIf>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ShutdownAllPhyIf
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Shutdown	Shut down all physical	N/A	Boolean: • true—shutdown	

Column name	Column description	Column type	Data type and restrictions	Remarks
	interfaces		• false—undo shutdown	

Ifmgr/FlexeFgInterfaces

This table contains FlexeFg interface information.

XML structure

```
<Ifmgr>
  <FlexeFgInterfaces>
    <FlexeFgInterface>
      <IfName></IfName>
      <ConfigMode></ConfigMode>
      <Clients>
        <Client>
         <ClientID></ClientID>
         <Bandwidth></Bandwidth>
         <SubTimeSlotList></SubTimeSlotList>
         <Client>
        <Clients>
    </FlexEFGInterface>
  </FlexEFGInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeFgInterfaces
Table type	Multi-instance table
Row name	FlexeFgInterface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: FlexE-FG10G2/0/2	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigMode	Bandwidth configuration mode	N/A	Enumeration: • 1—Bandwidth. • 2—Sub-timeslot.	If the Client ID is already configured, the FlexE Fg interface configmode cannot be modified.
Clients	FlexE Fg client config	Subtable	N/A	For more information, see the Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients

Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeFgInterface.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE Fg Client ID	Index	Unsigned integer. Value range: 1 to 65534.	If you replace the Client, you must carry the ConfigMode.
Bandwidth	Bandwidth value in Mbps	N/A	Unsigned integer. Value range:10 to 4194303 (in steps of 10)	
SubTimeSlot List	SubTimeSlotList	N/A	TimeSlots, separated by commas(,) or hyphens (-)	

Ifmgr/LinkFlap

This table is used to enable link flapping protection globally.

XML structure

```
<Ifmgr>
  <LinkFlap>
    <Enable></Enable>
    <Batch></Batch>
    <Interval></Interval>
    <Threshold></Threshold>
  </LinkFlap>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	LinkFlap
Table type	Single-instance table
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable link flapping protection globally	N/A	Boolean: • true—enable • false—disable	
Batch	Enable link flapping protection both globally and on all interfaces	N/A	Boolean: • true—enable • false—disable	
Interval	Specifies the link flapping detection interval in seconds	N/A	Unsigned integer. Value range: 5 to 86400. Default: 10	
Threshold	Specifies the link flapping detection threshold	N/A	Unsigned integer. Value range: 2 to 1200. Default: 5	

Appendix

A string can contain multiple items that are separated by commas (,). An item can be in one of the following formats:

- *interface name*
- *interface range-name*
- *interface name A to interface name B*

When you use an item in the *interface name* format, follow these restrictions and guidelines:

- Spaces are not allowed between the interface type and interface number.

  Example:

  Correct: GigabitEthernet1/3/0/1

  Incorrect: GigabitEthernet 1/3/0/1

- If the interface name is the same as an existing interface range name, the system sends the request to interfaces in the interface range rather than the interface.

  Example:

  If you have configured the **interface range name** *Ten-Giga1/2/0/1* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1** as an item, the system sends the request to interfaces in the interface range named **Ten-Giga1/2/0/1**.

- If the interface range name is the same as an existing interface index, the system sends the request to the interface rather than interfaces in the interface range.

  Example:

  If you have configured the **interface range name** *111* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use *111* as an item, the system sends the request to the interface *GigabitEthernet1/2/0/2*.

  Note: the index of **interface** *GigabitEthernet1/2/0/2* is 111.

When you use an item in the *interface range name* format, follow these restrictions and guidelines:

- If the interface range name is in the *interface name A,interface name B* format, the system sends the request to interface A and interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1,Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1,Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 and Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

- If the interface range name is in the *interface name A* to *interface name B* format, the system sends the request to interfaces interface A through interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 through Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

When you use an item in the *interface name A to interface name B* format, follow these restrictions and guidelines:

- The interfaces before and after the word **to** must be of the same type and reside on the same card and sub-card.
- If the interfaces are subinterfaces, they must also belong to the same main interface.
- The end interface number must be larger than the start interface number.

Example:

Incorrect:

Ten2/0/1 to Ten3/0/2 The start and end interfaces reside on different cards.

Ten2/0/1 to Ten2/1/2 The start and end interfaces reside on different sub-cards.

Ten2/0/1 to Ten2/0/1:3 The start and end interfaces are of different types.

Giga2/0/1 to Ten2/0/25 The start and end interfaces are of different types.

Ten2/0/3:1 to Ten2/0/4:2 The start and end subinterfaces belong to different main interfaces.

Ten2/0/3:4 to Ten2/0/3:1 The start interface number is larger than the end interface number.

Correct:

Ten2/0/1 to Ten2/0/5

Ten2/0/1:1 to Ten2/0/1:100

Contents

Ifmgr 1

Ifmgr/Interfaces 1
XML structure 1
Table description 2
Columns 2
Ifmgr/TrafficStatistics/Interfaces 12
XML structure 12
Table description 13
Columns 13
Ifmgr/TrafficStatistics/Interval 14
XML structure 14
Table description 14
Columns 14
Ifmgr/Statistics 15
XML structure 15
Table description 15
Columns 16
Ifmgr/Ports 17
XML structure 17
Table description 18
Columns 18
Ifmgr/InterfaceCapabilities 18
XML structure 18
Table description 19
Columns 19
Ifmgr/TypeCapabilities 22
XML structure 22
Table description 23
Columns 23
Ifmgr/EthInterfaces 24
XML structure 24
Table description 25
Columns 25
Ifmgr/EthInterfaceCapabilities 28
XML structure 28
Table description 29
Columns 29
Ifmgr/StormConstrain/Interfaces 30
XML structure 30
Table description 31
Columns 31
Ifmgr/StormConstrain/Interval 34
XML structure 34
Table description 35
Columns 35
Ifmgr/StormConstrain/WhiteProtocol 35
XML structure 35
Table description 35
Columns 36
Ifmgr/PortIsolation/Groups 36
XML structure 36
Table description 36
Columns 37
Ifmgr/PortIsolation/Interfaces 37
XML structure 37
Table description 37
Columns 38

Ifmgr/PortIsolation/Capabilities ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 39
Ifmgr/DeviceCapabilities ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 39
Ifmgr/ReserveVlanInterface ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
Ifmgr/SubChannel ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 42
Ifmgr/CellularChannel ····· 42
XML structure ····· 42
Table description ····· 43
Columns ····· 43
Ifmgr/NewSubInterfaces ····· 43
XML structure ····· 43
Table description ····· 44
Columns ····· 44
Ifmgr/EthPortStatistics ····· 44
XML structure ····· 44
Table description ····· 46
Columns ····· 46
Ifmgr/IfHistoryTrafficStatistics ····· 50
XML structure ····· 50
Table description ····· 51
Columns ····· 51
Ifmgr/AllHistoryTrafficStatistics ····· 52
XML structure ····· 52
Table description ····· 52
Columns ····· 52
Ifmgr/ShutdownInterval ····· 53
XML structure ····· 53
Table description ····· 53
Columns ····· 53
Ifmgr/IfRateStatistics ····· 53
XML structure ····· 53
Table description ····· 54
Columns ····· 54
Ifmgr/IfPacketDropStatistics ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
Ifmgr/GlobalPacketDropStatistics ····· 57
XML structure ····· 57
Table description ····· 57
Columns ····· 57
Ifmgr/DevicePortInfo/Interfaces ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 59
Ifmgr/DataBuffer/IfBuffer ····· 59
XML structure ····· 59
Table description ····· 60
Columns ····· 60
Ifmgr/FlexeInstances ····· 60
XML structure ····· 60

Table description 62
Columns 62
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups 62
XML structure 62
Table description 62
Columns 63
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces 63
XML structure 63
Table description 63
Columns 64
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients 64
XML structure 64
Table description 64
Columns 65
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots 65
XML structure 65
Table description 65
Columns 66
Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients 66
XML structure 66
Table description 66
Columns 66
Ifmgr/InterfaceTrafficPeak 67
XML structure 67
Table description 68
Columns 68
Ifmgr/InterfaceTrafficPeak/Interface/InBitRatePeaks 68
XML structure 68
Table description 69
Columns 69
Ifmgr/InterfaceTrafficPeak/Interface/OutBitRatePeaks 69
XML structure 69
Table description 69
Columns 70
Ifmgr/InterfaceTrafficPeak/Interface/InPacketRatePeaks 70
XML structure 70
Table description 70
Columns 70
Ifmgr/InterfaceTrafficPeak/Interface/OutPacketRatePeaks 71
XML structure 71
Table description 71
Columns 71
Ifmgr/ShutdownAllPhyIf 72
XML structure 72
Table description 72
Columns 72
Ifmgr/Suppression 72
XML structure 72
Table description 73
Columns 73
Ifmgr/Suppression/Interface/BroadcastSuppression 74
XML structure 74
Table description 74
Columns 74
Ifmgr/Suppression/Interface/MulticastSuppression 75
XML structure 75
Table description 75
Columns 75
Ifmgr/Suppression/Interface/UnknownUnicastSuppression 76
XML structure 76
Table description 76
Columns 76

Ifmgr/Suppression/Interface/KnownUnicastSuppression ····· 77
XML structure ····· 77
Table description ····· 77
Columns ····· 77
Ifmgr/FlexeFgInterfaces ····· 78
XML structure ····· 78
Table description ····· 78
Columns ····· 79
Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients ····· 79
XML structure ····· 79
Table description ····· 79
Columns ····· 80
Ifmgr/LinkFlap ····· 80
XML structure ····· 80
Table description ····· 80
Columns ····· 80

Ifmgr

Ifmgr/Interfaces

This table contains basic interface information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <AbbreviatedName></AbbreviatedName>
      <PortIndex></PortIndex>
      <ifTypeExt></ifTypeExt>
      <ifType></ifType>
      <Description></Description>
      <AdminStatus></AdminStatus>
      <OperStatus></OperStatus>
      <ConfigSpeed></ConfigSpeed>
      <ActualSpeed></ActualSpeed>
      <ConfigDuplex></ConfigDuplex>
      <ActualDuplex></ActualDuplex>
      <PortLayer></PortLayer>
      <LinkType></LinkType>
      <PVID></PVID>
      <InetAddressIPV4></InetAddressIPV4>
      <InetAddressIPV4Mask></InetAddressIPV4Mask>
      <PhysicalIndex></PhysicalIndex>
      <MAC></MAC>
      <ForwardingAttributes></ForwardingAttributes>
      <Loopback></Loopback>
      <MDI></MDI>
      <ConfigMTU></ConfigMTU>
      <ActualMTU></ActualMTU>
      <ConfigBandwidth></ConfigBandwidth>
      <ActualBandwidth></ActualBandwidth>
      <SubPort></SubPort>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <Actual64Bandwidth></Actual64Bandwidth>
      <KeepAlive></KeepAlive>
      <KeepAliveRetry></KeepAliveRetry>
      <DefaultMac></DefaultMac>
      <LastChange></LastChange>
```

```
      <PhyLastChange></PhyLastChange>
      <TrafficStatisticsEnable></TrafficStatisticsEnable>
      <SubIfRateStatisticsEnable></SubIfRateStatisticsEnable>
      <Ipv4ProtocolStatus></Ipv4ProtocolStatus>
      <Ipv6ProtocolStatus></Ipv6ProtocolStatus>
      <LinkDelay>
        <UpTime></UpTime>
        <DownTime></DownTime>
      </LinkDelay>
      <ServiceSlot>
        <Chassis></Chassis>
        <Slot></Slot>
        <Cpu></Cpu>
      </ServiceSlot>
      <ServiceStandbySlot>
        <Chassis></Chassis>
        <Slot></Slot>
        <Cpu></Cpu>
      </ServiceStandbySlot>
      <PhyStatus></PhyStatus>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
AbbreviatedName	Abbreviated name of an interface	N/A	String. Length: 2 to 47 characters. Example: GE2/0/2	N/A
PortIndex	Port index	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ifTypeExt	Interface extension type	N/A	Unsigned integer.	For more information, see Table 2.
ifType	Interface type	N/A	Unsigned integer.	Additional values for ifType are assigned by the Internet Assigned Numbers Authority (IANA), through updating the syntax of the IANA ifType textual convention.
Description	Interface description	N/A	String. Length: 1 to 255 characters.	N/A
AdminStatus	Interface administration status	N/A	Enumeration: • **1**—Administratively up. • **2**—Administratively down.	N/A
OperStatus	Interface operation status	N/A	Enumeration: • **1**—up. • **2**—down. • **3**—testing. • **4**—unknown. • **5**—dormant. • **6**—notPresent. • **7**—lowerLayerDown.	For more information, see 0.
ConfigSpeed	Configured speed of an interface, in kbps	N/A	• Each bit represents a speed • As follows: • 1—Auto • 2—10Mbps • 4—100Mbps • 8—155Mbps • 16—622Mbps • 32—1Gbps • 64—2Gbps • 128—2.5Gbps	Examples: • 32—Speed is 1000Mbps. • 37—Auto-negotiation mode, and negotiation values are 100Mbps and 1000Mbps.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 256—4Gbps • 512—8Gbps • 1024—10Gbps • 2048—16Gbps • 4096—20Gbps • 8192—40Gbps • 16384—100Gbps • 32768—5Gbps • 65536—25Gbps • 131072—32Gbps • 262144—50Gbps • 524288—200Gbps • 1048576—400Gbps	
ActualSpeed	Actual speed of an interface, in kbps	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	Applicable to only Ethernet interfaces.
ConfigDuplex	Configured duplex mode of an interface	N/A	Enumeration: • **1**—Full. • **2**—Half. • **3**—Auto.	Applicable to only Ethernet interfaces.
ActualDuplex	Actual duplex mode of an interface	N/A	Enumeration: • **1**—Full. • **2**—Half. • **3**—Auto.	Applicable to only Ethernet interfaces.
PortLayer	Port layer of an interface	N/A	Enumeration: • **1**— Layer 2 • **2—**Layer 3	N/A
LinkType	VLAN type of an interface	N/A	Enumeration: • **1**—Access. • **2**—Trunk. • **3**—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
InetAddressIPV4	Primary IPv4 address of an interface	N/A	String, dotted decimal notation.	N/A
InetAddressIPV4Mask	Primary IPv4 address mask of an interface	N/A	String, dotted decimal notation.	N/A
PhysicalIndex	Entity index of an interface	N/A	Unsigned integer.	Applicable to only Physical interfaces.
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A.
ForwardingAttributes	Forwarding attributes of an interface	N/A	Bit mask: • 1: Broadcast • 2: Non-Broadcast Multi-Access	Applicable to only Layer 3 interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4:Loopback • 8:P2P • 16:Multicast • 32: Network Management Interface	
Loopback	Loopback test	N/A	Enumeration: • **0**—No loopback • **1**—Internal • **2**—External	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: • **1**—MDI-II (crossover cable) • **2**—MDI-X (straight-through cable) • 3—MDI-AUTO (auto-sensing)	Applicable to only Layer 2 Ethernet interfaces.
ConfigMTU	Configured MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ActualMTU	Actual MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ConfigBandwidth	Configured expected bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A
ActualBandwidth	Bandwidth of an interface	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	If the expected bandwidth has been configured, this field displays the configured expected bandwidth. Otherwise, this field displays the actual bandwidth.
SubPort	Whether the port is sub-interface.	N/A	Boolean: • true • false	N/A
Interval	Sampling interval of an interface	N/A	Unsigned integer. Value range: 5 to 300, in seconds, in step of 5	N/A
ForceUP	Forcibly bring up an interface.	N/A	Boolean: • **true** • **false**	Applicable to only Ethernet and POS interfaces.
Actual64Bandwidth	Bandwidth of an interface	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the expected bandwidth has been configured, this field displays the configured expected bandwidth. Otherwise, this field displays the actual bandwidth.

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAlive	KeepAlive value of an interface	N/A	Unsigned integer. Value range: 0 to 32767.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
KeepAliveRetry	KeepAlive retry times of an interface	N/A	Unsigned integer. Value range: 1 to 255.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
DefaultMac	Default MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
LastChange	From last state change time to now.	N/A	String.	N/A
PhyLastChange	From last physical state change time to now.	N/A	String.	N/A
TrafficStatisticsEnable	Enable interface statistics collection.	N/A	Enumeration: • enable • disable	Applicable to only Layer 3 subinterfaces.
SubIfRateStatisticsEnable	Enable rate statistics collection for the subinterfaces of an interface	N/A	Enumeration: • enable • disable	Applicable to only main interface and POS channels.
Ipv4ProtocolStatus	Ipv4 Protocol State	N/A	Enumeration: • **0**—down • **1**—up	Only Layer 3 interfaces are supported.
Ipv6ProtocolStatus	Ipv6 Protocol State	N/A	Enumeration: • **0**—down • **1**—up	Only Layer 3 interfaces are supported.
LinkDelay	Physical state change suppression configuration of an interface.	N/A	Include: • UpTime • DownTime	
UpTime	Configured link-up event suppression interval of an interface.	N/A	Unsigned integer. Value range: 0 to 30000, in milliseconds.	
DownTime	Configured link-down event suppression interval of an interface.	N/A	Unsigned integer. Value range: 0 to 30000, in milliseconds.	
ServiceSlot	Primary traffic	N/A	Include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	processing slot ID		• Chassis • Slot • Cpu	
Chassis	ID of the IRF member device where the entity resides.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range:0 to 65535.	N/A
Cpu	CPU ID	N/A	Unsigned integer. Value range:0 to 65535.	N/A
ServiceStandbySlot	Backup traffic processing slot ID	N/A	Include: • Chassis • Slot • Cpu	N/A
Chassis	ID of the IRF member device where the entity resides	N/A	Unsigned integer. Value range:0 to 65535.	N/A
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range:0 to 65535.	N/A
Cpu	CPU ID	N/A	Unsigned integer. Value range:0 to 65535.	N/A
PhyStatus	Physical layer status	N/A	Enumeration: • **0**—down • **1**—up	N/A

Table 1 Interface operation status

Value	Operation status	Remarks
1	up	When the administration status of an interface changes to up, the operation status of the interface changes to up if the interface is ready to transmit and receive network traffic.
2	down	• When the administration status of an interface changes to up, the operation status of the interface remains in the down status if a fault prevents it from going to the up status. • When the administration status of an interface changes to down, the operation status of the interface changes to down.
3	testing	No operation packets can be transmitted or received through the interface.
4	unknown	The operation status of the interface cannot be determined.
5	dormant	When the administration status of an interface changes to up, the operation status of the interface changes to dormant if the interface is waiting for external actions (such as a serial line waiting for an incoming connection).
6	notPresent	When the administration status of an interface changes to up, the operation status of an interface remains in the notPresent status if the

Value	Operation status	Remarks
		interface has missing components (typically hardware).
7	lowerLayerDown	The lower-layer interfaces are down.

Table 2 Interface extension types

Value	Interface type	Description
0	IF_COMMON_TYPE	General interface.
1	IF_AM_TYPE	Analog modem interface.
2	IF_ASY_TYPE	Asynchronous serial port.
3	IF_IMA_TYPE	IMA interface.
4	IF_ATM_TYPE	ATM interface.
5	IF_AUX_TYPE	AUX interface.
6	IF_BRI_TYPE	ISDN BRI interface.
7	IF_BVI_TYPE	Bridge-group virtual interface.
8	IF_CONSOLE_TYPE	Console interface.
9	IF_CPOS_TYPE	CPOS interface.
10	IF_DIALER_TYPE	Dialer interface.
11	IF_LOCAL_VA_TYPE	Local VA interface, bound to a physical interface.
12	IF_E1_TYPE	E1 interface.
13	IF_E3_TYPE	E3 interface.
14	IF_INETH_TYPE	Internal Ethernet interface.
15	IF_INLOOPBACK_TYPE	Internal loopback interface.
16	IF_LOOPBACK_TYPE	Loopback interface.
17	IF_ENCRYPT_TYPE	Encryption interface.
18	IF_L2ETHERNET_TYPE	Layer 2 FE interface.
19	IF_L2GE_TYPE	Layer 2 GE interface.
20	IF_L2VE_TYPE	Layer 2 VE interface.
21	IF_L2XGE_TYPE	Layer 2 10-GE interface.
22	IF_L3ETHERNET_TYPE	Layer 3 FE interface.
23	IF_L3GE_TYPE	Layer 3 GE interface.
24	IF_L3VE_TYPE	Layer 3 VE interface.
25	IF_L3XGE_TYPE	Layer 3 10-GE interface.
26	IF_ME_TYPE	Management Ethernet interface.
27	IF_MFR_TYPE	MFR interface.
28	IF_MGE_TYPE	Management GE interface.
29	IF_MPGROUP_TYPE	MP-group interface.
30	IF_NULL_TYPE	Null interface.
31	IF_POS_TYPE	POS interface.

Value	Interface type	Description
32	IF_RPR_POS_TYPE	RPR POS physical interface.
33	IF_RPR_XGE_TYPE	RPR 10-GE physical interface.
34	IF_RPR_GE_TYPE	RPR GE physical interface.
35	IF_SERIAL_TYPE	Serial interface.
36	IF_SUBSCRIBER_LINE_TYPE	Subscriber line interface.
37	IF_T1_TYPE	T1 interface.
38	IF_T3_TYPE	T3 interface.
39	IF_TUNNEL_TYPE	Tunnel interface.
40	IF_GLOBAL_VA_TYPE	Global VA interface, bound to a global logical interface.
41	IF_VLAN_TYPE	VLAN interface.
42	IF_VT_TYPE	VT interface.
43	IF_RADIO_DOT11_TYPE	WLAN-Radio interface.
44	IF_WLAN_ESS_TYPE	WLAN ESS interface.
45	IF_WLAN_DBSS_TYPE	WLAN DBSS interface.
46	IF_WLAN_BSS_TYPE	WLAN BSS interface.
47	IF_WLAN_ETH_TYPE	WLAN Ethernet interface.
48	IF_WLAN_TUN_TYPE	WLAN tunnel interface.
49	IF_OLT_TYPE	OLT interface.
50	IF_ONU_TYPE	ONU interface.
51	IF_MTUNNEL_TYPE	M-Tunnel interface.
52	IF_CELLULAR_TYPE	Cellular interface.
53	IF_INASY_TYPE	Internal asynchronous serial interface.
54	IF_L2RPR_TYPE	Layer 2 RPR logical interface.
55	IF_L3RPR_TYPE	Layer 3 RPR logical interface.
56	IF_BAGG_TYPE	Layer 2 aggregate interface.
57	IF_REGISTER_TUNNEL_TYPE	Register-Tunnel interface.
58	IF_LOOPFE_TYPE	Loopback FE interface.
59	IF_LOOPGE_TYPE	Loopback GE interface.
60	IF_LOOPXGE_TYPE	Loopback 10-GE interface.
61	IF_MIRRORFE_TYPE	Mirroring FE interface.
62	IF_MIRRORGE_TYPE	Mirroring GE interface.
63	IF_MIRRORXGE_TYPE	Mirroring 10-GE interface.
64	IF_IDSFE_TYPE	IDS FE interface.
65	IF_IDSGE_TYPE	IDS GE interface.
66	IF_IDSXGE_TYPE	IDS 10-GE interface.
67	IF_RAGG_TYPE	Layer 3 aggregate interface.

Value	Interface type	Description
68	IF_L2FGE_TYPE	Layer 2 40-GE interface.
69	IF_L2HGE_TYPE	Layer 2 100-GE interface.
70	IF_L3FGE_TYPE	Layer 3 40-GE interface.
71	IF_L3HGE_TYPE	Layer 3 100-GE interface.
72	IF_LOOPFGE_TYPE	Loopback 40-GE interface.
73	IF_LOOPHGE_TYPE	Loopback 100-GE interface.
74	IF_MIRRORFGE_TYPE	Mirroring 40-GE interface.
75	IF_MIRRORHGE_TYPE	Mirroring 100-GE interface.
76	IF_IDSFGE_TYPE	IDS 40-GE interface.
77	IF_IDSHGE_TYPE	IDS 100-GE interface.
78	IF_FC_TYPE	FC interface.
79	IF_VFC_TYPE	VFC interface.
80	IF_FCB_TYPE	FC bundle interface.
81	IF_EVI_LINK_TYPE	EVI-link interface.
82	IF_SCHANNEL_TYPE	S-channel interface.
83	IF_FCM_TYPE	FCM interface.
84	IF_VPPP_TYPE	Virtual PPP interface.
85	IF_TRILL_REMOTE_TYPE	Remote TRILL interface.
86	IF_HDLCBUNDLE_TYPE	HDLC bundle interface.
87	IF_GSCHANNEL_TYPE	Aggregate S-channel interface.
88	IF_L2TGE_TYPE	Layer 2 20-GE interface.
89	IF_L3TGE_TYPE	Layer 3 20-GE interface.
90	IF_LOOPTGE_TYPE	Loopback 20-GE interface.
91	IF_MIRRORTGE_TYPE	Mirroring 20-GE interface.
92	IF_IDSTGE_TYPE	IDS 20-GE interface.
93	IF_AC_TYPE	AC interface.
94	IF_UPW_TYPE	U-PW interface.
95	IF_NPW_TYPE	N-PW interface.
96	IF_TUNNEL_BUNDLE_TYPE	Tunnel bundle interface.
97	IF_EFM_TYPE	EFM interface.
98	IF_MAPPED_TYPE	Mapped interface.
99	IF_CBGE_TYPE	CBGE interface.
100	IF_CBXGE_TYPE	CBXGE interface.
101	IF_CBFGE_TYPE	CBFGE interface.
102	IF_CBHGE_TYPE	CBHGE interface.
103	IF_PEX_TYPE	PEX interface.
104	IF_VE_L2VPN_TYPE	L2VPN virtual Ethernet interface

Value	Interface type	Description
105	IF_VE_L3VPN_TYPE	L3VPN virtual Ethernet interface
106	IF_BLADE_TYPE	Blade interface
107	IF_BLAGG_TYPE	Blade aggregation interface
108	IF_ETHCHANNEL_TYPE	EtherChannel interface
109	IF_BETH_TYPE	Beth interface
110	IF_RETH_TYPE	Reth interface
111	IF_VSI_TYPE	VSI interface
112	IF_CEM_TYPE	CEM interface
113	IF_INCOMM_TYPE	INCOMM interface
114	IF_SVPNAC_TYPE	SVPN-AC interface
115	IF_ LISP_TYPE	LISP interface
116	IF_L2RPRLOCAL_TYPE	Layer 2 RPR interface
117	IF_SCHANNEL_BUNDLE_TYPE	SCHANNEL BUNDLE interface
118	IF_WLAN_MESH_TYPE	WLAN Mesh interface
119	IF_WLAN_MESHLINK_TYPE	WLAN-MeshLink interface
120	IF_CMTUNNEL_TYPE	CMTunnel interface
121	IF_L2SGE_TYPE	Layer 2 SGE interface
122	IF_L3SGE_TYPE	Layer 3 SGE interface
123	IF_L2WGE_TYPE	Layer 2 WGE interface
124	IF_L3WGE_TYPE	Layer 3 WGE interface
125	IF_LOOPWGE_TYPE	LOOP WGE interface
126	IF_MIRRORWGE_TYPE	MIRROR WGE interface
127	IF_IDSWGE_TYPE	IDS WGE interface
129	IF_LOOPSGE_TYPE	LOOP SGE interface
130	IF_MIRRORSGE_TYPE	MIRROR SGE interface
131	IF_WTU_ETH_TYPE	WTU ETH interface
132	IF_LOCAL_BAS_IF_TYPE	LOCAL BAS interface
133	IF_GLOBAL_BAS_IF_TYPE	GLOBAL BAS interface
134	IF_L2VGE_TYPE	Layer 2 VGE interface
135	IF_L3VGE_TYPE	Layer 3 VGE interface
136	IF_LOOPVGE_TYPE	LOOP VGE interface
137	IF_MIRRORVGE_TYPE	MIRROR VGE interface
138	IF_IDSVGE_TYPE	IDS VGE interface
139	IF_L2VMETH_TYPE	Layer 2 VMETH interface
140	IF_LORA_RADIO_TYPE	LORA RADIO interface
141	IF_DWDM_TYPE	DWDM interface
142	IF_IDSSGE_TYPE	IDS SGE interface

Value	Interface type	Description
143	IF_L2_50GE_TYPE	Layer 2 50-GE interface.
144	IF_L3_50GE_TYPE	Layer 3 50-GE interface.
145	IF_MIRROR_50GE_TYPE	Mirroring 50-GE interface.
146	IF_LOOP_50GE_TYPE	Loopback 50-GE interface.
147	IF_IDS_50GE_TYPE	IDS 50-GE interface.
148	IF_L2_50_100GE_TYPE	Layer 2 Fifty-HundredGigE interface
149	IF_L3_50_100GE_TYPE	Layer 3 Fifty-HundredGigE interface
150	IF_MIRROR_50_100GE_TYPE	MIRROR Fifty-HundredGigE interface
151	IF_LOOP_50_100GE_TYPE	LOOP Fifty-HundredGigE interface
152	IF_IDS_50_100GE_TYPE	ID Fifty-HundredGigE interface
153	IF_FLEX_50GE_TYPE	FlexE-FiftyGig interface
154	IF_FLEX_HGE_TYPE	FlexE-HundredGig interface
155	IF_FLEX50_100GE_TYPE	FlexE-50-100G interface
156	IF_L2FLEXE_TYPE	Layer 2 FlexE interface.
157	IF_L3FLEXE_TYPE	Layer 3 FlexE interface.
160	IF_ROLT_TYPE	ROLT interface
161	IF_RONU_TYPE	RONU interface
166	IF_REMOTE_TYPE	Remote interface
167	IF_L2_400GE_TYPE	Layer 2 400-GE interface.
168	IF_L3_400GE_TYPE	Layer 3 400-GE interface.
169	IF_MIRROR_400GE_TYPE	Mirroring 400-GE interface.
170	IF_LOOP_400GE_TYPE	Loopback 400-GE interface.
171	IF_IDS_400GE_TYPE	IDS 400-GE interface.
172	IF_VSYS_TYPE	Vsys-interface
174	IF_FLEXE_GROUP_TYPE	FlexE-Group interface.
185	IF_LOCAL_VE_L2VPN_TYPE	Local L2VPN virtual Ethernet interface
186	IF_LOCAL_VE_L3VPN_TYPE	Local L3VPN virtual Ethernet interface
256	IF_MAX_TYPE	N/A

Ifmgr/TrafficStatistics/Interfaces

This table contains interface traffic statistics during specific sampling periods.

XML structure

```
<Ifmgr>
  <TrafficStatistics>
   <Interfaces>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <Interval></Interval>
      <InPkts></InPkts>
      <OutPkts></OutPkts>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
      <InBits></InBits>
      <OutBits></OutBits>
    </Interface>
   </Interfaces>
  </TrafficStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.
Interval	Sampling interval of an interface, in seconds	N/A	Unsigned integer. Value range: 5 to 300.
InPkts	Number of inbound packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPkts	Number of outbound packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InOctets	Number of inbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutOctets	Number of outbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
InBits	Number of inbound bits during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutBits	Number of outbound bits during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Ifmgr/TrafficStatistics/Interval

This table contains traffic sampling interval information of all interfaces.

XML structure

```
<Ifmgr>
  <TrafficStatistics>
    <Interval>
      <Configurable></Configurable>
      <Interval></Interval>
    </Interval>
  </TrafficStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Configurable	Whether the sampling interval for all interfaces can be configured.	N/A	Boolean: • **true** • **false**
Interval	Sampling interval of all interfaces, in seconds.	N/A	Unsigned integer. Value range: 5 to 300. It is valid only when “Configurable” above is true.

Ifmgr/Statistics

This table contains interface statistics.

XML structure

```
<Ifmgr>
  <Statistics>
   <Interface>
    <IfIndex></IfIndex>
    <Name></Name>
    <AbbreviatedName></AbbreviatedName>
    <InOctets></InOctets>
    <InUcastPkts></InUcastPkts>
    <InNUcastPkts></InNUcastPkts>
    <InDiscards></InDiscards>
    <InErrors></InErrors>
    <InUnknownProtos></InUnknownProtos>
    <InRate></InRate>
    <OutOctets></OutOctets>
    <OutUcastPkts></OutUcastPkts>
    <OutNUcastPkts></OutNUcastPkts>
    <OutDiscards></OutDiscards>
    <OutErrors></OutErrors>
    <OutRate></OutRate>
    <LastClear></LastClear>
    <InPktRate></InPktRate>
    <OutPktRate></OutPktRate>
    <InPkts></InPkts>    <OutPkts></OutPkts>
    <InBitRate></InBitRate>
    <OutBitRate></OutBitRate>
    <InRunts></InRunts>
    <OutRunts></OutRunts>
    <InGiants></InGiants>
    <OutGiants></OutGiants>
   </Interface>
  </Statistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Statistics
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	The statistics can be cleared.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
AbbreviatedName	Abbreviated name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GE2/0/2
InOctets	Number of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InUcastPkts	Number of inbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNUcastPkts	Number of inbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InDiscards	Number of discarded inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InErrors	Number of errored inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InUnknownProtos	Number of unsupported and unknown inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InRate	Rate of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutOctets	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutUcastPkts	Number of outbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNUcastPkts	Number of outbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutDiscards	Number of discarded outbound packets on an	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	interface.		Value range: 0 to 2^{64} - 1.
OutErrors	Number of errored outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutRate	Rate of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
LastClear	Local time when the statistics on an interface were cleared most recently.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
InPktRate	Rate of inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPktRate	Rate of outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InPkts	Number of inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPkts	Number of outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InBitRate	Number of inbound bits per second on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutBitRate	Number of outbound bits per second on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InRunts	Number of inbound runt packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutRunts	Number of outbound runt packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InGiants	Number of inbound giant packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutGiants	Number of outbound giant packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Ifmgr/Ports

This table contains port information, such as all physical Ethernet interfaces, Layer 2 aggregate interface, Layer 2 VE interface, Layer 2 RPR logical interface, WLAN ESS interface, WLAN BSS interface, WLAN DBSS interface, WLAN tunnel interface, S-channel interface, Aggregate S-channel interface and other logical interfaces which are not Layer 2 Ethernet subinterfaces.

XML structure

```
<Ifmgr>
  <Ports>
    <Port>
      <PortIndex></PortIndex>
      <Name></Name>
```

```
      <IfIndex></IfIndex>
    </Port>
  </Ports>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PortIndex	Port index	Index	Unsigned integer.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.
IfIndex	Interface index	N/A	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Ifmgr/InterfaceCapabilities

This table contains port capability information.

XML structure

```
<Ifmgr>
  <InterfaceCapabilities>
    <Interface>
      <IfIndex></IfIndex>
      <Configurable></Configurable>
      <Shutdown></Shutdown>
      <Speed></Speed>
      <AutoSpeed></AutoSpeed>
      <Duplex></Duplex>
      <PortLayer></PortLayer>
      <Loopback></Loopback>
```

```
      <MDI></MDI>
      <Bandwidth></Bandwidth>
      <MinMTU></MinMTU>
      <MaxMTU></MaxMTU>
      <MinSubNum></MinSubNum>
      <MaxSubNum></MaxSubNum>
      <MaxCreateSubNum></MaxCreateSubNum>
      <ContextAllocType></ContextAllocType>
      <Removable></Removable>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <LoopbackAutoStop></LoopbackAutoStop>
      <MAC></MAC>
      <TrafficStatisticsEnable></TrafficStatisticsEnable>
      <SubIfRateStatisticsEnable></SubIfRateStatisticsEnable>
      <IfName></IfName>
      <FlexECapability></FlexECapability>
      <FlexEFGCapability></FlexEFGCapability>
      <ServiceSlotCap></ServiceSlotCap>
      <ServiceStandbySlotCap></ServiceStandbySlotCap>
    </Interface>
  </InterfaceCapabilities>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	InterfaceCapabilities
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Configurable	Whether the interface is configurable.	N/A	Boolean: • **true** • **false**	N/A
Shutdown	Whether the interface can be shutdown manually.	N/A	Boolean: • **true** • **false**	N/A
Speed	Mode of speed which can be configured.	N/A	• Each bit represents a speed. • As follows: • 1—Auto • 2—10Mbps • 4—100Mbps • 8—155Mbps • 16—622Mbps • 32—1Gbps • 64—2Gbps • 128—2.5Gbps • 256—4Gbps • 512—8Gbps • 1024—10Gbps • 2048—16Gbps • 4096—20Gbps • 8192—40Gbps • 16384—100Gbps • 32768—5Gbps • 65536—25Gbps • 131072—32Gbps • 262144—50Gbps • 524288—200Gbps • 1048576—400Gbps	Example: 38 —Speed 10Mbps, 100Mbps, and 1Gbps are configurable.
AutoSpeed	Modes of auto-negotiation speed which can be configured.	N/A	Each bit represents a speed. As follows: • 1—10Mbps • 2—100Mbps • 4—1Gbps	Example: 6—auto-negotiation speed 100Mbps and 1Gbps are configurable.
Duplex	Modes of duplex which can be configured.	N/A	Each bit represents a kind of duplex mode. As follows: • 1— Full • 2—Half • 4—Auto	Applicable to only Ethernet interfaces. Example: 7—Duplex mode 'Full', 'Half' Auto 'Half' are configurable.
PortLayer	Whether the port layer can be changed.	N/A	Boolean: • **true** • **false**	Applicable to only Ethernet interfaces.
Loopback	Whether the loopback test	N/A	Boolean:	Applicable to only Ethernet interfaces

Column name	Column description	Column type	Data type and restrictions	Remarks
	can be configured.		• **true** • **false**	and AUX.
MDI	Types of MDI which can be configured.	N/A	Each bit represents a type of the line connected to the port. • 1: **mdi** (straight-through cable) • **2: mdix (crossover cable)** • **4: automdix (auto-sensing)**	Applicable to only Layer 2 Ethernet interfaces. Example: 7—'mdi', 'mdix' and 'automdix' are configurable.
Bandwidth	Whether the bandwidth can be configured.	N/A	Boolean: • **true** • **false**	N/A
MinMTU	The minimum MTU which can be configured.	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
MaxMTU	The maximum MTU which can be configured.	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
MinSubNum	Minimum sub-interface number.	N/A	Unsigned integer.	N/A
MaxSubNum	Maximum sub-interface number.	N/A	Unsigned integer.	N/A
MaxCreateSubNum	The total numbers of sub-interface which can be created.	N/A	Unsigned integer.	N/A
ContextAllocType	The allocation type of an interface for CONTEXT.	N/A	Each bit represents an allocation type. As follows: • 1—The allocation type is shared. • 2—The allocation type is exclusive.	Example: 3—The allocation types can be both shared and exclusive.
Removable	Whether the interface can be deleted.	N/A	Boolean: • true • false	N/A
Interval	Whether the sampling interval can be configured.	N/A	Boolean: • **true** • **false**	
ForceUP	Whether port force up can be configured.	N/A	Boolean: • **true** • **false**	Applicable to only Ethernet and POS interfaces.
LoopbackAutoStop	Whether the loopback detection can be	N/A	Boolean: • **true**	

Column name	Column description	Column type	Data type and restrictions	Remarks
	auto stop.		• **false**	
MAC	Whether MAC can be configured.	N/A	Boolean: • **true** • **false**	
TrafficStatisticsEnable	Whether interface statistics collection for interface can be configured.	N/A	Boolean: • **true** • **false**	
SubIfRateStatisticsEnable	Whether interface rate statistics collection for the subinterface of interface can be configured.	N/A	Boolean: • **true** • **false**	
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
FlexECapability	Whether the interface can be switched to a FlexE interface	N/A	Boolean: • **True** • **false**	Applicable to only physical interfaces.
FlexEFGCapabilityServiceSlotCap	Whether the interfaceService slot can be switched to a FlexEFG interfaceconfigured.	N/A	Boolean: • **True** • **true** • **false**	Applicable to only physical interfaces.N/A
ServiceStandbySlotCap	Whether Service standby slot can be configured.	N/A	Boolean: • **true** • **false**	N/A

Ifmgr/TypeCapabilities

This table contains interface type capability information.

XML structure

```
<Ifmgr>
  <TypeCapabilities>
    <Capability>
      <IfTypeExt></IfTypeExt>
      <MinNum></MinNum>
      <MaxNum></MaxNum>
```

```
      <MinSubNum></MinSubNum>
      <MaxSubNum></MaxSubNum>
      <MaxCreateNum></MaxCreateNum>
      <MaxCreateSubNum></MaxCreateSubNum>
      <MAC></MAC>
      <VlanTm></VlanTm>
    </Capability>
  </TypeCapabilities>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	TypeCapabilities
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfTypeExt	Interface Type.	Index	Unsigned integer.	Refer to ifTypeExt object in table of Interfaces.
MinNum	Minimum interface number.	N/A	Unsigned integer.	N/A
MaxNum	Maximum interface number.	N/A	Unsigned integer.	N/A
MinSubNum	Minimum sub-interface number.	N/A	Unsigned integer.	Refer to MinSubNum in table of InterfaceCapabilities.
MaxSubNum	Maximum sub-interface number.	N/A	Unsigned integer.	Refer to MaxSubNum in table of InterfaceCapabilities.
MaxCreateNum	Total interface numbers which can be created.	N/A	Unsigned integer.	N/A
MaxCreateSubNum	Total sub-interface numbers which can be created.	N/A	Unsigned integer.	Refer to MaxCreateSubNum in table of InterfaceCapabiliti

Column name	Column description	Column type	Data type and restrictions	Remarks
				es.
MAC	Check whether a MAC address can be configured.	N/A	Boolean: • true • false	N/A
VlanTm	Whether vlan termination can be configured.	N/A	Boolean: • true • false	N/A

Ifmgr/EthInterfaces

This table contains Ethernet interface information.

XML structure

```
<Ifmgr>
  <EthInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <Jumboframe></Jumboframe>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Action></Action>
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Flag></Flag>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Action></Action>
      </UnknownUnicastSuppression>
      <BPDUDrop></BPDUDrop>
      <EEE></EEE>
      <ConnectMode></ConnectMode>
      <IfName></IfName>
      <FiberOrCopper></FiberOrCopper>
```

```
      <KnownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </KnownUnicastSuppression>
    </Interface>
  </EthInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Combo	Combo mode of an interface	N/A	Enumeration: • **1**—fiber mode • **2**—copper mode • **3**—auto mode	Applicable to only Ethernet interfaces.
FlowControl	Flow control information of an interface	N/A	Enumeration: • 1—Enable flow control • 2—Disable • **3**—Only enable flow control packet receiving	Applicable to only Physical interfaces.
AutoPowerDown	Port auto power down	N/A	Boolean: • **true** • **false**	Applicable to only Physical interfaces.
Jumboframe	Jumbo frame information of an interface	N/A	Unsigned integer, the value is 0 if jumbo fame is disable on an interface.	
BroadcastSu	Broadcast	N/A	Include:	

Column name	Column description	Column type	Data type and restrictions	Remarks
ppression	suppression information of an interface		• Value • Unit	
ConfigValue	Configured broadcast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
ActualValue	Actual broadcast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Action	Action of broadcast suppression	N/A	Enumeration:. • **0—NA** • **1**—blockEgressUnknown	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: • Value • Unit	
ConfigValue	Configured multicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
ActualValue	Actual multicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Flag	Multicast suppression flag	N/A	Enumeration: • **1—all** • **2—unknown**	

Column name	Column description	Column type	Data type and restrictions	Remarks
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: • Value • Unit	
ConfigValue	Configured unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
ActualValue	Actual unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Action	Action of UnKnown Unicast suppression	N/A	Enumeration:. • **0—NA** • **1**—blockEgressUnknown	
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: • **true** • **false**	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: • **true** • **false**	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: • **1—Normal connection mode** • 2—Extend connection mode	Applicable to only Layer 2 10GE interfaces.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
FiberOrCopper	Actual fiber or copper mode of an interface	N/A	Enumeration: • 1—fiber mode • 2—copper mode	Applicable to only Ethernet interfaces.
KnownUnicastSuppression	Known Unicast Suppression information of an interface	N/A	Include: • Value • Unit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigValue	Config Known unicast suppression value of an interface	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate	N/A
ActualValue	Actual KnownUnicastSuppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	N/A
Unit	KnownUnicast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	N/A

Ifmgr/EthInterfaceCapabilities

This table contains ethernet port capability information.

XML structure

```
<Ifmgr>
  <EthInterfaceCapabilities>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <StormConstrain></StormConstrain>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <MinJumboframe></MinJumboframe>
      <MaxJumboframe></MaxJumboframe>
      <BPDUDrop></BPDUDrop>
      <EEE></EEE>
      <ConnectMode></ConnectMode>
      <IfName></IfName>
    </Interface>
  </EthInterfaceCapabilities>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaceCapabilities
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Combo	Whether the fiber mode or copper mode can be activated.	N/A	Boolean: • **true** • **false**	
StormConstrain	Whether storm constrain can be configured.	N/A	Boolean: • true • false	Applicable to only L2 Ethernet interfaces.
FlowControl	Whether flow control can be configured.	N/A	Boolean: • true • false	Applicable to only physical interfaces.
AutoPowerDown	Whether auto power down can be configured.	N/A	Boolean: • true • false	Applicable to only physical interfaces.
MinJumboframe	The minimum jumbofame which can be configured.	N/A	Unsigned integer.	Applicable to only physical interfaces.
MaxJumboframe	The maximum jumbofame which can be configured.	N/A	Unsigned integer.	Applicable to only physical interfaces.
BPDUDrop	Whether bpdu	N/A	Boolean:	Applicable to only

Column name	Column description	Column type	Data type and restrictions	Remarks
	drop can be configured.		• **true** • **false**	Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet can be configured.	N/A	Boolean: • **true** • **false**	Applicable to only Physical interfaces.
ConnectMode	Whether port connection mode can be configured.	N/A	Boolean: • **true** • **false**	Applicable to only Layer 2 10GE interfaces.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Ifmgr/StormConstrain/Interfaces

This table contains interface storm constrain information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <CtlMode></CtlMode>
        <Trap></Trap>
        <Log></Log>
        <Broadcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </Broadcast>
        <Multicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </Multicast>
        <UnknownUnicast>
          <Upper></Upper>
          <Lower></Lower>
```

```
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </UnknownUnicast>
        <KnownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </KnownUnicast>
        <IfName></IfName>
      </Interface>
    </Interfaces>
   </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 physical Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CtlMode	Storm constrain protective action	N/A	Enumeration: • 0—N/A • 1—Block • 2—Shutdown	

Column name	Column description	Column type	Data type and restrictions	Remarks
Trap	Event trap switch	N/A	Boolean: • true • false	
Log	Event log switch	N/A	Boolean: • true • false	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Broadcast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Broadcast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Broadcast threshold unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Forward	Broadcast traffic forwarding status	N/A	Enumeration: • 0—Forwarding • 1—Block • 2—Shutdown	
SwitchNum	Number of broadcast traffic forwarding state changes	N/A	Unsigned integer.	
Multicast	Multicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Multicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	

Column name	Column description	Column type	Data type and restrictions	Remarks
Lower	Multicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Multicast threshold unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Forward	Multicast traffic forwarding status	N/A	Enumeration: • 0—Forwarding • 1—Block • 2—Shutdown	
SwitchNum	Number of multicast traffic forwarding state changes	N/A	Unsigned integer.	
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Unknown-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Unknown-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Unknown-unicast unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Forward	Unknown-unicast traffic forwarding status	N/A	Enumeration: • 0—Forwarding • 1—Block • 2—Shutdown	
SwitchNum	Number of unknown-unicast traffic forwarding state changes	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
KnownUnicast	Known-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Known-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Known-unicast unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Forward	Known-unicast traffic forwarding status	N/A	Enumeration: • 0—Forwarding • 1—Block • 2—Shutdown	
SwitchNum	Number of known-unicast traffic forwarding state changes	N/A	Unsigned integer.	
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Ifmgr/StormConstrain/Interval

This table contains storm constrain traffic collection interval information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interval>
      <Interval></Interval>
    </Interval>
```

```
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	N/A
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Traffic statistics collection interval for storm constrain on all interfaces, in seconds	N/A	Unsigned integer. Value range: 1 to 300.

Ifmgr/StormConstrain/WhiteProtocol

This table contains storm constrain traffic white protocol.

XML structure

```
<Ifmgr>
  <StormConstrain>
   <WhitelistProtocol>
      <Protocol></Protocol>
   </WhitelistProtocol>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	WhiteProtocol
Table type	Single-instance table
Row name	N/A
Restrictions	
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Protocol	Whitelist-protocol	• Each bit represents a protocol. • As follows: • 1—arpreq • 2—bpdu • 4—dhcp • 8—igmp • 16—rip	Example: • 22 —Protocol bpdu, dhcp, and rip are configurable.

Ifmgr/PortIsolation/Groups

This table contains port isolation groups information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Groups>
      <Group>
        <IsolatedGroupID></IsolatedGroupID>
        <InterfaceList></InterfaceList>
      </Group>
    </Groups>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroup ID	Isolation group ID.	Index	Unsigned integer.	
InterfaceList	Interface IfIndex list of an isolation group ID.	N/A	Number string. It is a comma-separated list of IfIndex items. An item can be an individual IfIndex or an IfIndex range. Use a hyphen (-) to separate the start and end IfIndexes of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Examples: 1,2,3,5-8,10-20 Example: 1,2,3,5-8,10-20. Available IfIndexes are in the IfIndex column in the Ifmgr/Interfaces table.

Ifmgr/PortIsolation/Interfaces

This table contains interface isolation information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Interfaces>
      <Interface>
       <IfIndex></IfIndex>
       <IsolatedGroupID></IsolatedGroupID>
       <IfName></IfName>
      </Interface>
    </Interfaces>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IsolatedGroupID	Port isolation group ID of an interface	N/A	Unsigned integer.	
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Ifmgr/PortIsolation/Capabilities

This table contains port isolation groups capabilities on device.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Capabilities>
      <MaxGroupNum></MaxGroupNum>
    </Capabilities>
   </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Capabilities
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroupNum	The maximum port isolation group number.	N/A	Unsigned integer.	

Ifmgr/DeviceCapabilities

This table contains the capabilities of the interfaces on device.

XML structure

```
<Ifmgr>
  <DeviceCapabilities>
   <HistoryTrafficStatistic></HistoryTrafficStatistic>
   <ManualNoLoopBack></ManualNoLoopBack>
   <DefaultShutdown></DefaultShutdown>
   <StormSuppressionAction></StormSuppressionAction>
   <StormWhiteListProtocol></StormWhiteListProtocol>
   <TrafficPeakStatistic></TrafficPeakStatistic>
  </DeviceCapabilities>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	DeviceCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HistoryTraffic	Whether you need to support	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
Statistic	the history traffic statistic		• True • false	
ManualNoLoopBack	Whether you need to stop the loopback test on an interface manually	N/A	Boolean: • true • false	
DefaultShutdown	Whether an interface is shut down by default	N/A	Boolean: • true • false	
StormSuppressionAction	Whether StormSuppressionAction can be configured.	N/A	Each bit represents a type as follows: • **1**— broadcast. • **2**—unknown outbound multicast. • **4**—unknown outbound unicast.	For example, 3 means the types can be both broadcast and multicast.
StormWhiteListProtocol	Whether stormconstrain whitelistProtocol can be configured.	N/A	Boolean: • true • false	N/A
TrafficPeakStatistic	Whether you need to support the traffic peak statistic	N/A	Boolean: • true • false	

Ifmgr/ReserveVlanInterface

This table contains the reservation of VLAN interface resources.

XML structure

```
<Ifmgr>
  <ReserveVlanInterface>
    <VlanInterface>
     <Type></Type>
     <VlanList></VlanList>
    </VlanInterface>
  </ReserveVlanInterface>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ReserveVlanInterface

Table type	Multi-instance table
Row name	VlanInterface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the reservation of VLAN interface resources is global or local.	Index	Enumeration: • **1**—Global. • **2**—Local	The reservation of global VLAN interface resources or local VLAN interface resources.
VlanList	List of VLANs for the reservation of VLAN interface resources.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20

Ifmgr/SubChannel

This table contains the sub channel index information of interface.

XML structure

```
<Ifmgr>
  <SubChannel>
    <Interface>
     <IfIndex></IfIndex>
     <CreateMode></CreateMode>
     <SubChannelIndex></SubChannelIndex>
    </Interface>
  </SubChannel>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	SubChannel
Table type	Multi-instance table

Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CreateMode	The mode of creating sub channel.	Index	Enumeration: • 1—serial-set • 2—eth-channel	N/A
SubChannelIndex	The interface index of each subchannel.	Index	Unsigned integer	N/A

Ifmgr/CellularChannel

This table contains sub channel creating information of cellular controller.

XML structure

```
<Ifmgr>
  <CellularChannel>
    <Interface>
      <IfIndex></IfIndex>
      <CreateMode></CreateMode>
      <ChannelNum></ChannelNum>
    </Interface>
  </CellularChannel>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	CellularChannel
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CreateMode	The mode of creating sub channel.	Index	Enumeration: • 1—serial-set • 2—eth-channel	N/A
ChannelNum	Sub channel number.	Index	Unsigned integer	N/A

Ifmgr/NewSubInterfaces

This table contains creating information of sub-interfaces.

XML structure

```
<Ifmgr>
  <NewSubInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SubNum></SubNum>
      <IfName></IfName>
      <SubIfIndex></SubIfIndex>
    </Interface>
  </NewSubInterfaces>
```

```
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	NewSubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the main interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SubNum	Sub-interface number.	Index	Unsigned integer	The range for SubNum is shown in the InterfaceCapabilities table.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SubIfIndex	Sub-interface index	N/A	Unsigned integer	Interface index of the sub-interface.

Ifmgr/EthPortStatistics

This table contains interface statistics.

XML structure

```
<Ifmgr>
  <EthPortStatistics>
    <Interface>
      <IfIndex></IfIndex>
```

```
<Name></Name>
<InBytes/>
<InPkts/>
<InUcastPkts/>
<InBrdcastPkts/>
<InMulticastPkts/>
<InPauses/>
<InNormalBytes/>
<InNormalUnicastBytes/>
<InNormalBrdcastBytes/>
<InNormalMulticastBytes/>
<InUnknownUnicastBytes/>
<InNormalPkts/>
<InNormalUnicastPkts/>
<InNormalBrdcastPkts/>
<InNormalMulticastPkts/>
<InUnknownUnicastPkts/>
<InNormalPauses/>
<InErrorPkts/>
<InPktSpeed/>
<InByteSpeed/>
<InBrdcastPktSpeed/>
<InMulticastPktSpeed/>
<InRunts/>
<InGiants/>
<InThrottles/>
<InErrCRCFrames/>
<InErrFrames/>
<InOverrunDropPkts/>
<InAbortPkts/>
<InIgnoreDropFrames/>
<InParityErrFrames/>
<InSpeedPeakBytes/>
<InSpeedPeakTime/>
<OutBytes/>
<OutPkts/>
<OutUcastPkts/>
<OutBrdcastPkts/>
<OutMulticastPkts/>
<OutPauses/>
<OutNormalBytes/>
<OutNormalUnicastBytes/>
<OutNormalBrdcastBytes/>
<OutNormalMulticastBytes/>
<OutUnknownUnicastBytes/>
<OutNormalPkts/>
<OutNormalUnicastPkts/>
<OutNormalBrdcastPkts/>
```

```
      <OutNormalMulticastPkts/>
      <OutUnknownUnicastPkts/>
      <OutNormalPauses/>
      <OutErrorPkts/>
      <OutPktSpeed/>
      <OutByteSpeed/>
      <OutBrdcastPktSpeed/>
      <OutMulticastPktSpeed/>
      <OutUnderRunDropPkts/>
      <OutBuffFailDropPkts/>
      <OutAbortPkts/>
      <OutDeferedFrames/>
      <OutCollisionFrames/>
      <OutLateCollisionFrames/>
      <OutLostCarriers/>
      <OutNoCarriers/>
      <OutSpeedPeakBytes/>
      <OutSpeedPeakTime/>
    </Interface>
  </EthPortStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthPortStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
InBytes	Number of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InPkts	Number of inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InUcastPkts	Number of inbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
InBrdcastPkts	Number of inbound broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InMulticastPkts	Number of inbound multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InPauses	Number of inbound pause frames on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalBytes	Number of inbound normal bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalUnicastBytes	Number of inbound normal unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalBrdcastBytes	Number of inbound normal broadcast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalMulticastBytes	Number of inbound normal multicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InUnknownUnicastBytes	Number of inbound unknown unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalPkts	Number of inbound normal packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalUnicastPkts	Number of inbound normal unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalBrdcastPkts	Number of inbound normal broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalMulticastPkts	Number of inbound normal multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InUnknownUnicastPkts	Number of inbound unknown unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InNormalPauses	The number of normal pauses received on the interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InErrorPkts	Number of error inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InPktSpeed	Rate of inbound packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InByteSpeed	Rate of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InBrdcastPktSpeed	Rate of inbound broadcast packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InMulticastPktSpeed	Rate of inbound multicast	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	packages on an interface.		Value range: 0 to 2^{64} - 1.
InRunts	Number of inbound runts on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InGiants	Number of inbound giants on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InThrottles	Number of inbound frames that had a non-integer number of bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InErrCRCFrames	Total number of inbound frames that had a normal length, but contained CRC errors.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InErrFrames	Total number of inbound frames that contained CRC errors and a non-integer number of bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InOverrunDropPkts	Number of packets dropped because the input rate of the port exceeded the queuing capability.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InAbortPkts	Total number of illegal inbound packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InIgnoreDropFrames	Number of inbound frames dropped because the receiving buffer of the port ran low.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InParityErrFrames	Total number of frames with parity errors.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InSpeedPeakBytes	Peak rate of inbound traffic in Bps, and the time when the peak inbound traffic rate occurred.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InSpeedPeakTime	Speed peak time of inbound bytes on an interface.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..
OutBytes	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPkts	Number of outbound packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutUcastPkts	Number of outbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutBrdcastPkts	Number of outbound broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutMulticastPkts	Number of outbound multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPauses	Number of outbound pause	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	frames on an interface.		Value range: 0 to 2^{64} - 1.
OutNormalBytes	Number of outbound normal bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalUnicastBytes	Number of outbound normal unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalBrdcastBytes	Number of outbound normal broadcast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalMulticastBytes	Number of outbound normal multicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutUnknownUnicastBytes	Number of outbound unknown unicast bytes on an interface. unsupported protocol.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalPkts	Number of outbound normal packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalUnicastPkts	Number of outbound normal unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalBrdcastPkts	Number of outbound normal broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalMulticastPkts	Number of outbound normal multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutUnknownUnicastPkts	Number of outbound unknown unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNormalPauses	Number of outbound normal pause frames on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutErrorPkts	Number of error outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutPktSpeed	Rate of outbound packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutByteSpeed	Rate of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutBrdcastPktSpeed	Rate of outbound broadcast packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutMulticastPktSpeed	Rate of outbound multicast packages on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutUnderRunDropPkts	Number of packets dropped because the output rate of the interface exceeded the output queuing capability.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
OutBuffFailDropPkts	Number of packets dropped because the transmitting buffer of the interface ran low.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutAbortPkts	Number of packets that failed to be transmitted, for example, because of Ethernet collisions.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutDeferedFrames	Number of frames that the interface deferred to transmit because of detected collisions.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutCollisionFrames	Number of frames that the interface stopped transmitting because Ethernet collisions were detected during transmission.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutLateCollisionFrames	Number of frames that the interface deferred to transmit after transmitting their first 512 bits because of detected collisions.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutLostCarriers	Number of carrier losses during transmission.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutNoCarriers	Number of times that the port failed to detect the carrier when attempting to send frames.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutSpeedPeakBytes	Peak rate of outbound traffic in Bps, and the time when the peak outbound traffic rate occurred.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
OutSpeedPeakTime	Speed peak time of outbound bytes on an interface.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.

Ifmgr/IfHistoryTrafficStatistics

This table contains history traffic statistics of the interface.

XML structure

```
<Ifmgr>
  <IfHistoryTrafficStatistics>
    <TrafficStatistics>
      <IfIndex></IfIndex>
      <Interval></Interval>
      <TimeStamp></TimeStamp>
      <InOctets></InOctets>
```

```
      <OutOctets></OutOctets>
      <IfName></IfName>
    </TrafficStatistics>
  </IfHistoryTrafficStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	IfHistoryTrafficStatistics
Table type	Multi-instance table
Row name	TrafficStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the main interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Interval	Sampling interval of an interface	Index	Enumeration: • **0**—Last 60 mins. • **1**—Last 24 hours. • **2**—Last 30 Days.	N/A
TimeStamp	Local time when the device starts.	Index	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
InOctets	Number of inbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			GigabitEthernet2/0/2	

Ifmgr/AllHistoryTrafficStatistics

This table containsl history traffic statistics of all interfaces.

XML structure

```
<Ifmgr>
  <AllHistoryTrafficStatistics>
    <TrafficStatistics>
      <Interval></Interval>
      <TimeStamp></TimeStamp>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
    </TrafficStatistics>
  </AllHistoryTrafficStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	AllHistoryTrafficStatistics
Table type	Multi-instance table
Row name	TrafficStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Sampling interval of all interface	Index	Enumeration: • **0**—Last 60 mins. • **1**—Last 24 hours. • **2**—Last 30 Days.	N/A
TimeStamp	Local time when the device starts.	Index	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
InOctets	Number of inbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutOctets	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Ifmgr/ShutdownInterval

This table contains the shutdown recovery interval for ports.

XML structure

```
<Ifmgr>
  <ShutdownInterval>
    <Interval></Interval>
  </ShutdownInterval>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ShutdownInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Shutdown recovery interval in seconds	N/A	Unsigned integer. Value range: 0 to 300.	N/A

Ifmgr/IfRateStatistics

This table contains interfaces rate information.

XML structure

```
<Ifmgr>
  <IfRateStatistics>
    <Interface>
      <StartIfIndex></StartIfIndex>
```

```
      <ReqCount></ReqCount>
      <BufData></BufData>
    </Interface>
  </IfRateStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	IfRateStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmon NETCONF XML API Configuration Reference.
ReqCount	Requiring counts of interface	N/A	Unsigned integer.	This column contains count of interface every bulk we want to get. The default is 10.And the maximum is 46. If we specify the operation type is “get-bulk”, it won’t return anything when the reqcount is less than 10.
BufData	Data of rate statistics.	N/A	Binary	This column has three sections. The first is ifindex that the last one of previous bulk.

Column name	Column description	Column type	Data type and restrictions	Remarks

				The second is count of interface that every bulk we get really. The last is information of rate statistics, which containing the interface's index, name, the package rate and the byte rate.
				StartIfIndex (UINT32) //Ifindex of the first interface in this bulk
				ActualCount (UINT32) //Counts that this bulk actually got
				BatchRate (N * 88) //Information of rate statistics, including N data blocks(BASE64 Coding)(N = ActualCount), and every data block includes
				//IfIndex (UINT32)
				//szIfName (48 UCHAR)
				//InSpeedPkt (UINT64)
				//InSpeedByte (UINT64)
				//OutSpeedPkt (UINT64)
				//OutSpeedByte (UINT64)

Ifmgr/IfPacketDropStatistics

This table contains interface packet-drop related statistics

XML structure

```
<Ifmgr>
  <IfPacketDropStatistics>
    <Interface>
      <IfIndex></IfIndex>
      <InsufficientBandDrop></InsufficientBandDrop>
      <FFPDrop></FFPDrop>
```

```
      <STPDrop></STPDrop>
      <RateLimitDrop></RateLimitDrop>
      <BroadcastBuppressionDrop></BroadcastBuppressionDrop>
      <UnicastBuppressionDrop></UnicastBuppressionDrop>
      <MulticastSuppressionDrop></MulticastSuppressionDrop>
      <TxDrop></TxDrop>
      <InsufficientBuffInDrop></InsufficientBuffInDrop>
      <InsufficientBuffOutDrop></InsufficientBuffOutDrop>
    </Interface>
  </IfPacketDropStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	IfPacketDropStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	The statistics can be cleared.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
InsufficientBandDrop	Number of dropped packets due to full GBP or insufficient bandwidth.	N/A	Unsigned interger. Value range: 0 to 2^{64} - 1.
FFPDrop	Packets dropped due to Fast Filter Processor (FFP).	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
STPDrop	Packets dropped due to STP non-forwarding state.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
RateLimitDrop	Packets dropped due to rate-limit.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
BroadcastBuppressionDrop	Packets dropped due to unicast-suppression	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
UnicastBuppressionDrop	Packets dropped due to unicast-suppression.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
MulticastSuppressionDrop	Packets dropped due to multicast-suppression.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
TxDrop	Packets dropped due to transmitted packet aging.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InsufficientBuffInDrop	Packets dropped due to insufficient data buffer. Input dropped: 0.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InsufficientBuffOutDrop	Packets dropped due to insufficient data buffer. output dropped: 0.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Ifmgr/GlobalPacketDropStatistics

This table contains global packet-drop related statistics.

XML structure

```
<Ifmgr>
  <GlobalPacketDropStatistics>
    <InsufficientBandDrop></InsufficientBandDrop>
    <FFPDrop></FFPDrop>
    <STPDrop></STPDrop>
    <RateLimitDrop></RateLimitDrop>
    <BroadcastBuppressionDrop></BroadcastBuppressionDrop>
    <UnicastBuppressionDrop></UnicastBuppressionDrop>
    <MulticastSuppressionDrop></MulticastSuppressionDrop>
    <TxDrop></TxDrop>
    <InsufficientBuffInDrop></InsufficientBuffInDrop>
    <InsufficientBuffOutDrop></InsufficientBuffOutDrop>
  </GlobalPacketDropStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	GlobalPacketDropStatistics
Table type	Multi-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
InsufficientBandDrop	Number of dropped packets due to full GBP or	N/A	Unsigned interger. Value range: 0 to 2^{64} - 1.

Column name	Column description	Column type	Data type and restrictions
	insufficient bandwidth.		
FFPDrop	Packets dropped due to Fast Filter Processor (FFP).	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
STPDrop	Packets dropped due to STP non-forwarding state.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
RateLimitDrop	Packets dropped due to rate-limit.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
BroadcastBuppressionDrop	Packets dropped due to unicast-suppression.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
UnicastBuppressionDrop	Packets dropped due to unicast-suppression.	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
MulticastSuppressionDrop	Packets dropped due to multicast-suppression.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
TxDrop	Packets dropped due to transmitted packet aging.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InsufficientBuffInDrop	Packets dropped due to insufficient data buffer. Input dropped: 0.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
InsufficientBuffOutDrop	Packets dropped due to insufficient data buffer. output dropped: 0.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Ifmgr/DevicePortInfo/Interfaces

This table contains device port information.

XML structure

```
<Ifmgr>
  <DevicePortInfo>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <Port></Port>
        <ModuleID></ModuleID>
      </Interface>
    </Interfaces>
  </DevicePortInfo>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr

Item	Description
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Port	Serial number of the physical interface.	N/A	Unsigned integer.
ModuleID	Module ID of the physical interface.	N/A	Unsigned integer.

Ifmgr/DataBuffer/IfBuffer

This table contains the buffer of interface.

XML structure

```
<Ifmgr>
  <DataBuffer>
    <IfBuffer>
      <Interface>
        <IfIndex></IfIndex>
        <FreeBuf></FreeBuf>
        <InitBuf></InitBuf>
        <MinBuf></MinBuf>
        <MissPkts></MissPkts>
        <IfName></IfName>
      </Interface>
    </IfBuffer>
  </DataBuffer>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	IfBuffer
Table type	Multi-instance table
Row name	Interface
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
FreeBuf	The number of packet buffers available for the interface.	N/A	Unsigned integer.
InitBuf	The number of packet buffers allocated when the interface was created.	N/A	Unsigned integer.
MinBuf	The smallest number of packet buffers available for the interface.	N/A	Unsigned integer.
MissPkts	Broadcast storm constrain information of an interface.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2

Ifmgr/FlexeInstances

This table contains FlexeInstance interface information.

XML structure

```
<Ifmgr>
  <FlexeInstances>
    <FlexeInstance>
      <Chassis></Chassis>
```

```
<Slot></Slot>
<Subslot></Subslot>
<ConfigMode></ConfigMode>
<FlexeGroups>
  <FlexeGroup>
    <GroupID></GroupID>
    <IfIndex></IfIndex>
    <BindPhyInterfaces>
      <BindPhyInterface>
        <PhyIfIndex></PhyIfIndex>
        <PhyNo></PhyNo>
      </BindPhyInterface>
    </BindPhyInterfaces>
    <Clients>
      <Client>
        <ClientID></ClientID>
        <FlexeIfIndex></FlexeIfIndex>
        <Bandwidth></Bandwidth>
        <TimeSlots>
          <TimeSlot>
            <PhyIfIndex></PhyIfIndex>
            <TimeSlotList></TimeSlotList>
          </TimeSlot>
        </TimeSlots>
      </Client>
    </Clients>
    <ClientChannels>
      <ClientChannel>
        <ClientChannelID></ ClientChannelID >
        <ClientConfigMode></ ClientConfigMode >
        <Bandwidth></Bandwidth>
        <TimeSlots>
          <TimeSlot>
            <PhyInterface></PhyInterface>
            <TimeSlotList></TimeSlotList>
          </TimeSlot>
        </TimeSlots>
        <Clients>
          <Client>
            <ClientID></ClientID>
            <Bandwidth></Bandwidth>
            <SubTimeSlotList></SubTimeSlotList>
          <Client>
        <Clients>
      </ClientChannel>
    </ClientChannels>
  </FlexeGroup>
</FlexeGroups>
```

```
    </FlexeInstance>
  </FlexeInstances>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeInstances
Table type	Multi-instance table
Row name	FlexeInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	
Subslot	SubSlot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	
ConfigMode	Bandwidth configuration mode	N/A	Enumeration: • 1—BandWidth. • 2—TimeSlot.	
FlexeGroups	FlexE group interfaces	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups

This table contains creating information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeGroups

Table type	Multi-instance table
Row name	FlexeGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Group ID	Index	Unsigned integer. Value range: 1 to 1048573.	
IfIndex	Group interface ifdex	N/A.		Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BindPhyInterfaces	FlexE Physical interface config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/BindPhyInterfaces table
Clients	FlexE client config	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/Clients table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/BindPhyInterfaces

This table contains binding information of FlexE group interfaces.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	BindPhyInterfaces
Table type	Multi-instance table
Row name	BindPhyInterface

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyIfIndex	FlexE Phisycal Interface index.	Index	Unsigned integer	For information about the string type, see "错误!未找到引用源。". Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PhyNo	PHY number for the FlexE physical interface	NA	Unsigned integer. Value range: 1 to 254.	

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE Client ID	Index	Unsigned integer. Value range: 1 to 65534.	
FlexeIfIndex	FlexE Client interface ifdex	N/A		Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Bandwidth	Bandwidth value in Gbps	N/A	Unsigned integer. Value range:5 to 4194303 (in steps of 5)	
TimeSlots	TimeSlots	Subtable	N/A	For more information, see the Ifmgr/FlexeInstances/FlexeGroups/Clients/TimeSlots table

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/TimeSlots

This table contains TimeSlot configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	TimeSlots
Table type	Multi-instance table
Row name	TimeSlot
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyInterface	FlexE Phisycal Interface index.	Index	Unsigned integer	For information about the string type, see "错误!未找到引用源。". Some versions support interface name. For relevant information, see the XSD document of your product.For information about the string type, see "错误!未找到引用源。"
TimeSlotList	TimeSlot list	N/A	TimeSlots, separated by commas(,) or hyphens (-)	

Ifmgr/FlexeInstances/FlexeInstance/FlexeGroups/FlexeGroup/ChannelClients/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeInstance.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE ClientChannel Client ID	Index	Unsigned integer. Value range: 1 to 65534.	
Bandwidth	Bandwidth value in Gbps	N/A	Unsigned integer. Value range:5 to 4194303 (in steps of 5)	Only the ClientConfigMode is bandwidth, this column can be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
SubTimeSlot List	SubTimeSlot list	N/A	SubTimeSlots, separated by commas(,) or hyphens (-)	Only the ClientConfigMode is timeslot, this column can be configured

Ifmgr/InterfaceTrafficPeak

This table contains interface traffic peak information.

XML structure

```
<Ifmgr>
  <InterfaceTrafficPeak>
    <Interface>
      <IfName></IfName>
      <InBitRatePeaks>
        <InBitRatePeak>
          <PeakIndex></PeakIndex>
          <PeakValue></PeakValue>
          <PeakTimeStamp></PeakTimeStamp>
        </InBitRatePeak>
      </InBitRatePeaks>
      <OutBitRatePeaks>
        <OutBitRatePeak>
          <PeakIndex></PeakIndex>
          <PeakValue></PeakValue>
          <PeakTimeStamp></PeakTimeStamp>
        </OutBitRatePeak>
      </OutBitRatePeaks>
      <InPacketRatePeaks>
        <InPacketRatePeak>
          <PeakIndex></PeakIndex>
          <PeakValue></PeakValue>
          <PeakTimeStamp></PeakTimeStamp>
        </InPacketRatePeak>
      </InPacketRatePeaks>
      <OutPacketRatePeaks>
        <OutPacketRatePeak>
          <PeakIndex></PeakIndex>
          <PeakValue></PeakValue>
          <PeakTimeStamp></PeakTimeStamp>
        </OutPacketRatePeak>
      </OutPacketRatePeaks>
    </Interface>
  </InterfaceTrafficPeak>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	InterfaceTrafficPeak
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Applicable to only Ethernet interfaces.
InBitRatePeaks	History peak rate of inbound traffic on an interface.	Subtable	N/A	For more information, see the Ifmgr/InterfaceTrafficPeak/Interface/InBitRatePeaks table.
OutBitRatePeaks	History peak rate of outbound traffic on an interface.	Subtable	N/A	For more information, see the Ifmgr/InterfaceTrafficPeak/Interface/OutBitRatePeaks table.
InPacketRatePeaks	History peak rate of inbound packets on an interface.	Subtable	N/A	For more information, see the Ifmgr/InterfaceTrafficPeak/Interface/InPacketRatePeaks table.
OutPacketRatePeaks	History peak rate of outbound packets on an interface.	Subtable	N/A	For more information, see the Ifmgr/InterfaceTrafficPeak/Interface/OutPacketRatePeaks table.

Ifmgr/InterfaceTrafficPeak/Interface/InBitRatePeaks

This table contains the history peak rate of inbound traffic on an interface.

XML structure

See the XML structure of InterfaceTrafficPeak.

Table description

Item	Description
Feature name	Ifmgr
Table name	InBitRatePeaks
Table type	Multi-instance table
Row name	InBitRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of inbound traffic.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of inbound traffic in bps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak inbound traffic rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A

Ifmgr/InterfaceTrafficPeak/Interface/OutBitRatePeaks

This table contains the history peak rate of outbound traffic on an interface.

XML structure

See the XML structure of InterfaceTrafficPeak.

Table description

Item	Description
Feature name	Ifmgr
Table name	OutBitRatePeaks
Table type	Multi-instance table
Row name	OutBitRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of outbound traffic.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of outbound traffic in bps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak outbound traffic rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A

Ifmgr/InterfaceTrafficPeak/Interface/InPacketRatePeaks

This table contains the history peak rate of inbound packets on an interface.

XML structure

See the XML structure of InterfaceTrafficPeak.

Table description

Item	Description
Feature name	Ifmgr
Table name	InPacketRatePeaks
Table type	Multi-instance table
Row name	InPacketRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of inbound packets.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of inbound packets in pps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakTimeStamp	Time when the peak inbound packet rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A

Ifmgr/InterfaceTrafficPeak/Interface/OutPacketRatePeaks

This table contains history peak rate of outbound packets on an interface.

XML structure

See the XML structure of InterfaceTrafficPeak.

Table description

Item	Description
Feature name	Ifmgr
Table name	OutPacketRatePeaks
Table type	Multi-instance table
Row name	OutPacketRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of outbound packets.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of outbound packets in pps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak outbound packet rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A.

Ifmgr/ShutdownAllPhyIf

This table is used to shut down all physical interfaces.

XML structure

```
<Ifmgr>
  <ShutdownAllPhyIf>
    <Shutdown></Shutdown>
  </ShutdownAllPhyIf>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ShutdownAllPhyIf
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Shutdown	Shut down all physical interfaces	N/A	Boolean: • **true**—shutdown • **false**—undo shutdown	

Ifmgr/Suppression

This table contains interface suppression statistics.

XML structure

```
<Ifmgr>
  <Suppression>
    <Interface>
      <IfName></IfName>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Action></Action>
```

```
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Flag></Flag>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
        <Action></Action>
      </UnknownUnicastSuppression>
      <KnownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </KnownUnicastSuppression>
    </Interface>
  </Suppression>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Suppression
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
BroadcastSuppression	Broadcast suppression information of an interface.	N/A	Include: • Value • Unit
MulticastSuppression	Multicast suppression information of an	N/A	Include: • Value

Column name	Column description	Column type	Data type and restrictions
	interface.		• Unit
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface.	N/A	Include: • Value • Unit
KnownUnicastSuppression	KnownUnicast suppression information of an interface	N/A	Include: • Value • Unit

Ifmgr/Suppression/Interface/BroadcastSuppression

This table contains onu interface BroadcastSuppression statistics.

XML structure

See the XML structure of Suppression.

Table description

Item	Description
Feature name	Ifmgr
Table name	Suppression
Table type	Multi-instance table
Row name	Suppression
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigValue	Configured broadcast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	
ActualValue	Actual broadcast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the	

Column name	Column description	Column type	Data type and restrictions	Remarks
			maximum interface rate. kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Action	Action of broadcast suppression	N/A	Enumeration: • **0—NA** • **1**—blockEgressUnknown	

Ifmgr/Suppression/Interface/MulticastSuppression

This table contains onu interface MulticastSuppression statistics.

XML structure

See the XML structure of Suppression.

Table description

Item	Description
Feature name	Ifmgr
Table name	Suppression
Table type	Multi-instance table
Row name	Suppression
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigValue	Configured multicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	
ActualValue	Actual multicast suppression	N/A	Unsigned integer. Value range:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	value of an interface		• **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Flag	Multicast suppression flag	N/A	Enumeration: • **1—all** • **2—unknown**	

Ifmgr/Suppression/Interface/UnknownUnicastSuppression

This table contains onu interface UnknownUnicastSuppression statistics.

XML structure

See the XML structure of Suppression.

Table description

Item	Description
Feature name	Ifmgr
Table name	Suppression
Table type	Multi-instance table
Row name	Suppression
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigValue	Configured unknownunicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	

Column name	Column description	Column type	Data type and restrictions	Remarks
ActualValue	Actual unknownunicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	
Unit	Unknownunicast suppression n unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	
Action	Action of unknownunicast suppression	N/A	Enumeration: • **0—NA** • **1**—blockEgressUnknown	

Ifmgr/Suppression/Interface/KnownUnicastSuppression

This table contains onu interface KnownUnicastSuppression statistics.

XML structure

See the XML structure of Suppression.

Table description

Item	Description
Feature name	Ifmgr
Table name	Suppression
Table type	Multi-instance table
Row name	Suppression
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigValue	Configured Action of knownunicast suppression value of an	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the	

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface		maximum interface rate. kbps: 0 to the maximum interface rate	
ActualValue	Actual knownunicast suppression value of an interface	N/A	Unsigned integer. Value range: • **ratio: 0 to 100** • pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate	
Unit	Knownunicast suppression unit	N/A	Enumeration: • **1—ratio** • 2—pps • **3**—kbps	

Ifmgr/FlexeFgInterfaces

This table contains FlexeFg interface information.

XML structure

```
<Ifmgr>
  <FlexeFgInterfaces>
    <FlexeFgInterface>
      <IfName></IfName>
      <ConfigMode></ConfigMode>
      <Clients>
        <Client>
         <ClientID></ClientID>
         <Bandwidth></Bandwidth>
         <SubTimeSlotList></SubTimeSlotList>
         <Client>
        <Clients>
    </FlexEFGInterface>
  </FlexEFGInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	FlexeFgInterfaces
Table type	Multi-instance table
Row name	FlexeFgInterface

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: FlexE-FG10G2/0/2	N/A
ConfigMode	Bandwidth configuration mode	N/A	Enumeration: • 1—Bandwidth. • 2—Sub-timeslot.	If the Client ID is already configured, the FlexE Fg interface configmode cannot be modified.
Clients	FlexE Fg client config	Subtable	N/A	For more information, see the Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients

Ifmgr/FlexeFgInterfaces/FlexeFgInterface/Clients

This table contains Client configuration information.

XML structure

See the XML structure of FlexeFgInterface.

Table description

Item	Description
Feature name	Ifmgr
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientID	FlexE Fg Client ID	Index	Unsigned integer. Value range: 1 to 65534.	If you replace the Client, you must carry the ConfigMode.
Bandwidth	Bandwidth value in Mbps	N/A	Unsigned integer. Value range:10 to 4194303 (in steps of 10)	
SubTimeSlot List	SubTimeSlotList	N/A	TimeSlots, separated by commas(,) or hyphens (-)	

Ifmgr/LinkFlap

This table is used to enable link flapping protection globally.

XML structure

```
<Ifmgr>
  <LinkFlap>
    <Enable></Enable>
    <Batch></Batch>
    <Interval></Interval>
    <Threshold></Threshold>
  </LinkFlap>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	LinkFlap
Table type	Single-instance table
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable link flapping protection globally	N/A	Boolean: • true—enable • false—disable	

Column name	Column description	Column type	Data type and restrictions	Remarks
Batch	Enable link flapping protection both globally and on all interfaces	N/A	Boolean: • true—enable • false—disable	
Interval	Specifies the link flapping detection interval in seconds	N/A	Unsigned integer. Value range: 5 to 86400. Default: 10	
Threshold	Specifies the link flapping detection threshold	N/A	Unsigned integer. Value range: 2 to 1200. Default: 5	

Ifmgr 2
Ifmgr/Interfaces 2
Ifmgr/NewSubInterfaces 7
Ifmgr/EthInterfaces 9
Ifmgr/PortIsolation/Interfaces 10
Ifmgr/LogicInterfaces 11
Ifmgr/FlexeInstances 11
Ifmgr/FlexeGroups 11
Ifmgr/BindPhyInterfaces 12
Ifmgr/Clients 12
Ifmgr/TimeSlots 13
Ifmgr/ClientChannels 13

Ifmgr

Ifmgr/Interfaces

Message	Explanation
The administrative state of management interface cannot be modified. 不能修改管理接口的接口管理状态。	暂未引用
Please set the link type of the port to access first. 请先把接口链路类型改成Access。	During merging operation for LinkType of interfaces table, set the link type of the port to access first. 在对接口信息表的 LinkType 字段进行 Merge 操作时，需要先把接口链路类型改成 Access。
The VLAN doesn't support the operation. 该VLAN不支持当前操作。	During executing set operation for LinkType of interfaces table, the VLAN doesn't support the operation. 在对接口信息表的 LinkType 字段进行下发数据时，该 VLAN 不支持当前操作。
Cannot change the link type of %s because this operation conflicts with the %s configuration. 不能更改%s的链路类型因为当前操作和%s配置冲突。	During executing set operation for LinkType of interfaces table, this operation cannot change the link type for the port because this operation conflicts with the port's configuration. 在对接口信息表的 LinkType 字段进行下发数据时，不能更改该端口的链路类型因为当前操作和该端口配置冲突。
The VLAN does not exist. 该VLAN不存在。	During executing set operation for PVID of interfaces table, the VLAN doesn't exist. 在对接口信息表的 PVID 字段进行下发数据时，该 VLAN 不存在。
This is not a hybrid port. 不是一个Hybrid端口。	During executing set operation for PVID of interfaces table, the link type of the port is not hybrid. 在对接口信息表的 PVID 字段进行下发数据时，该端口类型不是一个 Hybrid 端口。
This is not a trunk port. 不是一个Trunk端口。	During executing set operation for PVID of interfaces table, the link type of the port is not trunk. 在对接口信息表的 PVID 字段进行下发数据时，该端口类型不是一个 trunk 端口。
The specified duplex mode is not supported. 该接口不支持所指定的双工状态。	During executing set operation for cfgduplex of interfaces table, the specified duplex mode is not

	supported. 在对接口信息表的 cfgduplex 字段进行下发数据时，该接口不支持所指定的双工状态。
Duplex mode cannot be configured when loopback external or loopback internal command is configured. 该接口正处于环回测试状态，不能修改双工模式。	During executing set operation for cfgduplex of interfaces table, the duplex mode cannot be configured when the loopback external or loopback internal command is configured. 在对接口信息表的 cfgduplex 字段进行下发数据时，该接口正处于环回测试状态，不能修改双工模式。
You do not have the privilege to access %s. 没有操作接口的权限。	暂未引用
The interface doesn't support the operation. 该接口不支持此操作。	During executing set operation for cfgduplex of interfaces table, the interface doesn't support the operation. 在对接口信息表某个字段进行下发数据时,该接口不支持此操作。
Configuration cannot be configured when loopback external or loopback internal command is configured. 该接口正处于环回测试状态，不能修改配置。	During executing set operation for interfaces table, the configuration cannot be modified when the loopback external or loopback internal command is configured. 在对接口信息表进行下发数据时,该接口因为正处于环回测试状态，导致不能修改配置。
Invalid speed value for port auto-negotiation. 该接口不支持所指定的自协商速率。	During executing set operation for ConfigSpeed of interfaces table, the speed value for port auto-negotiation is invalid. 在对接口信息表的 ConfigSpeed 字段进行下发数据时, 该接口不支持所指定的自协商速率。
The MTU range is %u to %u. MTU取值范围为%u到%u。	During executing set operation for ConfigMTU of interfaces table, the MTU should be in the valid range. 在对接口信息表的 ConfigMTU 字段进行下发数据时, MTU 应该被设置有效的取值范围。
The %s interface number range is %u to %u. %s接口的接口编号范围是%u到%u。	During executing set operation for IfIndex of interfaces table, the interface number should be in the valid range. 在对接口信息表的 IfIndex 字段进行下发数据时,接口的接口编号应该被设置有效的取值范围。
Column SubNum cannot be included when you remove the interface. 删除接口的时候不能带SubNum列。	During executing remove operation, the SubNum column cannot be included. 在对执行删除接口时不能带 SubNum 列。
Allocated VLANs can not be set as port PVID. 已经被分配的VLAN不能设置成端口PVID。	During executing set operation for PVID of interfaces, allocated VLANs can not be set as a PVID. 在对接口信息表的 PVID 字段进行下发数据时，已经被分

	配的 VLAN 不能设置成端口 PVID。
The operation is not permitted because this port is shared with other contexts. 操作不被允许，因为该端口已经被其它Context共享。	During executing set operation for LinkType of interfaces table, it is not permitted because this port is shared with other contexts. 在对接口信息表的 LinkType 字段进行下发数据时，操作不被允许，因为该端口已经被其它 Context 共享。
Can't shut down the last active physical interface on a PEX for PEX links. Please shut down the PEX physical interface on the parent device that provides PEX connectivity for the PEX. 不允许shutdown PEX设备上连接两个设备之间的最后一条active链路上的PEX口，如果需要改变链路topo，请shutdown父设备上的接口。	During executing set operation for ShutDown of interfaces table, it can't shut down the last active physical interface on a PEX for PEX links. Please shut down the PEX physical interface on the parent device that provides PEX connectivity for the PEX. 在对接口信息表进行下发 shutdown 数据时，不允许 shutdown PEX 设备上连接两个设备之间的最后一条 active 链路上的 PEX 口，如果需要改变链路 topo，请 shutdown 父设备上的接口。
Operation not supported on the last active physical port bound to IRF port which connected to the master! Please shutdown the other end of the link. 与连接到主设备的IRF端口绑定的最后一个有效物理端口不支持此操作！请shutdown对端接口。	During executing set operation for ShutDown of interfaces table, the operation is not supported on the last active physical port bound to the IRF port which connects to the master! Please shut down the other end of the link. 在对接口信息表进行下发 shutdown 数据时，与连接到主设备的 IRF 端口绑定的最后一个有效物理端口不支持此操作！请 shutdown 对端接口。
Can not be configured with loopback external/internal command together. 不能和loopback external/internal命令一起配置。	During executing set operation for ShutDown of interfaces table, it can not be configured with the loopback external/internal command together. 在对接口信息表进行下发 shutdown 数据时,不能和 loopback external/internal 命令一起配置。
Can not be configured with port up-mode command together. 不能和port up-mode命令一起配置。	During executing set operation for ShutDown of interfaces table, it can not be configured with the port up-mode command together. 在对接口信息表进行下发 shutdown 数据时，不能和 port up-mode 命令一起配置。
Bind all interfaces in the same group to IRF ports or cancel the bindings on all of them. 绑定或取消绑定同一个组的接口到IRF端口。	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to IRF ports or the bindings on all of them should be cancelled. 在对接口信息表进行下发 shutdown 数据时,同一个组的接口应该被绑定或取消绑定到 IRF 端口。
Bind all interfaces in the same group to PEX ports or cancel the bindings on all of them. 绑定或取消绑定同一个组的接口到PEX端口。	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to PEX ports or the bindings on all of them should be cancelled.

	在对接口信息表进行下发 shutdown 数据时,同一个组的接口应该被绑定或取消绑定到 PEX 端口。
Bind all interfaces in the same group to IRF/PEX ports or cancel the bindings on all of them. 绑定或取消绑定同一个组的接口到IRF/PEX端口。	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to IRF/PEX ports or the bindings on all of them should be cancelled. 在对接口信息表进行下发 shutdown 数据时,同一个组的接口应该被绑定或取消绑定到 IRF/PEX 端口。
The shutdown, port up-mode and loopback commands are exclusive with each other. Shutdown、loopback和up-mode命令相互互斥。	During executing merge operation for interfaces table, the shutdown, port up-mode and loopback commands are exclusive with each other. 在对接口信息表进行 Merge 操作时 Shutdown loopback 和 up-mode 命令不允许同时被设置。
LOOPBACK can not be specified when port is administratively down. 接口状态显示为Administratively DOWN时，则不能进行内部和外部环回测试。	when the port is administratively down, LOOPBACK can not be specified. 当接口状态显示为 Administratively DOWN 时，则不能进行内部和外部环回测试。
Port up-mode can not be specified when port is administratively down. 接口状态显示为Administratively DOWN时，则不能配置port up-mode。	when the port is administratively down, port up-mode can not be specified. 当接口状态显示为 Administratively DOWN 时，则不能配置 port up-mode。
The specified group doesn't exist. 指定的端口隔离组不存在。	During executing get operation for interfaces table, the specified group doesn't exist. 当对接口信息表进行获取数据时，指定的端口隔离组不存在。
The arguments are incompletely configured. 配置的参数不完整。	During executing set operation for interfaces table, the arguments are incompletely configured. 当对接口进行设置参数时，配置的参数不完整。
The interface has been allocated and can't change the link mode. 接口已经被分配，不支持切换工作模式。	Due to the interface has been allocated, it can't change the link mode. 因为接口已经被分配，不支持切换工作模式。
The value is out of the effective range. 参数值不在有效范围内。	During executing get operation for interfaces table, the value is out of the effective range. 当对接口信息表进行设置时，参数的值不再有效范围内。
The value must be a multiple of 5. 配置值须是5的倍数。	During executing set operation for interfaces table, the value must be a multiple of 5. 当对接口信息表进行设置时，参数的值须是 5 的倍数。
Invalid interface name. 接口名称格式错误。	During executing check operation for interfaces name, the interface name is invalid. 当在检查接口名称格式时出现了错误。

Insufficient system resources. 系统资源不足。	During adding or parsing operation, system resources are insufficient. 当在进行添加或者解析操作时，出现系统资源不足。
%s is not a valid interface name. 包含无效的接口名称%s。	During executing set operation for interfaces name, the interface name in invalid. 当在设置接口名字时包含无效的格式。
The operation failed because the port is a member port of a Layer 2 aggregation group. 操作失败，该接口已经是二层聚合组成员端口。	During executing merge operation for Ethinterfaces table, the operation failed because the port is a member port of a Layer 2 aggregation group. 在对接口信息表进行 merge 操作时，操作失败，该接口已经是二层聚合组成员端口。
The operation failed because the port is joining or leaving a Layer 2 aggregation group. 操作失败，接口正在加入或退出聚合组。	During executing merge operation for Ethinterfaces table, the operation failed because the port is joining or leaving a Layer 2 aggregation group. 在对接口信息表进行 merge 操作时，操作失败，接口正在加入或退出聚合组。
The operation failed because the OLT interface is a member port of an ROLT interface. 操作失败，该接口已经是 OLT 冗余口的成员端口。	During executing set operation for interfaces table, the operation failed because the OLT interface is a member port of an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，该接口已经是 OLT 冗余口成员端口。
The operation failed because the OLT interface is joining or leaving an ROLT interface. 操作失败，接口正在加入或退出 OLT 冗余口。	During executing set operation for interfaces table, the operation failed because the OLT interface is joining or leaving an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，接口正在加入或退出 OLT 冗余口。
When the value is within 10 seconds (10000 milliseconds), the value must be a multiple of 100. 10 秒内，配置值须是 100 的倍数。	During executing set operation for interfaces table, the value must be a multiple of 100. 当对接口信息表进行设置时，参数的值须是 100 的倍数。
When the value is more than 10 seconds (10000 milliseconds), the value must be a multiple of 1000. 超过10秒，配置值须是1000的倍数。	During executing set operation for interfaces table, the value must be a multiple of 1000. 当对接口信息表进行设置时，参数的值须是 1000 的倍数。
The operation failed because of conflicting with the port link-flap configuration. 操作失败，因为与 link-flap 配置冲突。	During executing set operation for interfaces table, the operation conflicts with the port link-flap configuration. Please execute the undo port link-flap enable command first. 在对接口信息表进行 set 操作时，与 link-flap 配置冲突，请先删除 link-flap 配置。
The operation failed because of conflicting with the dampening configuration.	During executing set operation for interfaces table, the operation conflicts with the dampening configuration.

操作失败，因为与 dampening 配置冲突。	Please execute the undo dampening command first. 在对接口信息表进行 set 操作时，与 dampening 配置冲突，请先删除 dampening 配置。

Ifmgr/NewSubInterfaces

Message	Explanation
The %s subinterface number range is %u to %u. %s接口可创建的子接口编号范围是%u到%u。	During executing get operation for SubNum of new subinterfaces table, the subinterface number should be in the valid range. 在对子接口信息表的 SubNum 进行获取操作时，接口可创建的子接口编号的有效范围。
Can not configure this parameter in async flow mode. 当接口工作在异步方式、流模式时不能配置本参数。	When the interface in async flow mode, can not configure this parameter. 当接口工作在异步方式、流模式时不能配置本参数。
Can not delete this interface. 该接口不能被删除。	During executing undo operation for new subinterfaces ,it can not be deleted. 在对子接口进行 undo 操作时，该接口不能被删除。
Failed to delete %s, for %s has member ports. 删除%s失败，因为%s有成员接口。	During executing undo operation for new subinterfaces, it will fail to be deleted because it has member ports. 在对子接口进行 undo 操作时，因为其有成员接口导致删除失败。
The virtual-template is being used and can't be deleted. 接口 virtual-template 正在使用，不能被删除。	During executing undo operation for new subinterfaces, the virtual-template can't be deleted because it is being used. 在对子接口进行 undo 操作时，因为接口 virtual-template 正在使用，不能被删除。
The interface in use cannot be deleted. 接口正在使用，不能被删除。	During executing undo operation for new subinterfaces, the interface in use cannot be deleted. 在对子接口进行 undo 操作时，因为接口正在使用，不能被删除。
The interface cannot be created because the system is busy. 接口创建失败，因为系统忙。	During executing Create operation for new subinterfaces, it will fail to be created because the system is busy. 在对子接口进行创建操作时，因为系统忙，接口创建失败。
The start interface and the end interface must be of the same type.	During executing set operation for sub channel interface name, the start interface and the end interface

'to'关键字前后的两个接口的类型必须一致。	must be of the same type. 在检查子通道接口名时，'to'关键字前后的两个接口的类型必须一致。
The start interface and the end interface must reside on the same card. 'to'关键字前后的两个接口的必须位于同一单板上。	During executing set operation for sub channel interface name, the start interface and the end interface must reside on the same card. 在检查子通道接口名时，'to'关键字前后的两个接口的必须位于同一单板上。
The interfaces beside 'to' must be two subinterfaces or two sub tunnel. 'to'关键字前后的两个接口必须同时为子接口或者为子通道接口。	During executing set operation for sub channel interface name, the interfaces beside 'to' must be two subinterfaces or two sub tunnels. 在检查子通道接口名时，'to'关键字前后的两个接口必须同时为子接口或者为子通道接口。
The start sub interface and the end sub interface must be on the same interface. 前后子接口必须在同一个接口上。	During executing set operation for sub interface, the start sub interface and the end sub interface must be on the same interface. 在对子接口进行设置操作时，前后两个子接口必须在同一个接口上。
The end interface number must be greater than the start interface number. 后面的接口编号必须大于前面的接口编号。	During executing set operation for sub interface, the end interface number must be greater than the start interface number. 在对子接口进行设置操作时，后面的接口编号必须大于前面的接口编号。
Can't create the sub interface because the main interface is in an aggregation group. 不能创建子接口因为主接口在一个聚合口成员。	During executing create operation for sub interface, it can't create the sub interface because the main interface is in an aggregation group. 在执行创建子接口操作时，不能创建子接口因为主接口在一个聚合口成员。
The interface already exists. 接口已存在。	During executing create operation for sub interface , the interface already exists. 在执行创建子接口操作时，接口已存在。
The interface is not a sub interface. 该接口不是子接口。	During executing create operation for sub interface , the interface is not a sub interface. 在执行创建子接口操作时，该接口不是子接口。
The resource has been used. 资源已经在使用中。	暂未引用
The system does not support Reserve Vlan Interface. 系统不支持Reserve Vlan Interface。	暂未引用
Can not create this interface. 无法创建该接口。	During executing create operation for sub interface, this interface can not be created.

	在执行创建子接口操作时，该接口无法被创建。

Ifmgr/EthInterfaces

Message	Explanation
The link aggregation group doesn't exist. 指定的聚合组不存在。	During executing merge operation for Ethinterfaces table, The link aggregation group doesn't exist. 在对接口信息表进行 merge 操作时，指定的聚合组不存在。
%s has been assigned to another aggregation group. %s 已经加入其他聚合组。	During executing merge operation for Ethinterfaces table, the interfaces has been assigned to another aggregation group. 在对接口信息表进行 merge 操作时,该接口已经加入其他聚合组。
Can't assign %s to a link aggregation group because the interface has subinterfaces. %s 加入聚合组失败，因为该端口包含子接口。	During executing merge operation for Ethinterfaces table,can't assign it to a link aggregation group because the interface has subinterfaces. 在对接口信息表进行 merge 操作时，因为该端口包含子接口导致加入聚合组失败。
Can't assign the L2VPN-enabled interface %s to a link aggregation group. %s 加入聚合组失败，因为该端口使能了 L2VPN 业务。	During executing merge operation for Ethinterfaces table, can't assign the L2VPN-enabled interface to a link aggregation group. 在对接口信息表进行 merge 操作时，因为该端口使能了 L2VPN 业务导致加入聚合组失败。
Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. %s 加入聚合组失败，因为该端口使能了端口安全、MAC 认证或者 802.1X 认证。	During executing merge operation for Ethinterfaces table, can't assign it to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. 在对接口信息表进行 merge 操作时，因为该端口使能了端口安全、MAC 认证或者 802.1X 认证导致加入聚合组失败。
Failed to create the link aggregation group. 聚合组创建失败。	During executing merge operation for Ethinterfaces table, failed to create the link aggregation group. 在对接口信息表进行 merge 操作时，聚合组创建失败。
Can't assign the sub interface %s to a link aggregation group. %s 加入聚合组失败，因为该端口是子接口。	During executing merge operation for Ethinterfaces table, can't assign the sub interface to a link aggregation group. 在对接口信息表进行 merge 操作时，因为该端口是子接口导致加入聚合组失败。
Failed to set the hash key mode, because the mode is not supported. 设置负载分担模式失败，因为设备不支持指定的模式。	During executing merge operation for Ethinterfaces table, failed to set the hash key mode, because the mode is not supported. 在对接口信息表进行 merge 操作时，因为设备不支持指定的模式导致设置负载分担模式失败。

The load-sharing mode of flexible can not be configurated with others. 负载分担 flexible 模式不能和其他模式同时配置。	During executing merge operation for Ethinterfaces table, the load-sharing mode of flexible can not be configurated with others. 在对接口信息表进行 merge 操作时，负载分担 flexible 模式不能和其他模式同时配置。
The load-sharing mode of per-packet can not be configurated with others. 负载分担 per-packet 模式不能和其他模式同时配置。	During executing merge operation for Ethinterfaces table, the load-sharing mode of per-packet can not be configurated with others. 在对接口信息表进行 merge 操作时，负载分担 per-packet 模式不能和其他模式同时配置。
Can't assign %s to a link aggregation group because the interface is shared by multiple contexts. %s 加入聚合组失败，因为该端口已被多个 context 共享。	During executing merge operation for Ethinterfaces table, can't assign it to a link aggregation group because the interface is shared by multiple contexts. 在对接口信息表进行 merge 操作时，端口加入聚合组失败，因为该端口已被多个 context 共享。
Can't assign the port to the aggregation group because its attribute configurations are different than the aggregate interface. 接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。	During executing merge operation for Ethinterfaces table, can't assign the port to the aggregation group because its attribute configurations are different than the aggregate interface. 在对接口信息表进行 merge 操作时，接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。
Please set the manual recovery mode for PFC deadlock detection first. 请先配置 PFC 死锁检测功能的恢复方式为手工恢复。	During executing merge operation for lfrecover table, please set the manual recovery mode for PFC deadlock detection first. 在对接口信息表进行 merge 操作时，请先配置 PFC 死锁检测功能的恢复方式为手工恢复。
Please specify the indexes and associated contents for the element 'LAGGMembers'. 对于 merge、create 操作，不能对表 LAGGMembers 只下发索引列，应同时指定索引列和非索引列。	During executing merge operation for Ethinterfaces table, please specify the indexes and associated contents for the element 'LAGGMembe. 在对接口信息表进行 merge 操作时，对于 merge、create 操作，不能对表 LAGGMembers 只下发索引列，应同时指定索引列和非索引列。

Ifmgr/PortIsolation/Interfaces

Message	Explanation
The operation failed because the OLT interface is a member port of an ROLT interface. 操作失败，该接口已经是OLT冗余口的成员端口。	During executing set operation for interfaces table, the operation failed because the OLT interface is a member port of an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，该接口已经是 OLT 冗余口成员端口。
The operation failed because the OLT interface is joining or leaving an ROLT interface. 操作失败，接口正在加入或退出 OLT 冗余口。	During executing set operation for interfaces table, the operation failed because the OLT interface is joining or leaving an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，接口正在加入或

	退出 OLT 冗余口。

Ifmgr/LogicInterfaces

Message	Explanation
The operation failed because the ROLT interface has OLT member ports. 操作失败，该ROLT接口存在OLT成员端口。	An ROLT interface with member ports cannot be deleted. 如果 ROLT 接口存在 OLT 成员端口，不允许删除。

Ifmgr/FlexeInstances

Message	Explanation
Bandwidth configuration already exists for FlexE logical interfaces.Please remove the bandwidth configuration first. 修改 ConfigMode 操作失败，存在业务口使用带宽。	已经存在业务口绑定了带宽，再设置时隙模式
Timeslot binding configuration already exists for FlexE logical interfaces. Please remove the timeslot binding configuration first. 修改 ConfigMode 操作失败，存在业务口使用带宽。	已经存在业务口绑定了时隙，再设置带宽模式

Ifmgr/FlexeGroups

Message	Explanation
The number of FlexE group interfaces must be less than or equal to the number of FlexE physical interfaces on the subslot. 操作失败，超过实际限制。	当创建的 FlexE-Group 接口的个数超过了子卡上 FlexE 物理接口的实际个数时，会提示 FlexE-Group 接口的个数应小于等于子卡上 FlexE 物理接口的实际个数。
Remove the FlexE physical interfaces and FlexE logical interfaces from the FlexE group interface first. 操作失败，应先删除业务口。	当指定的 FlexE-Group 接口中存在 FlexE 物理接口或 FlexE 业务接口时，不允许删除 FlexE-Group 接口，会提示需要先清除 FlexE-Group 接口中的 FlexE 物理接口或 FlexE 业务接口。
The FlexE interface group doesn’t exist. 操作失败，提示该组不存在。	当配置大的 flexe-group 命令时，若加入的 group 不存在，会提示指定的 group 不存在。
Remove the FlexE physical interfaces and FlexE logical interfaces from the FlexE group interface first. 做操失败，存在业务口。	存在业务口在使用，应先删除物理口和逻辑口对应的业务。

Ifmgr/BindPhyInterfaces

Message	Explanation
A FlexE physical interface with the same PHY number has already been bound to the FlexE group interface. 操作失败，存在相同编号。	当 group 内已经有物理口配置了 phy-number 参数，若另一个物理口配置相同的 phy-number 参数加入同一个 group，会提示当前 phy-number 已存在。
The FlexE physical interface has already been bound to another FlexE group interface. 操作失败，该物理口已被使用。	当指定的物理口已经绑定在其他 group 下，会提示物理口已绑定。
Operation failed because the bandwidth resources of the FlexE physical interface are being used by a FlexE logical interface. 操作失败，存在业务使用。	当该 FlexE 物理接口的带宽已经被 FlexE 使用时，不能删除 FlexE 物理接口或修改 FlexE 物理接口的 phy-number，提示物理接口的带宽已被业务接口使用。
Remove the FlexE physical interfaces and FlexE logical interfaces from the FlexE group interface first. 操作失败，应先删除业务口。	当指定的 FlexE-Group 接口中存在 FlexE 物理接口或 FlexE 业务接口时，不允许删除 FlexE-Group 接口，会提示需要先清除 FlexE-Group 接口中的 FlexE 物理接口或 FlexE 业务接口。
The physical FlexE interface and the FlexE logical interface must be on the same subslot. 操作失败，不存在该资源。	绑定不属于本板的物理 Flexe 口。

Ifmgr/Clients

Message	Explanation
Please first bind the FlexE physical interface to the FlexE group interface first. 操作失败，未绑定物理口。	当指定 FlexE-Group 口未绑定物理口，若此时配置 client 命令，会提示物理口未绑定。
Not enough bandwidth resources. 操作失败，带宽资源不足。	当绑定带宽时，子卡上带宽资源不足，会提示配置失败，带宽资源不足。
Not enough hardware resources to create a FlexE logical interface. 操作失败，硬件资源不足。	当配置 client-id 时，子卡硬件资源不足，不能创建对应的 FlexE 业务接口，此时提示配置失败，没有足够的硬件资源。
The client ID is being used by another FlexE group interface. 操作失败，该业务口已经存在。	该业务口已经存在。
This configuration conflicts with the current Configmode.	带宽模式下配置时隙或者时隙模式下配置带宽。

该配置与当前带宽模式冲突。	

Ifmgr/TimeSlots

Timeslots of the FlexE physical interface are being used by other FlexE logical interfaces. 操作失败，资源已被占用。	当绑定的 client 指定 timeslot 时，指定物理口的 timeslot 已被其他 client 使用，会提示配置失败，timeslot 冲突。
The specified timeslots must be already bound to the FlexE logical interface. 操作失败，不存在该设置。	存在未绑定时隙，删除失败。
Some of the timeslots have already been bound to another FlexE logical interface. 操作失败，资源已被占用。	存在已被占用的时隙。
Timeslots of the FlexE physical interface haven't been bound to the FlexE logical interface. 操作失败，不存在该资源。	解绑未绑定的物理接口时隙。

Ifmgr/ClientChannels

The client ID and client channel ID must be different. 操作失败，该 ID 已被使用	当创建 client-channel 视图时，指定的 ID 已被其他 client 使用，会提示创建失败，id 冲突
Operation failed, because the client channel or interface has been configured with a FG client ID 操作失败，存在业务口	当更改 client-channel 视图下模式时，存在业务口时会被提示，应删除该视图下业务口

Contents

Interface event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
Bandwidth event ····· 3
XML structure for event subscription ····· 3
XML structure for event report ····· 4
Speed event ····· 5
XML structure for event subscription ····· 5
XML structure for event report ····· 6

Interface event

This event is used to report interface active/deactive or up/down information.

XML structure for event subscription

```
<InterfaceEvent>
  <Interface>
    <Name></Name>
    <IfType></IfType>
  </Interface>
</InterfaceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmgr</stream>
    <filter type="subtree">
      <InterfaceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <Interface>
          <Name>Serial2/0/1</Name>
        </Interface>
      </InterfaceEvent>
    </filter>
  </create-subscription>
</rpc>

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmgr</stream>
    <filter type="subtree">
      <InterfaceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <Interface>
          <IfType>50</IfType>
        </Interface>
      </InterfaceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr
Event name	InterfaceEvent

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No
IfType	Interface type	Unsigned integer. For more information, see Table 2 in Ifmgr NETCONF XML API Data Reference.	No

XML structure for event report

```
<InterfaceEvent>
  <Interface>
    <Name></Name>
    <Status></Status>
    <IfIndex></IfIndex>
    <Adminstatus></Adminstatus>
    <Operstatus></Operstatus>
    <Description></Description>
  </Interface>
</InterfaceEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <InterfaceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <Interface>
      <Name>Serial2/0/1</Name>
      <Status>IF_LINK_UP</Status>
      <IfIndex></IfIndex>
      <Adminstatus >ADMIN_UP</Adminstatus>
      <Operstatus>OPER_UP</Operstatus>
      <Description>The Interface GigabitEthernet2/0/1 occurred IF_LINK_UP event,the
      administration status is ADMIN_UP,operation status is OPER_UP.</Description>
    </Interface>
  </InterfaceEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No
Status	Interface status	Enumeration: IF_ACTIVE IF_DEACTIVE IF_PHY_UP IF_PHY_DOWN IF_LINK_UP IF_LINK_DOWN	No
Description	Ifmgr event description	String. Size: 1 to 255	No
IfIndex	Interface index	Unsigned integer.	No
AdminStatus	Administration status of an interface	Unsigned integer. • ADMIN_UP. • ADMIN_DOWN.	No
OperStatus	Operation status of an interface	Unsigned short. • OPER_UP. • OPER_DOWN. • OPER_TESTING. • OPER_UNKNOW. • OPER_DORMANT. • OPER_NOTPERSENT. • OPER_LOWERLAYERDOWN.	No

Bandwidth event

This event is used to report bandwidth change information.

XML structure for event subscription

```
<InterfaceBandWidthEvent>
  <InterfaceBandWidth>
    <Name></Name>
  </InterfaceBandWidth>
</InterfaceBandWidthEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmgr</stream>
    <filter type="subtree">
```

```
      <InterfaceBandWidthEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <InterfaceBandWidth>
          <Name>Serial2/0/1</Name>
        </InterfaceBandWidth>
      </InterfaceBandWidthEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr
Event name	BandwidthEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<InterfaceBandWidthEvent>
  <InterfaceBandWidth>
    <IfIndex></IfIndex>
    <Name></Name>
    <CFGBandWidth></CFGBandWidth>
    <Description></Description>
  </InterfaceBandWidth>
</InterfaceBandWidthEvent>
```

Example 1:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <InterfaceBandWidthEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <InterfaceBandWidth>
      <IfIndex>274</IfIndex>
      <Name>GigabitEthernet2/0/1</Name>
      <CFGBandWidth>100000</CFGBandWidth>
      <Description> The interface GigabitEthernet2/0/1 's configured bandwidth is
                  100000.</Description>
     </InterfaceBandWidth>
  </InterfaceBandWidthEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
Name	Interface name	String. Size: 1 to 47	No
BandWidth	Effective bandwidth value	Unsigned integer.	No
CFGBandWidth	Configured bandwidth value	Unsigned integer.	No
Description	Ifmgr event description	String. Size: 1 to 255	No

Speed event

This event is used to report baud-rate or speed-rate change information.

XML structure for event subscription

```
<InterfaceSpeedEvent>
  <InterfaceSpeed>
    <Name></Name>
  </InterfaceSpeed>
</InterfaceSpeedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmgr</stream>
    <filter type="subtree">
      <InterfaceSpeedEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <InterfaceSpeed>
          <Name>Serial2/0/1</Name>
        </InterfaceSpeed>
      </InterfaceSpeedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr

Item	Description
Event name	SpeedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<InterfaceSpeedEvent>
  <InterfaceSpeed>
    <Name></Name>
    <BandWidth></BandWidth>
    <Description></Description>
  </InterfaceSpeed>
</InterfaceSpeedEvent>
```

Example 1:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <InterfaceSpeedEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <InterfaceSpeed>
      <IfIndex>274</IfIndex>
      <Name>GigabitEthernet2/0/1</Name>
      <Bandwidth>5000</Bandwidth>
      <Description>The effective-bandwidth(baud-rate) of GigabitEthernet2/0/1 is
                   5000.</Description>
     </InterfaceSpeed>
  </InterfaceSpeedEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
Name	Interface name	String. Size: 1 to 47	No
Bandwidth	Effective bandwidth value	Unsigned integer.	No
Description	Ifmgr event	String.	No

Column name	Column description	Data type and restrictions	Support for extended queries
	description	Size: 1 to 255	

Contents

Ifmon 1
Ifmon/IfMonThresholdInterfaces 1
XML structure 1
Table description 2
Columns 3
Appendix 8

Ifmon

Ifmon/IfMonThresholdInterfaces

This table contains interface monitor threshold information.

XML structure

```
<Ifmon>
  <IfMonThresholdInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </InputUsage>
      <OutputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </OutputUsage>
      <InputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </InputErrorAlarm>
      <OutputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </OutputErrorAlarm>
      <SdhError>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhError>
      <SdhB1Error>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB1Error>
      <SdhB2Error>
        <HighThres></HighThres>
```

```
      <LowThres></LowThres>
      <Interval></Interval>
      <EnableShutdown></EnableShutdown>
    </SdhB2Error>
    <CRCError>
      <Type></Type>
      <HighThres></HighThres>
      <LowThres></LowThres>
      <Interval></Interval>
      <EnableShutdown></EnableShutdown>
    </CRCError>
    <RxPauseFrame>
      <HighThres></HighThres>
      <LowThres></LowThres>
      <Interval></Interval>
    </RxPauseFrame>
    <TxPauseFrame>
      <HighThres></HighThres>
      <LowThres></LowThres>
      <Interval></Interval>
      <EnableShutdown></EnableShutdown>
    </TxPauseFrame>
    <Giant>
      <HighThres></HighThres>
      <LowThres></LowThres>
      <Interval></Interval>
      <EnableShutdown></EnableShutdown>
    </Giant>
    <Runt>
      <HighThres></HighThres>
      <LowThres></LowThres>
      <Interval></Interval>
      <EnableShutdown></EnableShutdown>
    </Runt>
  </Interface>
</IfMonThresholdInterfaces>
</Ifmon>
```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonThresholdInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see "Appendix"
InputUsage	Threshold for the inbound bandwidth usage	N/A	Include: • HighThres • LowThres	N/A
HighThres	Upper threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutputUsage	Threshold for the outbound bandwidth usage	N/A	Include: • HighThres • LowThres	N/A
HighThres	Upper threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InputErrorAlarm	Threshold for the number of inbound error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of inbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the inbound	N/A	Boolean: • true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bandwidth exceeds the upper threshold, the physical interface goes down		• false	
OutputErrorAlarm	Threshold for the number of outbound error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of outbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of outbound error packets exceeds the upper threshold, the physical interface goes down	N/A	Boolean: • true • false	N/A
SdhError	Threshold for the number of SDH error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH error packets exceeds the	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	upper threshold, the physical interface goes down.			
SdhB1Error	Threshold for the number of SDH B1 error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B1 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
SdhB2Error	Threshold for the number of SDH B2 error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B2 error packets exceeds the upper threshold, the physical interface goes	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	down.			
CRCErrorThres	Threshold for the CRC error packets.	N/A	Include: • Type • HighThres • LowThres • Interval • EnableShutdown	N/A
Type	Inspection type for the CRC error packets	N/A	Enumeration: • 1—absolute • 2—ratio	N/A
HighThres	Upper threshold for the CRC error packets.	N/A	Unsigned integer. Value range: • absolute: 1–4294967295 • ratio: 1 to 100	N/A
LowThres	Low threshold for the CRC error packets.	N/A	Unsigned integer. Value range: • absolute: 1–4294967295 • ratio: 1 to 100	N/A
Interval	Inspection interval for the CRC error packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of CRC error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
RxPauseFrame	Threshold for the number of received pause frames.	N/A	Include: • HighThres • LowThres • Interval	N/A
HighThres	Upper threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of received pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TxPauseFram	Threshold for the number of transmitted pause frames.	N/A	Include: • HighThres • LowThres • Interval	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThres	Upper threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of transmitted pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of transmitted pause frames exceeds the upper threshold, the physical interface goes down	N/A	Boolean: • True • false	N/A
Giant	Threshold for the number of Giant error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of Giant error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of Giant error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of Giant error packets.	N/A	Unsigned integer : Value range: 1 to 65535.	N/A
EnableShutdown	When the number of Giant error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
Runt	Threshold for the number of Runt error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThres	Upper threshold for the number of Runt error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of Runt error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of Runt error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of Runt error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A

Appendix

A string can contain multiple items that are separated by commas (,). An item can be in one of the following formats:

- *interface name*
- *interface range-name*
- *interface name A to interface name B*

When you use an item in the *interface name* format, follow these restrictions and guidelines:

- Spaces are not allowed between the interface type and interface number.

  Example:

  Correct: GigabitEthernet1/3/0/1

  Incorrect: GigabitEthernet 1/3/0/1
- If the interface name is the same as an existing interface range name, the system sends the request to interfaces in the interface range rather than the interface.

  Example:

  If you have configured the **interface range name** *Ten-Giga1/2/0/1* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1** as an item, the system sends the request to interfaces in the interface range named **Ten-Giga1/2/0/1**.

When you use an item in the *interface range name* format, follow these restrictions and guidelines:

- If the interface range name is in the *interface name A,interface name B* format, the system sends the request to interface A and interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1,Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1,Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces

Ten-GigabitEthernet 1/2/0/1 and Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

- If the interface range name is in the *interface name A* to *interface name B* format, the system sends the request to interfaces interface A through interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 through Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

When you use an item in the *interface name A to interface name B* format, follow these restrictions and guidelines:

- The interfaces before and after the word **to** must be of the same type and reside on the same card and sub-card.
- If the interfaces are subinterfaces, they must also belong to the same main interface.
- The end interface number must be larger than the start interface number.

Example:

Incorrect:

Ten2/0/1 to Ten3/0/2 The start and end interfaces reside on different cards.

Ten2/0/1 to Ten2/1/2 The start and end interfaces reside on different sub-cards.

Ten2/0/1 to Ten2/0/1:3 The start and end interfaces are of different types.

Giga2/0/1 to Ten2/0/25 The start and end interfaces are of different types.

Ten2/0/3:1 to Ten2/0/4:2 The start and end subinterfaces belong to different main interfaces.

Ten2/0/3:4 to Ten2/0/3:1 The start interface number is larger than the end interface number.

Correct:

Ten2/0/1 to Ten2/0/5

Ten2/0/1:1 to Ten2/0/1:100

Contents

Ifmon 1

Ifmon/IfMonStatisticsInterfaces 1
XML structure 1
Table description 1
Columns 1
Ifmon/IfMonThresholdInterfaces 3
XML structure 3
Table description 4
Columns 5
Ifmon/IfMonPmStatisticsInterfaces 10
XML structure 10
Table description 11
Columns 11
Ifmon/IfMonPmStatisticsPeakTasks 13
XML structure 13
Table description 14
Columns 14
Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces 15
XML structure 15
Table description 15
Columns 15
Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InBitRatePeaks 16
XML structure 16
Table description 16
Columns 16
Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/OutBitRatePeaks 17
XML structure 17
Table description 17
Columns 17
Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InPacketRatePeaks 18
XML structure 18
Table description 18
Columns 18
Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/OutPacketRatePeaks 18
XML structure 18
Table description 19
Columns 19

Ifmon

Ifmon/IfMonStatisticsInterfaces

This table contains basic interface monitor statistics information.

XML structure

```
<Ifmon>
  <IfMonStatisticsInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsageStatistics></InputUsageStatistics>
      <OutputUsageStatistics></OutputUsageStatistics>
      <InputErrorAlarmStatistics></InputErrorAlarmStatistics>
      <OutputErrorAlarmStatistics></OutputErrorAlarmStatistics>
      <SdhErrorStatistics></SdhErrorStatistics>
      <SdhB1ErrorStatistics></SdhB1ErrorStatistics>
      <SdhB2ErrorStatistics></SdhB2ErrorStatistics>
      <CRCErrorStatistics></CRCErrorStatistics>
      <RxPauseFrameStatistics></RxPauseFrameStatistics>
      <TxPauseFrameStatistics></TxPauseFrameStatistics>
      <RuntStatistics></RuntStatistics>
      <GiantStatistics></GiantStatistics>
    </Interface>
  </IfMonStatisticsInterfaces>
</Ifmon>
```

Table description

Item	Description
Feature name	ifmon
Table name	IfMonStatisticsInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmon NETCONF XML API Configuration Reference.
InputUsageStatistics	Statistics about the inbound bandwidth usage	N/A	Unsigned integer. Value range: 0 to 100.	N/A
OutputUsageStatistics	Statistics about the outbound bandwidth usage.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
InputErrorAlarmStatistics	Statistics about the number of inbound error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutputErrorAlarmStatistics	Statistics about the number of outbound error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SdhErrorStatistics	Statistics about the number of SDH error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SdhB1ErrorStatistics	Statistics about the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SdhB2ErrorStatistics	Statistics about the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
CRCErrorStatistics	Statistics about the number of CRC error packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RxPauseFrameStatistics	Statistics about the number of received pause frames.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
TxPauseFrameStatistics	Statistics about the number of transmitted pause frames	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RuntStatistics	Statistics about the number of Runt packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GiantStatistics	Statistics about the number of	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Giant packets.			

Ifmon/IfMonThresholdInterfaces

This table contains interface monitor threshold information.

XML structure

```
<Ifmon>
  <IfMonThresholdInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </InputUsage>
      <OutputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </OutputUsage>
      <InputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </InputErrorAlarm>
      <OutputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </OutputErrorAlarm>
      <SdhError>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhError>
      <SdhB1Error>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB1Error>
      <SdhB2Error>
```

```
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB2Error>
      <CRCError>
        <Type></Type>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </CRCError>
      <RxPauseFrame>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
      </RxPauseFrame>
      <TxPauseFrame>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </TxPauseFrame>
      <Giant>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </Giant>
      <Runt>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </Runt>
    </Interface>
  </IfMonThresholdInterfaces>
</Ifmon>
```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonThresholdInterfaces
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmon NETCONF XML API Configuration Reference.
InputUsage	Threshold for the inbound bandwidth usage	N/A	Include: • HighThres • LowThres	N/A
HighThres	Upper threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutputUsage	Threshold for the outbound bandwidth usage.	N/A	Include: • HighThres • LowThres	N/A
HighThres	Upper threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InputErrorAlarm	Threshold for the number of inbound error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the number of inbound error packets.			
Interval	Inspection interval for the number of inbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the inbound bandwidth exceeds the upper threshold, the physical interface goes down	N/A	Boolean: • true • false	N/A
OutputErrorAlarm	Threshold for the number of outbound error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of outbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of outbound error packets exceeds the upper threshold, the physical interface goes down	N/A	Boolean: • true • false	N/A
SdhError	Threshold for the number of SDH error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SDH error packets.			
Interval	Inspection interval for the number of SDH error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
SdhB1Error	Threshold for the number of SDH B1 error packets.	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B1 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
SdhB2Error	Threshold for the number of SDH B2 error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Inspection interval for the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B2 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
CRCErrorThres	Threshold for the CRC error packets.	N/A	Include: • Type • HighThres • LowThres • Interval • EnableShutdown	N/A
Type	Inspection type for the CRC error packets	N/A	Enumeration: • 1—absolute • 2—ratio	N/A
HighThres	Upper threshold for the CRC error packets.	N/A	Unsigned integer. Value range: • absolute: 1–4294967295 • ratio: 1 to 100	N/A
LowThres	Low threshold for the CRC error packets.	N/A	Unsigned integer. Value range: • absolute: 1–4294967295 • ratio: 1 to 100	N/A
Interval	Inspection interval for the CRC error packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of CRC error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
RxPauseFrame	Threshold for the number of received pause frames	N/A	Include: • HighThres • LowThres • Interval	N/A
HighThres	Upper threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Inspection interval for the number of received pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TxPauseFram	Threshold for the number of transmitted pause frames	N/A	Include: • HighThres • LowThres • Interval	N/A
HighThres	Upper threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of transmitted pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of transmitted pause frames exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A
Giant	Threshold for the number of Giant error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of Giant error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of Giant error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of Giant error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of Giant error packets exceeds the upper threshold,	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the physical interface goes down.			
Runt	Threshold for the number of Runt error packets	N/A	Include: • HighThres • LowThres • Interval • EnableShutdown	N/A
HighThres	Upper threshold for the number of Runt error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of Runt error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of Runt error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of Runt error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: • true • false	N/A

Ifmon/IfMonPmStatisticsInterfaces

This table contains interface performance management statistics.

XML structure

```
<Ifmon>
  <IfMonPmStatisticsInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <TaskName></TaskName>
      <DataIndex></DataIndex>
      <IfName></IfName>
      <Timestamp></Timestamp>
      <InSpeedBit>
        <ValidFlag></ValidFlag>
        <PeakValue></PeakValue>
        <PeakTimestamp></PeakTimestamp>
        <ValleyValue></ValleyValue>
        <ValleyTimestamp></ValleyTimestamp>
```

```
      <AverageValue></AverageValue>
    </InSpeedBit>
    <OutSpeedBit>
      <ValidFlag></ValidFlag>
      <PeakValue></PeakValue>
      <PeakTimestamp></PeakTimestamp>
      <ValleyValue></ValleyValue>
      <ValleyTimestamp></ValleyTimestamp>
      <AverageValue></AverageValue>
    </OutSpeedBit>
  </Interface>
 </IfMonPmStatisticsInterfaces>
</Ifmon>
```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonPmStatisticsInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmon NETCONF XML API Configuration Reference.
TaskName	Statistical task name of an interface	Index	String. Length: 1 to 31 characters.	N/A
DataIndex	Statistical data index	Index	Unsigned integer. Value range: 0 to 16.	0 means the real-time data in the current unexpired statistics interval.

Column name	Column description	Column type	Data type and restrictions	Remarks
				1 means the data in the latest complete statistics interval, and so on. 16 means the data in the earliest complete statistics interval.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Timestamp	Statistical timestamp	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InSpeedBit	Rate of inbound bits on an interface	N/A	Include: • ValidFlag • PeakValue • PeakTimestamp • ValleyValue • ValleyTimestamp • AverageValue	N/A
ValidFlag	Valid identification of the statistical task of InSpeedBit	N/A	Enumeration: • **0**—No statistics. • **1**—Valid.	N/A
PeakValue	Peak value of each sample interval in the statistical interval of InSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimestamp	Peak time of each sample interval in the statistical interval of InSpeedBit	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ValleyValue	Valley value of each sample interval in the statistical interval of InSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ValleyTimestamp	Valley time of each sample interval in the statistical interval of InSpeedBit	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AverageValue	Average value of each sample interval in the statistical interval of InSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutSpeedBit	Rate of outbound bits on an interface	N/A	Include: • ValidFlag	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• PeakValue • PeakTimestamp • ValleyValue • ValleyTimestamp • AverageValue	
ValidFlag	Valid identification of the statistical task of OutSpeedBit	N/A	Enumeration: • **0**—No statistics. • **1**—Valid.	N/A
PeakValue	Peak value of each sample interval in the statistical interval of OutSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimestamp	Peak time of each sample interval in the statistical interval of OutSpeedBit	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ValleyValue	Valley value of each sample interval in the statistical interval of OutSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ValleyTimestamp	Valley time of each sample interval in the statistical interval of OutSpeedBit	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AverageValue	Average value of each sample interval in the statistical interval of OutSpeedBit	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Ifmon/IfMonPmStatisticsPeakTasks

This table contains traffic peak task information.

XML structure

```
<Ifmon>
  <IfMonPmStatisticsPeakTasks>
    <Task>
      <TaskName></TaskName>
      <Interfaces>
        <Interface>
          <IfName></IfName>
          <InBitRatePeaks>
            <InBitRatePeak>
```

```
            <PeakIndex></PeakIndex>
            <PeakValue></PeakValue>
            <PeakTimeStamp></PeakTimeStamp>
          </InBitRatePeak>
        </InBitRatePeaks>
        <OutBitRatePeaks>
          <OutBitRatePeak>
            <PeakIndex></PeakIndex>
            <PeakValue></PeakValue>
            <PeakTimeStamp></PeakTimeStamp>
          </OutBitRatePeak>
        </OutBitRatePeaks>
        <InPacketRatePeaks>
          <InPacketRatePeak>
            <PeakIndex></PeakIndex>
            <PeakValue></PeakValue>
            <PeakTimeStamp></PeakTimeStamp>
          </InPacketRatePeak>
        </InPacketRatePeaks>
        <OutPacketRatePeaks>
          <OutPacketRatePeak>
            <PeakIndex></PeakIndex>
            <PeakValue></PeakValue>
            <PeakTimeStamp></PeakTimeStamp>
          </OutPacketRatePeak>
        </OutPacketRatePeaks>
      </Interface>
    </Interfaces>
  </Task>
 </IfMonPmStatisticsPeakTasks>
</Ifmon>
```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonPmStatisticsPeakTasks
Table type	Multi-instance table
Row name	Task
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TaskName	Statistical task	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name of an interface		Length: 1 to 31 characters.	
Interfaces	History peak rate on an interface.	Subtable	N/A	For more information, see the Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces.

Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces

This table contains interface traffic peak information.

XML structure

See the XML structure of IfMonPmStatisticsPeakTasks.

Table description

Item	Description
Feature name	Ifmon
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
InBitRatePeaks	History peak rate of inbound traffic on an interface.	Subtable	N/A	For more information, see the Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InBitRatePeaks table.
OutBitRatePeaks	History peak rate of outbound traffic on an	Subtable	N/A	For more information, see the Ifmon/IfMonPmStatisti

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface.			csPeakTasks/Task/Interfaces/Interface/OutBitRatePeaks table.
InPacketRatePeaks	History peak rate of inbound packets on an interface.	Subtable	N/A	For more information, see the Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InPacketRatePeaks table.
OutPacketRatePeaks	History peak rate of outbound packets on an interface.	Subtable	N/A	For more information, see the Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/OutPacketRatePeaks table.

Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InBitRatePeaks

This table contains the history peak rate of inbound traffic on an interface.

XML structure

See the XML structure of IfMonPmStatisticsPeakTasks.

Table description

Item	Description
Feature name	Ifmon
Table name	InBitRatePeaks
Table type	Multi-instance table
Row name	InBitRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of inbound traffic.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of inbound traffic in bps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakTimeStamp	Time when the peak inbound traffic rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A.

Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/OutBitRatePeaks

This table contains the history peak rate of outbound traffic on an interface.

XML structure

See the XML structure of IfMonPmStatisticsPeakTasks.

Table description

Item	Description
Feature name	Ifmon
Table name	OutBitRatePeaks
Table type	Multi-instance table
Row name	OutBitRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of outbound traffic.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of outbound traffic in bps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak outbound traffic rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A.

Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/InPacketRatePeaks

This table contains the history peak rate of inbound packets on an interface.

XML structure

See the XML structure of IfMonPmStatisticsPeakTasks.

Table description

Item	Description
Feature name	Ifmon
Table name	InPacketRatePeaks
Table type	Multi-instance table
Row name	InPacketRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of inbound packets.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of inbound packets in pps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak inbound packet rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A.

Ifmon/IfMonPmStatisticsPeakTasks/Task/Interfaces/Interface/OutPacketRatePeaks

This table contains the history peak rate of outbound packets on an interface.

XML structure

See the XML structure of IfMonPmStatisticsPeakTasks.

Table description

Item	Description
Feature name	Ifmon
Table name	OutPacketRatePeaks
Table type	Multi-instance table
Row name	OutPacketRatePeak
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeakIndex	Ranking of the history peak rate of outbound packets.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PeakValue	Peak rate of outbound packets in pps.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakTimeStamp	Time when the peak outbound packet rate occurred.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS..	N/A.

Ifmon 2
Ifmon/IfMonThresholdInterfaces 2

Ifmon

Ifmon/IfMonThresholdInterfaces

Message	Explanation
This interface does not support the operation. 该接口不支持本操作。	During executing remove or delete operation for Ifmonthresholdinterfaces table, the interface does not support the operation. 在对 Ifmonthresholdinterfaces 接口信息表进行删除操作时，该接口不支持本操作。
Please specify the type, high-threshold, and low-threshold parameters at same time. 请同时指定 CRC 错误报文告警参数中的类型、上限阈值和下限阈值。	During executing set operation for Ifmonthresholdinterfaces table, Please specify the type, high-threshold, and low-threshold parameters at same time. 在对 Ifmonthresholdinterfaces 接口信息表进行设置操作时，请同时指定 CRC 错误报文告警参数中的类型、上限阈值和下限阈值。
Please specify the type, high-threshold, low-threshold, and interval parameters at same time. 请同时指定 CRC 错误报文告警参数中的类型、上限阈值、下限阈值和时间间隔。	During executing set operation for Ifmonthresholdinterfaces table, please handle type, high-threshold, low-threshold, and interval at same time Please specify the type, high-threshold, low-threshold, and interval parameters at same time. 在对 Ifmonthresholdinterfaces 接口信息表进行设置操作时，请同时指定 CRC 错误报文告警参数中的类型、上限阈值、下限阈值和时间间隔。
The high trap threshold must be greater than or equal to the low trap threshold. 上限阈值必须大于或等于下限阈值。	During executing set operation for Ifmonthresholdinterfaces table, The high trap threshold must be greater than or equal to the low trap threshold. 在对 Ifmonthresholdinterfaces 接口信息表进行设置操作时，上限阈值必须大于或等于下限阈值。
When you configure the CRC thresholds in percent, the threshold values cannot be greater than 100%. 以百分比形式配置 CRC 错误报文告警阈值时，阈值不应当大于 100%。	During executing set operation for Ifmonthresholdinterfaces table, the threshold values cannot be greater than 100% When you configure the CRC thresholds in percent. 在对 Ifmonthresholdinterfaces 接口信息表进行设置操作时，以百分比形式配置 CRC 错误报文告警阈值时，阈值不应当大于 100%。
There is no configure, please input configure	During executing set operation for

parameters. 不存在 CRC 错误报文告警参数，请同时指定类型、上限阈值、下限阈值和时间间隔。	Ifmonthresholdinterfaces table, please input configure parameters when there is no configure. 在对 Ifmonthresholdinterfaces 接口信息表进行设置操作时，当不存在 CRC 错误报文告警参数时请同时指定类型、上限阈值、下限阈值和时间间隔。

Contents

IfmonStatisticsEvent event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
IfmonInputUsageAlarmEvent event ····· 3
XML structure for event subscription ····· 3
XML structure for event report ····· 4
IfmonInputUsageRecoverEvent event ····· 5
XML structure for event subscription ····· 5
XML structure for event report ····· 6
IfmonOutputUsageAlarmEvent event ····· 7
XML structure for event subscription ····· 7
XML structure for event report ····· 7
IfmonOutputUsageRecoverEvent event ····· 8
XML structure for event subscription ····· 8
XML structure for event report ····· 9

IfmonStatisticsEvent event

This event is used to report interface statistics information.

XML structure for event subscription

```
<IfmonStatisticsEvent>
  <Interface>
    <IfIndex></IfIndex>
    <TaskName></TaskName>
  </Interface>
</IfmonStatisticsEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmon</stream>
    <filter type="subtree">
      <IfmonStatisticsEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
        <Interface>
          <IfIndex>271</IfIndex>
          <TaskName>task1</TaskName>
        </Interface>
      </IfmonStatisticsEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmon
Event name	IfmonStatisticsEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer	No
TaskName	Statistical task name of an interface	String. Length: 1 to 31 characters.	No

XML structure for event report

```
<IfmonStatisticsEvent>
  <Interface>
    <IfIndex></IfIndex>
    <TaskName></TaskName>
    <Measure>
      <MeasureName></MeasureName>
      <PeakValue></PeakValue>
      <PeakTimestamp></PeakTimestamp>
      <ValleyValue></ValleyValue>
      <ValleyTimestamp></ValleyTimestamp>
      <AverageValue></AverageValue>
    </Measure>
  </Interface>
</IfmonStatisticsEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-19T09:10:51</eventTime>
  <IfmonStatisticsEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
    <Interface>
      <IfIndex>271</IfIndex>
      <TaskName>task1</TaskName>
      <Measure>
        <MeasureName>InSpeedBit</MeasureName>
        <PeakValue>1000</PeakValue>
        <PeakTimestamp>2018-11-19T18:20:00</PeakTimestamp>
        <ValleyValue>600</ValleyValue>
        <ValleyTimestamp>2018-11-19T18:25:00</ValleyTimestamp>
        <AverageValue>700</AverageValue>
        <MeasureName>OutSpeedBit</MeasureName>
        <PeakValue>1000</PeakValue>
        <PeakTimestamp>2018-11-19T18:20:00</PeakTimestamp>
        <ValleyValue>600</ValleyValue>
        <ValleyTimestamp>2018-11-19T18:25:00</ValleyTimestamp>
        <AverageValue>700</AverageValue>
      </Measure>
    </Interface>
  </IfmonStatisticsEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
TaskName	Statistical task name of an interface	String. Length: 1 to 31 characters.	No
MeasureName	Statistical measure name of an interface	String. Length: 1 to 63 characters.	No
PeakValue	Peak value of each sample interval in the statistical interval	Unsigned integer. Value range: 0 to 2^{64} - 1.	No
PeakTimestamp	Peak time of each sample interval in the statistical interval of measure	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	No
ValleyValue	Valley value of each sample interval in the statistical interval of measure	Unsigned integer. Value range: 0 to 2^{64} - 1.	No
ValleyTimestamp	Valley time of each sample interval in the statistical interval of measure	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	No
AverageValue	Average Value of each sample interval in the statistical interval of measure	Unsigned integer. Value range: 0 to 2^{64} - 1.	No

IfmonInputUsageAlarmEvent event

This event is used to report interface input-usage alarm information.

XML structure for event subscription

```
<IfmonInputUsageAlarmEvent>
  <Interface>
    <IfName> </IfName>
  </Interface>
</IfmonInputUsageAlarmEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmon</stream>
    <filter type="subtree">
```

```
    <IfmonInputUsageAlarmEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
      <Interface>
        <IfName>GigabitEthernet2/0/1</IfName>
      </Interface>
    </IfmonInputUsageAlarmEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmon
Event name	IfmonInputUsageAlarmEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<IfmonInputUsageAlarmEvent>
  <Interface>
    <IfName></IfName>
    <HighThres></HighThres>
    <LowThres></LowThres>
    <InputUsage></InputUsage>
  </Interface>
</IfmonInputUsageAlarmEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-10-30T09:10:51</eventTime>
  <IfmonInputUsageAlarmEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
    <Interface>
     <IfName>GigabitEthernet2/0/1</IfName>
    <HighThres>70</HighThres>
    <LowThres>10</LowThres>
    <InputUsage>80</InputUsage>
    </Interface>
  </IfmonInputUsageAlarmEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No
HighThres	Upper threshold	Unsigned integer. Value range: 1 to 100.	No
LowThres	Lower threshold	Unsigned integer. Value range: 1 to 100.	No
InputUsage	Input usage (%)	Unsigned integer. Value range: 0 to 100.	No

IfmonInputUsageRecoverEvent event

This event is used to report interface input-usage recovery information.

XML structure for event subscription

```
<IfmonInputUsageRecoverEvent>
  <Interface>
    <IfName></IfName>
  </Interface>
</IfmonInputUsageRecoverEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmon</stream>
    <filter type="subtree">
      <IfmonInputUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
        <Interface>
          <IfName>GigabitEthernet2/0/1</IfName>
        </Interface>
      </IfmonInputUsageRecoverEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmon
Event name	IfmonInputUsageRecoverEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<IfmonInputUsageRecoverEvent>
  <Interface>
    <IfName></IfName>
    <HighThres></HighThres>
    <LowThres></LowThres>
    <InputUsage></InputUsage>
  </Interface>
</IfmonInputUsageRecoverEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-10-30T09:10:51</eventTime>
  <IfmonInputUsageRecoverEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
    <Interface>
<Name>GigabitEthernet2/0/1</Name>
    <HighThres>70</HighThres>
    <LowThres>10</LowThres>
    <InputUsage>5</InputUsage>
    </Interface>
  </IfmonInputUsageRecoverEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No
HighThres	Upper threshold	Unsigned integer. Value range: 1 to 100.	No
LowThres	Lower threshold	Unsigned integer. Value range: 1 to 100.	No
InputUsage	Input usage (%)	Unsigned integer. Value range: 0 to 100.	No

IfmonOutputUsageAlarmEvent event

This event is used to report interface output-usage alarm information.

XML structure for event subscription

```
<IfmonOutputUsageAlarmEvent>
  <Interface>
    <IfName></IfName>
  </Interface>
</IfmonOutputUsageAlarmEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmon</stream>
    <filter type="subtree">
      <IfmonOutputUsageAlarmEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
        <Interface>
          <IfName>GigabitEthernet2/0/1</IfName>
        </Interface>
      </IfmonOutputUsageAlarmEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmon
Event name	IfmonOutUsageAlarmEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<IfmonOutputUsageAlarmEvent>
  <Interface>
    <IfName></IfName>
```

```
    <HighThres></HighThres>
    <LowThres></LowThres>
    <OutputUsage></OutputUsage>
  </Interface>
</IfmonOutputUsageAlarmEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-10-30T09:10:51</eventTime>
  <IfmonOutputUsageAlarmEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
    <Interface>
<IfName>GigabitEthernet2/0/1</IfName>
    <HighThres>70</HighThres>
    <LowThres>10</LowThres>
    <OutputUsage>80</OutputUsage>
    </Interface>
  </IfmonOutputUsageAlarmEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No
HighThres	Upper threshold	Unsigned integer. Value range: 1 to 100.	No
LowThres	Lower threshold	Unsigned integer. Value range: 1 to 100.	No
OutputUsage	Output usage (%)	Unsigned integer. Value range: 0 to 100.	No

IfmonOutputUsageRecoverEvent event

This event is used to report interface output-usage recover information.

XML structure for event subscription

```
<IfmonOutputUsageRecoverEvent>
  <Interface>
    <IfName></IfName>
  </Interface>
</IfmonOutputUsageRecoverEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
    <stream>Ifmon</stream>
    <filter type="subtree">
      <IfmonOutputUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
        <Interface>
          <IfName>GigabitEthernet2/0/1</IfName>
        </Interface>
      </IfmonOutputUsageRecoverEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmon
Event name	IfmonOutputUsageRecoverEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmon:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<IfmonOutputUsageRecoverEvent>
  <Interface>
    <IfName></IfName>
    <HighThres></HighThres>
    <LowThres></LowThres>
    <OutputUsage></OutputUsage>
  </Interface>
</IfmonOutputUsageRecoverEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-10-30T09:10:51</eventTime>
  <IfmonOutputUsageRecoverEvent
xmlns="http://www.h3c.com/netconf/event:1.0/Ifmon:1.0">
    <Interface>
<IfName>GigabitEthernet2/0/1</IfName>
    <HighThres>70</HighThres>
    <LowThres>10</LowThres>
    <OutputUsage>5</OutputUsage>
```

```
    </Interface>
  </IfmonOutputUsageRecoverEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Size: 1 to 47	No
HighThres	Upper threshold	Unsigned integer. Value range: 1 to 100.	No
LowThres	Lower threshold	Unsigned integer. Value range: 1 to 100.	No
OutputUsage	Output usage (%)	Unsigned integer. Value range: 0 to 100.	No

Contents

IGMP 1
IGMP/Interfaces 1
XML structure 1
Table description 1
Columns 2
IGMP/HostInterfaces 4
XML structure 4
Table description 5
Columns 5
IGMP/UserProfiles 5
XML structure 5
Table description 6
Columns 6
IGMP/SsmMappings 6
XML structure 6
Table description 6
Columns 7
IGMP/Instances 7
XML structure 7
Table description 8
Columns 8
IGMP/StaticGroups 8
XML structure 8
Table description 9
Columns 9

IGMP

IGMP/Interfaces

This table contains IGMP interface information.

XML structure

```
<IGMP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
      <AuthEnabled></AuthEnabled>
      <JoinBySession></JoinBySession>
      <UserAggOuterVlan></UserAggOuterVlan>
      <UserAggInnerVlan></UserAggInnerVlan>
      <DynamicVlan></DynamicVlan>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastMemberQueryInterval></LastMemberQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
      <GroupPolicy>
        <Acl></Acl>
        <IgmpVersion></IgmpVersion>
      </GroupPolicy>
      <Proxy></Proxy>
      <ProxyForwarding></ProxyForwarding>
    </Interface>
  </Interfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	IGMP enabling status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
Version	IGMP version	N/A	Enumeration: • **1**—IGMP version 1. • **2**—IGMP version 2 (default). • **3**—IGMP version 3.	N/A
AuthEnabled	IGMP authorization enabling status	N/A	Boolean: • **true**—Enabled. • false—Disabled (default).	N/A
JoinBySession	Per-session multicast forwarding status	N/A	Enumeration: • **1**—Per-session multicast forwarding is enabled for BRAS access users. • **2**—Per-session multicast forwarding is enabled for non-BRAS access users. • 3—Per-session multicast forwarding is enabled for both BRAS and non-BRAS access users.	N/A
UserAggOuterVlan	Outer VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
UserAggInnerVlan	Inner VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
DynamicVlan	Status of user-VLAN-based dynamic VLAN tagging on multicast packets	N/A	Enumeration: • **0**—Disabled (default). • **1—Enabled**	N/A
QueryInterval	General query interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 125.	N/A
RobustCount	Robustness count	N/A	Unsigned integer. Value range: 1 to 255. Default: 2.	N/A
LastMemberQueryInterval	Last member query interval	N/A	Unsigned integer. Value range: 1 to 25, in seconds. Default: 1.	N/A
MaxRespo	Maximum	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nseTime	response time		Value range: 1 to 3174, in seconds. Default: 10.	
OtherQuerierPresentInterval	Other querier present interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 255	N/A
GroupPolicy	Multicast group policy	Data structure	Members include: • Acl • IgmpVersion	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63.	N/A
IgmpVersion	Version number	N/A	Unsigned integer. Value range: 1 to 3.	By default, a multicast group policy takes effect on IGMP reports of all versions.
Proxy	IGMP proxy enabling status	N/A	Enumeration: • **0**—Disabled. • **1—Enabled.**	N/A
ProxyForwarding	IGMP proxy forwarding enabling status	N/A	Enumeration: • **0**—Disabled. • 1—Enabled.	N/A

IGMP/HostInterfaces

This table contains IGMP host interface information.

XML structure

```
<IGMP>
  <HostInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
    </Interface>
  </HostInterfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	HostInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enabled	IGMP enabling status.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

IGMP/UserProfiles

This table contains IGMP user profile information.

XML structure

```
<IGMP>
  <UserProfiles>
    <UserProfile>
      <UserProfileName></UserProfileName>
      <AccessPolicy></AccessPolicy>
    </UserProfile>
  </UserProfiles>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	UserProfiles
Table type	Multi-instance table
Row name	UserProfile
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with a letter or digit, and cannot contain only digits. The name must be unique globally.
AccessPolicy	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A

IGMP/SsmMappings

This table contains IGMP SSM mapping information.

XML structure

```
<IGMP>
  <SsmMappings>
    <SsmMapping>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <Policy></Policy>
    </SsmMapping>
  </SsmMappings>
</IGMP>
```

Table description

Item	**Description**
Feature name	IGMP

Item	Description
Table name	SsmMappings
Table type	Multi-instance table
Row name	SsmMapping
Restrictions	No.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A
Policy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A

IGMP/Instances

This table contains IGMP instance information.

XML structure

```
<IGMP>
  <Instances>
    <Instance>
      <VRF></VRF>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastMemberQueryInterval></LastMemberQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
    </Instance>
  </Instances>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
QueryInterval	Query interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 125.	N/A
RobustCount	Robustness count	N/A	Unsigned integer. Value range: 1 to 255. Default: 2.	N/A
LastMemberQueryInterval	Last member query interval	N/A	Unsigned integer. Value range: 1 to 25 , in seconds. Default: 1.	N/A
MaxResponseTime	Maximum response time	N/A	Unsigned integer. Value range: 1 to 3174, in seconds. Default: 10.	N/A
OtherQuerierPresentInterval	Other querier present interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 255	N/A

IGMP/StaticGroups

This table contains IGMP static group information.

XML structure

```
<IGMP>
```

```
  <StaticGroups>
    <StaticGroup>
      <IfName></IfName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
    </StaticGroup>
  </StaticGroups>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	StaticGroups
Table type	Multi-instance table
Row name	StaticGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
GroupAddr	IPv4 multicast group address	Index	String, dotted decimal notation. Value range: 224.0.0.0 to 239.255.255.255.	N/A
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A

Contents

IGMP 1
IGMP/Interfaces 1
XML structure 1
Table description 1
Columns 2
IGMP/Groups 4
XML structure 4
Table description 4
Columns 4
IGMP/SrcList 5
XML structure 5
Table description 5
Columns 5
IGMP/HostInterfaces 6
XML structure 6
Table description 6
Columns 7
IGMP/UserProfiles 7
XML structure 7
Table description 7
Columns 8
IGMP/SsmMappings 8
XML structure 8
Table description 8
Columns 8
IGMP/Instances 9
XML structure 9
Table description 9
Columns 10
IGMP/StaticGroups 10
XML structure 10
Table description 10
Columns 11

IGMP

IGMP/Interfaces

This table contains IGMP interface information.

XML structure

```
<IGMP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
      <AuthEnabled></AuthEnabled>
      <JoinBySession></JoinBySession>
      <UserAggOuterVlan></UserAggOuterVlan>
      <UserAggInnerVlan></UserAggInnerVlan>
      <DynamicVlan></DynamicVlan>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastMemberQueryInterval></LastMemberQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
      <GroupPolicy>
        <Acl></Acl>
        <IgmpVersion></IgmpVersion>
      </GroupPolicy>
      <IfName></IfName>
      <Proxy></Proxy>
      <ProxyForwarding></ProxyForwarding>
    </Interface>
  </Interfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enabled	IGMP enabling status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Version	IGMP version	N/A	Enumeration: • **1**—IGMP version 1. • **2**—IGMP version 2. • **3**—IGMP version 3.	N/A
AuthEnabled	IGMP authorization enabling status	N/A	Boolean: • **true**—Enabled. • **False**—Disabled.	N/A
JoinBySession	Per-session multicast forwarding status	N/A	Enumeration: • **1**—Per-session multicast forwarding is enabled for BRAS access users. • **2**—Per-session multicast forwarding is enabled for non-BRAS access users. • 3—Per-session multicast forwarding is enabled for all access users.	N/A
UserAggOuterVlan	Outer VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
UserAggInnerVlan	Inner VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
DynamicVlan	Status of user-VLAN-based dynamic VLAN tagging on multicast	N/A	Enumeration: • **0**—Disabled. • 1—Enabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets			
QueryInterval	Specify a gGeneral query interval.	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
RobustCount	Specify a rRobustness count.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
LastMemberQueryInterval	Specify a lLast member query interval.	N/A	Unsigned integer. Value range: 1 to 25, in seconds.	N/A
MaxResponseTime	Specify a mMaximum response time.	N/A	Unsigned integer. Value range: 1 to 3174, in seconds.	N/A
OtherQuerierPresentInterval	Specify an oOther querier present interval.	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
GroupPolicy	Multicast gGroup pPolicy	Data structure	Members include: • Acl • IgmpVersion	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: • 2000 to 3999. ACL name: • String. • Length: 1 to 63.	If the ACL does not exist or does not have valid rules, hosts cannot join any multicast groups.N/A
IgmpVersion	Version number.	N/A	Unsigned integer. Value range: 1 to 3.	By default, this commanda multicast group policy takes effect on IGMP reports of all versions.N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Proxy	IGMP proxy enabling status	N/A	Enumeration: • **0**—Disabled. • 1—Enabled.	N/A
ProxyForwarding	IGMP proxy forwarding enabling status	N/A	Enumeration: • **0**—Disabled. • 1—Enabled.	N/A

IGMP/Groups

This table contains IGMP group information.

XML structure

```
<IGMP>
  <Groups>
    <Group>
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Group>
  </Groups>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
GroupAddr	IPv4 multicast group address.	Index	String, dotted decimal notation.	Example: 224.1.1.1.
Uptime	Length of time since the multicast group	N/A	Unsigned integer (in seconds).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	was reported.			
Expires	Remaining time of the multicast group.	N/A	Unsigned integer (in seconds).	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMP/SrcList

This table contains source information of IGMP groups.

XML structure

```
<IGMP>
  <SrcList>
    <Src>
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Src>
  </SrcList>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	SrcList
Table type	Multi-instance table
Row name	Src
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of

Column name	Column description	Column type	Data type and restrictions	Remarks
				your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
GroupAddr	IPv4 multicast group address.	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 multicast source address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Uptime	Length of time since the multicast source was reported.	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the multicast source.	N/A	Unsigned integer (in seconds).	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMP/HostInterfaces

This table contains IGMP host interface information.

XML structure

```
<IGMP>
  <HostInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <IfName></IfName>
    </Interface>
  </HostInterfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	HostInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enabled	IGMP enabling status.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMP/UserProfiles

This table contains IGMP user profile information.

XML structure

```
<IGMP>
  <UserProfiles>
    <UserProfile>
      <UserProfileName></UserProfileName>
      <AccessPolicy></AccessPolicy>
    </UserProfile>
  </UserProfiles>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	UserProfiles
Table type	Multi-instance table
Row name	UserProfile
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with a letter or digit, and cannot contain only digits. The name must be unique globally.
AccessPolicy	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A

IGMP/SsmMappings

This table contains IGMP SSM mapping information.

XML structure

```
<IGMP>
  <SsmMappings>
    <SsmMapping>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <Policy></Policy>
    </SsmMapping>
  </SsmMappings>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	SsmMappings
Table type	Multi-instance table
Row name	SsmMapping
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String.	An empty string indicates the public

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 31 characters.	network.
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A
Policy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range:2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A

IGMP/Instances

This table contains IGMP instance information.

XML structure

```
<IGMP>
  <Instances>
    <Instance>
      <VRF></VRF>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastMemberQueryInterval></LastMemberQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
    </Instance>
  </Instances>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
QueryInterval	Query interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
RobustCount	Robustness count	N/A	Unsigned integer. Value range: 1 to 255.	N/A
LastMemberQueryInterval	Last member query interval	N/A	Unsigned integer. Value range: 1 to 25, in seconds.	N/A
MaxResponseTime	Maximum response time	N/A	Unsigned integer. Value range: 1 to 3174, in seconds.	N/A
OtherQuerierPresentInterval	Other querier present interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A

IGMP/StaticGroups

This table contains IGMP static group information.

XML structure

```
<IGMP>
  <StaticGroups>
    <StaticGroup>
      <IfName></IfName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
    </StaticGroup>
  </StaticGroups>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	StaticGroups
Table type	Multi-instance table

Item	Description
Row name	StaticGroup
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
GroupAddr	IPv4 multicast group address	Index	String, dotted decimal notation. Value range: 224.0.0.0 to 239.255.255.255.	N/A
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A

Contents

IGMP 2
IGMP/Interfaces 2
IGMP/Groups 3
IGMP/SrcList 3
IGMP/HostInterfaces 3
IGMP/UserProfiles 3
IGMP/SsmMappings 3
IGMP/Instances 4
IGMP/StaticGroups 4

IGMP

IGMP/Interfaces

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP is not complete startup. 对该表进行配置时，IGMP还未完全启动。
Can’t specify an inner VLAN ID if no outer VLAN ID is specified. 若需要配置内层VLAN，则必须先配置外层VLAN。	During executing set operation, you must specify an outer VLAN ID before you can specify an inner VLAN ID. 对该表进行配置时，若需要配置内层VLAN，则必须先配置外层VLAN。
VLAN tagging for multicast packets and per-session multicast forwarding are mutually exclusive on a subinterface. 对组播报文进行VLAN封装与按会话记录用户加入的组播组，这两种配置互斥，不允许在同一个子接口上配置。	During executing set operation, you cannot configure both VLAN tagging for multicast packets and per-session multicast forwarding on a subinterface. 对该表进行SET操作时，对组播报文进行VLAN封装与按会话记录用户加入的组播组，这两种配置互斥，不允许在同一个子接口上配置。
Static VLAN tagging and user-VLAN-based dynamic VLAN tagging for multicast packets are mutually exclusive on a subinterface. 对组播报文的静态VLAN封装与基于用户VLAN的动态VLAN封装，这两种配置互斥，不允许在同一个子接口上配置。	During executing set operation, you cannot configure both static VLAN tagging and user-VLAN-based dynamic VLAN tagging for multicast packets on a subinterface. 对该表进行SET操作时，对组播报文的静态VLAN封装与基于用户VLAN的动态VLAN封装，这两种配置互斥，不允许在同一个子接口上配置。
User-VLAN-based dynamic VLAN tagging for multicast cannot be configured or de-configured while users are online. 当有用户在线时，不能对基于用户VLAN的动态VLAN封装进行配置或者去配置。	During executing set operation, User-VLAN-based dynamic VLAN tagging for multicast cannot be configured or de-configured while users are online. 对该表进行SET操作时，当有用户在线时，不能对基于用户VLAN的动态VLAN封装进行配置或者去配置。
The column of IgmpVersion can’t exist alone without Acl. IgmpVersion属性列不能脱离Acl而单独存在。	During executing set operation, the operation is forbidden that would cause IgmpVersion exist alone. 对该表进行配置时，将导致IgmpVersion单独存在的操作禁止下发。
The acl input is invalid. ACL输入不合法。	During executing set operation, the acl input is invalid. 对该表进行配置时，ACL输入不合法。
The IgmpVersion and Acl columns must be both configured. IGMP版本和ACL必须同时配置。	The IgmpVersion and Acl columns must be both configured. 对该表进行配置时，IGMP版本和ACL必须同时配置。
The UserAggInnerVlan and UserAggOuterVlan columns must be both configured. 组播报文封装的内外层VLAN Tag必须同时配置。	The UserAggInnerVlan and UserAggOuterVlan columns must be both configured. 对该表进行配置时，组播报文封装的内外层VLAN Tag必须同时配置。
The JoinBySession column can only be configured as 3. 按会话记录用户加入的组播组只可配置为3。	The JoinBySession column can only be configured as 3. 对该表进行配置时，按会话记录用户加入的组播组只可配置为3。

IGMP/Groups

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP is not complete startup. 对该表进行配置时，IGMP还未完全启动。

IGMP/SrcList

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP is not complete startup.. 对该表进行配置时，IGMP还未完全启动。

IGMP/HostInterfaces

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP is not complete startup. 对该表进行配置时，IGMP还未完全启动。

IGMP/UserProfiles

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP does not completely start up. 对该表进行配置时，IGMP还未完全启动。

IGMP/SsmMappings

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready.	During executing set operation, IGMP is not complete startup.

IGMP尚未就绪。	对该表进行配置时，IGMP还未完全启动。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the VPN instance does not exist. 对该表进行配置时，VPN实例不存在。
ACL must be set with index. ACL必须同索引一起下发。	During executing set operation, acl must be set with index. 对该表进行配置时，ACL必须同配置对象一起下发。
ACL must be deleted with configuration object. ACL必须同配置对象一起删除。	During executing set operation, acl must be deleted with configuration object. 对该表进行配置时，ACL必须同配置对象一起删除。
The acl input is invalid. ACL输入不合法。	During executing set operation, the acl input is invalid. 对该表进行配置时，ACL输入不合法。
The specified igmp vpn-instance view is not existed. 指定的IGMP实例视图不存在。	During executing set operation, the specified igmp vpn-instance view is not existed. 对该表进行配置时，指定的IGMP实例视图不存在。

IGMP/Instances

Message	Explanation
IGMP is not configured. IGMP尚未配置。	During executing set operation, IGMP is not configured. 对该表进行配置时，IGMP 还未配置。
IGMP is not ready. IGMP尚未就绪。	During executing set operation, IGMP is not complete startup. 对该表进行配置时，IGMP还未完全启动。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the VPN instance does not exist. 对该表进行配置时，VPN实例不存在。

IGMP/StaticGroups

Message	Explanation
The multicast group address is illegal. 组播组地址不合法。	During set operation, the multicast group address specified is invalid. 对该表进行配置时，组播组地址是不合法的。
Configuration conflict.配置冲突	During set operation, For the same multicast group or source, the non-VLAN-based, single-VLAN-based, or double-VLAN-based static member interface configurations are mutually exclusive. 对该表进行配置时，对于同一个组播组或组播源组，不带VLAN封装、带一层VLAN封装和带两层VLAN封装的静态加入配置两两互斥，不允许同时配置。

Contents

IGMPSnooping 1
IGMPSnooping/Configuration 1
XML structure 1
Table description 1
Columns 1
IGMPSnooping/VLANs 1
XML structure 1
Table description 2
Columns 2
IGMPSnooping/VSIs 3
XML structure 4
Table description 4
Columns 4
IGMPSnooping/FastLeavePorts 5
XML structure 6
Table description 6
Columns 6
IGMPSnooping/GroupLimitPorts 6
XML structure 6
Table description 7
Columns 7
IGMPSnooping/StaticGroupPorts 8
XML structure 8
Table description 8
Columns 8

IGMPSnooping

IGMPSnooping/Configuration

This table contains global IGMP snooping information.

XML structure

```
<IGMPSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set IGMP snooping state globally.	N/A	Enumeration: • **disable**(default) • **enable**

IGMPSnooping/VLANs

This table contains the IGMP snooping information for VLANs.

XML structure

```
<IGMPSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
```

```
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <LeaveSourceAddr></LeaveSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
      <TriggeredQueryPortDown></TriggeredQueryPortDown>
      <TriggeredQueryPortUp></TriggeredQueryPortUp>
    </VLAN>
  </VLANs>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set IGMP snooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: • **2**(default) • **3**	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Querier	Set IGMP	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	snooping querier for specified VLAN.		• **disable**(default) • **enable**	
QueryInterval	Specify IGMP snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
TriggeredQueryPortDown	IGMP snooping query triggered by port-down events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A
TriggeredQueryPortUp	IGMP snooping query triggered by port-up events in a VLAN	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A

IGMPSnooping/VSIs

This table contains the IGMP snooping information for VSIs.

XML structure

```
<IGMPSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <LeaveSourceAddr></LeaveSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
    </VSI>
  </VSIs>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable IGMP snooping for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: • **2**(default) • **3**	N/A
DropUnknow	Enable IGMP	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
n	snooping dropping unknown multicast data for the specified VSI.		• **disable**(default) • **enable**	
Querier	Enable the IGMP snooping querier for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QueryInterval	Set the IGMP snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A

IGMPSnooping/FastLeavePorts

This table contains the IGMP snooping fast leave information on ports.

XML structure

```
<IGMPSnooping>
  <FastLeavePorts>
    <Interface>
      <IfIndex></IfIndex>
      <FastLeaveVlanList></FastLeaveVlanList>
    </Interface>
  </FastLeavePorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
FastLeaveVlanList	Set IGMP snooping fast leave for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.

IGMPSnooping/GroupLimitPorts

This table contains the IGMP snooping group limit information on ports.

XML structure

```
<IGMPSnooping>
```

```
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList ></GroupLimitVlanList>
    </Interface>
  </GroupLimitPorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set IGMP snooping group limit for VLANs on a port.	N/A	VLAN list.	You must specify VLANs when the operation is merge, create or replace. You can't specify VLANs when the operation is delete or remove. Example: 1,2,3,5-8,10-20.

IGMPSnooping/StaticGroupPorts

This table contains the IGMP snooping group information of ports based on service-instance.

XML structure

```
<IGMPSnooping>
  <StaticGroupPorts>
    <StaticGroupPort>
      <IfIndex></IfIndex>
      <VSIStaticGroups>
        <VSIStaticGroup>
          <SrvID></SrvID>
          <GroupAddr></GroupAddr>
          <SourceAddr></SourceAddr>
        </VSIStaticGroup>
      </VSIStaticGroups>
    </StaticGroupPort>
  </StaticGroupPorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	StaticGroupPorts
Table type	Multi-instance table
Row name	StaticGroupPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4096.	
GroupAddr	Specify a multicast group address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SourceAddr	Specify a multicast source address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Contents

IGMPSnooping 1

IGMPSnooping/Configuration 1
XML structure 1
Table description 1
Columns 1
IGMPSnooping/VLANs 1
XML structure 1
Table description 2
Columns 2
IGMPSnooping/VSIs 3
XML structure 4
Table description 4
Columns 4
IGMPSnooping/FastLeavePorts 5
XML structure 5
Table description 6
Columns 6
IGMPSnooping/GroupLimitPorts 6
XML structure 6
Table description 7
Columns 7
IGMPSnooping/IPv4Layer2MulticastGroups 7
XML structure 8
Table description 8
Columns 8
IGMPSnooping/VsiIPv4Layer2MulticastGroups 9
XML structure 9
Table description 10
Columns 10
IGMPSnooping/StaticGroupPorts 11
XML structure 11
Table description 11
Columns 12

IGMPSnooping

IGMPSnooping/Configuration

This table contains global IGMP snooping information.

XML structure

```
<IGMPSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set IGMP snooping state globally.	N/A	Enumeration: • **enable** • **disable**

IGMPSnooping/VLANs

This table contains the IGMP snooping information for VLANs.

XML structure

```
<IGMPSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
```

```
    <Version></Version>
    <DropUnknown></DropUnknown>
    <Querier></Querier>
    <QueryInterval></QueryInterval>
    <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
    <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    <ReportSourceAddr></ReportSourceAddr>
    <LeaveSourceAddr></LeaveSourceAddr>
    <Proxy></Proxy>
    <QuerierElection></QuerierElection>
    <TriggeredQueryPortDown></TriggeredQueryPortDown>
    <TriggeredQueryPortUp></TriggeredQueryPortUp>   </VLAN>
  </VLANs>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set IGMP snooping state for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: • **2** • **3**	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A
Querier	Set IGMP snooping querier for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueryInterval	Specify IGMP snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VLAN.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VLAN.	N/A	Enumeration: • **disable** • **enable**	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VLAN.	N/A	Enumeration: • **disable** • **enable**	N/A
TriggeredQueryPortDown	IGMP snooping query triggered by port-down events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A
TriggeredQueryPortUp	IGMP snooping query triggered by port-up events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A

IGMPSnooping/VSIs

This table contains the IGMP snooping information for VSIs.

XML structure

```
<IGMPSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <LeaveSourceAddr></LeaveSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
    </VSI>
  </VSIs>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable IGMP snooping for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: • **2** • **3**	N/A
DropUnknown	Enable IGMP snooping dropping	N/A	Enumeration: • **disable**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	unknown multicast data for the specified VSI.		• **enable**	
Querier	Enable IGMP snooping querier for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
QueryInterval	Set the IGMP snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VSI.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A

IGMPSnooping/FastLeavePorts

This table contains the IGMP snooping fast leave information on ports.

XML structure

```
<IGMPSnooping>
```

```
  <FastLeavePorts>
    <Interface>
      <IfIndex></IfIndex>
      <FastLeaveVlanList></FastLeaveVlanList>
      <IfName></IfName>
    </Interface>
  </FastLeavePorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
FastLeaveVlanList	Set IGMP snooping fast leave for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMPSnooping/GroupLimitPorts

This table contains the IGMP snooping group limit information on ports.

XML structure

```
<IGMPSnooping>
  <GroupLimitPorts>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList></GroupLimitVlanList>
      <IfName></IfName>
    </Interface>
  </GroupLimitPorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set IGMP snooping group limit for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMPSnooping/IPv4Layer2MulticastGroups

This table contains information about Layer 2 IP multicast groups for VLANs.

XML structure

```
<IGMPSnooping>
  <IPv4Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <PortAttribute></PortAttribute>
      <IfName></IfName>
    </VLAN>
  </IPv4Layer2MulticastGroups>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	IPv4Layer2MulticastGroups
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
GroupAddr	IPv4 multicast address .	Index	String, dotted decimal notation.	N/A
SourceAddr	IPv4 address.	Index	String, dotted decimal notation.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortAttribute	Port attribute.	N/A	Each bit represents a port attribute. Values: • 1—Learned from IGMP packets. • 2—Learned from IGMP packets with Exclude filter mode. • 4—Configured statically. • 8—Learned from PIM packets. • 16—Obtained from the kernel. • 32—Learned from (*, *) entries. • 64—Learned from (*, G) entries. • 128—Processed successfully. • 256—Failed to being processed. • 512—TRILL port that floods multicast data after the topology changes in VLAN.	Examples: • 129—means a port learned from IGMP packets and processed successfully. • 136—means a port learned from PIM packets and processed successfully.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMPSnooping/VsiIPv4Layer2MulticastGroups

This table contains information about Layer 2 IP multicast groups for VSIs.

XML structure

```
<IGMPSnooping>
  <VsiIPv4Layer2MulticastGroups>
    <VSI>
      <VsiName></VsiName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <LinkID></LinkID>
      <PortAttribute></PortAttribute>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
    </VSI>
  </VsiIPv4Layer2MulticastGroups>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VsiIPv4Layer2MulticastGroups
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
GroupAddr	IPv4 multicast address.	Index	String, dotted decimal notation.	N/A
SourceAddr	IPv4 address.	Index	String, dotted decimal notation.	N/A
LinkID	Link ID.	Index	Unsigned integer.	N/A
PortAttribute	Port attribute.	N/A	Each bit represents a port attribute. Values: • 1—Learned from IGMP packets. • 2—Learned from IGMP packets with Exclude filter mode. • 8—Learned from PIM packets. • 16—Obtained from the kernel. • 32—Learned from (*, *) entries. • 64—Learned from (*, G) entries. • 128—Processed successfully. • 256—Failed to being processed. • 512—Multicast tunnel interface for a multicast-mode VXLAN. • 1024—Learned from EVPN BGP route. • 2048—Port in Exclude filter-mode and learned from EVPN BGP route.	Examples: • 129—means a port learned from IGMP packets and processed successfully. • 1152—means a port learned from EVPN BGP route and processed successfully.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Ethernet service instance ID.	N/A	Unsigned integer. Value range: 0 to 4096.	The value is 0 if the interface is not a Layer 2 Ethernet interface.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

IGMPSnooping/StaticGroupPorts

This table contains the IGMP snooping group information of ports based on service-instance.

XML structure

```
<IGMPSnooping>
  <StaticGroupPorts>
    <StaticGroupPort>
      <IfIndex></IfIndex>
      <VSIStaticGroups>
        <VSIStaticGroup>
          <SrvID></SrvID>
          <GroupAddr></GroupAddr>
          <SourceAddr></SourceAddr>
        </VSIStaticGroup>
      </VSIStaticGroups>
    </StaticGroupPort>
  </StaticGroupPorts>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	StaticGroupPorts
Table type	Multi-instance table
Row name	StaticGroupPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
GroupAddr	Specify a multicast group address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SourceAddr	Specify a multicast source address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Contents

IGMPSnooping 2
IGMPSnooping/Configuration 2
IGMPSnooping/VLANs 2
IGMPSnooping/VSIs 3
IGMPSnooping/FastLeavePorts 3
IGMPSnooping/GroupLimitPorts 4
IGMPSnooping/IPv4Layer2MulticastGroups 4
IGMPSnooping/ VSIIPv4Layer2MulticastGroups 4

IGMPSnooping

IGMPSnooping/Configuration

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
IGMP snooping is disabling globally. 全局IGMP snooping正在去使能。	During executing set operation to enable global IGMP snooping, IGMP snooping is disabling globally. 使能全局IGMP snooping时，全局IGMP snooping正在去使能。

IGMPSnooping/VLANs

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
IGMP snooping drop-unknown is enabled globally. 全局IGMP snooping已配置drop-unknown。	During executing set operation to enable drop-unkown for this VLAN, IGMP snooping drop-unknown is enabled globally. 使能VLAN内drop-unknown时，全局drop-unkown已经使能。
IGMP snooping is disabled on the VLAN. VLAN未使能IGMP snooping。	During executing set operation for this VLAN, IGMP snooping is disabled on the VLAN. 对该VLAN进行设置时，VLAN未使能IGMP snooping。
IGMP snooping is disabled globally. 全局IGMP snooping未使能。	During executing set operation for this VLAN, IGMP snooping is disabled globally. 对该VLAN进行设置时，全局IGMP snooping未使能。
Invalid source address of general queries. 通用查询报文源IP地址错误。	During executing set operation for GeneralQuerySourceAddr of this VLAN, the value of GeneralQuerySourceAddr is invalid. 对该VLAN内GeneralQuerySourceAddr进行设置时，GeneralQuerySourceAddr值错误。
Invalid source address of group-specific queries. 特定组查询报文源IP地址错误。	During executing set operation for SpecialQuerySourceAddr of this VLAN, the value of SpecialQuerySourceAddr is invalid. 对该VLAN内SpecialQuerySourceAddr进行设置时，SpecialQuerySourceAddr值错误。
Invalid source address of reports. Report报文源IP地址错误。	During executing set operation for ReportSourceAddr of this VLAN, the value of ReportSourceAddr is invalid. 对该VLAN内ReportSourceAddr进行设置时，ReportSourceAddr值错误。
Invalid source address of leave messages. Leave报文源IP地址错误。	During executing set operation for LeaveSourceAddr of this VLAN, the value of LeaveSourceAddr is invalid. 对该VLAN内LeaveSourceAddr进行设置时，LeaveSourceAddr值错误。

IGMPSnooping/VSIs

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation,daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
IGMP snooping drop-unknown is enabled globally. 全局IGMP snooping已配置drop-unknown。	During executing set operation to enable drop-unkown for this VSI, IGMP snooping drop-unknown is enabled globally. 使能VSI内drop-unknown时，全局drop-unkown已经使能。
IGMP snooping is disabled on the VSI. VSI未使能IGMP snooping。	During executing set operation for thisVSI, IGMP snooping is disabled on theVSI. 对该VSI进行设置时，VSI未使能IGMP snooping。
IGMP snooping is disabled globally. 全局IGMP snooping未使能。	During executing set operation for thisVSI, IGMP snooping is disabled globally. 对该VSI进行设置时，全局IGMP snooping未使能。
Invalid source address of general queries. 通用查询报文源IP地址错误。	During executing set operation for GeneralQuerySourceAddr of this VSI, the value of GeneralQuerySourceAddr is invalid. 对该VSI内GeneralQuerySourceAddr进行设置时，GeneralQuerySourceAddr值错误。
Invalid source address of group-specific queries. 特定组查询报文源IP地址错误。	During executing set operation for SpecialQuerySourceAddr of this VSI, the value of SpecialQuerySourceAddr is invalid. 对该VSI内SpecialQuerySourceAddr进行设置时，SpecialQuerySourceAddr值错误。
Invalid source address of reports. Report报文源IP地址错误。	During executing set operation for ReportSourceAddr of this VSI, the value of ReportSourceAddr is invalid. 对该VSI内ReportSourceAddr进行设置时，ReportSourceAddr值错误。
Invalid source address of leave messages. Leave报文源IP地址错误。	During executing set operation for LeaveSourceAddr of this VSI, the value of LeaveSourceAddr is invalid. 对该VSI内LeaveSourceAddr进行设置时，LeaveSourceAddr值错误。

IGMPSnooping/FastLeavePorts

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get或者set操作时，守护进程收到了错误的消息类型。
IGMP snooping is disabled globally. 全局IGMP snooping未使能。	During executing set operation, IGMP snooping is disabled globally. 对该表进行配置时，全局 IGMP snooping 未使能。

IGMPSnooping/GroupLimitPorts

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
IGMP snooping is disabled globally. 全局IGMP snooping未使能。	During executing set operation, IGMP snooping is disabled globally. 对该表进行配置时，全局 IGMP snooping 未使能。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	GroupLimitVLANList can’t be removed alone, and should be removed together with Limit. GroupLimitVLANList不能单独删除，需要和Limit一起删除。

IGMPSnooping/IPv4Layer2MulticastGroups

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。

IGMPSnooping/ VSIIPv4Layer2MulticastGroups

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。

Contents

IKEv1 1
IKEv1/ ResetSAs 1
XML structure 1
Table description 1
Columns 1
IKEv1/ClearGlobalStatistics 1
XML structure 1
Table description 2
Columns 2
IKEv1/ClearTunnelsStatistics 2
XML structure 2
Table description 2
Columns 3

IKEv1

IKEv1/ ResetSAs

This table is used to reset IKE SAs.

XML structure

```
<IKEv1>
  <ResetSAs>
    <Reset>
      <ID></ID>
    </Reset>
  </ResetSAs>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	ResetSAs
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Connect-ID of IKE SA	Index	Integer When ID is zero it means reset all the IKE SA	N/A

IKEv1/ClearGlobalStatistics

This table is used to clear Globalstatistics.

XML structure

```
<IKEv1>
```

```
  <ClearGlobalStatistics>
    <Clear/>
  </ClearGlobalStatistics>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	ClearGlobalStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear IKE GlobalStatistics	N/A	Must be empty	N/A

IKEv1/ClearTunnelsStatistics

This table is used to clear Tunnel Statistics.

XML structure

```
<IKEv1>
  <ClearTunnelsStatistics>
    <Clear>
      <TunnelID></TunnelID>
    </Clear>
  </ClearTunnelsStatistics>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	ClearTunnelsStatistics
Table type	Multi-instance table

Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IKE tunnel ID	Index	Unsigned integer. Value range: 0 to 2^{32}-1	N/A

Contents

IKEv1 1

IKEv1/GlobalConfiguration 1
XML structure 1
Table description 2
Columns 2
IKEv1/Profiles 5
XML structure 5
Table description 6
Columns 7
IKEv1/MatchRemoteIpv4AddressByHostName 11
XML structure 11
Table description 11
Columns 12
IKEv1/MatchRemoteIpv4Address 12
XML structure 12
Table description 12
Columns 13
IKEv1/MatchRemoteIpv6Address 13
XML structure 13
Table description 13
Columns 14
IKEv1/ MatchRemoteIpv4Range 14
XML structure 14
Table description 14
Columns 15
IKEv1/ MatchRemoteIpv6Range 15
XML structure 15
Table description 15
Columns 16
IKEv1/Proposals 16
XML structure 16
Table description 16
Columns 17
IKEv1/Keychains 17
XML structure 18
Table description 18
Columns 18
IKEv1/HostPreSharedKeys 19
XML structure 19
Table description 19
Columns 20
IKEv1/DomainPreSharedKeys 20
XML structure 20
Table description 21
Columns 21
IKEv1/Ipv4AddressByHostNamePSKs 21
XML structure 21
Table description 22
Columns 22
IKEv1/ Ipv4AddressPreSharedKeys 22
XML structure 22
Table description 23
Columns 23
IKEv1/ Ipv6AddressPreSharedKeys 24
XML structure 24
Table description 24
Columns 24

IKEv1/Ipv4RangePreSharedKeys ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
IKEv1/Ipv6RangePreSharedKeys ····· 26
XML structure ····· 26
Table description ····· 27
Columns ····· 27
IKEv1/Ipv4AddressGroup ····· 27
XML structure ····· 27
Table description ····· 28
Columns ····· 28
IKEv1/Ipv6AddressGroup ····· 28
XML structure ····· 28
Table description ····· 29
Columns ····· 29

IKEv1

IKEv1/GlobalConfiguration

This table is used to configure IKE global configuration.

XML structure

```
<IKEv1>
  <GlobalConfiguration>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <Keepalive>
      <Interval></Interval>
      <Timeout></Timeout>
    </Keepalive>
    <SignIDfromCert></SignIDfromCert>
    <InvalidSPIRecovery></InvalidSPIRecovery>
    <NatKeepaliveInterval></NatKeepaliveInterval>
    <IKESACountLimit>
      <EstablishLimit></EstablishLimit>
      <NegotiateLimit></NegotiateLimit>
    </IKESACountLimit>
    <LocalID>
      <Type></Type>
      <IpAddress></IpAddress>
      <Value></Value>
    </LocalID>
    <LoggingNegotiation></LoggingNegotiation>
    <CompatibleSm4></CompatibleSm4>
    <GmInitiatorVersion></GmInitiatorVersion>
    <GdQuantum>
      <Enable></Enable>
      <AppDevInfo></AppDevInfo>
      <AuthKey></AuthKey>
      <ServerIPType></ServerIPType>
      <ServerIPAddress></ServerIPAddress>
      <Port></Port>
      <DecryptQuantumKey></DecryptQuantumKey>
    </GdQuantum>
    <ZdQuantum>
      <Enable></Enable>
      <AppDevInfo></AppDevInfo>
```

```
    </ZdQuantum>
  </GlobalConfiguration>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • **1**—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
Keepalive	Global keepalive configuration	Data structure	Members include: • Interval • Timeout	N/A
Interval	Keepalive Interval	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
Timeout	Keepalive Timout	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
SignIDfrom Cert	Digital signature authentication, If enable get the identity of the local end from the	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	certificate			
InvalidSPIRecovery	If enable Re-stablish an IKE SA upon an invalid-SPI event	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
NatKeepaliveInterval	NAT keepalive Interval	N/A	Unsigned integer: Value range:5 to 300, in seconds. Default value is 20	N/A
IKESACountLimit	Limit the number of IKE SA established and in negotiation	Data structure	Members include: • EstablishLimit • NegotiateLimit	N/A
EstablishLimit	Limit the maximum number of established SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
NegotiateLimit	Limit the maximum number of negotiation SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
LoggingNegotiation	Logging for IKE event negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
CompatibleSm4	Backward compatibility for the sm4-cbc	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm			
GmInitiatorVersion	The version number carried in the negotiation message	N/A	Enumeration: • 1—1.0 • 2—1.1	N/A
GdQuantum	GD-quantum settings	Data structure	Members include: • Enable • AppDevInfo • AuthKey • ServerIPType • ServerIPAddress • Port • DecryptQuantumKey	N/A
Enable	Enable GD-quantum encryption	N/A	Boolean: • **true**—Enable. • **false—**Disable.	N/A
AppDevInfo	GD-quantum access ID	N/A	String: Length: 9 characters Digits only.	N/A
AuthKey	GD-quantum authentication key	N/A	String: Length: 64 hex characters for a plaintext key. Case sensitive.	Specify the AuthKey in plain text text.
ServerIPType	IP version of the GD-quantum server address	N/A	Enumeration: • 0—IPv4.	N/A
ServerIPAddress	IP address of the GD-quantum server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
Port	Port number of the GD-quantum server.	N/A	Unsigned integer: Value range:1 to 65535. Default value is 8013.	N/A
DecryptQuantumKey	GD-quantum decryption key	N/A	String: Length: 64 hex characters for a plaintext key. Case sensitive.	Specify the DecryptKey in plain text text.
ZdQuantum	ZD-quantum settings	Data structure	Members include: • Enable. • AppDevInfo.	N/A
Enable	Enable ZD-quantum encryption	N/A	Boolean: • **true**—Enable. • **false—**Disable.	N/A
AppDevInfo	ZD-quantum access ID	N/A	String: Length:1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case sensitive	

IKEv1/Profiles

This table is used to configure IKE profiles.

XML structure

```
<IKEv1>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <Mode></Mode>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <KeychainList>
        <KeychainItem></KeychainItem>
      </KeychainList>
      <CertificateDomainList>
        <DomainItem></DomainItem>
      </CertificateDomainList>
      <CertACPList>
        <CertACPItem></CertACPItem>
      </CertACPList>
      <MatchRemoteFQDNList>
        <FQDNItem></FQDNItem>
      </MatchRemoteFQDNList>
      <MatchRemoteUserFQDNList>
        <UserFQDNItem></UserFQDNItem>
      </MatchRemoteUserFQDNList>
        <LocalID>
        <Type></Type>
        <IpAddress></IpAddress>
        <Value></Value>
      </LocalID>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
      <DPD>
        <Mode></Mode>
```

```
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <InsideVRF></InsideVRF>
    <ClientXauth></ClientXauth>
    <AAAAuthorization>
      <Domain></Domain>
      <UserName></UserName>
    </AAAAuthorization>
    <SASoftDuration></SASoftDuration>
    <ClientXauthUser>
      <User></User>
      <PasswordType></PasswordType>
      <Password></Password>
      <ClientXauthServer></ClientXauthServer>
    </ClientXauthUser>
    <MatchRemoteDomainList>
      <DomainItem></DomainItem>
    </MatchRemoteDomainList>
    <RemoteIdentityauthorization>
      <Domain></Domain>
      <UserName></UserName>
    </RemoteIdentityauthorization>
    <Sm4Version></Sm4Version>
    <GmInitiatorVersion></GmInitiatorVersion>
    <PeerSerialNumber></PeerSerialNumber>
    <MatchRemoteAddr>
      <MatchType></MatchType>
      <IpAddress></IpAddress>
    </MatchRemoteAddr>
    <DynamicSrcPortEnable></DynamicSrcPortEnable>
  </Profile>
 </Profiles>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE profile	N/A	Unsigned integer: Value range:1 to 65535 Default value is 100.	N/A
Mode	The phase 1 negotiation mode	N/A	Enumeration: • **1**—Main • 2—Aggressive • 3—GM-main Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: • ProposalItem	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 ProposalItem in ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: • KeychainItem	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters	Case insensitive. Contains up to 6 KeychainItem in KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: • DomainItem	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertACPList	Reference a PKI certificate access control policy for the IKE profile	Data structure	Members include: • CertACPItem	N/A
CertACPItem	The Name of PKI certificate access control policy	N/A	String: Length:1 to 31 characters Case insensitive.	Contains unrestricted CertACPItem in CertACPList.
MatchRemoteFQDNList	Configure a rule of match the peer FQDN information for	Data structure	Members include: • FQDNItem	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the IKE profile			
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDNList.Incremental support
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: • UserFQDNItem	N/A
UserFQDNItem	The peer user FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted UserFQDNItem in MatchRemoteUserFQDNList. .Incremental support
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
MatchLocalAddr	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • **1**—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
InsideVRF	The inside VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	N/A
ClientXauth	Whether the client authentication is enabled.	N/A	Boolean: • true • false (default)	N/A
AAAAuthorization	AAA authentication	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	Domain name must not include / \\ | " : * ? < > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. Domain must be configured when the instance does not exist.
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	User name must not include \\ | / : * ? < > @, and must not be a, al, all.
SASoftDuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 10 to 36000.	N/A
ClientXauthUser	Client authentication user information	N/A	Members include: • User. • PasswordType. • Password. • ClientXauthServer.	N/A
User	Username	N/A	String: case-insensitive. Length: 1 to 55 characters.	The username cannot contain a forward slash

Column name	Column description	Column type	Data type and restrictions	Remarks
				(/), backslash (\), vertical bar (|), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@). The username cannot be **a**, **al**, or **all**.
PasswordType	Type of the user password	N/A	Enumeration: • **1**—Simple. • **2**—Cipher.	N/A
Password	User password	N/A	Plaintext string: 1 to 63 characters. Ciphertext string: 1 to 110 characters.	N/A
ClientXauthServer	ClientXauthServer	N/A	Enumeration: • 0—None • 2—JitServer	N/A
MatchRemoteDomainList	Peer FQDN domain information for IKE profile matching	Data structure	Members include: DomainItem.	N/A
DomainItem	Peer FQDN domain	N/A	String: case sensitive. Length:1 to 255 characters.	.Incremental support
RemoteIdentityauthorization	Enable authorization based on peer identity	Data structure	Members include: • Domain. • UserName	Domain must be specified when UserName is specified.
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	Domain name must not include / \\ | " : * ? < > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. Domain must be configured when the instance does not exist.
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	User name must not include \\ | / : * ? < > @, and must not be a, al, all.
Sm4Version	The sm4 version	N/A	Enumeration: • 1—standard • 2—draft Default value is 1.	The column is only available in GM delivery.
GmInitiatorVersion	The version number carried in the negotiation message	N/A	Enumeration: • 1—1.0 • 2—1.1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerSerialNumber	The serial number of the peer certificate	N/A	String: not case-sensitive. Length:1 to 127 characters.	A string of hexadecimal numbers.
MatchRemoteAddr	Peer gateway IP address for matching ike profile	Data structure	Members include: • MatchType • IpAddress	N/A
MatchType	The type of matching remote address	N/A	Enumeration: • 1—dynamic • 2—static	N/A
IpAddress	The IP address of peer gateway	N/A	Ipv4 address or Ipv6 address	When MatchType is dynamic, cannot config IpAddress.
DynamicSrcPortEnable	Whether using the dynamic port for negotiation	N/A	Boolean: • true • false (default)	N/A

IKEv1/MatchRemoteIpv4AddressByHostName

This table is used to configure a rule that uses a hostname to identify the remote IPv4 address for matching remote identity.

XML structure

```
<IKEv1>
  <MatchRemoteIpv4AddressByHostName>
    <RemoteID>
      <Profile></Profile>
      <HostName></HostName>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4AddressByHostName>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4AddressByHostName
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of an IKE profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
HostName	Remote host name	Index	String. Length:1 to 253 characters.	N/A
VRF	VPN instance to which the remote host address belongs	Index	String, case sensitive. Length: 0 to 31 characters.	If the remote host is on the public network, the length of characters is 0.

IKEv1/MatchRemoteIpv4Address

This table is used to operate the rule about how to match remote identity when it's IPv4 address.

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	Index	Ipv4Address mask	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/MatchRemoteIpv6Address

This table is used to operate the rule about how to match remote identity when it's IPv6 address.

XML structure

```
<IKEv1>
  <MatchRemoteIpv6Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer: Value range:0 to 128, in seconds.	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv4Range

This table is used to operate the rule about how to match remote identity when it's IPv4 address range.

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv4Address></BeginIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
EndIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv6Range

This table is used to operate the rule about how to match remote identity when it's IPv6 range.

XML structure

```
<IKEv1>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv6Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv6Address	Start IPv6 Address	Index	Ipv6Address	N/A
EndIpv6Address	End IPv6 Address	Index	Ipv6Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/Proposals

This table is used to configure IKE proposals.

XML structure

```
<IKEv1>
  <Proposals>
    <Proposal>
      <Priority></Priority>
      <AuthorityMethod></AuthorityMethod>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <DHID></DHID>
      <SADuration></SADuration>
      <Description></Description>
    </Proposal>
  </Proposals>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Proposal
Table type	Multi-instance table

Row name	Proposal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	priority	Index	Unsigned integer. Value range: 0 to 65535.	If the Priority is set to 0,the proposal will be created automatically wih the largest number currently unused
AuthorityMethod	Authentication method Id	N/A	Enumeration: • **1**—Pre-Shared-Key • 2—RSA-Signature • 3—DSA-Signature • 4—RSA-DE-digital envelope • 5—SM2-DE-digital envelope • 6—ECDSA-Signature Default value is **1**	N/A
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds. Default value is 86400	N/A
Description	Description of proposal	N/A	String: Length:1 to 80 characters Case sensitive	

IKEv1/Keychains

This table is used to configure IKE keychain.

XML structure

```
<IKEv1>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Priority></Priority>
      <KeychainVRF></KeychainVRF>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
    </Keychain>
  </Keychains>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE keychain	N/A	Unsigned integer: • Value range:1 to 65535. Default value is 100	N/A
KeychainVRF	The VPN instance of keychain	N/A	String: Length:1 to 31 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	belongs to		Case sensitive	
MatchLocal Addr	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressTyp e	The type of IP address	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.

IKEv1/HostPreSharedKeys

This table is used to configure the host pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <HostPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Host></Host>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </HostPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	HostPreSharedKeys

Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Host	Host name	Index	String: Length:1 to 255 characters Case sensitive	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: • **1**—Simple, • 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/DomainPreSharedKeys

This table is used to configure the domain pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <DomainPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Domain></Domain>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </DomainPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	DomainPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Domain	Peer FQDN domain	Index	String: Length:1 to 255 characters Case sensitive	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: • **1**—Simple, • 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/Ipv4AddressByHostNamePSKs

This table is used to configure a preshared key in an IKE keychain for negotiation with a peer IPv4 address identified by the hostname.

XML structure

```
<IKEv1>
  <Ipv4AddressByHostNamePSKs>
    <PreSharedKey>
      <Keychain></Keychain>
      <HostName></HostName>
```

```
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </Ipv4AddressByHostNamePSKs>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressByHostNamePSKs
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of an IKE keychain	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
HostName	Remote host name	Index	String. Length: 1 to 253 characters.	N/A
KeyType	Type of the preshared key	N/A	Enumeration: • **1**—Simple. • 2—Cipher.	N/A
Key	Value of the preshared key	N/A	String. Length: • 1 to 128 characters for a plaintext key string. • 1 to 201 characters for a ciphertext key string.	N/A

IKEv1/ Ipv4AddressPreSharedKeys

This table is used to configure the IPv4 address pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <Ipv4AddressPreSharedKeys>
```

```
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </Ipv4AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	N/A	Ipv4Address Mask	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: • **1**—Simple, • 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/ Ipv6AddressPreSharedKeys

This table is used to configure the IPv6 address pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <Ipv6AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </Ipv6AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	N/A	Unsigned integer: Value range:0 to 128, in seconds.	N/A
KeyType	The type of pre-shared key	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Simple, • 2—Cipher	
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/Ipv4RangePreSharedKeys

This table is used to configure the IPv4 address range pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <Ipv4RangePreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <LowIpv4Address></LowIpv4Address>
      <HighIpv4Address></HighIpv4Address>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </Ipv4RangePreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4RangePreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
LowIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
HighIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: • **1**—Simple, • 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/Ipv6RangePreSharedKeys

This table is used to configure the IPv6 address range pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <Ipv6RangePreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <LowIpv6Address></LowIpv6Address>
      <HighIpv6Address></HighIpv6Address>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </Ipv6RangePreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6RangePreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
LowIpv6Address	Start Ipv6 Address	Index	Ipv6Address	N/A
HighIpv6Address	End Ipv6 Address	Index	Ipv6Address	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: • **1**—Simple, • 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/Ipv4AddressGroup

This table is used to configure an IKE IPv4 address pool for assigning IPv4 addresses to remote peers.

XML structure

```
<IKEv1>
  <Ipv4AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
```

```
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <IPv4Mask></IPv4Mask>
    </AddressGroup>
  </Ipv4AddressGroup>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the IPv4 address group	Index	String: case-insensitive. Length:1 to 63 characters.	N/A
StartIPaddr	Start IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.	StartIPaddr can not be higher than EndIPaddr. StartIPaddr and EndIPaddr must be configured together when the instance does not exist.
EndIPaddr	End IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.	N/A
IPv4Mask	Mask of the IPv4 address	N/A	IPv4: String, dotted decimal notation.	N/A

IKEv1/Ipv6AddressGroup

This table is used to configure an IKE IPv6 address pool for assigning IPv6 addresses to remote peers.

XML structure

```
<IKEv1>
```

```
  <Ipv6AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
      <IPv6Addr>
        <Prefix></Prefix>
        <PrefixLen></PrefixLen>
      </IPv6Addr>
      <AssignLen></AssignLen>
    </AddressGroup>
  </Ipv6AddressGroup>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the IPv6 address pool	Index	String: case-insensitive. Length:1 to 63 characters.	N/A
IPv6Addr	IPv6 information.	Data structure	Members include: • Prefix. • PrefixLen.	The two members must both be specified.
Prefix	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
PrefixLen	Length of the IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AssignLen	IPv6 prefix length for assignment.	N/A	Unsigned integer. Value range: 1 to 128.	N/A

Contents

IKEv1 1

IKEv1/GlobalConfiguration 1
XML structure 1
Table description 2
Columns 2
IKEv1/Profiles 5
XML structure 5
Table description 6
Columns 7
IKEv1/MatchRemoteIpv4AddressByHostName 11
XML structure 11
Table description 11
Columns 11
IKEv1/MatchRemoteIpv4Address 11
XML structure 12
Table description 12
Columns 12
IKEv1/MatchRemoteIpv6Address 12
XML structure 12
Table description 13
Columns 13
IKEv1/ MatchRemoteIpv4Range 13
XML structure 13
Table description 14
Columns 14
IKEv1/ MatchRemoteIpv6Range 14
XML structure 14
Table description 15
Columns 15
IKEv1/Proposals 15
XML structure 15
Table description 16
Columns 16
IKEv1/Keychains 17
XML structure 17
Table description 17
Columns 18
IKEv1/HostPreSharedKeys 18
XML structure 18
Table description 19
Columns 19
IKEv1/DomainPreSharedKeys 19
XML structure 19
Table description 19
Columns 20
IKEv1/Ipv4AddressByHostNamePSKs 20
XML structure 20
Table description 20
Columns 21
IKEv1/ Ipv4AddressPreSharedKeys 21
XML structure 21
Table description 21
Columns 21
IKEv1/ Ipv6AddressPreSharedKeys 22
XML structure 22
Table description 22
Columns 22

IKEv1/Ipv4RangePreSharedKeys 23
XML structure 23
Table description 23
Columns 23
IKEv1/Ipv6RangePreSharedKeys 24
XML structure 24
Table description 24
Columns 24
IKEv1/DefaultProposal 24
XML structure 25
Table description 25
Columns 25
IKEv1/IKESAs 26
XML structure 26
Table description 27
Columns 27
IKEv1/GlobalStatistics 30
XML structure 30
Table description 31
Columns 31
IKEv1/TunnelsStatistics 34
XML structure 34
Table description 35
Columns 35
IKEv1/IKECapabilities 36
XML structure 37
Table description 37
Columns 37
IKEv1/Ipv4AddressGroup 38
XML structure 38
Table description 38
Columns 38
IKEv1/Ipv6AddressGroup 39
XML structure 39
Table description 39
Columns 39

IKEv1

IKEv1/GlobalConfiguration

This table displays IKE global configuration information.

XML structure

```
<IKEv1>
  <GlobalConfiguration>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <Keepalive>
      <Interval></Interval>
      <Timeout></Timeout>
    </Keepalive>
    <SignIDfromCert></SignIDfromCert>
    <InvalidSPIRecovery></InvalidSPIRecovery>
    <NatKeepaliveInterval></NatKeepaliveInterval>
    <IKESACountLimit>
      <EstablishLimit></EstablishLimit>
      <NegotiateLimit></NegotiateLimit>
    </IKESACountLimit>
    <LocalID>
      <Type></Type>
      <IpAddress></IpAddress>
      <Value></Value>
    </LocalID>
    <LoggingNegotiation></LoggingNegotiation>
    <CompatibleSm4></CompatibleSm4>
    <GmInitiatorVersion></GmInitiatorVersion>
    <GdQuantum>
      <Enable></Enable>
      <AppDevInfo></AppDevInfo>
      <AuthKey></AuthKey>
      <ServerIPType></ServerIPType>
      <ServerIPAddress></ServerIPAddress>
      <Port></Port>
      <DecryptQuantumKey></DecryptQuantumKey>
    </GdQuantum>
    <ZdQuantum>
      <Enable></Enable>
      <AppDevInfo></AppDevInfo>
```

```
    </ZdQuantum>
  </GlobalConfiguration>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • **1**—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
Keepalive	Global keepalive configuration	Data structure	Members include: • Interval • Timeout	N/A
Interval	Keepalive Interval	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
Timeout	Keepalive Timout	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
SignIDfrom Cert	Digital signature authentication, If enable get the identity of the local end from the certificate	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InvalidSPIRecovery	If enable Re-stablish an IKE SA upon an invalid-SPI event	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
NatKeepaliveInterval	NAT keepalive Interval	N/A	Unsigned integer: Value range:5 to 300, in seconds. Default value is 20	N/A
IKESACountLimit	Limit the number of IKE SA in established and in negotiation	Data structure	Members include: • EstablishLimit • NegotiateLimit	N/A
EstablishLimit	Limit the maximum number of established SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
NegotiateLimit	Limit the maximum number of negotiation SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
LoggingNegotiation	Logging for IKE event negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Compatible Sm4	Backward compatibility for the sm4-cbc algorithm	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GmInitiatorVersion	The version number carried in the negotiation message	N/A	Enumeration: • 0—None • 1—1.0 • 2—1.1	None is reserved for future completion, for now, it just behaves like 1.1.
GdQuantum	GD-quantum settings	Data structure	Members include: • Enable • AppDevInfo • AuthKey • ServerIPType • ServerIPAddress • Port • DecryptQuantumKey	N/A
Enable	Enable GD-quantum encryption	N/A	Boolean: • **true**—Enable. • **false—**Disable.	N/A
AppDevInfo	GD-quantum access ID	N/A	String: Length: 9 characters Digits only.	N/A
AuthKey	GD-quantum authentication key	N/A	String: Length: 64 hex characters for a plaintext key. Case sensitive.	N/A.
ServerIPType	IP version of the GD-quantum server address	N/A	Enumeration: • 0—IPv4.	N/A
ServerIPAddress	IP address of the GD-quantum server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: `10.1.1.1`.
Port	Port number of the GD-quantum server.	N/A	Unsigned integer: Value range:1 to 65535.	N/A
DecryptQuantumKey	GD-quantum decryption key	N/A	String: Length: 64 hex characters for a plaintext key. Case sensitive.	N/A
ZdQuantum	ZD-quantum settings	Data structure	Members include: • Enable. • AppDevInfo.	N/A
Enable	Enable ZD-quantum encryption	N/A	Boolean: • **true**—Enable. • **false—**Disable.	N/A
AppDevInfo	ZD-quantum access ID	N/A	String: Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case sensitive	

IKEv1/Profiles

This table displays IKE profiles information.

XML structure

```
<IKEv1>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <Mode></Mode>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <KeychainList>
        <KeychainItem></KeychainItem>
      </KeychainList>
      <CertificateDomainList>
        <DomainItem></DomainItem>
      </CertificateDomainList>
      <CertACPList>
        <CertACPItem></CertACPItem>
      </CertACPList>
      <MatchRemoteFQDNList>
        <FQDNItem></FQDNItem>
      </MatchRemoteFQDNList>
      <MatchRemoteUserFQDNList>
        <UserFQDNItem></UserFQDNItem>
      </MatchRemoteUserFQDNList>
        <LocalID>
        <Type></Type>
        <IpAddress></IpAddress>
        <Value></Value>
      </LocalID>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
      <DPD>
        <Mode></Mode>
```

```
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <InsideVRF></InsideVRF>
    <ClientXauth></ClientXauth>
    <AAAAuthorization>
      <Domain></Domain>
      <UserName></UserName>
    </AAAAuthorization>
    <SASoftDuration></SASoftDuration>
    <ClientXauthUser>
      <User></User>
      <PasswordType></PasswordType>
      <Password></Password>
      <ClientXauthServer></ClientXauthServer>
    </ClientXauthUser>
    <MatchRemoteDomainList>
      <DomainItem></DomainItem>
    </MatchRemoteDomainList>
    <RemoteIdentityauthorization>
      <Domain></Domain>
      <UserName></UserName>
    </RemoteIdentityauthorization>
    <Sm4Version></Sm4Version>
    <GmInitiatorVersion></GmInitiatorVersion>
    <PeerSerialNumber></PeerSerialNumber>
    <MatchRemoteAddr>
      <MatchType></MatchType>
      <IpAddress></IpAddress>
    </MatchRemoteAddr>
    <DynamicSrcPortEnable></DynamicSrcPortEnable>
  </Profile>
 </Profiles>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE profile	N/A	Unsigned integer: Value range:1 to 65535 Default value is 100.	N/A
Mode	The phase 1 negotiation mode	N/A	Enumeration: • **1**—Main • 2—Aggressive • 3—GM-main Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: • ProposalItem	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 ProposalItem in ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: • KeychainItem	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: • DomainItem	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertACPList	Reference a PKI certificate access control policy for the IKE profile	Data structure	Members include: • CertACPItem	N/A
CertACPItem	The Name of PKI certificate access control policy	N/A	String: Length:1 to 31 characters Case insensitive.	Contains unrestricted CertACPItem in CertACPList.
MatchRemoteFQDNList	Configure a rule of match the peer FQDN information for the IKE profile	Data structure	Members include: • FQDNItem	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDNList.
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: • UserFQDNItem	N/A
UserFQDNItem	The peer user FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted UserFQDNItem in MatchRemoteUserFQDNList.
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
MatchLocalAddr	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • **1**—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
InsideVRF	The inside VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	N/A
ClientXauth	Whether the client authentication is enabled.	N/A	Boolean: • true • false	N/A
AAAAuthorization	AAA authentication	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	N/A
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	N/A
SASoftDuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 10 to 36000.	N/A
ClientXauthUser	Client authentication user information	N/A	Members include: • User. • PasswrodType. • Password. • ClientXauthServer.	N/A
User	Username	N/A	String: case-insensitive. Length: 1 to 55 characters.	N/A
PasswordType	Type of the user password	N/A	Enumeration: • **1**—Simple, • **2**—Cipher	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	User password	N/A	Plaintext string: 1 to 63 characters. Ciphertext string: 1 to 110 characters.	N/A
ClientXauthServer	ClientXauthServer	N/A	Enumeration: • 0—None • 2—JitServer	N/A
MatchRemoteDomainList	Peer FQDN domaininformation for IKE profile matching	Data structure	Members include: DomainItem.	N/A
DomainItem	Peer FQDN domain	N/A	String: case sensitive. Length:1 to 255 characters.	N/A
RemoteIdentityauthorization	Enable authorization based on peer identity	Data structure	Members include: • Domain. • UserName	N/A
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	N/A
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	N/A
Sm4Version	The sm4 version	N/A	Enumeration: • 1—standard • 2—draft	The column is only available in GM delivery.
GmInitiatorVersion	The version number carried in the negotiation message	N/A	Enumeration: • 0—None • 1—1.0 • 2—1.1	When value is None, the global configuration takes effect.
PeerSerialNumber	The serial number of the peer certificate	N/A	String:not case-sensitive. Length:1 to 127 characters.	A string of hexadecimal numbers.
MatchRemoteAddr	Peer gateway IP address for matching ike profile	Data structure	Members include: • MatchType • IpAddress	N/A
MatchType	The type of matching remote address	N/A	Enumeration: • 1—dynamic • 2—static	N/A
IpAddress	The IP address of peer gateway	N/A	Ipv4 address or Ipv6 address	When MatchType is dynamic, no IpAddress.
DynamicSrcPortEnable	Whether using the dynamic port for negotiation	N/A	Boolean: • true • false	N/A

IKEv1/MatchRemoteIpv4AddressByHostName

This table displays match remote identity IPv4 address by hostname information.

XML structure

```
<IKEv1>
  <MatchRemoteIpv4AddressByHostName>
    <RemoteID>
      <Profile></Profile>
      <HostName></HostName>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4AddressByHostName>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of an IKE profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
HostName	Remote host name	Index	String. Length:1 to 253 characters.	N/A
VRF	VPN instance to which the remote host address belongs	Index	String, case sensitive. Length: 0 to 31 characters.	If the remote host is on the public network, the length of characters is 0.

IKEv1/MatchRemoteIpv4Address

This table displays match remote identity IPv4 address information

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	Index	Ipv4Address mask	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It’s a public network when VRF is a null string.

IKEv1/MatchRemoteIpv6Address

This table displays match remote identity IPv6 address information

XML structure

```
<IKEv1>
```

```
  <MatchRemoteIpv6Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer: Value range:0 to 128, in seconds.	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It’s a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv4Range

This table displays match remote identity IPv4 range information

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Range>
    <RemoteID>
      <Profile></Profile>
```

```
      <BeginIpv4Address></BeginIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
EndIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv6Range

This table displays match remote identity IPv6 range information

XML structure

```
<IKEv1>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <VRF></VRF>
    </RemoteID>
```

```
  </MatchRemoteIpv6Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv6Address	Start IPv6 Address	Index	Ipv6Address	N/A
EndIpv6Address	End IPv6 Address	Index	Ipv6Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/Proposals

This table displays IKE proposals information

XML structure

```
<IKEv1>
  <Proposals>
    <Proposal>
      <Priority></Priority>
      <AuthorityMethod></AuthorityMethod>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <DHID></DHID>
      <SADuration></SADuration>
```

```
      <Description></Description>
    </Proposal>
  </Proposals>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Proposals
Table type	Multi-instance table
Row name	Proposal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	priority	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AuthorityMethod	Authentication method Id	N/A	Enumeration: • **1**—Pre-Shared-Key • 2—RSA-Signature • 3—DSA-Signature • 4—RSA-DE-digital envelope • 5—SM2-DE-digital envelope • 6—ECDSA-Signature Default value is **1**	N/A
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer.	See table IKECapabilities for supported Authentication algorithm.
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer.	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds. Default value is 86400	N/A
Description	Description of proposal	N/A	String:	

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length:1 to 80 characters Case sensitive	

IKEv1/Keychains

This table displays IKE keychains information

XML structure

```
<IKEv1>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Priority></Priority>
      <KeychainVRF></KeychainVRF>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
    </Keychain>
  </Keychains>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE keychain	N/A	Unsigned integer: Value range:1 to 65535. Default value is 100	N/A
KeychainVRF	The VPN instance of keychain belongs to	N/A	String: Length:1 to 31 characters Case sensitive	N/A
MatchLocalAddr	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.

IKEv1/HostPreSharedKeys

This table displays host pre-shared-keys information for IKE keychain

XML structure

```
<IKEv1>
  <HostPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Host></Host>
    </PreSharedKey>
  </HostPreSharedKeys>
```

```
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	HostPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Host	Host name	Index	String: Length:1 to 255 characters Case sensitive	N/A

IKEv1/DomainPreSharedKeys

This table displays Domain pre-shared-keys information for IKE keychain

XML structure

```
<IKEv1>
  <DomainPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Domain></Domain>
    </PreSharedKey>
  </DomainPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1

Table name	DomainPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Domain	Peer FQDN domain	Index	String: Length:1 to 255 characters Case sensitive	N/A

IKEv1/Ipv4AddressByHostNamePSKs

This table contains the preshared key specified in an IKE keychain for negotiation with a peer IPv4 address identified by the hostname.

XML structure

```
<IKEv1>
  <Ipv4AddressByHostNamePSKs>
    <PreSharedKey>
      <Keychain></Keychain>
      <HostName></HostName>
    </PreSharedKey>
  </Ipv4AddressByHostNamePSKs>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressByHostNamePSKs
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of an IKE keychain	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
HostName	Remote host name	Index	String. Length: 1 to 253 characters.	N/A

IKEv1/ Ipv4AddressPreSharedKeys

This table displays IPv4 address presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv4AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
    </PreSharedKey>
  </Ipv4AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case insensitive	
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	N/A	Ipv4Address Mask	N/A

IKEv1/ Ipv6AddressPreSharedKeys

This table displays IPv6 address presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv6AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PreSharedKey>
  </Ipv6AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of Ipv6 address	Index	Ipv6Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	The prefix length of Ipv6 address	N/A	Unsigned integer: Value range:0 to 128, in seconds.	N/A

IKEv1/Ipv4RangePreSharedKeys

This table displays IPv4 address range presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv4RangePreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <LowIpv4Address></LowIpv4Address>
      <HighIpv4Address></HighIpv4Address>
    </PreSharedKey>
  </Ipv4RangePreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4RangePreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
LowIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
HighIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A

IKEv1/Ipv6RangePreSharedKeys

This table displays IPv6 address range presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv6RangePreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <LowIpv6Address></LowIpv6Address>
      <HighIpv6Address></HighIpv6Address>
    </PreSharedKey>
  </Ipv6RangePreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6RangePreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
LowIpv6Address	Start Ipv6 Address	Index	Ipv6Address	N/A
HighIpv6Address	End Ipv6 Address	Index	Ipv6Address	N/A

IKEv1/DefaultProposal

This table displays default IKE proposal information.

XML structure

```
<IKEv1>
  <DefaultProposal>
    <AuthorityMethod></AuthorityMethod>
    <AuthorityAlg></AuthorityAlg>
    <EncryptionAlg></EncryptionAlg>
    <DHID></DHID>
    <SADuration></SADuration>
  </DefaultProposal>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	DefaultProposal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorityMethod	Authentication method Id for the IKE Proposal	N/A	Unsigned integer.	N/A
AuthorityAlg	Authentication algorithm Id for the IKE Proposal	N/A	Unsigned integer.	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id for the IKE Proposal	N/A	Unsigned integer.	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A

IKEv1/IKESAs

This table displays IKE SA information.

XML structure

```
<IKEv1>
  <IKESAs>
    <IKESA>
      <ConnectionID></ConnectionID>
      <OutsideVRF></OutsideVRF>
      <InsideVRF></InsideVRF>
      <Profile></Profile>
      <Initiator></Initiator>
      <LocalID>
        <Type></Type>
        <IpAddress></IpAddress>
        <Value></Value>
      </LocalID>
      <RemoteID>
        <Type></Type>
        <IpAddress></IpAddress>
        <Value></Value>
      </RemoteID>
      <RemoteIpAddress></RemoteIpAddress>
      <LocalIpAddress></LocalIpAddress>
      <AuthorityMethod></AuthorityMethod>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <DHID></DHID>
      <ExchangeMode></ExchangeMode>
      <IsNATTraversal></IsNATTraversal>
      <SADuration></SADuration>
      <RemainingSADuration></RemainingSADuration>
      <Flag></Flag>
      <DOI></DOI>
      <AssignedIpAddress>
```

```
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AssignedIpAddress>
    </IKESA>
  </IKESAs>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	IKESAs
Table type	Multi-instance table
Row name	IKESA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionID	ConnectionID of IKE SA	Index	Unsigned integer.	N/A
OutsideVRF	Outbound VRF	N/A	String: Length:1 to 31 characters Case sensitive	N/A
InsideVRF	Inbound VRF	N/A	String: Length:1 to 31 characters Case sensitive	N/A
Profile	Name of IKE profile	N/A	String: Length:1 to 63 characters Case insensitive	N/A
Initiator	If Local gateway be the initiator	Data structure	Boolean: • **true**—initiator. • **false**—response.	N/A
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the local identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—DN	
IpAddress	The value of address when the local identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the local identity isn't IP address	N/A	String: Length: Actual length Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's DN name.
RemoteID	The identity of the peer end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the peer identity	N/A	Enumeration: • **1**—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the peer identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the peer identity isn't IP address	N/A	String: Length: Actual length Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's DN Name.
RemoteIpAddress	IP address of peer gateway	N/A	Ipv4Address or Ipv6 Address	N/A
LocalIpAddress	IP address of local gateway	N/A	Ipv4Address or Ipv6 Address	N/A
AuthorityMethod	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer. Authentication algorithm Id	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer. Encryption algorithm Id	See table IKECapabilities for supported Encryption algorithm

Column name	Column description	Column type	Data type and restrictions	Remarks
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.. Diffie-Hellman group ID	See table IKECapabilities for supported Diffie-Hellman group
ExchangeMode	Negotiation mode	N/A	Enumeration: • **1**—Main. • **2**—Aggressive	N/A
IsNATTraversal	UDP encapsulation used for NAT traversal	N/A	Boolean: • **true**—Need traversal. • **false**—non-essential.	N/A
SADuration	IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A
RemainingSADuration	Remaining IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A
Flag	Flag of SA	N/A	Unsigned integer.	0x00000001 **RD (READY)**, which means the SA has been established 0x00000002 **ST (STAYALIVE)**, which means this end is the initiator of the tunnel negotiation. 0x00000004 **RL (REPLACED)**, which means the SA has been replaced by a new one and will be deleted later. 0x00000008 **FD (FADING)**, which means the SA is in use, but it is about to expire and will be deleted soon. 0x80000000 **Unknown,** which means The SA status is Unkown.
DOI	Domain of interpretation which SA belong	N/A	Enumeration: • **1**—IPsec. • **2**—GDOI	N/A
AssignedIpAddress	Assigned IP address of peer	Data structure	Members include: • Type • IpAddress • Ipv6PrefixLength	N/A
AddressType	The type of the IP Address	N/A	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address.
Ipv6PrefixLength	The prefix length of IPv6 address	N/A	Unsigned integer: Value range:1 to 128.	The prefix length must be specified when Ip address type is Ipv6.

IKEv1/GlobalStatistics

This table displays IKE global statistics information.

XML structure

```
<IKEv1>
  <GlobalStatistics>
    <ActiveTunnels></ActiveTunnels>
    <InitTunnels></InitTunnels>
    <InitTunnelFails></InitTunnelFails>
    <RespTunnels></RespTunnels>
    <RespTunnelFails></RespTunnelFails>
    <InOctets></InOctets>
    <OutOctets></OutOctets>
    <InPkts></InPkts>
    <OutPkts></OutPkts>
    <InP2Exchanges></InP2Exchanges>
    <OutP2Exchanges></OutP2Exchanges>
    <InP2ExchangeRejects></InP2ExchangeRejects>
    <OutP2ExchangeRejects></OutP2ExchangeRejects>
    <InP2SADelRequests></InP2SADelRequests>
    <OutP2SADelRequests></OutP2SADelRequests>
    <InNotifys></InNotifys>
    <OutNotifys></OutNotifys>
    <InDropPkts></InDropPkts>
    <OutDropPkts></OutDropPkts>
    <DropPktsDetails>
      <AuthFails></AuthFails>
      <NoSAFails></NoSAFails>
      <InvalidCookieFails></InvalidCookieFails>
      <AttrNotSuppFails></AttrNotSuppFails>
```

```
      <NoProposalChosenFails></NoProposalChosenFails>
      <UnsuppExchTypeFails></UnsuppExchTypeFails>
      <InvalidIDFails></InvalidIDFails>
      <InvalidPropFails></InvalidPropFails>
      <CertTypeUnsuppFails></CertTypeUnsuppFails>
      <InvalidCertAuthFails></InvalidCertAuthFails>
      <InvalidSignFails></InvalidSignFails>
      <CertUnavailableFails></CertUnavailableFails>
    </DropPktsDetails>
  </GlobalStatistics>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActiveTunnels	Number of active tunnel in the first stage	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InitTunnels	Number of as the initiator for the successful establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InitTunnelFails	Number of as the initiator did not successfully established IKE tunnel	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RespTunnels	Number of as a response to successful establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RespTunnelFails	Number of as the response	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	did not successfully establishment ed IKE tunnel		Value range: 0 to 2^{32}-1.	N/A
InOctets	Number of the recived Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutOctets	Number of the sent Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InPkts	Number of recived packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutPkts	Number of sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP2Exchanges	Number of recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2Exchanges	Number of sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP2ExchangeRejects	Number of dropped recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2ExchangeRejects	Number of dropped sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP2SADelRequests	Number of recived request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2SADelRequests	Number of recived request of SA in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InNotifys	Number of recived notify news	N/A	Unsigned integer. Value range: 0 to 2^{32}-1	N/A
OutNotifys	Number of sent notify news	N/A	Unsigned integer. Value range: 0 to 2^{32}-1	N/A
InDropPkts	Number of droped recived	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets			
OutDropPkts	Number of droped sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
DropPktsDetails	Number of dropped packets due to authentication failure	Data structure	Members include: • AuthFails • `NoSAFails` • `InvalidCookieFails` • `AttrNotSuppFails` • `NoProposalChosenFails` • `UnsuppExchTypeFails` • `InvalidIDFails` • `InvalidPropFails` • `CertTypeUnsuppFails` • `InvalidCertAuthFails` • `InvalidSignFails` • `CertUnavailableFails`	`N/A`
AuthFails	The reason for the failure of building IKE tunnel	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
NoSAFails	Number of lack of available IKE SA in the negotiate process	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InvalidCookieFails	Number of dropped packets due to Invalid cookie	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
AttrNotSuppFails	Number of dropped packets due to Nonsupport transform load attribute	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
NoProposalChosenFails	Number of dropped packets due to Witnout the option proposal	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
UnsuppExchTypeFails	Number of dropped packets due to Nonsupport exchange type	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InvalidIDFails	Number of dropped packets due to Invalid ID load	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InvalidPropFails	Number of dropped packets due to Invalid proposal	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
CertTypeUnsuppFails	Number of dropped packets due to Nonsupport certificate type	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InvalidCertAuthFails	Number of dropped packets due to Invalid CA	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InvalidSignFails	Number of dropped packets due to Invalid signature	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
CertUnavailableFails	Number of dropped packets due to cannot obtain certificate	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

IKEv1/TunnelsStatistics

This table displays IKE tunnel statistics information.

XML structure

```
<IKEv1>
  <TunnelsStatistics>
    <Statistics>
      <TunnelID></TunnelID>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
      <InPkts></InPkts>
      <OutPkts></OutPkts>
      <InP2Exchanges></InP2Exchanges>
      <OutP2Exchanges></OutP2Exchanges>
      <InP2ExchangeRejects></InP2ExchangeRejects>
      <OutP2ExchangeRejects></OutP2ExchangeRejects>
      <InP2SADelRequests></InP2SADelRequests>
```

```
      <OutP2SADelRequests></OutP2SADelRequests>
      <InP1SADelRequests></InP1SADelRequests>
      <OutP1SADelRequests></OutP1SADelRequests>
      <InNotifys></InNotifys>
      <OutNotifys></OutNotifys>
      <InDropPkts></InDropPkts>
      <OutDropPkts></OutDropPkts>
    </Statistics>
  </TunnelsStatistics>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	TunnelsStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IKE tunnel ID	Index	Unsigned integer. Value range: 0 to 2^{32}-1	N/A
InOctets	Number of the recived Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutOctets	Number of the sent Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InPkts	Number of recived packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutPkts	Number of sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP2Exchanges	Number of recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2Exchanges	Number of sent exchanges in the second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	stage			
InP2ExchangeRejects	Number of dropped recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2ExchangeRejects	Number of dropped sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP2SADelRequests	Number of recived request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP2SADelRequests	Number of recived request of SA in the second stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InP1SADelRequests	Number of recived request of SA in the first stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutP1SADelRequests	Number of sent request of SA in the first stage	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
InNotifys	Number of recived notify news	N/A	Unsigned integer. Value range: 0 to 2^{32}-1	N/A
OutNotifys	Number of sent notify news	N/A	Unsigned integer. Value range: 0 to 2^{32}-1	N/A
InDropPkts	Number of droped recived packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A
OutDropPkts	Number of droped sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1	N/A

IKEv1/IKECapabilities

This table displays all the algorithm capabilities that the IKE module support.

XML structure

```
<IKEv1>
  <IKECapabilities>
    <IKECapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <AlgType></AlgType>
    </IKECapability>
  </IKECapabilities>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	IKECapabilities
Table type	Multi-instance table
Row name	IKECapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	IKEv1 supports algorithm ID	Index	Positive Integer	N/A
AlgName	IKEv1 supports algorithm name	N/A	String. Length: 1 to 255 characters. Case insensitive	N/A
AlgType	Type of algorithm	N/A	Enumeration: • **1**—Diffie-Hellman group • 2—Encryption algorithm • 3—Authentication algorithm	N/A

IKEv1/Ipv4AddressGroup

This table displays IKE IPv4 address pool information.

XML structure

```
<IKEv1>
  <Ipv4AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <IPv4Mask></IPv4Mask>
    </AddressGroup>
  </Ipv4AddressGroup>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the IPv4 address group	Index	String: case-insensitive. Length:1 to 63 characters.
StartIPaddr	Start IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.
EndIPaddr	End IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.
IPv4Mask	Mask of the IPv4 address	N/A	IPv4: String, dotted decimal notation.

IKEv1/Ipv6AddressGroup

This table displays IKE IPv6 address pool information.

XML structure

```
<IKEv1>
  <Ipv6AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
      <IPv6Addr>
        <Prefix></Prefix>
        <PrefixLen></PrefixLen>
      </IPv6Addr>
      <AssignLen></AssignLen>
    </AddressGroup>
  </Ipv6AddressGroup>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the IPv6 address pool	Index	String: case-insensitive. Length:1 to 63 characters.
IPv6Addr	IPv6 information.	Data structure	Members include: • Prefix. • PrefixLen.
Prefix	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.
PrefixLen	Length of the IPv6 address	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	prefix.		Value range: 1 to 128.
AssignLen	IPv6 prefix length for assignment.	N/A	Unsigned integer. Value range: 1 to 128.

Contents

Comware 7 IKEv1 NETCONF XML API Error Message Reference ····· 1

IKEv1/GlobalConfiguration ····· 1
IKEv1/Profiles ····· 1
IKEv1/MatchRemoteIpv4AddressByHostName ····· 2
IKEv1/Ipv4AddressByHostNamePSKs ····· 2
IKEv1/ Ipv4AddressPreSharedKeys ····· 2
IKEv1/ Ipv6AddressPreSharedKeys ····· 3
IKEv1/Ipv4AddressGroup ····· 3

Comware 7 IKEv1 NETCONF XML API Error Message Reference

IKEv1/GlobalConfiguration

Message	Explanation
This device not suppot the configuration. 该设备不支持该项配置。	This device doesn't support the configuration.. 设备不支持该配置项。
ZD-quantum has not been enabled. 中电量子功能未开启。	Configuration is allowed only after you enable ZD-quantum. 开启中电量子功能后，才能进行配置。

IKEv1/Profiles

Message	Explanation
Domain name must not include / \\ | """" : * ? < > @, and must not be d, d, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. 域名不允许包含 / \\ | """" : * ? < > @，也不允许为 d，de，def，defa，defau，defaul，default，i，if，if-，if-u，if-un，if-unk，if-unkn，if-unkno，if-unknow，if-unknown。	Specifies the ISP domain used for requesting authorization attributes. The domain name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).The name cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown. 申请授权属性时使用的ISP域名，域名不能包括“/”、“\”、“|”、“""”、“:”、“*”、“?”、“<”、“>”以及“@”字符，且不能为字符串“d”、“de”、“def”、“defa”、“defau”、“defaul”、“default”、“i”、“if”、“if-”、“if-u”、“if-un”、“if-unk”、“if-unkn”、“if-unkno”、“if-unknow”和“if-unknown”。
User name must not include \\ | / : * ? < > @, and must not be a, al, all. 用户名不允许包含 \\，|，/，:，*，?，<，>，@，也不允许为a，al，all。	Specifies the username used for requesting authorization attributes. The username cannot contain a forward slash (/), backslash (\), vertical bar (|), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).The username cannot be a, al, or all. 申请授权属性时使用的用户名，用户名不允许包含 \\，|，/，:，*，?，<，>，@，用户名也不允许为a，al，all。
The number of keychains in the profile exceeds the limit. 指定profile下的Keychain个数超出上限。	You can specify a maximum of six IKE keychains for an IKE profile. 一个IKE profile中最多可以指定六个IKE keychain。
The number of certificate domains in the profile exceeds the limit. 指定profile下的证书所属PKI域的个数超出上限。	You can specify a maximum of six PKI domains for an IKE profile. 一个IKE profile中最多可以引用六个PKI域。
Invalid username. 无效的用户名。	Specifies the username for client authentication. The username cannot contain a forward slash (/), backslash (\), vertical bar (|), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).The username cannot be a, al, or all. 配置客户端认证的用户名，用户名不允许包含 \\，|，/，:，*，?，<，>，@，用户名也不允许为a，al，all。

Invalid password. 无效的密码。	Specifies the password for client authentication. Its plaintext form is a case-sensitive string of 1 to 63 characters. Its encrypted form is a case-sensitive string of 1 to 110 characters. 配置客户端认证的密码，明文密码为1～63个字符的字符串；密文密码为1～110个字符的字符串。
The feature GD-quantum has not been enabled. 国盾量子功能未开启。	Configuration is allowed after you enable GD-quantum. 开启国盾量子功能后，才能进行配置。
To configure or delete the port number, you must also specify the ServerIP address. 配置或删除端口号时，IP地址必须下发。	To configure or delete the port number of a GD-quantum server, you must also specify the IP address of the GD-quantum server. 配置或删除国盾量子服务器端口号时，国盾量子服务器IP地址必须下发。
To delete the GD-quantum server's IP address, you must also specify the port number. 删除国盾量子服务器IPAddess时，必须下发端口号。	To delete the IP address of a GD-quantum server, you must also specify the port number of the GD-quantum server. 删除国盾量子服务器IPAddess时，必须下发端口号。

IKEv1/MatchRemoteIpv4AddressByHostName

Message	Explanation
Invalid host name. 无效的主机名。	Invalid host name. 无效的主机名。

IKEv1/Ipv4AddressByHostNamePSKs

Message	Explanation
A pre-shared key is already configured for the IPv4 address specified by the hostname. 该主机名对应的预共享密钥已存在。	The pre-shared key is already configured for the Ipv4 address specified by the hostname and cannot be configured again. 该主机名对应的预共享密钥已存在时，不能再次下发。
Invalid host name. 无效的主机名。	Invalid host name. 无效的主机名。

IKEv1/ Ipv4AddressPreSharedKeys

Message	Explanation
A pre-shared key is already configured for this address. 该地址的预共享秘钥已存在。	The pre-shared key is already configured for this address and cannot be configured again. 该地址的预共享密钥已存在时，不能再次下发。
A pre-shared key is already configured for this host. 该主机的预共享秘钥已存在。	The pre-shared key is already configured for this host and cannot be configured again. 该主机的预共享密钥已存在时，不能再次下发。

IKEv1/ Ipv6AddressPreSharedKeys

Message	Explanation
A pre-shared key is already configured for this address. 该地址的预共享秘钥已存在。	The pre-shared key is already configured for this address and cannot be configured again. 该地址的预共享密钥已存在时，不能再次下发。
A pre-shared key is already configured for this host. 该主机的预共享秘钥已存在。	The pre-shared key is already configured for this host and cannot be configured again. 该主机的预共享密钥已存在时，不能再次下发。

IKEv1/Ipv4AddressGroup

Message	Explanation
Start IP address can't be higher than end IP address. 起始IP地址不能大于结束IP地址。	End-ipv4-address of an IKE IPv4 address group can’t be lower than start-ipv4-address. 配置IKE IPv4地址池时 ，起始IP地址不能大于结束IP地址。
Number of IP addresses in the group exceeded the limit. 该地址池的地址数目超过最大值。	An IKE IPv4 address pool can contain a maximum of 8192 IPv4 addresses. 每个地址池中包括的IPv4地址的最大数目为8192。
The address group overlaps with an existing address group. 该地址池与已存在地址池重叠。	Address groups cannot overlap with each other. 地址池的地址范围不能相互重叠。
Configuration items don't meet the requirements. 不符合配置要求。	The start-ipv4-address and end-ipv4-address must be specified together. 起始地址和结束地址必须同时下发。
Invalid IPv4 mask. 无效的IPv4掩码。	Must specify correct IPv4 address mask or correct length of IPv4 address mask. 必须下发正确的掩码或掩码长度。
IP address not allowed in address group. 该地址不允许在地址池中使用。	The IP address can’t be used in the address group. 该地址不允许在地址池中使用。

Contents

IKEv2 1

IKEv2/GlobalConf 1
XML structure 1
Table description 1
Columns 1
IKEv2/Profiles 2
XML structure 2
Table description 3
Columns 3
IKEv2/MatchRemoteIpv4Address 5
XML structure 5
Table description 6
Columns 6
IKEv2/MatchRemoteIpv6Address 6
XML structure 6
Table description 6
Columns 7
IKEv2/MatchRemoteIpv4Range 7
XML structure 7
Table description 7
Columns 8
IKEv2/MatchRemoteIpv6Range 8
XML structure 8
Table description 8
Columns 9
IKEv2/ProfileMatchRemotePeer 9
XML structure 9
Table description 9
Columns 10
IKEv2/ProfileMatchLocalIpAddress 10
XML structure 10
Table description 10
Columns 11
IKEv2/ProfileMatchLocalInterfaces 11
XML structure 11
Table description 11
Columns 12
IKEv2/Policies 12
XML structure 12
Table description 12
Columns 13
IKEv2/PolicyMatchLocalIpAddress 13
XML structure 13
Table description 13
Columns 14
IKEv2/PolicyMatchLocalInterfaces 14
XML structure 14
Table description 14
Columns 15
IKEv2/Proposals 15
XML structure 15
Table description 15
Columns 16
IKEv2/Keychains 17
XML structure 17
Table description 18
Columns 18

IKEv2

IKEv2/GlobalConf

This table is used to configure IKEv2 global settings.

XML structure

```
<IKEv2>
  <GlobalConf>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <CookieChallenge></CookieChallenge>
    <NatKeepaliveInterval></NatKeepaliveInterval>
  </GlobalConf>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	GlobalConf
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Global Dead Peer Detection (DPD) settings	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	Operating mode of DPD	N/A	Enumeration: • **1**—On-demand • **2**—Periodic	N/A
Interval	Time interval for triggering	N/A	Unsigned integer: Value range: 10 to 3600, in	The interval must be larger than the retry.

Column name	Column description	Column type	Data type and restrictions	Remarks
	DPD		seconds.	
Retry	DPD retry interval	N/A	Unsigned integer: Value range: 2 to 60, in seconds. Default value is 5.	N/A
CookieChallenge	Number of half-open IKE SAs that triggers cookie challenging	N/A	Unsigned integer: Value range: 0 to 1000, or 65535. Default value is 65535.	If the value is 65535, cookie challenging feature disabled.
NatKeepaliveInterval	NAT keepalive interval	N/A	Unsigned integer: Value range: 5 to 3600, in seconds. Default value is 10.	N/A

IKEv2/Profiles

This table is used to configure IKEv2 profiles.

XML structure

```
<IKEv2>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <LocalAuthMethod></LocalAuthMethod>
      <RemoteAuthMethodList>
        <RemoteAuthMethodItem></RemoteAuthMethodItem>
      </RemoteAuthMethodList>
      <ConfigExchangeList>
        <ConfigExchangeItem></ConfigExchangeItem>
      </ConfigExchangeList>
      <Keychain></Keychain>
      <SADuration></SADuration>
      <NatKeepaliveInterval></NatKeepaliveInterval>
      <InsideVRF></InsideVRF>
      <DPD>
        <Mode></Mode>
        <Interval></Interval>
        <Retry></Retry>
      </DPD>
      <MatchVRF>
        <MatchVrfType></MatchVrfType>
        <VRFName></VRFName>
      </MatchVRF>
```

```
      <AAAAAuthorization>
        <Domain></Domain>
        <UserName></UserName>
      </AAAAAuthorization>
      <IdentityLocal>
        <IdentityType></IdentityType>
        <StringValue></StringValue>
        <IpAddress></IpAddress>
      </IdentityLocal>
    </Profile>
  </Profiles>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the IKEv2 profile	N/A	Unsigned integer. Value range: 1 to 65535 Default value is 100.	N/A
LocalAuthMethod	Local identity authentication method	N/A	Enumeration: • **1**—Preshared key • **2**—DSA signature • **3**—RSA signature • **4**—ECDSA signature	N/A
RemoteAuthMethodList	Remote identity authentication method list	Data structure	Members include: • RemoteAuthMethodItem	N/A
RemoteAuthMethodItem	Remote identity authentication method	N/A	Enumeration: • **1**—Preshared key • **2**—DSA signature • **3**—RSA signature • **4**—ECDSA signature	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfigExchangeList	Configuration exchange feature	Data structure	Members include: • ConfigExchangeItem	N/A
ConfigExchangeItem	Configuration exchange setting	N/A	Enumeration: • **1**—Request • **2**—Set accept • **3**—Set send	N/A
Keychain	IKE keychain used for the IKEv2 profile	N/A	String. Length: 1 to 63 characters.	N/A
SADuration	IKEv2 SA lifetime	N/A	Unsigned integer. Value range: 120 to 86400, in seconds. Default value is 86400.	N/A
NatKeepaliveInterval	NAT keepalive interval for the IKEv2 profile	N/A	Unsigned integer. Value range: 5 to 3600, in seconds.	N/A
InsideVRF	Inside VPN instance	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
DPD	Dead Peer Detection (DPD) settings	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	Operating mode of DPD	N/A	Enumeration: • **1**—On-demand • **2**—Periodic	N/A
Interval	Time interval for triggering DPD	N/A	Unsigned integer. Value range: 10 to 3600, in seconds.	The interval must be larger than the retry.
Retry	DPD retry interval	N/A	Unsigned integer. Value range: 2 to 60, in seconds. Default value is 5.	N/A
MatchVRF	VPN instance for the IKEv2 profile	Data structure	Members include: • MatchVrfType • VRFName	N/A
MatchVrfType	Network type	N/A	Enumeration: • **1**—Any. • **2**—Specific VPN instance.	N/A
VRFName	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
AAAAuthorization	AAA authorization	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain used for	N/A	String, case-insensitive.	Domain name must not contain / \\ | " : * ?

Column name	Column description	Column type	Data type and restrictions	Remarks
	requesting authorization attributes		Length: 1 to 255 characters.	< > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown.
UserName	Username used for requesting authorization attributes	N/A	String, case-sensitive. Length: 1 to 55 characters.	User name must not contain \\ | / : * ? < > @, and must not be a, al, all.
IdentityLocal	Identity information for the IKEv2 profile	Data structure	Members include: • IdentityType • StringValue • IpAddress	N/A
IdentityType	Identity Type	N/A	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address • **3**—dn. • **4**—email • **5**—fqdn. • **6**—key-id	N/A
StringValue	Identity Value	N/A	String. Length: 1 to 255 characters.	N/A
IpAddress	The value of address	N/A	IPv4 address or IPv6 address	N/A

IKEv2/MatchRemoteIpv4Address

This table is used to specify remote identity information (IPv4 address) for IKEv2 profile matching.

XML structure

```
<IKEv2>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address used as the remote identity	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4Mask	Mask of the IPv4 address	Index	Mask: String, dotted decimal notation.	Mask example: 255.255.0.0.

IKEv2/MatchRemoteIpv6Address

This table is used to specify remote identity information (IPv6 address) for IKEv2 profile matching.

XML structure

```
<IKEv2>
  <MatchRemoteIpv6Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv6Address

Item	Description
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address used as the remote identity	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer. Value range: 0 to 128.	N/A

IKEv2/MatchRemoteIpv4Range

This table is used to specify remote identity information (IPv4 address range) for IKEv2 profile matching.

XML structure

```
<IKEv2>
  <MatchRemoteIpv4Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv4Address></BeginIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </RemoteID>
  </MatchRemoteIpv4Range>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
BeginIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.2. The end address must be higher than the start address.

IKEv2/MatchRemoteIpv6Range

This table is used to specify remote identity information (IPv6 address range) for IKEv2 profile matching.

XML structure

```
<IKEv2>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
    </RemoteID>
  </MatchRemoteIpv6Range>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv6Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
BeginIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:9. The end address must be higher than the start address.

IKEv2/ProfileMatchRemotePeer

This table is used to specify remote identity information (FQDN, email address, or key ID of the peer) for IKEv2 profile matching.

XML structure

```
<IKEv2>
  <ProfileMatchRemotePeer>
    <MatchRemotePeer>
      <Profile></Profile>
      <PeerType></PeerType>
      <PeerName></PeerName>
    </MatchRemotePeer>
  </ProfileMatchRemotePeer>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchRemotePeer
Table type	Multi-instance table
Row name	MatchRemotePeer
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKEv2 profile	Index	String, case insensitive. Length:1 to 63 characters.	N/A
PeerType	peer Type	Index	Enumeration: • **1**—fqdn • **2**—email • **3**—key-id	N/A
PeerName	peer ID for IKEv2 profile	Index	String: Length:1 to 255 characters.	N/A

IKEv2/ProfileMatchLocalIpAddress

This table is used to specify a local IP address to which an IKEv2 profile can be applied.

XML structure

```
<IKEv2>
  <ProfileMatchLocalIpAddress>
    <MatchLocalIpAddress>
      <Profile></Profile>
      <IPType></IPType>
      <Address></Address>
    </MatchLocalIpAddress>
  </ProfileMatchLocalIpAddress>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchLocalIpAddress
Table type	Multi-instance table
Row name	MatchLocalIpAddress
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IPType	IP address type	Index	Enumeration: • **1**—IPv4 address • **2**—IPv6 address	N/A
Address	IP address of a local interface	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IKEv2/ProfileMatchLocalInterfaces

This table is used to specify a local interface to which an IKEv2 profile can be applied.

XML structure

```
<IKEv2>
  <ProfileMatchLocalInterfaces>
    <MatchLocalInterface>
      <Profile></Profile>
      <IfIndex></IfIndex>
    </MatchLocalInterface>
  </ProfileMatchLocalInterfaces>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchLocalInterfaces
Table type	Multi-instance table
Row name	MatchLocalInterface
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A

IKEv2/Policies

This table is used to configure IKEv2 policies.

XML structure

```
<IKEv2>
  <Policies>
    <Policy>
      <Name></Name>
      <Priority></Priority>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <MatchVRF>
        <MatchVRFType></MatchVRFType>
        <VRFName></VRFName>
      </MatchVRF>
    </Policy>
  </Policies>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority for the IKEv2 policy	N/A	Unsigned integer. Value range: 1 to 65535 Default value is 100.	N/A
ProposalList	IKEv2 proposal list for the IKEv2 policy	Data structure	Members include: • ProposalItem	N/A
ProposalItem	IKEv2 proposal	Data structure	String. Length: 1 to 63 characters.	N/A
MatchVRF	VPN instance for IKEv2 policy matching	Data structure	Members include: • MatchVrfType • VRFName	N/A
MatchVrfType	Network type	N/A	Enumeration: • **1**—Any. • **2**—Specific VPN instance.	N/A
VRFName	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

IKEv2/PolicyMatchLocalIpAddress

This table is used to specify the local IPv4 or IPv6 address used for IKEv2 policy matching.

XML structure

```
<IKEv2>
  <PolicyMatchLocalIpAddress>
    <MatchLocalIpAddress>
      <Policy></Policy>
      <IPType></IPType>
      <IpAddress></IpAddress>
    </MatchLocalIpAddress>
  </PolicyMatchLocalIpAddress>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	PolicyMatchLocalIpAddress

Item	Description
Table type	Multi-instance table
Row name	MatchLocalIpAddress
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the IKEv2 Policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IPType	IP address type	Index	Enumeration: • **1**—IPv4 address • **2**—IPv6 address	N/A
IpAddress	IP address of a local interface	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IKEv2/PolicyMatchLocalInterfaces

This table is used to specify the local interface used for IKEv2 policy matching.

XML structure

```
<IKEv2>
  <PolicyMatchLocalInterfaces>
    <MatchLocalInterface>
      <Policy></Policy>
      <IfIndex></IfIndex>
    </MatchLocalInterface>
  </PolicyMatchLocalInterfaces>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	PolicyMatchLocalInterfaces
Table type	Multi-instance table
Row name	MatchLocalInterface
Restrictions	None

Item	Description
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the IKEv2 policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index	Index	Unsigned integer	N/A

IKEv2/Proposals

This table is used to configure IKEv2 proposals.

XML structure

```
<IKEv2>
  <Proposals>
    <Proposal>
      <Name></Name>
      <IntegrityList>
        <IntegrityItem></IntegrityItem>
      </IntegrityList>
      <EncryptionList>
        <EncryptionItem></EncryptionItem>
      </EncryptionList>
      <DhList>
        <DhItem></DhItem>
      </DhList>
      <PrfAlgList>
        <PrfAlgItem></PrfAlgItem>
      </PrfAlgList>
    </Proposal>
  </Proposals>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Proposal
Table type	Multi-instance table

Item	Description
Row name	Proposal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Proposal name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IntegrityList	Integrity protection algorithm list for the IKEv2 proposal.	Data structure	Members include: • IntegrityItem	N/A
IntegrityItem	Integrity protection algorithms	N/A	Unsigned integer	See the IKEv2Capabilities table in Comware V7 IKEv2 NETCONF XML API Data Reference for supported authentication algorithms.
EncryptionList	Encryption algorithm list for the IKEv2 proposal	Data structure	Members include: • EncryptionItem	N/A
EncryptionItem	Encryption algorithms	N/A	Unsigned integer	See the IKEv2Capabilities table in Comware V7 IKEv2 NETCONF XML API Data Reference for supported encryption algorithms.
DhList	DH groups list for the IKEv2 proposal	Data structure	Members include: • DhItem	N/A
DhItem	DH groups	N/A	Unsigned integer	See the IKEv2Capabilities table in Comware V7 IKEv2 NETCONF XML API Data Reference for supported DH groups.
PrfAlgList	PRF algorithm list for the IKEv2 proposal	Data structure	Members include: • PrfAlgItem	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrfAlgItem	PRF algorithms	N/A	Unsigned integer	See the IKEv2Capabilities table in Comware V7 IKEv2 NETCONF XML API Data Reference for supported PRF algorithms.

IKEv2/Keychains

This table is used to configure IKEv2 keychains.

XML structure

```
<IKEv2>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Peer></Peer>
      <HostName></HostName>
      <Identity>
        <IdentityType></IdentityType>
        <StringValue></StringValue>
        <LocalIpAddress></LocalIpAddress>
      </Identity>
      <Address>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <Ipv4Mask></Ipv4Mask>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Address>
      <PreSharedKeyLocal>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeyLocal>
      <PreSharedKeyRemote>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeyRemote>
      <PreSharedKeySymmetric>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeySymmetric>
    </Keychain>
  </Keychains>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 keychain	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Peer	Name of an IKEv2 peer	Index	String. Length: 1 to 63 characters.	N/A
HostName	Host name for the IKEv2 peer	N/A	String. Length: 1 to 253 characters.	N/A
Identity	ID of the IKEv2 peer	Data structure	Members include: • IdentityType • StringValue • LocalIpAddress • KeyId	N/A
IdentityType	Identity type	N/A	Enumeration: • **1**—Ipv4Address • **2**—Ipv6Address • **3**—email • **4**—fqdn • **5**—key-id	N/A
StringValue	Identity string	N/A	String. Length: 1 to 255 characters.	N/A
LocalIpAddress	IPv4 or IPv6 address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Address	IP address of the IKEv2 peer	Data structure	Members include: • AddressType • IpAddress • Ipv4Mask • Ipv6PrefixLength	N/A
AddressType	IP address type	Data structure	Enumeration: • **1**—IPv4 address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—IPv6 address	
IpAddress	IPv4 or IPv6 address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Ipv4Mask	Mask of the IPv4 address	N/A	Mask: String, dotted decimal notation.	Mask example: 255.255.0.0.
Ipv6PrefixLength	Prefix length of the IPv6 address	N/A	Unsigned integer. Value range: 0 to 128.	N/A
PreSharedKeyLocal	Preshared key for certificate signing	Data structure	Members include: • KeyType • Key	PreSharedKeyLocal and PreSharedKeySymmetric cannot both be configured.
KeyType	Type of the preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A
PreSharedKeyRemote	Preshared key for certificate authentication	Data structure	Members include: • KeyType • Key	PreSharedKeyRemote and PreSharedKeySymmetric cannot both be configured.
KeyType	Type of the preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A
PreSharedKeySymmetric	Symmetric preshared key for certificate signing	Data structure	Members include: • KeyType • Key	PreSharedKeySymmetric cannot be configured together with PreSharedKeyLocal or PreSharedKeyRemote.
KeyType	Type of the symmetric preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the symmetric preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A

Contents

IKEv2 1

IKEv2/GlobalConf 1
XML structure 1
Table description 1
Columns 1
IKEv2/Profiles 2
XML structure 2
Table description 3
Columns 3
IKEv2/MatchRemoteIpv4Address 5
XML structure 5
Table description 5
Columns 6
IKEv2/MatchRemoteIpv6Address 6
XML structure 6
Table description 6
Columns 6
IKEv2/MatchRemoteIpv4Range 7
XML structure 7
Table description 7
Columns 7
IKEv2/MatchRemoteIpv6Range 8
XML structure 8
Table description 8
Columns 8
IKEv2/ProfileMatchRemotePeer 9
XML structure 9
Table description 9
Columns 9
IKEv2/ProfileMatchLocalIpAddress 9
XML structure 10
Table description 10
Columns 10
IKEv2/ProfileMatchLocalInterfaces 10
XML structure 10
Table description 11
Columns 11
IKEv2/Policies 11
XML structure 11
Table description 12
Columns 12
IKEv2/PolicyMatchLocalIpAddress 12
XML structure 12
Table description 13
Columns 13
IKEv2/PolicyMatchLocalInterfaces 13
XML structure 13
Table description 14
Columns 14
IKEv2/Proposals 14
XML structure 14
Table description 15
Columns 15
IKEv2/Keychains 16
XML structure 16
Table description 16
Columns 17

IKEv2/IKEv2Capabilities ····· 18
XML structure ····· 18
Table description ····· 19
Columns ····· 19
IKEv2/IKEv2SAs ····· 19
XML structure ····· 19
Table description ····· 20
Columns ····· 20
IKEv2/DefaultProposal ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 25
IKEv2/DefaultPolicy ····· 25
XML structure ····· 26
Table description ····· 26
Columns ····· 26

IKEv2

IKEv2/GlobalConf

This table contains IKEv2 global configuration information.

XML structure

```
<IKEv2>
  <GlobalConf>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <CookieChallenge></CookieChallenge>
    <NatKeepaliveInterval></NatKeepaliveInterval>
  </GlobalConf>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	GlobalConf
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Global Dead Peer Detection (DPD) settings	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	Operating mode of DPD	N/A	Enumeration: • **1**—On-demand • **2**—Periodic	N/A
Interval	Time interval for triggering DPD	N/A	Unsigned integer: Value range: 10 to 3600, in seconds.	The interval must be larger than the retry.

Column name	Column description	Column type	Data type and restrictions	Remarks
Retry	DPD retry interval	N/A	Unsigned integer: Value range: 2 to 60, in seconds.	N/A
CookieChallenge	Number of half-open IKE SAs that triggers cookie challenging	N/A	Unsigned integer: Value range: 0 to 1000, or 65535.	If the value is 65535, cookie challenging feature disabled.
NatKeepaliveInterval	NAT keepalive interval	N/A	Unsigned integer: Value range: 5 to 3600, in seconds.	N/A

IKEv2/Profiles

This table contains IKEv2 profiles information.

XML structure

```
<IKEv2>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <LocalAuthMethod></LocalAuthMethod>
      <RemoteAuthMethodList>
        <RemoteAuthMethodItem></RemoteAuthMethodItem>
      </RemoteAuthMethodList>
      <ConfigExchangeList>
        <ConfigExchangeItem></ConfigExchangeItem>
      </ConfigExchangeList>
      <Keychain></Keychain>
      <SADuration></SADuration>
      <NatKeepaliveInterval></NatKeepaliveInterval>
      <InsideVRF></InsideVRF>
      <DPD>
        <Mode></Mode>
        <Interval></Interval>
        <Retry></Retry>
      </DPD>
      <MatchVRF>
        <MatchVrfType></MatchVrfType>
        <VRFName></VRFName>
      </MatchVRF>
      <AAAAuthorization>
        <Domain></Domain>
        <UserName></UserName>
```

```
      </AAAAuthorization>
      <IdentityLocal>
        <IdentityType></IdentityType>
        <StringValue></StringValue>
        <IpAddress></IpAddress>
      </IdentityLocal>
    </Profile>
  </Profiles>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the IKEv2 profile	N/A	Unsigned integer. Value range: 1 to 65535	N/A
LocalAuthMethod	Local identity authentication method	N/A	Enumeration: • **1**—Preshared key • **2**—DSA signature • **3**—RSA signature • **4**—ECDSA signature	N/A
RemoteAuthMethodList	Remote identity authentication method list	Data structure	Members include: • RemoteAuthMethodItem	N/A
RemoteAuthMethodItem	Remote identity authentication method	N/A	Enumeration: • **1**—Preshared key • **2**—DSA signature • **3**—RSA signature • **4**—ECDSA signature	N/A
ConfigExchangeList	Configuration exchange feature	Data structure	Members include: • ConfigExchangeItem	N/A
ConfigExchangeItem	Configuration exchange	N/A	Enumeration: • **1**—Request	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	setting		• **2**—Set accept • **3**—Set send	
Keychain	IKE keychain used for the IKEv2 profile	N/A	String. Length: 1 to 63 characters.	N/A
SADuration	IKEv2 SA lifetime	N/A	Unsigned integer. Value range: 120 to 86400, in seconds.	N/A
NatKeepaliveInterval	NAT keepalive interval for the IKEv2 profile	N/A	Unsigned integer. Value range: 5 to 3600, in seconds.	N/A
InsideVRF	Inside VPN instance	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
DPD	Dead Peer Detection (DPD) settings	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	Operating mode of DPD	N/A	Enumeration: • **1**—On-demand • **2**—Periodic	N/A
Interval	Time interval for triggering DPD	N/A	Unsigned integer. Value range: 10 to 3600, in seconds.	The interval must be larger than the retry.
Retry	DPD retry interval	N/A	Unsigned integer. Value range: 2 to 60, in seconds.	N/A
MatchVRF	VPN instance for the IKEv2 profile	Data structure	Members include: • MatchVrfType • VRFName	N/A
MatchVrfType	Network type	N/A	Enumeration: • **1**—Any. • **2**—Specific VPN instance.	N/A
VRFName	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
AAAAuthorization	AAA authorization	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain used for requesting authorization attributes	N/A	String, case-insensitive. Length: 1 to 255 characters.	Domain name must not contain / \\ | " : * ? < > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown.
UserName	Username	N/A	String, case-sensitive.	User name must not

Column name	Column description	Column type	Data type and restrictions	Remarks
	used for requesting authorization attributes		Length: 1 to 55 characters.	contain \\ | / : * ? < > @, and must not be a, al, all.
IdentityLocal	Identity information for the IKEv2 profile	Data structure	Members include: • IdentityType • StringValue • IpAddress	N/A
IdentityType	Identity Type	N/A	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address • **3**—dn. • **4**—email • **5**—fqdn. • **6**—key-id	N/A
StringValue	Identity Value	N/A	String. Length: 1 to 255 characters.	N/A
IpAddress	The value of address	N/A	IPv4 address or IPv6 address	N/A

IKEv2/MatchRemoteIpv4Address

This table contains match remote identity information (IPv4 address) of IKEv2 profiles.

XML structure

```
<IKEv2>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address used as the remote identity	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4Mask	Mask of the IPv4 address	Index	Mask: String, dotted decimal notation.	Mask example: 255.255.0.0.

IKEv2/MatchRemoteIpv6Address

This table contains match remote identity information (IPv6 address) of IKEv2 profiles.

XML structure

```
<IKEv2>
  <MatchRemoteIpv6Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv6Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address used as the remote identity	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer. Value range: 0 to 128.	N/A

IKEv2/MatchRemoteIpv4Range

This table contains match remote identity information (IPv4 address range) of IKEv2 profiles.

XML structure

```
<IKEv2>
  <MatchRemoteIpv4Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv4Address></BeginIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </RemoteID>
  </MatchRemoteIpv4Range>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
BeginIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.2. The end address must be higher than

Column name	Column description	Column type	Data type and restrictions	Remarks
				the start address.

IKEv2/MatchRemoteIpv6Range

This table contains match remote identity information (IPv6 address range) of IKEv2 profiles.

XML structure

```
<IKEv2>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
    </RemoteID>
  </MatchRemoteIpv6Range>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	MatchRemoteIpv6Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
BeginIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:9. The end address must be higher than the start address.

IKEv2/ProfileMatchRemotePeer

This table contains match remote identity information (FQDN, email address, or key ID of the peer) of IKEv2 profiles.

XML structure

```
<IKEv2>
  <ProfileMatchRemotePeer>
    <MatchRemotePeer>
      <Profile></Profile>
      <PeerType></PeerType>
      <PeerName></PeerName>
    </MatchRemotePeer>
  </ProfileMatchRemotePeer>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchRemotePeer
Table type	Multi-instance table
Row name	MatchRemotePeer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKEv2 profile	Index	String, case insensitive. Length:1 to 63 characters.	N/A
PeerType	peer Type	Index	Enumeration: • **1**—fqdn • **2**—email • **3**—key-id	N/A
PeerName	peer ID for IKEv2 profile	Index	String: Length:1 to 255 characters.	N/A

IKEv2/ProfileMatchLocalIpAddress

This table contains match local IP address information of IKEv2 profiles.

XML structure

```
<IKEv2>
  <ProfileMatchLocalIpAddress>
    <MatchLocalIpAddress>
      <Profile></Profile>
      <IPType></IPType>
      <Address></Address>
    </MatchLocalIpAddress>
  </ProfileMatchLocalIpAddress>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchLocalIpAddress
Table type	Multi-instance table
Row name	MatchLocalIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IPType	IP address type	Index	Enumeration: • **1**—IPv4 address • **2**—IPv6 address	N/A
Address	IP address of a local interface	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IKEv2/ProfileMatchLocalInterfaces

This table displays match local interfaces information of IKEv2 profiles.

XML structure

```
<IKEv2>
  <ProfileMatchLocalInterfaces>
    <MatchLocalInterface>
      <Profile></Profile>
```

```
      <IfIndex></IfIndex>
    </MatchLocalInterface>
  </ProfileMatchLocalInterfaces>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	ProfileMatchLocalInterfaces
Table type	Multi-instance table
Row name	MatchLocalInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of the IKEv2 profile	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A

IKEv2/Policies

This table contains IKEv2 policy information.

XML structure

```
<IKEv2>
  <Policies>
    <Policy>
      <Name></Name>
      <Priority></Priority>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <MatchVRF>
        <MatchVRFType></MatchVRFType>
        <VRFName></VRFName>
      </MatchVRF>
    </Policy>
  </Policies>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority for the IKEv2 policy	N/A	Unsigned integer. Value range: 1 to 65535	N/A
ProposalList	IKEv2 proposal list for the IKEv2 policy	Data structure	Members include: • ProposalItem	N/A
ProposalItem	IKEv2 proposal	Data structure	String. Length: 1 to 63 characters.	N/A
MatchVRF	VPN instance for IKEv2 policy matching	Data structure	Members include: • MatchVrfType • VRFName	N/A
MatchVrfType	Network type	N/A	Enumeration: • 0—Public. • 1—Any. • 2—Specific VPN instance.	N/A
VRFName	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

IKEv2/PolicyMatchLocalIpAddress

This table contains match local IP address information of IKEv2 policies.

XML structure

```
<IKEv2>
  <PolicyMatchLocalIpAddress>
    <MatchLocalIpAddress>
      <Policy></Policy>
      <IPType></IPType>
```

```
      <IpAddress></IpAddress>
    </MatchLocalIpAddress>
  </PolicyMatchLocalIpAddress>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	PolicyMatchLocalIpAddress
Table type	Multi-instance table
Row name	MatchLocalIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the IKEv2 Policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IPType	IP address type	Index	Enumeration: • **1**—IPv4 address • **2**—IPv6 address	N/A
IpAddress	IP address of a local interface	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

IKEv2/PolicyMatchLocalInterfaces

This table displays match local interface information of IKEv2 policies.

XML structure

```
<IKEv2>
  <PolicyMatchLocalInterfaces>
    <MatchLocalInterface>
      <Policy></Policy>
      <IfIndex></IfIndex>
    </MatchLocalInterface>
  </PolicyMatchLocalInterfaces>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	PolicyMatchLocalInterfaces
Table type	Multi-instance table
Row name	MatchLocalInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the IKEv2 policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index	Index	Unsigned integer	N/A

IKEv2/Proposals

This table contains IKEv2 proposals information.

XML structure

```
<IKEv2>
  <Proposals>
    <Proposal>
      <Name></Name>
      <IntegrityList>
        <IntegrityItem></IntegrityItem>
      </IntegrityList>
      <EncryptionList>
        <EncryptionItem></EncryptionItem>
      </EncryptionList>
      <DhList>
         <DhItem></DhItem>
      </DhList>
      <PrfAlgList>
         <PrfAlgItem></PrfAlgItem>
      </PrfAlgList>
    </Proposal>
  </Proposals>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Proposal
Table type	Multi-instance table
Row name	Proposal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Proposal name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IntegrityList	Integrity protection algorithm list for the IKEv2 proposal.	Data structure	Members include: • IntegrityItem	N/A
IntegrityItem	Integrity protection algorithms	N/A	Unsigned integer	See IKEv2Capabilities table for supported authentication algorithms.
EncryptionList	Encryption algorithm list for the IKEv2 proposal	Data structure	Members include: • EncryptionItem	N/A
EncryptionItem	Encryption algorithms	N/A	Unsigned integer	See IKEv2Capabilities table for supported encryption algorithms.
DhList	DH groups list for the IKEv2 proposal	Data structure	Members include: • DhItem	N/A
DhItem	DH groups	N/A	Unsigned integer	See IKEv2Capabilities table for supported DH groups.
PrfAlgList	PRF algorithm list for the IKEv2 proposal	Data structure	Members include: • PrfAlgItem	N/A
PrfAlgItem	PRF algorithms	N/A	Unsigned integer	See IKEv2Capabilities table for supported PRF algorithms.

IKEv2/Keychains

This table contains IKE keychains information.

XML structure

```
<IKEv2>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Peer></Peer>
      <HostName></HostName>
      <Identity>
        <IdentityType></IdentityType>
        <StringValue></StringValue>
        <LocalIpAddress></LocalIpAddress>
      </Identity>
      <Address>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <Ipv4Mask></Ipv4Mask>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Address>
      <PreSharedKeyLocal>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeyLocal>
      <PreSharedKeyRemote>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeyRemote>
      <PreSharedKeySymmetric>
        <KeyType></KeyType>
        <Key></Key>
      </PreSharedKeySymmetric>
    </Keychain>
  </Keychains>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IKEv2 keychain	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Peer	Name of an IKEv2 peer	Index	String. Length: 1 to 63 characters.	N/A
HostName	Host name for the IKEv2 peer	N/A	String. Length: 1 to 253 characters.	N/A
Identity	ID of the IKEv2 peer	Data structure	Members include: • IdentityType • StringValue • LocalIpAddress • KeyId	N/A
IdentityType	Identity type	N/A	Enumeration: • **1**—Ipv4Address • **2**—Ipv6Address • **3**—email • **4**—fqdn • **5**—key-id	N/A
StringValue	Identity string	N/A	String. Length: 1 to 255 characters.	N/A
LocalIpAddress	IPv4 or IPv6 address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Address	IP address of the IKEv2 peer	Data structure	Members include: • AddressType • IpAddress • Ipv4Mask • Ipv6PrefixLength	N/A
AddressType	IP address type	Data structure	Enumeration: • **1**—IPv4 address • **2**—IPv6 address	N/A
IpAddress	IPv4 or IPv6 address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Ipv4Mask	Mask of the IPv4 address	N/A	Mask: String, dotted decimal notation.	Mask example: 255.255.0.0.
Ipv6PrefixLength	Prefix length of the IPv6 address	N/A	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PreShared KeyLocal	Preshared key for certificate signing	Data structure	Members include: • KeyType • Key	PreSharedKeyLocal and PreSharedKeySymmetric cannot both be configured.
KeyType	Type of the preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A
PreShared KeyRemote	Preshared key for certificate authentication	Data structure	Members include: • KeyType • Key	PreSharedKeyRemote and PreSharedKeySymmetric cannot both be configured.
KeyType	Type of the preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A
PreShared KeySymmetric	Symmetric preshared key for certificate signing	Data structure	Members include: • KeyType • Key	PreSharedKeySymmetric cannot be configured together with PreSharedKeyLocal or PreSharedKeyRemote.
KeyType	Type of the symmetric preshared key	N/A	Enumeration: • **1**—Plaintext • **2**—Ciphertext	N/A
Key	Value of the symmetric preshared key	N/A	String. Length: 1 to 128 characters in plain text or 1 to 201 characters in cipher text.	N/A

IKEv2/IKEv2Capabilities

This table contains information about the algorithms supported by IKEv2.

XML structure

```
<IKEv2>
  <IKEv2Capabilities>
    <IKEv2Capability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <AlgType></AlgType>
```

```
    </IKEv2Capability>
  </IKEv2Capabilities>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	IKEv2Capabilities
Table type	Multi-instance table
Row name	IKEv2Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgType	Algorithm type	N/A	Enumeration: • **1**—Diffie-Hellman group • **2**—Encryption algorithm • **3**—Authentication algorithm	N/A
AlgID	Algorithm ID	Index	Unsigned integer.	N/A
AlgName	Algorithm name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

IKEv2/IKEv2SAs

This table displays IKEv2 SA information.

XML structure

```
<IKEv2>
  <IKEv2SAs>
    <IKEv2SA>
      <ConnectionID></ConnectionID>
      <LocalIP></LocalIP>
      <LocalPort></LocalPort>
      <RemoteIP></RemoteIP>
      <RemotePort></RemotePort>
      <OutsideVRF></OutsideVRF>
      <InsideVRF></InsideVRF>
      <LocalSPI></LocalSPI>
      <RemoteSPI></RemoteSPI>
      <LocalIDType></LocalIDType>
```

```
      <LocalID></LocalID>
      <RemoteIDType></RemoteIDType>
      <RemoteID></RemoteID>
      <AuthSignMethod></AuthSignMethod>
      <AuthVerifyMethod></AuthVerifyMethod>
      <IntegrityAlg></IntegrityAlg>
      <PRFAlg></PRFAlg>
      <EncaryptionAlg></EncaryptionAlg>
      <SADuration></SADuration>
      <RemainingSADuration></RemainingSADuration>
      <DHID></DHID>
      <IsNATTraversal></IsNATTraversal>
      <DPDDetectInterval> </DPDDetectInterval>
      <DPDRetryInterval></DPDRetryInterval>
      <TransmitEntity></TransmitEntity>
      <LocalWindow></LocalWindow>
      <RemoteWindow></RemoteWindow>
      <LocalReqMsgID></LocalReqMsgID>
      <RemoteReqMsgID></RemoteReqMsgID>
      <LocalNextMsgID></LocalNextMsgID>
      <RemoteNextMsgID></RemoteNextMsgID>
      <PushIpAddress></PushIpAddress>
      <AssignedIpAddressList>
        <AssignedIpAddress></AssignedIpAddress>
      </AssignedIpAddressList>
    </IKEv2SA>
  </IKEv2SAs>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	IKEv2SAs
Table type	Multi-instance table
Row name	IKEv2SA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionID	ConnectionID of IKEv2 SA	Index	Unsigned integer.	N/A
LocalIP	IP address of the local security gateway	N/A	IPv4: String, dotted	IPv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv6 example: 1:2:3:4:5:6:7:8.
LocalPort	Port number of the local security gateway	N/A	Unsigned integer.	N/A
RemoteIP	IP address of the remote security gateway	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
RemotePort	Port number of the remote security gateway	N/A	Unsigned integer.	N/A
OutsideVRF	Outbound VRF	N/A	String: Length: 1 to 31 characters Case sensitive.	N/A
InsideVRF	Inbound VRF	N/A	String: Length: 1 to 31 characters Case sensitive.	N/A
LocalSPI	Local SPI	N/A	String: Length: 1 to 8 characters Case sensitive.	N/A
RemoteSPI	Remote SPI	N/A	String: Length: 1 to 8 characters Case sensitive.	N/A
LocalIDType	ID type of the local security gateway	N/A	String: Length: 1 to 33 characters Case sensitive.	N/A
LocalID	ID of the local security gateway	N/A	String: Length: 1 to 256 characters Case sensitive.	N/A
RemoteIDType	ID type of the remote security gateway	N/A	String: Length: 1 to 33 characters Case sensitive.	N/A
RemoteID	ID of the remote security gateway	N/A	String: Length: 1 to 256 characters Case sensitive.	N/A
AuthSignMethod	Signature method that the IKEv2 proposal uses in authentication	N/A	Enumeration: • 1—Pre-shared key • 2—DSA-	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			signature • 3—RSA-signature • 4—ECDSA-signature	
AuthVerifyMethod	Verification method that the IKEv2 proposal uses in authentication	N/A	Enumeration: • 1—Pre-shared key • 2—DSA-signature • 3—RSA-signature • 4—ECDSA-signature	N/A
IntegrityAlg	Integrity protection algorithms that the IKEv2 proposal uses	N/A	Enumeration: • 1—MD5 • 2—SHA1 • 3—SHA256 • 4—SHA384 • 5—SHA512 • 6—AES-XCBC-MAC	N/A
PRFAlg	PRF algorithms that the IKEv2 proposal uses	N/A	Enumeration: • 1—MD5 • 2—SHA1 • 3—SHA256 • 4—SHA384 • 5—SHA512 • 6—AES-XCBC-MAC	N/A
EncaryptionAlg	Encryption algorithms that the IKEv2 proposal uses	N/A	Enumeration: • 1—DES-CBC • 2—3DES-CBC • 3—AES-CBC-128 • 4—AES-CBC-192 • 5—AES-CBC-256 • 6—AES-CTR-128 • 7—AES-CTR-192 • 8—AES-CTR-256	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9—CAMELLIA-CBC-128 • 10—CAMELLIA-CBC-192 • 11—CAMELLIA-CBC-256	
SADuration	IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A
RemainingSADuration	Remaining IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800, in seconds.	N/A
DHID	Diffie-Hellman group ID	N/A	Enumeration: • 2—MODP768/Group1 • 3—MODP1024/Group2 • 4—MODP1536/Group5 • 5—MODP2048/Group14 • 6—ECP256/Group19 • 7—ECP384/Group20 • 8—MODP2048(256 subgroup)/Group24	N/A
IsNATTraversal	UDP encapsulation used for NAT traversal	N/A	Enumeration: • 1—Enabled. • 2—Disabled.	N/A
DPDDetectInterval	DPD detection interval in seconds	N/A	Unsigned integer.	N/A
DPDRetryInterval	DPD retry interval in seconds	N/A	Unsigned integer.	N/A
TransmitEntity	Role of the local end in IKEv2 negotiation	N/A	Enumeration: • 1—Initiator • 2—Responder	N/A
LocalWindow	Local window size	N/A	Unsigned integer.	N/A
RemoteWindow	Remote window size	N/A	Unsigned integer.	N/A
LocalReqMsgID	Local request message ID	N/A	Unsigned integer.	N/A
RemoteReqMsgID	Remote request message ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalNextMsgID	Local next message ID	N/A	Unsigned integer.	N/A
RemoteNextMsgID	Remote next message ID	N/A	Unsigned integer.	N/A
PushIpAddress	Pushed IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8/68.
AssignedIpAddressList	IP address list assigned to the remote end by the local end	Data structure	Members include: AssignedIpAddress	N/A
AssignedIpAddress	IP address assigned to the remote end by the local end	N/A	String. Length: 1 to 63 characters.	N/A

IKEv2/DefaultProposal

This table contains the default information of IKEv2 proposal.

XML structure

```
<IKEv2>
  <DefaultProposal>
    <IntegrityList>
      <IntegrityItem></IntegrityItem>
    </IntegrityList>
    <EncryptionList>
      <EncryptionItem></EncryptionItem>
    </EncryptionList>
    <DhList>
       <DhItem></DhItem>
    </DhList>
    <PrfAlgList>
       <PrfAlgItem></PrfAlgItem>
    </PrfAlgList>
  </ DefaultProposal >
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	DefaultProposal

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IntegrityList	Integrity protection algorithm list for the IKEv2 proposal.	Data structure	Members include: IntegrityItem	N/A
IntegrityItem	Integrity protection algorithms	N/A	• Unsigned integer	See IKEv2Capabilities table for supported authentication algorithms.
EncryptionList	Encryption algorithm list for the IKEv2 proposal	Data structure	Members include: EncryptionItem	N/A
EncryptionItem	Encryption algorithms	N/A	• Unsigned integer	See IKEv2Capabilities table for supported encryption algorithms.
DhList	DH groups list for the IKEv2 proposal	Data structure	Members include: DhItem	N/A
DhItem	DH groups	N/A	• Unsigned integer	See IKEv2Capabilities table for supported DH groups.
PrfAlgList	PRF algorithm list for the IKEv2 proposal	Data structure	Members include: PrfAlgItem	N/A
PrfAlgItem	PRF algorithms	N/A	• Unsigned integer	See IKEv2Capabilities table for supported PRF algorithms.

IKEv2/DefaultPolicy

This table contains the default information of IKEv2 policy.

XML structure

```
<IKEv2>
  <DefaultPolicy>
    <Proposal></Proposal>
    <MatchVRFName></MatchVRFName>
  </DefaultPolicy>
</IKEv2>
```

Table description

Item	Description
Feature name	IKEv2
Table name	DefaultPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Proposal	IKEv2 proposal	Data structure	String. Length: 1 to 63 characters.	N/A
MatchVRF Name	VPN instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

Contents

IKEv2 1
IKEv2/GlobalConf 1
IKEv2/Profiles 1
IKEv2/Policies 1
IKEv2/Keychains 2

IKEv2

IKEv2/GlobalConf

Message	Explanation
CookieChallenge is invalid. CookieChallenge无效。	CookieChallenge is invalid. Please check the CookieChallenge value. CookieChallenge无效。请检查CookieChallenge。
The interval must be larger than the retry. 配置的Intervaly一定要大于Retry。	The Interval value must be larger than the Retry value. Please check column values of DPD group. Interval一定要大于Retry。请检查DPD组各列的值。

IKEv2/Profiles

Message	Explanation
Domain name must not contain / \\ | " : * ? < > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. 域名不允许包含 / \\ | " : * ? < > @，也不允许为 d，de，def，defa，defau，defaul，default，i，if，if-，if-u，if-un，if-unk，if-unkn，if-unkno，if-unknow，if-unknown。	Domain name must not contain / \\ | " : * ? < > @, and must not be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. Please check the domain name. 域名不允许包含 / \\ | " : * ? < > @，也不允许为 d，de，def，defa，defau，defaul，default，i，if，if-，if-u，if-un，if-unk，if-unkn，if-unkno，if-unknow，if-unknown。请检查域名。
Username must not contain \\ | / : * ? < > @, and must not be a, al, all. 用户名不允许包含 \\，|，/，:，*，?，<，>，@，也不允许为a，al，all。	Username must not contain \\ | / : * ? < > @, and must not be a, al, all. Please check the user name. 用户名不允许包含 \\，|，/，:，*，?，<，>，@，也不允许为a，al，all。请检查用户名。
The interval must be larger than the retry. 配置的Intervaly一定要大于Retry。	The Interval value must be larger than the Retry value. Please check column values of DPD group. Interval一定要大于Retry。请检查DPD组各列的值。
Domain name must be coexist with Username. 域名与用户名必须同时存在。	Domain name must be coexist with Username. 域名与用户名必须同时存在。

IKEv2/Policies

Message	Explanation
VRF name does not match the type. VRF名与其类型不匹配。	VRF name does not match the type. Please check the name and type of the VRF. VRF名与其类型不匹配。请检查VRF名与其类型。

IKEv2/Keychains

Message	Explanation
Cannot contain an IPv4 mask when the IP address type is IPv6. 地址类型为IPv6时不能含有IPv4掩码标签。	Cannot contain an IPv4 mask tag when the IP address type is IPv6. 地址类型为IPv6时不能含有IPv4掩码标签。
Cannot contain an IPv6 prefix length when the IP address type is IPv4. 地址类型为IPv4时不能含有IPv6掩码标签。	Cannot contain an IPv6 prefix length tag when the IP address type is IPv4. 地址类型为IPv4时不能含有IPv6掩码标签。
PreSharedKeySymmetric cannot coexist with PreSharedKeyLocal or PreSharedKeyRemote. PSK的KEY类型Symmetric不能与Local或Remote同时存在。	PreSharedKeySymmetric cannot coexist with PreSharedKeyLocal or PreSharedKeyRemote. PSK的KEY类型Symmetric不能与Local或Remote同时存在。
LocalIpAddress cannot coexist with StringValue. 地址类型与其他字符串类型不能同时存在。	LocalIpAddress cannot coexist with StringValue. IP地址类型与其他字符串类型不能同时存在。
Invalid ciphertext key string. PSK密文输入不合法。	The ciphertext key string is invalid. PSK密文输入不合法。

Contents

INOF 1
INOF/Configuration 1
XML structure 1
Table description 1
Columns 1
INOF/Zones 2
XML structure 2
Table description 2
Columns 2
INOF/Zones/Zone 2
XML structure 2
Table description 3
Columns 3
INOF/Zones/Zone/Hosts 3
XML structure 3
Table description 3
Columns 3
INOF/Zones/Zone/Hosts/Host 4
XML structure 4
Table description 4
Columns 4

INOF

INOF/Configuration

This table contains iNOF configuration information.

XML structure

```
<INOF>
  <Configuration>
    <State></State>
    <DefaultZone></DefaultZone>
    <HardZoning></HardZoning>
  </Configuration>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the iNOF service	N/A	Enumeration: • **enable**—The iNOF service is enabled. • **disable**—The iNOF service is disabled.	N/A
DefaultZone	Status of the default-zoning	N/A	Enumeration: • **enable** • **disable**	N/A
HardZoning	Status of the hard-zoning	N/A	Enumeration: • **enable** • **disable**	N/A

INOF/Zones

This table contains iNOF zones information.

XML structure

```
<INOF>
  <Zones>
    <Zone>
      <Name></Name>
      <Hosts>
        <Host>
          <IPAddress></IPAddress>
        </Host>
      </Hosts>
    </Zone>
  </Zones>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Zones
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Zone	Zone table	Multi-instance table	N/A	For more information, see the Zone table.

INOF/Zones/Zone

This table contains iNOF zone information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Zone
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of zone	Index	String. Length: 1 to 31 characters	Except the default zone.
Hosts	Host information	Sublist	N/A	For more information, see the Hosts table.

INOF/Zones/Zone/Hosts

This table contains iNOF host information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Hosts
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	Host table	Multi-instance table	N/A	For more information, see the Host table.

INOF/Zones/Zone/Hosts/Host

This table contains iNOF host information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Host
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of zone	Index	String. Length: 1 to 31 characters	Except default zone.
IPAddress	Host IP for zone configuration	Index	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Contents

INOF 1
INOF/Configuration 1
XML structure 1
Table description 1
Columns 1
INOF/Hosts 2
XML structure 2
Table description 2
Columns 2
INOF/State 3
XML structure 3
Table description 3
Columns 3
INOF/Zones 3
XML structure 4
Table description 4
Columns 4
INOF/Zones/Zone 4
XML structure 4
Table description 5
Columns 5
INOF/Zones/Zone/Hosts 5
XML structure 5
Table description 5
Columns 5
INOF/Zones/Zone/Hosts/Host 6
XML structure 6
Table description 6
Columns 6
INOF/Reflectors 7
XML structure 7
Table description 7
Columns 7

INOF

INOF/Configuration

This table contains inof configuration information.

XML structure

```
<INOF>
  <Configuration>
    <State></State>
    <DefaultZone></DefaultZone>
    <HardZoning></HardZoning>
  </Configuration>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the iNOF service	N/A	Enumeration: • **enable**—The iNOF service is enabled. • **disable**—The iNOF service is disabled.	Unable to get data when the status of the iNOF service is disable.
DefaultZone	Status of the default-zoning	N/A	Enumeration: • **enable** • **disable**	N/A
HardZoning	Status of the hard-zoning	N/A	Enumeration: • **enable** • **disable**	N/A

INOF/Hosts

This table contains basic host information.

XML structure

```
<INOF>
  <Hosts>
    <Host>
      <HostIPAddress></HostIPAddress>
      <Type></Type>
      <AccessDevice></AccessDevice>
      <AccessInterface></AccessInterface>
      <HardZoning></HardZoning>
    </Host>
  </Hosts>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Hosts
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostIPAddress	Host IP information.	Index	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Type	Access type	N/A	Enumeration: • **Local** • **Remote**	N/A
AccessDevice	Interface IP information.	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
AccessInterface	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Example: GigabitEthernet2/0/2	
HardZoning	Status of the hard-zoning	N/A	Enumeration: • **0**— -- • **1**—**Normal** • **2**—**Abnormal**	N/A

INOF/State

This table contains inof state information.

XML structure

```
<INOF>
  <State>
    <Role></Role>
  </State>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	State
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Role of device	N/A	Enumeration: • **Reflector** • **Reflect-client** • **Standalone**	N/A

INOF/Zones

This table contains inof zones information.

XML structure

```
<INOF>
  <Zones>
    <Zone>
      <Name></Name>
        <Hosts>
          <Host>
            <IPAddress></IPAddress>
            <LearnedIPAddress></LearnedIPAddress>
          </Host>
      </Hosts>
    </Zone>
  </Zones>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Zones
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Zone	Zone table	Multi-instance table	N/A	For more information, see the Zone table.

INOF/Zones/Zone

This table contains iNOF zone information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Zone
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of zone	Index	String. Length: 1 to 31 characters	N/A
Hosts	Host information	Sublist	N/A	For more information, see the Hosts table.

INOF/Zones/Zone/Hosts

This table contains iNOF host information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Hosts
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	Host table	Multi-instance table	N/A	For more information, see the Host table.

INOF/Zones/Zone/Hosts/Host

This table contains iNOF host information.

XML structure

Please refer to the XML structure of INOF/Zones.

Table description

Item	Description
Feature name	INOF
Table name	Host
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of zone	Index	String. Length: 1 to 31 characters	N/A
IPAddress	Host IP for zone configuration	Index	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
LearnedIPAddress	Zone configuration device IP	N/A	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated. • Local	IPv4 example: 1.1.1.1. IPv6 not supported at the moment.

INOF/Reflectors

This table contains inof reflectors information.

XML structure

```
<INOF>
  <Reflectors>
    <Reflector>
      <IPAddress></IPAddress>
      <DefaultZone></DefaultZone>
      <HardZoning></HardZoning>
    </Reflector>
  </Reflectors>
</INOF>
```

Table description

Item	Description
Feature name	INOF
Table name	Reflectors
Table type	Multi-instance table
Row name	Reflector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	Reflector device IP	Index	Union: • IPv4: String, dotted decimal notation. • IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 not supported at the moment.
DefaultZone	Status of the default-zoning	N/A	Enumeration: • **enable** • **disable**	N/A
HardZoning	Status of the hard-zoning	N/A	Enumeration: • **enable** • **disable**	N/A

Contents

INOF 1
INOF/Configuration 1
INOF/Zones 1

INOF

INOF/Configuration

Message	Explanation
INOF is not configured. INOF服务未使能。	INOF is not configured. INOF 服务未使能。
This configuration is supported by only iNOF reflectors and devices in standalone mode. 只有反射器和独立设备可以进行该配置。	This configuration is supported by only iNOF reflectors and devices in standalone mode. 只有反射器和独立设备可以进行该配置。
Please install the license for the iNOF feature first. 请先安装iNOF功能的许可证。	Please install the license for the iNOF feature first. 请先安装iNOF功能的许可证。

INOF/Zones

Message	Explanation
INOF is not configured. INOF服务未使能。	INOF is not configured. INOF 服务未使能。
This configuration is supported by only iNOF reflectors and devices in standalone mode. 只有反射器和独立设备可以进行该配置。	This configuration is supported by only iNOF reflectors and devices in standalone mode. 只有反射器和独立设备可以进行该配置。
IPv4 address %s is invalid. IPv4地址 %s 不合法。	IPv4 address %s is invalid. IPv4 地址 %s 不合法。
The zone number have reached limit. 自定义域数量达到限制。	The zone number have reached limit. 自定义域数量达到限制。
The host number have reached limit. 自定义域内主机数量达到限制。	The host number have reached limit. 自定义域内主机数量达到限制。
IPv6 address %s is invalid. IPv6地址 %s 不合法。	IPv6 address %s is invalid. IPv6 地址 %s 不合法。

Contents

INQA 1

INQA/Collector 1
- XML structure 1
- Table description 1
- Columns 2

INQA/Collector/StartDetects 2
- XML structure 2
- Table description 2
- Columns 2

INQA/Collector/StartDetect 2
- XML structure 3
- Table description 3
- Columns 3

INQA/Collector/StopDetects 3
- XML structure 3
- Table description 3
- Columns 4

INQA/Collector/StopDetect 4
- XML structure 4
- Table description 4
- Columns 4

INQA/Collector/StartDelayDetects 4
- XML structure 4
- Table description 5
- Columns 5

INQA/Collector/StartDelayDetect 5
- XML structure 5
- Table description 5
- Columns 5

INQA/Collector/StopDelayDetects 6
- XML structure 6
- Table description 6
- Columns 6

INQA/Collector/StopDelayDetect 6
- XML structure 6
- Table description 7
- Columns 7

INQA

INQA/Collector

This table is used to enable or disable the on-demand packet loss measurement of the collector instance.

XML structure

```
<INQA>
  <Collector>
    <StartDetects>
      <StartDetect>
        <InstanceID></InstanceID>
        <TestPeriod></TestPeriod>
      </StartDetect>
    </StartDetects>
    <StopDetects>
      <StopDetect>
        <InstanceID></InstanceID>
      </StopDetect>
    </StopDetects>
    <StartDelayDetects>
      <StartDelayDetect>
        <InstanceID></InstanceID>
        <TestPeriod></TestPeriod>
       </StartDelayDetect>
    </StartDelayDetects>
    <StopDelayDetects>
      <StopDelayDetect>
        <InstanceID></InstanceID>
      </StopDelayDetect>
    </StopDelayDetects>
  </Collector>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Collector
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDetects	Start the packet loss measurement	Subtable	N/A	N/A
StopDetects	Stop the packet loss measurement	Subtable	N/A	N/A
StartDelayDetects	Start the packet delay measurement	Subtable	N/A	N/A
StopDelayDetects	Stop the packet delay measurement	Subtable	N/A	N/A

INQA/Collector/StartDetects

This table is used to enable the on-demand packet loss measurement of the collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StartDetects
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDetect	Enable packet loss measurement	Sublist	N/A	N/A

INQA/Collector/StartDetect

This table is used to enable the on-demand packet loss measurement of the collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StartDetect
Table type	Muilt-instance table
Row name	StartDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Collector instance ID	index	Unsigned integer. Value range:1 to 8355838.	N/A
TestPeriod	Runnng time of the instance, in minutes	N/A	Enumeration • 5 • 10 • 15 • 30	

INQA/Collector/StopDetects

This table is used to disable the on-demand packet loss measurement of the Collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StopDetects
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StopDetect	Stop the packet loss measurement	Sublist	N/A	N/A

INQA/Collector/StopDetect

This table is used to disable the on-demand packet loss function of the collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StopDetects
Table type	Muilt-instance table
Row name	StopDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Collector instance ID	Index	Unsigned integer. Value range:1 to 8355838.	N/A

INQA/Collector/StartDelayDetects

This table is used to enable the on-demand packet delay measurement of the collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StartDelayDetects
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDelayDetect	Enable packet delay measurement	Sublist	N/A	N/A

INQA/Collector/StartDelayDetect

This table is used to enable the on-demand packet delay measurement of the collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StartDelayDetect
Table type	Muilt-instance table
Row name	StartDelayDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Collector instance ID	index	Unsigned integer. Value range:1 to 8355838.	N/A
TestPeriod	Runnng time of the	N/A	Enumeration	

Column name	Column description	Column type	Data type and restrictions	Remarks
	instance, in minutes		• 5 • 10 • 15 • 30	

INQA/Collector/StopDelayDetects

This table is used to disable the on-demand packet delay measurement of the Collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StopDelayDetects
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StopDelayDetect	Stop the packet delay measurement	Sublist	N/A	N/A

INQA/Collector/StopDelayDetect

This table is used to disable the on-demand packet delay function of the collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	StopDelayDetects
Table type	Muilt-instance table
Row name	StopDelayDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Collector instance ID	Index	Unsigned integer. Value range:1 to 8355838.	N/A

Contents

INQA 1

INQA/Analyzer 1
- XML structure 1
- Table description 2
- Columns 2

INQA/Analyzer/Global 2
- XML structure 2
- Table description 2
- Columns 3

INQA/Analyzer/Instances 3
- XML structure 3
- Table description 3
- Columns 3

INQA/Analyzer/Instances/Collectors 4
- XML structure 4
- Table description 4
- Columns 5

INQA/Analyzer/Instances/LossThreshold 5
- XML structure 5
- Table description 5
- Columns 5

INQA/Analyzer/Instances/DelayThreshold 6
- XML structure 6
- Table description 6
- Columns 6

INQA/Analyzer/Instances/Amses 6
- XML structure 6
- Table description 7
- Columns 7

INQA/Analyzer/Instances/Amses/InGroups 7
- XML structure 7
- Table description 7
- Columns 8

INQA/Analyzer/Instances/Amses/OutGroups 8
- XML structure 8
- Table description 8
- Columns 8

INQA/Collector 9
- XML structure 9
- Table description 10
- Columns 11

INQA/Collector/Global 11
- XML structure 11
- Table description 11
- Columns 11

INQA/Collector/Global/Analyzer 12
- XML structure 12
- Table description 12
- Columns 12

INQA/Collector/Global/AddiAnalyzers 12
- XML structure 12
- Table description 13
- Columns 13

INQA/Collector/Global/AddiAnalyzers/AddiAnalyzer 13
- XML structure 13
- Table description 13
- Columns 14

INQA/Collector/Global/ColorFlag ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
INQA/Collector/Global/DelayColorFlag ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
INQA/Collector/Instances ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 16
INQA/Collector/Instances/Instance ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 16
INQA/Collector/Instances/Analyzer ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
INQA/Collector/Instances/AddiAnalyzers ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
INQA/Collector/Instances/AddiAnalyzers/AddiAnalyzer ····· 18
XML structure ····· 18
Table description ····· 19
Columns ····· 19
INQA/Collector/Instances/Flows ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
INQA/Collector/Instances/Flows/Flow ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
INQA/Collector/Instances/Mps ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 22
INQA/Collector/Instances/Mps/Mp ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
INQA/Interfaces ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
INQA/Interfaces/Interface ····· 23
XML structure ····· 23
Table description ····· 24
Columns ····· 24

INQA

INQA/Analyzer

This table contains iNQA analyzer configuration information.

XML structure

```
<INQA>
  <Analyzer>
    <Global>
      <AnalyzerID></AnalyzerID>
      <UdpPort></UdpPort>
    </Global>
    <Instances>
      <Instance>
        <InstanceID></InstanceID>
        <Enable></Enable>
        <Description></Description>
        <Collectors>
          <Collector>
            <CollectorID></CollectorID>
          </Collector>
        </Collectors>
        <LossThreshold>
          <UpperLimit></UpperLimit>
          <LowLimit></LowLimit>
        </LossThreshold>
        <DelayThreshold>
          <UpperLimit></UpperLimit>
          <LowLimit></LowLimit>
          <UpperLimitUs></UpperLimitUs>
          <LowLimitUs></LowLimitUs>
        </DelayThreshold>
        <Amses>
          <Ams>
            <AmsID></AmsID>
            <DelayMeasure></DelayMeasure>
            <FlowDir></FlowDir>
            <InGroups>
              <InGroup>
                <CollectorID></CollectorID>
                <MpID></MpID>
              </InGroup>
            </InGroups>
            <OutGroups>
```

```
            <OutGroup>
              <CollectorID></CollectorID>
              <MpID></MpID>
            </OutGroup>
          </OutGroups>
        </Ams>
      </Amses>
    </Instance>
  </Instances>
 </Analyzer>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Global	Global table of Analyzer	Subtable	N/A	N/A
Instances	Instances of Analyzer	Sublist	N/A	N/A

INQA/Analyzer/Global

This table contains global analyzer information.

XML structure

Please refer to the XML structure of INQA/Analyzer/Global.

Table description

Item	Description
Feature name	INQA

Item	Description
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID for packet loss measurement	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
UdpPort	UDP port for the analyzer to communicate with collectors	N/A	Unsigned integer. Value range: 1024 to 65535.	default：53312

INQA/Analyzer/Instances

This table contains information about analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances.

Table description

Item	Description
Feature name	INQA
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 8355838.	
Enable	Enablling status of the instance statistics	N/A	Boolean: • true • false(default)	N/A
Description	Description of the instances	N/A	String. Length: 1 to 64 characters.	N/A
Collectors	Collectors of the analyzer instances	Sublist	N/A	N/A
LossThreshold	Packet loss thresholds of the analyzer instances	Subtable	N/A	N/A
DelayThreshold	Packet delay thresholds of the analyzer instances	Subtable	N/A	N/A
Amses	AMS of the analyzer instances	Sublist	N/A	N/A

INQA/Analyzer/Instances/Collectors

This table contains collectors of the analyzer instance.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Collectors.

Table description

Item	Description
Feature name	INQA
Table name	Collectors
Table type	Multi-instance table
Row name	Collector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for packet loss measurement	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. When this CollectorID is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.

INQA/Analyzer/Instances/LossThreshold

This table contains the packet loss alarm parameters of the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/LossThreshold.

Table description

Item	Description
Feature name	INQA
Table name	LossThreshold
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperLimit	Upper limit of the packet loss rate	N/A	String. Length: 1 to 10 characters. Value range: 0.000001~100. Unit: Percentage.	Both must be bound
LowLimit	Threshold is crossed if the packet loss rate drops below it	N/A	String. Length: 1 to 10 characters. Value range: 0.000001~100. Unit: Percentage.	Both must be bound

INQA/Analyzer/Instances/DelayThreshold

This table contains the packet delay alarm parameters of the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/DelayThreshold.

Table description

Item	Description
Feature name	INQA
Table name	DelayThreshold
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperLimit	Upper limit of the packet delay	N/A	Unsigned integer. Value range: 0 to 3600000. Unit: Millisecond.	Both must be bound
LowLimit	Threshold is crossed if the packet delay drops below it	N/A	Unsigned integer. Value range: 0 to 3600000. Unit: Millisecond.	Both must be bound
UpperLimitUs	Upper limit of the packet delay in microseconds	N/A	Unsigned integer. Value range: 0 to 3600000000. Unit: Microsecond.	Optional configuration.
LowLimitUs	Lower limit of the packet delay in microseconds	N/A	Unsigned integer. Value range: 0 to 3600000000. Unit: Microsecond.	Optional configuration.

INQA/Analyzer/Instances/Amses

This table contains AMS of the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses.

Table description

Item	Description
Feature name	INQA
Table name	Amses
Table type	Multi-instance table
Row name	Amse
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AmsID	AMS ID	Index	Unsigned integer. Value range: 1 to 2147483647.	N/A
DelayMeasure	Flag of delay measurement	N/A	Enumeration: • oneway • twoway	N/A
FlowDir	Measured flows	N/A	Enumeration: • forward • backward • bidirection	N/A
InGroups	Ingress measurement point group	Sublist	N/A	N/A
OutGroups	Egress measurement point group	Sublist	N/A	N/A

INQA/Analyzer/Instances/Amses/InGroups

This table contains ingroup group of AMS for the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses/InGroups.

Table description

Item	Description
Feature name	INQA
Table name	InGroups

Item	Description
Table type	Multi-instance table
Row name	InGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for packet loss measurement	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. When the CollectorID in the instance is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.
MpID	Measurement point	Index	Unsigned integer. Value range: 1 to 16777215.	Must be bound CollectorID

INQA/Analyzer/Instances/Amses/OutGroups

This table contains ingroup group of AMS for the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses/ OutGroups.

Table description

Item	Description
Feature name	INQA
Table name	OutGroups
Table type	Multi-instance table
Row name	OutGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for	Index	IPv4: String, dotted decimal	IPv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet loss measurement		notation.	When the CollectorID in the instance is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.
MpID	Measurement point	Index	Unsigned integer. Value range: 1 to 16777215.	Must be bound CollectorID

INQA/Collector

This table contains INQA collector information.

XML structure

```
<INQA>
  <Collector>
    <Global>
      <CollectorID></CollectorID>
      <Analyzer>
        <AnalyzerID></AnalyzerID>
        <UdpPort></UdpPort>
        <VpnName></VpnName>
      </Analyzer>
      <AddiAnalyzers>
        <AddiAnalyzer>
          <AnalyzerID></AnalyzerID>
          <UdpPort></UdpPort>
          <VpnName></VpnName>
        </AddiAnalyzer>
      </AddiAnalyzers>
      <ColorFlag>
        <ColorBit></ColorBit>
        <ColorField></ColorField>
      </ColorFlag>
      <DelayColorFlag>
      <ColorBit></ColorBit>
      <ColorField></ColorField>
      </DelayColorFlag>
    </Global>
    <Instances>
      <Instance>
        <InstanceID></InstanceID>
        <Enable></Enable>
        <DelayMeasureEnable></DelayMeasureEnable>
        <Description></Description>
        <Interval></Interval>
```

```
        <Analyzer>
          <AnalyzerID></AnalyzerID>
          <UdpPort></UdpPort>
          <VpnName></VpnName>
        </Analyzer>
        <AddiAnalyzers>
          <AddiAnalyzer>
            <AnalyzerID></AnalyzerID>
            <UdpPort></UdpPort>
            <VpnName></VpnName>
          </AddiAnalyzer>
        </AddiAnalyzers>
        <Flows>
          <Flow>
            <FlowDir></FlowDir>
            <AddressFamily></AddressFamily>
            <Dscp></Dscp>
            <SourceIP></SourceIP>
            <SourceIPMask></SourceIPMask>
            <DestinationIP></DestinationIP>
            <DestinationIPMask></DestinationIPMask>
            <ProtocolNum></ProtocolNum>
            <BeginSrcPortNum></BeginSrcPortNum>
            <EndSrcPortNum></EndSrcPortNum>
            <BeginDestPortNum></BeginDestPortNum>
            <EndDestPortNum></EndDestPortNum>
            <VxlanMatch></VxlanMatch>
          </Flow>
        </Flows>
        <Mps>
          <Mp>
            <MpID></MpID>
            <ColorType></ColorType>
            <PortDir></PortDir>
          </Mp>
        </Mps>
      </Instance>
    </Instances>
  </Collector>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Collector
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Global	Basic collector information	Subtable	N/A	N/A
Instances	Configure a collector instance	Subtable	N/A	N/A

INQA/Collector/Global

This table contains basic information about an INQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
Analyzer	INQA analyzer	Subtable	N/A	N/A
ColorFlag	Flag bit for a monitored metric	Subtable	N/A	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DelayColorFlag	Flag bit for a monitored metric	Subtable	N/A	N/A

INQA/Collector/Global/Analyzer

This table contains information about an INQA analyzer that is associated with an INQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	N/A	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	N/A	Unsigned integer. Value range: 1024 to 65535. Default: 53312.	N/A
VpnName	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A

INQA/Collector/Global/AddiAnalyzers

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	AddiAnalyzers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddiAnalyzer	additional iNQA analyzer	Sublist	N/A	N/A

INQA/Collector/Global/AddiAnalyzers/AddiAnalyzer

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	AddiAnalyzer
Table type	Multi -instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	Index	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	Index	Unsigned integer. Value range: 1024 to 65535.	N/A
VpnName	VPN instance	Index	String. Length: 1 to 31 characters.	An empty string indicates the public network.

INQA/Collector/Global/ColorFlag

This table contains INQA collector color flag information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	ColorFlag
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColorBit	A TOS bit to flag packet loss measurement	N/A	Unsigned integer. Value range: 5 to 7.	N/A
ColorField	Bit position	N/A	Enumeration String: • IPTOS	N/A

INQA/Collector/Global/DelayColorFlag

This table contains INQA collector color flag information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	DelayColorFlag
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColorBit	A TOS bit to flag packet loss measurement	N/A	Unsigned integer. Value range: 5 to 7.	N/A
ColorField	Bit position	N/A	Enumeration String: • IPTOS	N/A

INQA/Collector/Instances

This table contains information about INQA collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instances
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Instance	Instance information	Sublist	N/A	N/A

INQA/Collector/Instances/Instance

This table contains information about an INQA collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instance
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 8355838.	N/A
Enable	Enabling status of the continual for the Collector instance	N/A	Boolean: • true—Enable. • false—Disable.(Default)	N/A
DelayMeasureEnable	Enabling status of the continual for the Collector	N/A	Boolean: • true—Enable. • false—Disable.(Default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	instance			
Description	Instance description	N/A	String. Length: 1 to 64 characters.	N/A
Interval	Statistical interval	N/A	Enumeration: • 10(Default) • 60 • 600	Unit is seconds.
Analyzer	Analyzer for packet loss measurement	Subtable	N/A	N/A
Flows	Measured flows	Subtable	N/A	N/A
Mps	Measurement point	Subtable	N/A	N/A

INQA/Collector/Instances/Analyzer

This table contains information about an INQA analyzer that is associated with an INQA collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate	N/A	Unsigned integer. Value range: 1024 to 65535. Default: 53312.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	with the analyzer			
VpnName	VPN instance	N/A	String. Length: 1 to 31 characters	N/A

INQA/Collector/Instances/AddiAnalyzers

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector inastance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	AddiAnalyzers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddiAnalyzer	additional iNQA analyzer	Sublist	N/A	N/A

INQA/Collector/Instances/AddiAnalyzers/AddiAnalyzer

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector inastance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instance
Table type	Multi -instance table
Row name	AddiAnalyzer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	Index	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	Index	Unsigned integer. Value range: 1024 to 65535.	N/A
VpnName	VPN instance	Index	String. Length: 1 to 31 characters.	An empty string indicates the public network.

INQA/Collector/Instances/Flows

This table contains information about measured flows.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Flows
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Flow	Flow information	Sublist	N/A	N/A

INQA/Collector/Instances/Flows/Flow

This table contains measured flow information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Flow
Table type	Multi-instance table
Row name	Flow
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowDir	Flow direction	Index	Enumeration string: • forward. • backward. • bidirection.	N/A
AddressFamily	Address family	N/A	Enumeration String: • IPv4. • IPv6	When the SourceIP or DestinationIP protocol changes, the value will also change.
Dscp	DSCP of the flow	N/A	Unsigned integer. Value range: 0 to 63.	N/A
SourceIP	Source IP address of the flow	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. Only IP unicast addresses can be configured.
SourceIPMask	Source mask length of the flow	N/A	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestinationIP	Destination IP address of the flow	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. Only IP unicast addresses can be configured.
DestinationIP Mask	Destination mask length of the flow	N/A	Unsigned integer. Value range: 1 to 128.	N/A
ProtocolNum	Protocol number	N/A	Unsigned integer. Value range: 0 to 255. 6 and 17 represent TCP and UDP.	N/A
BeginSrcPort Num	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginSrcPortNum must be smaller than EndSrcPortNum.
EndSrcPortN um	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginSrcPortNum must be smaller than EndSrcPortNum.
BeginDestPor tNum	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginDestPortNum must be smaller than EndDestPortNum.
EndDestPort Num	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginDestPortNum must be smaller than EndDestPortNum.
VxlanMatch	Vxlan match	N/A	Enumeration String: • overlay. • Transmit • hybrid	N/A

INQA/Collector/Instances/Mps

This table contains measurement points information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Mps
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mp	Measurement point information	Sublist	N/A	N/A

INQA/Collector/Instances/Mps/Mp

This table contains measurement point information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Mp
Table type	Multi-instance table
Row name	Mp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MpID	Measurement point ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
ColorType	Color type	N/A	Enumeration String: • in-point. • out-point. • mid-point.	N/A
PortDir	Port direction	N/A	Enumeration String: • inbound. • outbound.	N/A

INQA/Interfaces

This table contains analyzer interfaces information.

XML structure

```
<INQA>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <MpID></MpID>
    </Interface>
  </Interfaces>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface information	Sublist	N/A	N/A

INQA/Interfaces/Interface

This table contains analyzer interface information.

XML structure

Please refer to the XML structure of INQA/Interfaces.

Table description

Item	Description
Feature name	INQA
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface name	Index	String. Length: 1 to 31 characters.	N/A
MpID	Measurement point	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A

Contents

INQA 1

INQA/Analyzer 1
- XML structure 1
- Table description 2
- Columns 2

INQA/Analyzer/Global 2
- XML structure 2
- Table description 2
- Columns 3

INQA/Analyzer/Instances 3
- XML structure 3
- Table description 3
- Columns 3

INQA/Analyzer/Instances/Collectors 4
- XML structure 4
- Table description 4
- Columns 4

INQA/Analyzer/Instances/LossThreshold 4
- XML structure 5
- Table description 5
- Columns 5

INQA/Analyzer/Instances/Amses 5
- XML structure 5
- Table description 5
- Columns 6

INQA/Analyzer/Instances/Amses/InGroups 6
- XML structure 6
- Table description 6
- Columns 6

INQA/Analyzer/Instances/Amses/OutGroups 7
- XML structure 7
- Table description 7
- Columns 7

INQA/Statisticses 7
- XML structure 7
- Table description 9
- Columns 9

INQA/Statisticses/Losses 9
- XML structure 9
- Table description 9
- Columns 10

INQA/Statisticses/Amses 11
- XML structure 11
- Table description 11
- Columns 11

INQA/Statisticses/Amses/Losses 11
- XML structure 11
- Table description 12
- Columns 12

INQA/Collector 13
- XML structure 13
- Table description 15
- Columns 15

INQA/Collector/Global 15
- XML structure 15
- Table description 15
- Columns 15

INQA/Collector/Global/Analyzer 16
XML structure 16
Table description 16
Columns 16
INQA/Collector/Global/AddiAnalyzers 16
XML structure 17
Table description 17
Columns 17
INQA/Collector/Global/AddiAnalyzers/AddiAnalyzer 17
XML structure 17
Table description 17
Columns 18
INQA/Collector/Global/ColorFlag 18
XML structure 18
Table description 18
Columns 18
INQA/Collector/Instances 18
XML structure 19
Table description 19
Columns 19
INQA/Collector/Instances/Instance 19
XML structure 19
Table description 19
Columns 20
INQA/Collector/Instances/Analyzer 20
XML structure 20
Table description 20
INQA/Collector/Instances/AddiAnalyzers 21
XML structure 21
Table description 21
Columns 21
INQA/Collector/Instances/AddiAnalyzers/AddiAnalyzer 21
XML structure 21
Table description 21
Columns 22
INQA/Collector/Instances/Flows 22
XML structure 22
Table description 22
Columns 22
INQA/Collector/Instances/Flows/Flow 23
XML structure 23
Table description 23
Columns 23
INQA/Collector/Instances/Mps 24
XML structure 24
Table description 24
Columns 24
INQA/Collector/Instances/Mps/Mp 25
XML structure 25
Table description 25
Columns 25
INQA/Interfaces 25
XML structure 25
Table description 26
Columns 26
INQA/Interfaces/Interface 26
XML structure 26
Table description 26
Columns 27

INQA

INQA/Analyzer

This table contains iNQA analyzer configuration information.

XML structure

```
<INQA>
  <Analyzer>
    <Global>
      <AnalyzerID></AnalyzerID>
      <UdpPort></UdpPort>
    </Global>
    <Instances>
      <Instance>
        <InstanceID></InstanceID>
        <Enable></Enable>
        <Description></Description>
        <Collectors>
          <Collector>
            <CollectorID></CollectorID>
          </Collector>
        </Collectors>
        <LossThreshold>
          <UpperLimit></UpperLimit>
          <LowLimit></LowLimit>
        </LossThreshold>
        <Amses>
          <Ams>
            <AmsID></AmsID>
            <FlowDir></FlowDir>
            <InGroups>
              <InGroup>
                <CollectorID></CollectorID>
                <MpID></MpID>
              </InGroup>
            </InGroups>
            <OutGroups>
              <OutGroup>
                <CollectorID></CollectorID>
                <MpID></MpID>
              </OutGroup>
            </OutGroups>
          </Ams>
        </Amses>
```

```
      </Instance>
    </Instances>
  </Analyzer>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Global	Global table of the analyzer	subtable	N/A	N/A
Instances	Analyzer instances	sublist	N/A	N/A

INQA/Analyzer/Global

This table contains global analyzer information.

XML structure

Please refer to the XML structure of INQA/Analyzer/Global.

Table description

Item	Description
Feature name	INQA
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID for packet loss measurement	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
UdpPort	UDP port for the analyzer to communicate with collectors	N/A	Unsigned integer. Value range: 1024 to 65535. default: 53312	N/A

INQA/Analyzer/Instances

This table contains information about analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances.

Table description

Item	Description
Feature name	INQA
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 8355838.	N/A
Enable	Enablling status of the instance statistics	N/A	Boolean: • true • false(default)	N/A
Description	Description of the instance	N/A	String. Length: 1 to 64 characters.	N/A
Collectors	Collectors of the analyzer Instance	Sublist	N/A	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LossThreshold	Packet loss thresholds of the analyzer instances	Subtable	N/A	N/A
Amses	AMS of the analyzer instances	Sublist	N/A	N/A

INQA/Analyzer/Instances/Collectors

This table contains collectors of the analyzer instance.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Collectors.

Table description

Item	Description
Feature name	INQA
Table name	Collectors
Table type	Multi-instance table
Row name	Collector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for packet loss measurement	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. When this CollectorID is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.

INQA/Analyzer/Instances/LossThreshold

This table contains the packet loss alarm parameters of the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/LossThreshold.

Table description

Item	Description
Feature name	INQA
Table name	LossThreshold
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperLimit	Upper limit of the packet loss rate	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	Both must be bound
LowLimit	Lower limit of the packet loss rate	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	Both must be bound

INQA/Analyzer/Instances/Amses

This table contains AMS of the analyzer instances..

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses.

Table description

Item	Description
Feature name	INQA
Table name	Amses
Table type	Multi-instance table
Row name	Ams
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AmsID	AMS ID	Index	Unsigned integer. Value range: 1 to 2147483647.	N/A
FlowDir	Measured flows	N/A	Enumeration: • forward • backward • bidirection	N/A
InGroups	Ingress measurement point group	Sublist	N/A	N/A
OutGroups	Egress measurement point group	Sublist	N/A	N/A

INQA/Analyzer/Instances/Amses/InGroups

This table contains ingroup group of AMS for the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses/InGroups.

Table description

Item	Description
Feature name	INQA
Table name	InGroups
Table type	Multi-instance table
Row name	InGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for packet loss measurement	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. When the CollectorID in the instance is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.

Column name	Column description	Column type	Data type and restrictions	Remarks
MpID	Measurement point	Index	Unsigned integer. Value range: 1 to 16777215.	Must be bound CollectorID

INQA/Analyzer/Instances/Amses/OutGroups

This table contains ingroup group of AMS for the analyzer instances.

XML structure

Please refer to the XML structure of INQA/Analyzer/Instances/Amses/ OutGroups.

Table description

Item	Description
Feature name	INQA
Table name	OutGroups
Table type	Multi-instance table
Row name	OutGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID for packet loss measurement	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. When the CollectorID in the instance is deleted, the same CollectorID in the ingroup and outgroup of the AMS is also deleted.
MpID	Measurement point	Index	Unsigned integer. Value range: 1 to 16777215.	Must be bound CollectorID

INQA/Statisticses

This table contains statistics information.

XML structure

```
<INQA>
  <Statisticses>
    <Statistics>
```

```
<InstanceID></InstanceID>
<Losses>
  <Loss>
    <Period></Period>
    <ForwardInPointPktStat></ForwardInPointPktStat>
    <ForwardOutPointPktStat></ForwardOutPointPktStat>
    <ForwardPktCount></ForwardPktCount>
    <ForwardPktRate></ForwardPktRate>
    <ForwardInPointByteStat></ForwardInPointByteStat>
    <ForwardOutPointByteStat></ForwardOutPointByteStat>
    <ForwardBytesCount></ForwardBytesCount>
    <ForwardBytesRate></ForwardBytesRate>
    <BackwardInPointPktStat></BackwardInPointPktStat>
    <BackwardOutPointPktStat></BackwardOutPointPktStat>
    <BackwardPktsCount></BackwardPktsCount>
    <BackwardPktRate></BackwardPktRate>
    <BackwardInPointByteStat></BackwardInPointByteStat>
    <BackwardOutPointByteStat></BackwardOutPointByteStat>
    <BackwardBytesCount></BackwardBytesCount>
    <BackwardBytesRate></BackwardBytesRate>
  </Loss>
</Losses>
<Amses>
  <Ams>
    <AmsID></AmsID>
     <Losses>
      <Loss>
        <Period></Period>
        <ForwardInPointPktStat></ForwardInPointPktStat>
        <ForwardOutPointPktStat></ForwardOutPointPktStat>
        <ForwardPktCount></ForwardPktCount>
        <ForwardPktRate></ForwardPktRate>
        <ForwardInPointByteStat></ForwardInPointByteStat>
        <ForwardOutPointByteStat></ForwardOutPointByteStat>
        <ForwardBytesCount></ForwardBytesCount>
        <ForwardBytesRate></ForwardBytesRate>
        <BackwardInPointPktStat></BackwardInPointPktStat>
        <BackwardOutPointPktStat></BackwardOutPointPktStat>
        <BackwardPktsCount></BackwardPktsCount>
        <BackwardPktRate></BackwardPktRate>
        <BackwardInPointByteStat></BackwardInPointByteStat>
      <BackwardOutPointByteStat></BackwardOutPointByteStat>
        <BackwardBytesCount></BackwardBytesCount>
        <BackwardBytesRate></BackwardBytesRate>
      </Loss>
    </Losses>
  </Ams>
</Amses>
```

```
    </Statistics>
  </Statisticses>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Statisticses
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 8355838.	N/A
Losses	packet loss statistics	Sublist	N/A	N/A
Amses	AMS of packet loss statistics	Sublist	N/A	N/A

INQA/Statisticses/Losses

This table contains packet loss statistics.

XML structure

Please refer to the XML structure of INQA/Statistics/Losses.

Table description

Item	Description
Feature name	INQA
Table name	Losses
Table type	Multi-instance table
Row name	Loss
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period ID	Index	Unsigned integer.	N/A
ForwardInPointPktStat	In-pint packets count.	N/A	Unsigned integer64.	N/A
ForwardOutPointPktStat	Out-pint packets count.	N/A	Unsigned integer64.	N/A
ForwardPktsCount	Number of lost packets of the forward flows	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForwardPktRate	Packet loss rate of the forward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForwardInPointByteStat	In-pint byte count.	N/A	Unsigned integer64.	N/A
ForwardOutPointByteStat	Out-pint byte count.	N/A	Unsigned integer64.	N/A
ForwardBytesCount	Number of lost bytes of the forward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForewardBytesRate	Bytes loss rate of the forward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardInPointPktStat	In-pint packets count.	N/A	Unsigned integer64.	N/A
BackwardOutPointPktStat	Out-pint packets count.	N/A	Unsigned integer64.	N/A
BackwardPktsCount	Number of lost packets of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardPktRate	Packet loss rate of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardInPointByteStat	In-pint byte count.	N/A	Unsigned integer64.	N/A
BackwardOutPointByteStat	Out-pint byte count.	N/A	Unsigned integer64.	N/A

BackwardBytesCount	Number of lost bytes of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardBytesRate	Bytes loss rate of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A

INQA/Statisticses/Amses

This table contains AMS of packet loss statistics.

XML structure

Please refer to the XML structure of INQA/Statistics/Losses/Amses.

Table description

Item	Description
Feature name	INQA
Table name	Amses
Table type	Multi-instance table
Row name	Ams
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AmsID	AMS ID	Index	Unsigned integer. Value range: 1 to 2147483647.	N/A
Losses	Packet loss statistics	Sublist	N/A	N/A

INQA/Statisticses/Amses/Losses

This table contains packet loss statistics.

XML structure

Please refer to the XML structure of INQA/Statistics/Amses/Losses.

Table description

Item	Description
Feature name	INQA
Table name	Losses
Table type	Multi-instance table
Row name	Loss
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period ID	Index	Unsigned integer.	N/A
ForwardInPointPktStat	In-pint packets count.	N/A	Unsigned integer64.	N/A
ForwardOutPointPktStat	Out-pint packets count.	N/A	Unsigned integer64.	N/A
ForwardPktsCount	Number of lost packets of the forward flows	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForwardPktRate	Packet loss rate of the forward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForwardInPointByteStat	In-pint byte count.	N/A	Unsigned integer64.	N/A
ForwardOutPointByteStat	Out-pint byte count.	N/A	Unsigned integer64.	N/A
ForwardBytesCount	Number of lost bytes of the forward flow.	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
ForewardBytesRate	Bytes loss rate of the forward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardInPointPktStat	In-pint packets count.	N/A	Unsigned integer64.	N/A
BackwardOutPointPktStat	Out-pint packets count.	N/A	Unsigned integer64.	N/A
BackwardPktsCount	Number of lost packets of the	N/A	String. Length: 1 to 10 characters.	N/A

	backward flow		Value range: 0.000001 to 100. Unit: Percentage.	
BackwardPktRate	Packet loss rate of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardInPointByteStat	In-pint byte count.	N/A	Unsigned integer64.	N/A
BackwardOutPointByteStat	Out-pint byte count.	N/A	Unsigned integer64.	N/A
BackwardBytesCount	Number of lost bytes of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage.	N/A
BackwardBytesRate	Bytes loss rate of the backward flow	N/A	String. Length: 1 to 10 characters. Value range: 0.000001 to 100. Unit: Percentage..	N/A

INQA/Collector

This table contains INQA collector information.

XML structure

```
<INQA>
  <Collector>
    <Global>
      <CollectorID></CollectorID>
      <Analyzer>
        <AnalyzerID></AnalyzerID>
        <UdpPort></UdpPort>
        <VpnName></VpnName>
      </Analyzer>
      <AddiAnalyzers>
        <AddiAnalyzer>
          <AnalyzerID></AnalyzerID>
          <UdpPort></UdpPort>
          <VpnName></VpnName>
        </AddiAnalyzer>
      </AddiAnalyzers>
      <ColorFlag>
        <ColorBit></ColorBit>
        <ColorField></ColorField>
      </ColorFlag>
    </Global>
    <Instances>
```

```
      <Instance>
        <InstanceID></InstanceID>
        <Enable></Enable>
        <Description></Description>
        <Interval></Interval>
        <Analyzer>
          <AnalyzerID></AnalyzerID>
          <UdpPort></UdpPort>
          <VpnName></VpnName>
        </Analyzer>
        <AddiAnalyzers>
          <AddiAnalyzer>
            <AnalyzerID></AnalyzerID>
            <UdpPort></UdpPort>
            <VpnName></VpnName>
          </AddiAnalyzer>
        </AddiAnalyzers>
        <Flows>
          <Flow>
            <FlowDir></FlowDir>
            <AddressFamily></AddressFamily>
            <Dscp></Dscp>
            <SourceIP></SourceIP>
            <SourceIPMask></SourceIPMask>
            <DestinationIP></DestinationIP>
            <DestinationIPMask></DestinationIPMask>
            <ProtocolNum></ProtocolNum>
            <BeginSrcPortNum></BeginSrcPortNum>
            <EndSrcPortNum></EndSrcPortNum>
            <BeginDestPortNum></BeginDestPortNum>
            <EndDestPortNum></EndDestPortNum>
            <VxlanMatch></VxlanMatch>
          </Flow>
        </Flows>
        <Mps>
          <Mp>
            <MpID></MpID>
            <IfIndex></IfIndex>
            <IfName></IfName>
            <ColorType></ColorType>
            <PortDir></PortDir>
          </Mp>
        </Mps>
      </Instance>
    </Instances>
  </Collector>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Collector
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Global	Basic collector information	Subtable	N/A	N/A
Instances	Configure a collector instance	Subtable	N/A	N/A

INQA/Collector/Global

This table contains basic information about an INQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector ID	N/A	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Analyzer	INQA analyzer	Subtable	N/A	N/A
ColorFlag	Flag bit for a monitored metric	Subtable	N/A	N/A

INQA/Collector/Global/Analyzer

This table contains information about an INQA analyzer that is associated with an INQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	N/A	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
VpnName	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A

INQA/Collector/Global/AddiAnalyzers

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	AddiAnalyzers
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddiAnalyzer	additional iNQA analyzer	Sublist	N/A	N/A

INQA/Collector/Global/AddiAnalyzers/AddiAnalyzer

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	AddiAnalyzer
Table type	Multi -instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	Index	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	Index	Unsigned integer. Value range: 1024 to 65535.	N/A
VpnName	VPN instance	Index	String. Length: 1 to 31 characters.	An empty string indicates the public network.

INQA/Collector/Global/ColorFlag

This table contains INQA collector color flag information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	ColorFlag
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColorBit	A TOS field bit to flag packet loss measurement	N/A	Unsigned integer. Value range: 5 to 7.	N/A
ColorField	Bit position	N/A	Enumeration String: • IPTOS	N/A

INQA/Collector/Instances

This table contains information abut INQA collector instances.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instances
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Instance	Instance information	Sublist	N/A	N/A

INQA/Collector/Instances/Instance

This table contains information about an INQA collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instance
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 8355838.	N/A
Enable	Enabling status of the continual measurement for the Collector instance	N/A	Boolean: • **true—Enable.** • **false—Disable.**	N/A
Description	Instance description	N/A	String. Length: 1 to 64 characters.	N/A
Interval	Statistical interval	N/A	Enumeration: • **10** • **60** • **600**	Unit is seconds.
Analyzer	Analyzer for packet loss measurement	Subtable	N/A	N/A
Flows	Measured flows	Subtable	N/A	N/A
Mps	Measurement point	Subtable	N/A	N/A

INQA/Collector/Instances/Analyzer

This table contains information about an INQA analyzer that is associated with an INQA collector instance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Analyzer
Table type	Single-instance table
Row name	N/A
Restrictions	None

INQA/Collector/Instances/AddiAnalyzers

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector inastance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item			Description		
Feature name			INQA		
Table name			AddiAnalyzers		
		Table type	Single-instance table		
Row name			N/A		
Restrictions			None		
		Support for row creation and deletion	No		

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddiAnalyzer	additional iNQA analyzer	Sublist	N/A	N/A

INQA/Collector/Instances/AddiAnalyzers/AddiAnalyzer

This table contains information about the additional iNQA analyzer that is associated with an iNQA collector inastance.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Instance

Item	Description
Table type	Multi-instance table
Row name	AddiAnalyzer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyzerID	Analyzer ID	Index	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1.
UdpPort	UDP port for the collector to communicate with the analyzer	Index	Unsigned integer. Value range: 1024 to 65535.	N/A
VpnName	VPN instance	Index	String. Length: 1 to 31 characters	An empty string indicates the public network.

INQA/Collector/Instances/Flows

This table contains information about measured flows.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Flows
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Flow	Flow information	Sublist	N/A	N/A

INQA/Collector/Instances/Flows/Flow

This table contains measured flow information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Flow
Table type	Multi-instance table
Row name	Flow
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowDir	Flow direction	Index	Enumeration string: • forward. • backward. • bidirection.	N/A
AddressFamily	Address family	N/A	Enumeration String: • IPv4. • IPv6	N/A
Dscp	DSCP of the flow	N/A	Unsigned integer. Value range: 0 to 63.	N/A
SourceIP	Source IP address of the flow	N/A	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1. Only IP unicast addresses can be configured.
SourceIPMask	Source mask length of the flow	N/A	Unsigned integer. Value range: 1 to 32.	N/A
DestinationIP	Destination IP address of the flow	N/A	IPv4: String, dotted decimal notation.	IPV4 example: 1.1.1.1. Only IP unicast addresses can be configured.
DestinationIPMask	Destination mask length of the flow	N/A	Unsigned integer. Value range: 1 to 32.	N/A
ProtocolNum	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			6 and 17 represent TCP and UDP.	
BeginSrcPortNum	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginSrcPortNum must be smaller than EndSrcPortNum.
EndSrcPortNum	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginSrcPortNum must be smaller than EndSrcPortNum.
BeginDestPortNum	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginDestPortNum must be smaller than EndDestPortNum.
EndDestPortNum	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	BeginDestPortNum must be smaller than EndDestPortNum.
VxlanMatch	Vxlan match	N/A	Enumeration String: • overlay. • Transmit • hybrid	N/A

INQA/Collector/Instances/Mps

This table contains measurement point information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Mps
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mp	Measurement point information	Sublist	N/A	N/A

INQA/Collector/Instances/Mps/Mp

This table contains measurement point information.

XML structure

Please refer to the XML structure of INQA/Collector.

Table description

Item	Description
Feature name	INQA
Table name	Mp
Table type	Multi-instance table
Row name	Mp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MpID	Measurement point ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
IfIndex	interface name	N/A	String. Length: 1 to 31 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
ColorType	Color type	N/A	Enumeration string: • in-point. • out-point. • **mid-point.**	N/A
PortDir	Port direction	N/A	Enumeration string: • **inbound.** • **outbound.**	N/A

INQA/Interfaces

This table contains analyzer interface information.

XML structure

```
<INQA>
  <Interfaces>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <MpID></MpID>
    </Interface>
  </Interfaces>
</INQA>
```

Table description

Item	Description
Feature name	INQA
Table name	Interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface information	Sublist	N/A	N/A

INQA/Interfaces/Interface

This table contains analyzer interface information.

XML structure

Please refer to the XML structure of INQA/Interfaces.

Table description

Item	Description
Feature name	INQA
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface name	Index	String. Length: 1 to 31 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
MpID	Measurement point	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A

Contents

INQA 1

INQA/Instance 1
INQA/Interface 3
INQA/Collector/Global 3
INQA/Collector/Instance 4
INQA/Collector/Interface 6

INQA

INQA/Instance

Message	Explanation
“The instance has been enabled.” 实例已经使能。”	The instance has been enabled. 实例已使能。
“A flow with the same attributes (except flow direction) has already been specified in another instance.” “其他实例已经存在flow。”	The flow has already been specified in another instance. 其他实例已经存在 flow。
“The measurement is enabled.” “有实例持续使能，不允许删除操作。”	The delete operation failed because the measurement is enabled. 实例持续使能. 不允许删除操作。
“The instance to which the MP is bound has been enabled.” “有MP绑定的实例持续使能。”	The instance to which the MP is bound has been enabled. 有 MP 绑定的实例持续使能。
“A flow has already been specified for the instance. To specify a new flow for the instance, please delete the existing flow first.” “当前实例已经配置了目标流，需要删除方可配置。”	A flow has already been specified for the instance. 已经配置了目标流。
“The MP does not exist.” “当前实例接口下不允许绑定不存在的Mp ID。”	You are not allowed to bind a nonexistent MP ID to the current instance interface. 当前实例接口下不允许绑定不存在的Mp。
“You must configure a forward flow before configuring the backward flow.”	No forward flow is configured. 正向流没有配置。

“正向流没有配置，不允许配置反向流。”	
“Lack of MP setting.” “实例下未配置Mp，请先配置。”	MP is not configured. 未配置 Mp。
“The instance does not exist. Please configure the instance first.” “实例不存在，操作失败。”	The instance does not exist. 实例不存在。
“Lack of flag bit setting.” “染色位信息没有配置，需要配置染色位。”	Lack of flag bit setting. 染色位信息没有配置。
“Lack of measured flow setting.” “未配置目标流，请首先配置目标流。”	Measured flow is not configured. 未配置目标流。
“The source and destination IP addresses are required for symmetric bidirectional flows.” “双向流需要同时配置源地址和目的地址。”	The source and destination IP addresses are required for symmetric bidirectional flows. 双向流需要同时配置源地址和目的地址。
“The collector does not exist in the analyzer instance.” “实例下不存在当前的collector。”	The collector does not exist in the analyzer instance. collector 在实例下不存在。
“The value of upper limit cannot be less than the value of lower limit.” “alarm的下限不能高于上限。”	The upper limit value cannot be less than the lower limit value. alarm 的下限不能高于上限。
“The configuration of in-group and out-group cannot be the same.” “In-group和Out-group的collector ID和MP ID不能完全一样。”	The configuration of in-group and out-group cannot be the same. In-group 和 Out-group 的 collector ID 和 MP ID 不能完全一样。
“Maximum number of instances already reached.” “instance个数已经达到上限，不允许配置。”	Maximum number of instances has been already reached. instance 个数已经达到上限。
“Maximum number of MPs already reached.” “Mp个数已经达到上限，不允许配置。”	Maximum number of MPs has been already reached. Mp 个数已经达到上限。
“Maximum number of AMSs already reached.” “Ams个数已经达到上限，不允许配置。”	Maximum number of AMSs has been already reached. Ams 个数已经达到上限。
“Maximum number of in-groups already reached.” “In-group个数已经达到上限，不允许配置。”	Maximum number of in-groups has been already reached. In-group 个数已经达到上限。
“Maximum number of out-groups already reached.” “Out-group个数已经达到上限，不允许配置。”	Maximum number of out-groups has been already reached. Out-group 个数已经达到上限。

“Maximum number of collectors in the analyzer instance already reached.” “Analyzer实例下Collector个数已经达到上限，不允许配置。”	Maximum number of collectors has been already reached in the analyzer instance. Analyzer 实例下 Collector 个数已经达到上限。
“NTP is disabled or time is not synchronized.” “ntp未使能或者时间未达到同步。”	NTP is disabled. ntp 未使能。
“The end port number must be higher than the start port number.” “端口的终止值必须大于起始值。”	The end port number must be higher than the start port number. 端口的终止值必须大于起始值。
“You cannot configure both TOS bit 5 of color flag and flows with DSCP.” “染色位为第5位时与带有dscp特征的目标流互斥。”	You cannot configure both TOS bit 5 of color flag and flows with DSCP. 染色位为第 5 位时与带有 dscp 特征的目标流互斥。
“The loss color flag and delay color flag cannot be configured at the same time.” “时延染色位和丢包染色位不允许配置成一致。”	The loss color flag and delay color flag cannot be configured at the same time. 时延染色位和丢包染色位不允许配置成一致。

INQA/Interface

Message	Explanation
“The MP is already bound to another interface.” “当前配置的Mp已经绑定了其他接口。”	The MP is already bound to another interface. 该 mp 已经绑定了其他接口。
“This interface is already bound to another MP.” “当前接口已经绑定了其他Mp。”	This interface is already bound to another MP 接口已经绑定了其他 Mp。
“Lack of MP-interface binding.” “存在测量点未绑定接口索引，请首先绑定接口索引。”	The MP-interface binding is not configured. 未绑定接口索引。

INQA/Collector/Global

Message	Explanation
“The flow DSCP value and the ToS bit 5 setting cannot be both specified.” “染色位为第5位与带有DSCP特征的目标流配置互斥。”	The flow DSCP value and the ToS bit 5 setting cannot be both specified. 染色位为第5位时与带有dscp特征的目标流互斥。
“Color bit and bit position must be both specified.”	The color bit and bit position must be both specified.

“染色位信息和染色位置必须同时下发。”	染色位信息和染色位置必须同时下发。
“Duplicate analyzer settings.” “两个分析仪的信息不能完全相同。”	Duplicate analyzer settings. 两个分析仪的信息不能完全相同。
“The number of additional analyzers has reached the upper limit.” “分析器的个数已经达到最大值，不允许配置”	The number of additional analyzers has reached the upper limit. 分析器的个数已经达到最大值，不允许配置。
“You cannot specify different UDP port numbers for the same pair of analyzer ID and VPN instance name.” “不能为同一对 analyzer ID 和 VPN 实例名称指定不同的 UDP 端口号。”	You cannot specify different UDP port numbers for the same pair of analyzer ID and VPN instance name. 不能为同一对 analyzer ID 和 VPN 实例名称指定不同的 UDP 端口号。
“The loss color flag and the delay color flag setting conflict with each other and they cannot be both specified.” “时延染色位与丢包染色位配置互斥。”	The flow DSCP value and the ToS bit 5 setting conflict with each other and they cannot be both specified. 时延染色位与丢包染色位配置互斥。

INQA/Collector/Instance

Message	Explanation
“Operation failed because the instance has been enabled.” 配置失败，实例正处于测量状态。”	Failed to enable the measurement because it is enabled in the instance. 实例已使能。
“A measured flow with the same attributes has already been specified for another instance. ” “配置冲突，目标流已经和其它实例绑定。”	A measured flow with the same attributes has already been specified for another instance. 其他实例已经存在 flow。
“Cannot edit the MP settings because the measurement is enabled for the instance to which the MP is bound.” “MP绑定的实例正在测量，不允许修改MP的配置。”	The MP settings cannot be edited because the measurement is enabled for the instance to which the MP is bound. 有 MP 绑定的实例持续使能。
“A measured flow has already been configured in the instance.” “当前实例已经配置了目标流。”	A measured flow has already been configured in the instance. To configure a new measured flow in the instance, delete the existing flow first. 当前实例已经配置了目标流，需要删除方可配置。
“You must configure a forward flow before configuring the backward flow.” “不允许仅配置反向流，请先配置正向流。”	You must configure a forward flow before configuring the backward flow. 不允许仅配置反向流，请先配置正向流。
“No MP is configured in the instance.” “实例下未配置MP。”	No MP is configured. Please configure an MP first. 实例下未配置 MP，请先配置。

“Failed to enable the measurement because the instance does not exist.” “开启测量失败，因为实例下未配置实例。”	Failed to enable the measurement, because the specified instance does not exist. Please configure an instance first. 实例不存在。
“Failed to enable the measurement because no flag bit setting is configured in the instance.” “开启测量失败，因为实例下未配置染色位。”	Failed to enable the measurement, because no flag bit setting is configured. Please configure the flag bit setting first. 开启测量失败，因为实例下未配置染色位。
“No measured flow is configured.” “未配置目标流。”	No measured flow is configured. Please configure a measured flow first. 开启测量失败，因为实例下未配置目标流。
“The source and destination IP addresses must be both specified for symmetric bidirectional flows.” “双向流需要同时配置源地址和目的地址。”	The source and destination IP addresses must be both specified for symmetric bidirectional flows. 双向流需要同时配置源地址和目的地址。
“Maximum number of instances already reached.” “实例个数已经达到上限。”	Maximum number of instances has been already reached. instance个数已经达到上限。
“Maximum number of MPs already reached.” “MP个数已经达到上限。”	Maximum number of MPs has been already reached. Mp个数已经达到上限。
“The end port number must be higher than the start port number.” “端口编号的终止值必须大于起始值。”	The end port number must be higher than the start port number. 端口的终止值必须大于起始值。
“The port number can be configured only when the protocol is TCP or UDP.” “当协议为TCP或者UDP时才可以配置端口号。”	The port number can be configured only when the protocol is TCP or UDP. 当协议为TCP或者UDP的时候才可以下发端口号。
“To issue a mask, issue an IP address first.” “不允许仅配置地址掩码，地址掩码需要和IP地址一起配置。”	An IP address must be issued before a mask. 下发地址掩码之前需要先下发IP地址。
“To delete a measured flow, you must specify the flow direction.” “删除流目标时，必须指定流方向。”	To delete a measured flow, you cannot delete only one attribute column. 删除流目标时，不能单独删除某一个属性列。
“The MP ID, color type, traffic direction must be all specified.” “必须同时指定MP ID、MP类型和流方向。”	The MP ID, color type, traffic direction must be all specified. 必须同时下发MPID，color type，port direction。
“The port number must be specified when the protocol is TCP or UDP.” “协议为UDP或者TCP时，必须指定端口号。”	When the protocol is TCP or UDP, the port number must be specified. 协议为UDP或者TCP时，必须要下发端口号。
“Failed to create a measured flow because	You must specify the flow direction in order to create a measured

required setting are missing.” “目标流创建失败，缺少必选参数。”	flow. 目标流创建失败，请指定流方向。
“To delete an MP, specify only the MP ID.” “删除测量点时，只能指定MP的编号，不能指定其他参数。”	To delete an MP, specify only the MP ID 删除测量点时，只允许删除索引。
“Duplicate analyzer settings.″ “两个分析仪的信息不能完全相同。”	Duplicate analyzer settings. 两个分析仪的信息不能完全相同。
“The number of additional analyzers has reached the upper limit.” “分析器的个数已经达到最大值，不允许配置”	The number of additional analyzers has reached the upper limit. 分析器的个数已经达到最大值，不允许配置
“You cannot specify different UDP port numbers for the same pair of analyzer ID and VPN instance name.” “不能为同一对 analyzer ID 和 VPN 实例名称指定不同的 UDP 端口号。”	You cannot specify different UDP port numbers for the same pair of analyzer ID and VPN instance name. 不能为同一对analyzer ID和VPN实例名称指定不同的UDP端口号。

INQA/Collector/Interface

Message	Explanation
“The MP does not exist.” “绑定的MP不存在。”	A nonexistent MP cannot be bound to the interface. 当前接口绑定的MP不存在。
“The MP has already been bound to another interface.” “当前配置的MP已经绑定了其他接口。”	The MP has already been bound to another interface. 该 mp 已经绑定了其他接口。
“The interface has already been bound to another MP.” “当前接口已经绑定了其它MP。”	This interface has already been bound to another MP 接口已经绑定了其他 Mp。
“The MP-interface binding is not configured.” “MP未绑定接口。”	The MP-interface binding is not configured. Please configure the binding first. 未绑定接口索引。

Contents

InSuitOam 1
FlowInfo 1
XML structure 1
Table description 1
Columns 1
MeasureReport 2
XML structure 2
Table description 3
Columns 3

InSuitOam

FlowInfo

This table contains measured flow information

XML structure

```
<FlowInfo>
  <flowentry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
    <addrFamily></addrFamily>
    <SourceIP></SourceIP>
    <SourceMask></SourceMask>
    <DestinationIP></DestinationIP>
    <DestinationMask></DestinationMask>
    <SourcePort></SourcePort>
    <DestinationPort></DestinationPort>
    <Protocol></Protocol>
    <BindingIfName></BindingIfName>
    <VRF></VRF>
  </flowentry>
</FlowInfo>
```

Table description

Item	Description
Feature name	Insuitoam
Table name	FlowInfo
Table type	Multi-instance table
Row name	FlowEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowNodeID	Node identifier of monitored flow	Index	Unsigned integer. Value range: 1 to 1048575	N/A
FlowMonID	Monitored flow identifier	Index	Unsigned integer. Value range: 1 to 1048575	N/A
addrFamily	Family of IP	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		• **0**—IPv4. • **1**—IPv6.	
SourceIP	Source IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
SourceMask	Source mask length of the flow	N/A	Unsigned integer.	N/A
DestinationIP	Destination IP address of the flow	N/A	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
DestinationMask	Destination mask length of the flow	N/A	Unsigned integer.	N/A
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Protocol	Type of protocol	N/A	Unsigned integer.	Example:TCP: 6, UDP:17,SCTP:132
BindingIfName	Full name of an binding interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
VRF	VPN instance	N/A	String. Length: 1 to 31 characters.	N/A

MeasureReport

This table contains measured statistics report information

XML structure

```
<MeasureReport>
  <reportEntry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
    <direction></direction>
    <IfName></IfName>
    <PeriodID></PeriodID>
    <period></period>
    <PacketCount></PacketCount>
```

```
    <TimestampSecond></TimestampSecond>
    <TimestampNanoSecond></TimestampNanoSecond>
  </reportEntry>
</MeasureReport>
```

Table description

Item	Description
Feature name	InSuitOam
Table name	MeasureReport
Table type	Multi-instance table
Row name	ReportEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowNodeID	Node identifier of monitored flow	Index	Unsigned integer. Value range: 1 to 1048575	N/A
FlowMonID	Monitored flow identifier	Index	Unsigned integer. Value range: 1 to 1048575	N/A
direction	Flow direction	Index	Enumeration: • **0**—Ingress. • **1**—TransInput • **2**—TransOutput • **3**—Egress.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
PeriodID	Period identifier	Index	Unsigned integer. Length: 32 bits.	N/A
period	Statistics polling interval	N/A	Enumeration: • **0**—1 second. • **1**—10 seconds. • **2**—30 seconds • **3**—60 seconds. • **4**—300 seconds.	N/A
PacketCount	Packet number	N/A	Unsigned integer. Length: 64 bits.	N/A
TimestampSecond	Second part of the timestamp	N/A	Unsigned integer. Length: 64 bits.	N/A
TimestampNa	Nanosecond part	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
noSecond	of the timestamp		Length: 64 bits.	

Contents

FlowInfo event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
MeasureReport event ····· 3
XML structure for event subscription ····· 4
XML structure for event report ····· 4

FlowInfo event

This event is used to report iFIT flow information when the flow information is updated.

XML structure for event subscription

```
<FlowInfo>
  <flowentry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
  </flowentry>
</FlowInfo>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>InSuitOam</stream>
    <filter type="subtree">
    <FlowInfo xmlns="http://www.h3c.com/netconf/event:1.0/InSuitOam:1.0">
      <flowentry>
        <FlowNodeID>1</FlowNodeID>
        <FlowMonID>1</FlowMonID>
      </flowentry>
    </FlowInfo>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	**Description**
Event stream name	InSuitOam
Event name	FlowInfo
Event namespace	http://www.h3c.com/netconf/event:1.0/ InSuitOam:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
FlowNodeID	Node identifier of monitored flow	Unsigned integer. Value range: 1 to 4294967295	N/A
FlowMonID	Monitored flow identifier	Unsigned integer. Value range: 1 to 1048575	N/A

XML structure for event report

```
<FlowInfo>
  <flowentry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
    <addrFamily></addrFamily>
    <SourceIP></SourceIP>
    <SourceMask></SourceMask>
    <DestinationIP></DestinationIP>
    <DestinationMask></DestinationMask>
    <SourcePort></SourcePort>
    <DestinationPort></DestinationPort>
    <Protocol></Protocol>
    <BindingIfName></BindingIfName>
    <VRF></VRF>
    <Dscp></Dscp>
  </flowentry>
</FlowInfo>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-09-27T09:10:51</eventTime>
  <FlowInfo xmlns="http://www.h3c.com/netconf/event:1.0/InSuitOam:1.0">
    <flowentry>
      <FlowNodeID>1</FlowNodeID>
      <FlowMonID>1</FlowMonID>
      <addrFamily>0</addrFamily>
      <SourceIP>1.1.1.1</SourceIP>
      <SourceMask>16</SourceMask>
      <DestinationIP>2.2.2.2</DestinationIP>
      <DestinationMask>16</DestinationMask>
      <SourcePort>24</SourcePort>
      <DestinationPort>25</DestinationPort>
      <Protocol>16</Protocol>
      <BindingIfName>Ten-GigabitEthernet5/2/6</BindingIfName>
      <VRF>vpn1</VRF>
      <Dscp>1</Dscp>
    </flowentry>
  </FlowInfo>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
FlowNodeID	Node identifier of monitored flow	Unsigned integer. Value range: 1 to 4294967295	No
FlowMonID	Monitored flow identifier	Unsigned integer. Value range: 1 to 1048575	No
addrFamily	Family of IP address	Enumeration: • **0**—IPv4. • **1**—IPv6.	No
SourceIP	Source IP address of the flow	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated.	No
SourceMask	Source mask length of the flow	Unsigned integer.	No
DestinationIP	Destination IP address of the flow	Union: 1. IPv4: String, dotted decimal notation. 2. IPv6: Hexadecimal string, colon-separated.	No
DestinationMask	Destination mask length of the flow	Unsigned integer.	No
SourcePort	Source port number	Unsigned integer. Value range: 0 to 65535.	No
DestinationPort	Destination port number	Unsigned integer. Value range: 0 to 65535.	No
Protocol	Type of protocol	Unsigned integer.	No
BindingIfName	Full name of an binding interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
VRF	VPN instance	String. Length: 1 to 31 characters.	No
Dscp	DSCP value.	Unsigned integer. Value range: 0 to 63.	No

MeasureReport event

This event is used to report iFIT measure information when the measure information is updated.

XML structure for event subscription

```
<MeasureReport>
  <reportEntry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
  </reportEntry>
<MeasureReport>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>InSuitOam</stream>
    <filter type="subtree">
      <MeasureReport xmlns="http://www.h3c.com/netconf/event:1.0/InSuitOam:1.0">
        <reportEntry>
          <FlowNodeID>1</FlowNodeID>
          <FlowMonID>1</FlowMonID>
        </reportEntry>
      </MeasureReport>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	InSuitOam
Event name	MeasureReport
Event namespace	http://www.h3c.com/netconf/event:1.0/InSuitOam:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
FlowNodeID	Node identifier of monitored flow	Unsigned integer. Value range: 1 to 1048575	N/A
FlowMonID	Monitored flow identifier	Unsigned integer. Value range: 1 to 1048575	N/A

XML structure for event report

```
<MeasureReport>
  <reportEntry>
    <FlowNodeID></FlowNodeID>
    <FlowMonID></FlowMonID>
```

```
    <direction></direction>
    <IfName></IfName>
    <PeriodID></PeriodID>
    <period></period>
    <PacketCount></PacketCount>
    <TimestampSecond></TimestampSecond>
    <TimestampNanoSecond></TimestampNanoSecond>
    <trunkIfName></trunkIfName>
    <ErrorInfo></ErrorInfo>
  </reportEntry>
</MeasureReport>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-09-21T09:10:51</eventTime>
  < MeasureReport xmlns="http://www.h3c.com/netconf/event:1.0/InSuitOam:1.0">
    <reportEntry>
      <FlowNodeID>1</FlowNodeID>
      <FlowMonID>1</FlowMonID>
      <direction>1</direction>
      <IfName>Ten-GigabitEthernet5/2/6</IfName>
      <PeriodID>163094957</PeriodID>
      <period>1</period>
      <PacketCount>4124</PacketCount>
      <TimestampSecond>1630949570</TimestampSecond>
      <TimestampNanoSecond>2042130</TimestampNanoSecond>
      <trunkIfName>Route-Aggregation1</trunkIfName>
      <ErrorInfo>1</ErrorInfo>
    </reportEntry>
  </MeasureReport>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
FlowNodeID	Node identifier of monitored flow	Unsigned integer. Value range: 1 to 1048575	No
FlowMonID	Monitored flow identifier	Unsigned integer. Value range: 1 to 1048575	No
direction	Flow direction	Enumeration: • **0**—Ingress. • **1**—TransInput • **2**—TransOutput • **3**—Egress.	No

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No
PeriodID	Period identifier	Unsigned integer. Length: 32 bits.	No
period	Statistics polling interval	Enumeration: • **0**—1 second. • **1**—10 seconds. • **2**—30 seconds • **3**—60 seconds. • **4**—300 seconds	No
PacketCount	Packet number	Unsigned integer. Length: 64 bits.	No
TimestampSecond	Second part of the timestamp	Unsigned integer. Length: 64 bits.	No
TimestampNanoSecond	Nanosecond part of the timestamp	Unsigned integer. Length: 64 bits.	No
trunkIfName	Full name of a trunk interface	String. Length: 2 to 47 characters. Example: Route-Aggregation1	No
ErrorInfo	Error information	Unsigned integer. Length: 32 bits.	No

Contents

IP6FW 1
IP6FW/BPAClearStatistic 1
XML structure 1
Table description 1
Columns 1
IP6FW/BPAClearGlobalStatistic 1
XML structure 2
Table description 2
Columns 2

IP6FW

IP6FW/BPAClearStatistic

This table resets BGP policy statistics on an interface.

XML structure

```
<IP6FW>
  <BPAClearStatistic>
    <ClearStatistic>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </ClearStatistic>
  </BPAClearStatistic>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	BPAClearStatistic
Table type	Multi-instance table
Row name	ClearStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output • **3**—Both	N/A

IP6FW/BPAClearGlobalStatistic

This table resets BGP policy statistics globally.

XML structure

```
<IP6FW>
  <BPAClearGlobalStatistic>
    <ClearStatistic>
      <Direction></Direction>
    </ClearStatistic>
  </BPAClearGlobalStatistic>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	BPAClearGlobalStatistic
Table type	Multi-instance table
Row name	ClearStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output • **3—**Both	N/A

Contents

IP6FW 1
IP6FW/IP6FWLastHopHold 1
XML structure 1
Table description 1
Columns 1
IP6FW/IP6FWMTU 2
XML structure 2
Table description 2
Columns 3
IP6FW/IP6FWForwardConverseLearn 3
XML structure 3
Table description 3
Columns 4
IP6FW/FIB6ConsistencyTable 4
XML structure 4
Table description 4
Columns 5

IP6FW

IP6FW/IP6FWLastHopHold

This table contains IPv6 last hop holding information.

XML structure

```
<IP6FW>
  <IP6FWLastHopHold>
    <LastHopHoldIPv6>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHoldIPv6>
  </IP6FWLastHopHold>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWLastHopHold
Table type	Multi-instance table
Row name	LastHopHoldIPv6
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions supportinterface name. For relevant information, see the XSD document of your product. For

				information about IfIndex, see “Appendix”in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	Enabling status of the last hop holding feature	N/A	Unsigned integer: • **1**—Enabled. • **2**—Disabled.	N/A

IP6FW/IP6FWMTU

This table contains IPV6 interface MTU information.

XML structure

```
<IP6FW>
  <IP6FWMTU>
    <MTU>
      <IfIndex></IfIndex>
      <MTU></MTU>
    </MTU>
  </IP6FWMTU>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWMTU
Table type	Multi-instance table
Row name	MTU
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product.
MTU	Interface MTU	N/A	Unsigned integer. Value range: 1280 to maximum MTU.	Applicable to only Layer 3 interfaces. The maximum MTU value depends on the interface type.

IP6FW/IP6FWForwardConverseLearn

This table contains information about conversational learning for IPv6 forwarding.

XML structure

```
<IP6FW>
  <IP6FWForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </IP6FWForwardConverseLearn>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWForwardConverseLearn
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether conversational learning for IPv6 host route FIB entries is enabled	N/A	Boolean: • **true**. • **false** (default).	N/A
AgingTime	Aging time for IPv6 host route FIB entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes. Default: 60.	N/A

IP6FW/FIB6ConsistencyTable

This table contains the information about FIB6 consistency check.

XML structure

```
<IP6FW>
  <FIB6ConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </FIB6ConsistencyTable>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	FIB6ConsistencyTable
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Consistency CheckEnable	Whether FIB6 consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

Contents

IP6FW 1

IP6FW/IP6FWSpecification 1
XML structure 1
Table description 1
Columns 1
IP6FW/IP6FWLastHopHold 1
XML structure 2
Table description 2
Columns 2
IP6FW/IP6FWMTU 3
XML structure 3
Table description 3
Columns 3
IP6FW/IP6FWForwardConverseLearn 4
XML structure 4
Table description 4
Columns 4
IP6FW/BPAStatistic 5
XML structure 5
Table description 5
Columns 5
IP6FW/BPAGlobalStatistic 6
XML structure 6
Table description 7
Columns 7
IP6FW/FIB6ConsistencyTable 7
XML structure 8
Table description 8
Columns 8

IP6FW

IP6FW/IP6FWSpecification

This table contains IPv6 forwarding support information.

XML structure

```
<IP6FW>
  <IP6FWSpecification>
    <SupportLastHopIPv6></SupportLastHopIPv6>
  </IP6FWSpecification>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportLastHopIPv6	Enable IPv6 last hop backup	N/A	Enumeration: • false. • true.	N/A

IP6FW/IP6FWLastHopHold

This table contains IPv6 last hop holding information.

XML structure

```
<IP6FW>
  <IP6FWLastHopHold>
    <LastHopHoldIPv6>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHoldIPv6>
  </IP6FWLastHopHold>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWLastHopHold
Table type	Multi-instance table
Row name	LastHopHoldIPv6
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions supportinterface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix”in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	Enabling status of the IPv6 last hop holding feature	N/A	Unsigned integer: • **1**—Enabled. • **2**—Disabled.	N/A

IP6FW/IP6FWMTU

This table contains IPv6 interface MTU information.

XML structure

```
<IP6FW>
  <IP6FWMTU>
    <MTU>
      <IfIndex></IfIndex>
      <MTU></MTU>
    </MTU>
  </IP6FWMTU>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWMTU
Table type	Multi-instance table
Row name	MTU
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
MTU	Interface MTU	N/A	Unsigned integer. Value range: 1280 to maximum MTU.	Applicable to only Layer 3 interfaces. The maximum MTU value depends on the interface type.

IP6FW/IP6FWForwardConverseLearn

This table contains information about conversational learning for IPv6 forwarding.

XML structure

```
<IP6FW>
  <IP6FWForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </IP6FWForwardConverseLearn>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	IP6FWForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether conversational learning for IPv6 host route FIB	N/A	Boolean: • **true.** • **false**.	N/A

	entries is enabled			
AgingTime	Aging time for IPv6 host route FIB entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes.	N/A

IP6FW/BPAStatistic

This table contains IPv6 BGP policy statistics on an interface.

XML structure

```
<IP6FW>
  <BPAStatistic>
    <Statistic>
      <IfIndex></IfIndex>
      <TrafficIndex></TrafficIndex>
      <Direction></Direction>
      <Packets></Packets>
      <PacketBytes></PacketBytes>
      <PacketsRate></PacketsRate>
      <PacketBitsRate></PacketBitsRate>
    </Statistic>
  </BPAStatistic>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	BPAstatistic
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	interface Index	Index	Unsigned integer.	N/A
TrafficIndex	Traffic index	Index	Unsigned integer.	The traffic index range varies by product.
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBytes	Number of bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketsRate	Packet rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBitsRate	Bit rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IP6FW/BPAGlobalStatistic

This table contains global IPv6 BGP policy statistics.

XML structure

```
<IP6FW>
  <BPAGlobalStatistic>
    <Statistic>
      <TrafficIndex></TrafficIndex>
      <Direction></Direction>
      <Packets></Packets>
      <PacketBytes></PacketBytes>
      <PacketsRate></PacketsRate>
      <PacketBitsRate></PacketBitsRate>
    </Statistic>
  </BPAGlobalStatistic>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	BPAGlobalStatistic
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficIndex	Traffic index	Index	Unsigned integer.	The traffic index range varies by product.
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBytes	Number of bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketsRate	Packet rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBitsRate	Bit rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IP6FW/FIB6ConsistencyTable

This table contains the information about FIB6 consistency check.

XML structure

```
<IP6FW>
  <FIB6ConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </FIB6ConsistencyTable>
</IP6FW>
```

Table description

Item	Description
Feature name	IP6FW
Table name	FIB6ConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether FIB6 consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

IP6FW 1
IP6FW/IP6FWMTU 1
IP6FW/IP6FWForwardConverseLearn 1

IP6FW

IP6FW/IP6FWMTU

Message	Explanation
The value is out of range. 配置的值超过上限。	The value is out of range. Please check the configuration or specifications. 配置的值超过上限,请检查配置。

IP6FW/IP6FWForwardConverseLearn

Message	Explanation
When conversational learning for IPv6 forwarding is disabled, the aging time of entries must be the default value. 当报文转发时下发主机路由IPv6 FIB表项功能处于关闭状态时，表项的老化时间必须是默认值。	When conversational learning for IPv6 forwarding is disabled, the aging time of entries must be the default value. 当报文转发时下发主机路由 IPv6 FIB 表项功能处于关闭状态时，表项的老化时间必须是默认值。

Contents

IPCIM 1
IPCIM/IpSourceBindingInterface 1
XML structure 1
Table description 1
Columns 2
IPCIM/IpVerifySource 2
XML structure 2
Table description 3
Columns 3
IPCIM/IpVerifyExcludeVlan 3
XML structure 3
Table description 4
Columns 4

IPCIM

IPCIM/IpSourceBindingInterface

This table contains IPSG binding information.

XML structure

```
<IPCIM>
  <IpSourceBindingInterface>
    <SourceBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
    </SourceBinding>
  </IpSourceBindingInterface>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpSourceBindingInterface
Table type	Multi-instance table
Row name	SourceBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference. Value 0 means to configure a global static IPv4SG binding, which takes effect on all interfaces.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	Value 0.0.0.0 means that no IPv4 address is specified. Either an IPv4 address or a MAC address must be specified.
MacAddress	MAC address	Index	Format: HH-HH-HH-HH-HH-HH.	Example: 00-0c-af-e3-5d-c0. Vlaue 00-00-00-00-00-00 means that no MAC address is specified. Either an IPv4 address or a MAC address must be specified.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	Value 0 means that no VLAN ID is specified.

IPCIM/IpVerifySource

This table contains packet filtering rule information.

XML structure

```
<IPCIM>
  <IpVerifySource>
    <VerifySource>
      <IfIndex></IfIndex>
      <VerifyIpAddress></VerifyIpAddress>
      <VerifyMacAddress></VerifyMacAddress>
      <VerifyStrict></VerifyStrict>
    </VerifySource>
  </IpVerifySource>
```

```
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifySource
Table type	Multi-instance table
Row name	VerifySource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VerifyIpAddress	Whether to filter incoming packets by source IPv4 addresses or not.	N/A	Boolean: • **true** • **false** (default)	N/A
VerifyMacAddress	Whether to filter incoming packets by source MAC addresses or not.	N/A	Boolean: • **true** • **false** (default)	N/A
VerifyStrict	Whether to filter incoming non-IP packets or not.	N/A	Boolean: • **true** • **false** (default)	N/A

IPCIM/IpVerifyExcludeVlan

This table contains information about VLANs excluded from IPSG.

XML structure

```
<IPCIM>
```

```
  <IpVerifyExcludeVlans>
    <ExcludeVlan>
      <StartVlan></StartVlan>
      <EndVlan></EndVlan>
    </ExcludeVlan>
  </IpVerifyExcludeVlans>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifyExcludeVlans
Table type	Multi-instance table
Row name	ExcludeVlan
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlan	Start VLAN ID of an excluded VLAN range	Index	Unsigned integer. Value range: 1 to 4094.	N/A
EndVlan	End VLAN ID of an excluded VLAN range	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Contents

IPCIM 1
IPCIM/IpSourceBindingInterface 1
XML structure 1
Table description 1
Columns 2
IPCIM/IpVerifySource 2
XML structure 2
Table description 3
Columns 3
IPCIM/IpVerifyExcludeVlan 3
XML structure 4
Table description 4
Columns 4

IPCIM

IPCIM/IpSourceBindingInterface

This table contains IPSG binding information.

XML structure

```
<IPCIM>
  <IpSourceBindingInterface>
    <SourceBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <IfName></IfName>
    </SourceBinding>
  </IpSourceBindingInterface>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpSourceBindingInterface
Table type	Multi-instance table
Row name	SourceBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference. Value 0 means to configure a global static IPv4SG binding, which takes effect on all interfaces.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	0.0.0.0 means that no IPv4 address is specified.
MacAddress	MAC address	Index	Format: HH-HH-HH-HH-HH-HH.	Example: 00-0c-af-e3-5d-c0. 00-00-00-00-00-00 means that no MAC address is specified.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means that no VLAN ID is specified.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

IPCIM/IpVerifySource

This table contains packet filtering rule table information.

XML structure

```
<IPCIM>
  <IpVerifySource>
    <VerifySource>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VerifyIpAddress></VerifyIpAddress>
      <VerifyMacAddress></VerifyMacAddress>
      <VerifyStrict></VerifyStrict>
    </VerifySource>
  </IpVerifySource>
```

```
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifySource
Table type	Multi-instance table
Row name	VerifySource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
VerifyIpAddress	Whether to filter incoming packets by source IPv4 addresses or not.	N/A	Boolean: • **true** • **false**	N/A
VerifyMacAddress	Whether to filter incoming packets by source MAC addresses or not.	N/A	Boolean: • **true** • **false**	N/A
VerifyStrict	Whether to filter incoming non-IP packets or not.	N/A	Boolean: • **true** • **false**	N/A

IPCIM/IpVerifyExcludeVlan

This table contains information about VLANs excluded from IPSG.

XML structure

```
<IPCIM>
  <IpVerifyExcludeVlans>
    <ExcludeVlan>
      <StartVlan></StartVlan>
      <EndVlan></EndVlan>
      <Status></Status>
    </ExcludeVlan>
  </IpVerifyExcludeVlans>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifyExcludeVlans
Table type	Multi-instance table
Row name	ExcludeVlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartVlan	Start VLAN ID of an excluded VLAN range	Index	Unsigned integer. Value range: 1 to 4094.	N/A
EndVlan	End VLAN ID of an excluded VLAN range	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Status	Status of an excluded VLAN range	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	Read only.

Contents

IPCIM 2
IPCIM/IpsourceBindingInterface 2
IPCIM/ IpVerifyExcludeVlan 2

IPCIM

IPCIM/IpsourceBindingInterface

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
IP address and MAC address are invalid. 非法的IP地址和MAC地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Invalid MAC address. 非法的MAC地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

IPCIM/ IpVerifyExcludeVlan

Message	Explanation
The start VLAN ID is greater than the end VLAN ID. 配置IP Source Guard免过滤条件中的VLAN范围的End VLAN不能小于Start VLAN。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
The status is read-only. 配置IP Source Guard免过滤条件中的Status只可读不可写。	The status is read-only. 配置IP Source Guard免过滤条件中的Status只可读不可写。
The specified VLAN range overlaps with other excluded VLAN ranges. 配置IP Source Guard免过滤条件的VLAN范围重叠。	The specified VLAN range overlaps with other excluded VLAN ranges. 配置IP Source Guard免过滤条件的VLAN范围配置区域重叠。

Contents

IPFS 1
IPFS/IPFSLoadSharing 1
XML structure 1
Table description 1
Columns 1
IPFS/MACFS 1
XML structure 2
Table description 2
Columns 2
IPFS/InlineFS 2
XML structure 2
Table description 3
Columns 3

IPFS

IPFS/IPFSLoadSharing

This table contains IP fast forwarding load sharing information.

XML structure

```
<IPFS>
  <IPFSLoadSharing>
    <IPFastForwardingLoadSharing></IPFastForwardingLoadSharing>
  </IPFSLoadSharing>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	IPFSLoadSharing
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPFastForwardingLoadSharing	Whether the IP fast forwarding load sharing is enabled	N/A	Boolean: • **true** (default) • **false**	N/A

IPFS/MACFS

This table contains VLAN ID information.

XML structure

```
<IPFS>
  <MACFS>
    <IgnoreVLANID></IgnoreVLANID>
  </MACFS>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	MACFS
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IgnoreVLANID	Whether to ignore VLAN IDs	N/A	Boolean: • true. • false.

IPFS/InlineFS

This table contains VLAN ID information.

XML structure

```
<IPFS>
  <InlineFS>
    <IgnoreVLANID></IgnoreVLANID>
  </InlineFS>
```

```
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	InlineFS
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IgnoreVLANID	Whether to ignore VLAN IDs	N/A	Boolean: • true. • false.

Contents

IPFS 1
IPFS/IPFSLoadSharing 1
XML structure 1
Table description 1
Columns 1
IPFS/MACFS 1
XML structure 2
Table description 2
Columns 2
IPFS/InlineFS 2
XML structure 2
Table description 3
Columns 3
IPFS/Specification 3
XML structure 3
Table description 3
Columns 4

IPFS

IPFS/IPFSLoadSharing

This table contains IP fast forwarding load sharing information.

XML structure

```
<IPFS>
  <IPFSLoadSharing>
    <IPFastForwardingLoadSharing></IPFastForwardingLoadSharing>
  </IPFSLoadSharing>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	IPFSLoadSharing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPFastForwardingLoadSharing	Whether the IP fast forwarding load sharing is enabled	N/A	Boolean: • **true** • **false**	N/A

IPFS/MACFS

This table contains VLAN ID information.

XML structure

```
<IPFS>
  <MACFS>
    <IgnoreVLANID></IgnoreVLANID>
  </MACFS>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	MACFS
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IgnoreVLANID	Whether to ignore VLAN IDs	N/A	Boolean: • true. • false.

IPFS/InlineFS

This table contains VLAN ID information.

XML structure

```
<IPFS>
  <InlineFS>
    <IgnoreVLANID></IgnoreVLANID>
  </InlineFS>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	InlineFS
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IgnoreVLANID	Whether to ignore VLAN IDs	N/A	Boolean: • true. • false.

IPFS/Specification

This table contains module specification information.

XML structure

```
<IPFS>
  <Specification>
    <MACFS></MACFS>
    <InlineFS></InlineFS>
  </Specification>
</IPFS>
```

Table description

Item	Description
Feature name	IPFS
Table name	Specification

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MACFS	Whether to customize the function of ignoring VLAN IDs in MAC fast forwarding	N/A	Boolean: • true. • false.
InlineFS	Whether to customize the function of ignoring VLAN IDs in inline fast forwarding	N/A	Boolean: • true. • false.

Contents

IPFW 1
IPFW/BPAClearStatistic 1
XML structure 1
Table description 1
Columns 1
IPFW/BPAClearGlobalStatistic 1
XML structure 2
Table description 2
Columns 2

IPFW

IPFW/BPAClearStatistic

This table resets IPv4 BGP policy statistics on an interface.

XML structure

```
<IPFW>
  <BPAClearStatistic>
    <ClearStatistic>
      <IfIndex></IfIndex>
      <Direct></Direct>
    </ClearStatistic>
  </BPAClearStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPAClearStatistic
Table type	Multi-instance table
Row name	ClearStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output • **3**—Both	N/A

IPFW/BPAClearGlobalStatistic

This table resets IPv4 BGP policy statistics globally.

XML structure

```
<IPFW>
  <BPAClearGlobalStatistic>
    <ClearStatistic>
      <Direct></Direct>
    </ClearStatistic>
  </BPAClearGlobalStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPAClearGlobalStatistic
Table type	Multi-instance table
Row name	ClearStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output • **3**—Both	N/A

Contents

IPFW 2

IPFW/IPFWLoadSharing 2
XML structure 2
Table description 3
Columns for B64 4
Columns for B70 5
IPFW/IPFWLastHopHold 7
XML structure 7
Table description 7
Columns 8
IPFW/IPFWSetService 8
XML structure 8
Table description 8
Columns 9
IPFW/IPFWLastHopBackupSwitch 9
XML structure 9
Table description 9
Columns 10
IPFW/IPFWTcpMss 10
XML structure 10
Table description 10
Columns 11
IPFW/IPFWDFSet 11
XML structure 11
Table description 11
Columns 12
IPFW/IPFWSymmetric 12
XML structure 12
Table description 12
Columns 13
IPFW/IPFWFwdPolicy 13
XML structure 13
Table description 13
Columns 14
IPFW/IPFWSetStatistic 14
XML structure 14
Table description 14
Columns 15

IPFW/IPFWForwardConverseLearn ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
IPFW/IPFWMTU ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 18
IPFW/IPFWErrorEnable ····· 18
XML structure ····· 18
Table description ····· 19
Columns ····· 19
IPFW/BPA ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22
IPFW/IPFWEcmpMode ····· 22
XML structure ····· 22
Table description ····· 23
Columns ····· 23
IPFW/FIBConsistencyTable ····· 23
XML structure ····· 24
Table description ····· 24
Columns ····· 24

IPFW

IPFW/IPFWLoadSharing

This table contains load sharing information.

XML structure

B64 表格式

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <AlgorithmNum></AlgorithmNum>
```

```
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

B70&V9 表格式

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <DeviceNode>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      </DeviceNode>
      <AlgorithmNum></AlgorithmNum>
      <Seed></Seed>
      <Shift></Shift>
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
      <FlowLabel></FlowLabel>
      <TunnelOuter></TunnelOuter>
      <TunnelInner></TunnelInner>
      <TunnelAll></TunnelAll>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLoadSharing
Table type	Multi-instance table

Item	Description
Row name	LoadSharing
Restrictions	None
Support for row creation and deletion	No

Columns for B64

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Type	Method for obtaining the IPv4 address	N/A	Enumeration: • **1**—PACKET. • **2**—FLOW. • **3**—ALGORITHM	N/A
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DestIp	Load sharing based on destination IP address	N/A	Boolean: • **true** • **false**	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: • **true** • **false**	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: • **true** • **false**	N/A
DestPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: • **true** • **false**	N/A

Columns for B70

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	Global configuration if equals to 65535
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	Global configuration if equals to 65535
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	Value range is 0 to 7
Type	Method for obtaining the IPv4 address	Index	Enumeration: • **0**—DEFAULT. • **1**—PACKET. • **2**—FLOW. • **3**—ALGORITHM • **4**—TUNNEL	0:Restore default configuration. 1:Configuration type only 2:Can only be configured DestIp , SrcIp , IpPro , DestPort, SrcPort, IngressPort ; 3: Can only be configured AlgorithmNum, Seed, Shift 4: Can only be configured Tunnlemode

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	Default value 4294967295, Note: it shows default value If AlgorithmNum equals to 0,
Seed	The start hash value for the load-sharing algorithm	N/A	Unsigned integer.	Default value is set by user
Shift	The offset value for the load-sharing calculation result	N/A	Unsigned integer.	Default value is set by user
DestIp	Load sharing based on destination IP address	N/A	Boolean: • **true** • **false**	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: • **true** • **false**	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: • **true** • **false**	N/A
DestPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A
SrcPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: • **true** • **false**	N/A
FlowLabel	Load sharing based on flow label	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Tunnleouter	Load sharing based on Tunnel outer	N/A	Boolean: • **true** • **false**	N/A
TunnelInner	Load sharing based on Tunnel Inner	N/A	Boolean: • **true** • **false**	N/A
TunnelAll	Load sharing based on Tunnel All	N/A	Boolean: • **true** • **false**	N/A

IPFW/IPFWLastHopHold

This table contains last hop holding information.

XML structure

```
<IPFW>
  <IPFWLastHopHold>
    <LastHopHold>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHold>
  </IPFWLastHopHold>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLastHopHold
Table type	Multi-instance table
Row name	LastHopHold
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix”in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	Enabling status of the last hop holding feature	N/A	Unsigned integer: • **1**—Enabled. • **2**—Disabled.	N/A

IPFW/IPFWSetService

This table contains IP service information.

XML structure

```
<IPFW>
  <IPFWSetService>
    <DscpEnable></DscpEnable>
    <VpnPeerIdEnable></VpnPeerIdEnable>
    <MplsExpEnable></MplsExpEnable>
  </IPFWSetService>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetService

Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DscpEnable	Enabling status of the DSCP service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
VpnPeerIdEnable	Enabling status of the VPN peer ID service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MplsExpEnable	Enabling status of the MPLS EXP service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPFW/IPFWLastHopBackupSwitch

This table contains IP last hop backup information.

XML structure

```
<IPFW>
  <IPFWLastHopBackupSwitch>
    <BackupEnable></BackupEnable>
  </IPFWLastHopBackupSwitch>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW

Table name	IPFWLastHopBackupSwitch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupEnable	Enable last-hop Backup	N/A	Enumeration: • **1**—Enable. • **2**—Disable.	N/A

IPFW/IPFWTcpMss

This table contains interface TCP MSS information.

XML structure

```
<IPFW>
  <IPFWTcpMss>
    <TcpMss>
      <IfIndex></IfIndex>
      <Num></Num>
    </TcpMss>
  </IPFWTcpMss>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWTcpMss
Table type	Multi-instance table
Row name	TcpMss

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Num	TCP max segment size	N/A	Unsigned integer. Value range: 128 to 65535.	The maximum value is the maximum MTU that the interface supports minus 40.

IPFW/IPFWDFSet

This table contains packet DF bit information.

XML structure

```
<IPFW>
  <IPFWDFSet>
      <IPDFBit></IPDFBit>
  </IPFWDFSet>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW

Item	Description
Table name	IPFWDFSet
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPDFBit	Setting of the DF bit	N/A	Enumeration: • **0**—DISABLE. • **1**—SET. • **2**—CLEAR.	N/A

IPFW/IPFWSymmetric

This table contains IP symmetric forwarding.

XML structure

```
<IPFW>
  <IPFWSymmetric>
    <Symmetric>
      <SymmetricMode></SymmetricMode>
    </Symmetric>
  </IPFWSymmetric>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSymmetric
Table type	Multi-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Symmetric	Enabling status of the symmetric forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPFW/IPFWFwdPolicy

This table contains the forwarding policy information.

XML structure

```
<IPFW>
  <IPFWFwdPolicy>
    <FwdPolicy></FwdPolicy>
  </IPFWFwdPolicy>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWFwdPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
FwdPolicy	Set the current forwarding policy	N/A	Unsigned integer Value range: 1 to 4. • **1**—Per-flow forwarding policy. • **2**—Per-packet forwarding policy. • **3**—Three-tuple-based per-flow forwarding policy. • **4**—Enhanced per-flow forwarding policy.

IPFW/IPFWSetStatistic

This table contains interface-specific IPv4 and IPv6 staitistic collection configuration.

XML structure

```
<IPFW>
  <IPFWSetStatistic>
    <SetStatistic>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <Direct></Direct>
      <InPktType></InPktType>
      <OutPktType></OutPktType>
    </SetStatistic>
  </IPFWSetStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetStatistic
Table type	Multi-instance table
Row name	SetStatistic

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enabling status of the statistics collection	N/A	Unsigned integer • **1**—Enabled • **2**—Disabled	Default value is 2
Direct	Traffic direction	N/A	Enumeration: • **0**—Inbound • **1**—Outbound • **2**—Both	Default value is 2
InPktType	Inbound packet type	N/A	Enumeration: • **1**—Broadcast • **2**—Multicast • **3**—Broadcast,Multicast • **4**—Unicast • **5**—Broadcast,Unicast • **6**—Multicast,Unicast • **7**—Broadcast,Multicast,Unicast	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutPktType	Outbound packet type	N/A	Enumeration: • **1**—Broadcast • **2**—Multicast • **3**—Broadcast,Multicast • **4**—Unicast • **5**—Broadcast,Unicast • **6**—Multicast,Unicast • **7**—Broadcast,Multicast,Unicast	N/A

IPFW/IPFWForwardConverseLearn

This table contains information about conversational learning for IP forwarding.

XML structure

```
<IPFW>
  <IPFWForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </IPFWForwardConverseLearn>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether conversational learning for host route FIB entries is enabled	N/A	Boolean: • **true**. • **false** (default).	N/A
AgingTime	Aging time for host route FIB entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes. Default: 60.	N/A

IPFW/IPFWMTU

This table contains IPV4 interface MTU information.

XML structure

```
<IPFW>
  <IPFWMTU>
    <MTU>
      <IfName></IfName>
      <MTU></MTU>
    </MTU>
  </IPFWMTU>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWMTU
Table type	Multi-instance table
Row name	MTU
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	Only Layer 3 interfaces are supported.
MTU	Interface MTU	N/A	Unsigned integer. • Value range: minimum MTU to maximum MTU.	Applicable to only Layer 3 interfaces. The minimum MTU and the maximum MTU value depend on the device and the interface type.

IPFW/IPFWErrorEnable

This table contains interface-specific IPv4 and IPv6 error statistics collection configuration.

XML structure

```
<IPFW>
  <IPFWErrorEnable>
 <ErrorEnable>
    <in-L2-MTU-errors></in-L2-MTU-errors>
    <out-L2-MTU-errors></out-L2-MTU-errors>
    <in-vlan-mismatch-errors></in-vlan-mismatch-errors>
    <out-vlan-mismatch-errors></out-vlan-mismatch-errors>
    <in-spanningtree-errors></in-spanningtree-errors>
    <out-spanningtree-errors></out-spanningtree-errors>
    <in-same-interface-errors></in-same-interface-errors>
    <in-L3-header-errors></in-L3-header-errors>
    <in-L3-ttl-errors></in-L3-ttl-errors>
    <in-storm-control-errors></in-storm-control-errors>
    <in-L3-rib-errors></in-L3-rib-errors>
    <in-L3-nexthop-errors></in-L3-nexthop-errors>
    <in-L3-MTU-errors></in-L3-MTU-errors>
    <in-ACL-errors></in-ACL-errors>
    <out-ACL-errors></out-ACL-errors>
    <in-checksum-errors></in-checksum-errors>
    <out-checksum-errors></out-checksum-errors>
```

```
    <in-illegal-interface-errors></in-illegal-interface-errors>
    <in-L3-header-ipv6-errors></in-L3-header-ipv6-errors>
    <in-L3-rib-ipv6-errors></in-L3-rib-ipv6-errors>
    </ErrorEnable>
  </IPFWErrorEnable>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWErrorEnable
Table type	Single-instance table
Row name	ErrorEnable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
in-L2-MTU-errors	Monitor L2MTU packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-L2-MTU-errors	Monitor L2MTU packet loss in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-vlan-mismatch-errors	Monitor the inbound VLAN mismatch and packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-vlan-mismatch-errors	Monitor packet loss due to VLAN mismatch in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-spanningtree-errors	Monitoring the incoming spanning tree to filter packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-spanningtree-errors	Monitoring the outgoing direction spanning tree filtering packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-same-interface-errors	Monitor incoming source incoming and outgoing packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-header-errors	Monitor the incoming L3 header error packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-ttl-errors	Monitor incoming L3 ttl0/ttll packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-storm-control-errors	Monitor incoming storm control and filter packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-rib-errors	Monitor L3 packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-nexthop-errors	Monitor next-hop packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-L3-MTU-errors	Monitor L3 mtu packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-ACL-errors	Monitor incoming ACL packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-ACL-errors	Monitor acl packet loss in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-checksum-errors	Monitor incoming parity error and packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-checksum-errors	Check the error packet loss when monitoring the outgoing direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

IPFW/BPA

This table enables the BGP policy accounting function.

XML structure

```
<IPFW>
  <BPA>
    <Accounting>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Classification></Classification>
    </Accounting>
  </BPA>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPA
Table type	Single-instance table
Row name	Accounting
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Classification	Basis of IP traffic classification	N/A	Enumeration: • **0**—destination • **1**—source	N/A

IPFW/IPFWEcmpMode

This table contains the forwarding ecmp mode information.

XML structure

```
<IPFW>
  <IPFWEcmpMode>
    <EcmpMode></EcmpMode>
     <FlowSetInactiveTime></FlowSetInactiveTime>
    <FlowSetInactiveSize></FlowSetInactiveSize>
    <FlowSetInactiveHashMode></FlowSetInactiveHashMode>
  </IPFWEcmpMode>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWEcmpMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EcmpMode		N/A	Enumeration: • 0—Disable(default) • **1**—Compressed • **2**—Eligible • 3—Enhanced • 4—Fixed • 5—Spray • 6—Fir	N/A
FlowSetInactiveTime		N/A	Unsigned integer. Value range:customed, in microseconds.	Used when the “EcmpMode” column is 2 or 6.
FlowSetInactiveSize		N/A	Unsigned integer. Value range:customed, in bytes.	Used when the “EcmpMode” column is 6.
FlowSetInactiveHashMode		N/A	Enumeration: • **0**—Eligible • **1**—Fixed • **2**—Spray(default)	Used when the “EcmpMode” column is 6.

IPFW/FIBConsistencyTable

This table contains the information about FIB consistency check.

XML structure

```
<IPFW>
  <FIBConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </FIBConsistencyTable>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	FIBConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether FIB consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

Contents

IPFW 1

IPFW/IPFWLoadSharing 1
XML structure 1
Table description 2
Columns for B64 2
Columns for B70 3
IPFW/IPFWSpecification 5
XML structure 5
Table description 6
Columns 6
IPFW/IPFWLastHopHold 7
XML structure 7
Table description 8
Columns 8
IPFW/IPFWSetService 8
XML structure 8
Table description 9
Columns 9
IPFW/IPFWLastHopBackupSwitch 9
XML structure 9
Table description 10
Columns 10
IPFW/IPFWTcpMss 10
XML structure 10
Table description 11
Columns 11
IPFW/IPFWDFSet 11
XML structure 11
Table description 12
Columns 12
IPFW/IPFWSymmetric 12
XML structure 12
Table description 13
Columns 13
IPFW/IPFWFwdPolicy 13
XML structure 13
Table description 13
Columns 14
IPFW/IPFWFwdPolicySpecification 14
XML structure 14
Table description 14
Columns 15
IPFW/IPFWDFSpecification 15
XML structure 15
Table description 15
Columns 16
IPFW/IPFWSetStatistic 16
XML structure 16
Table description 16
Columns 17
IPFW/IPStatistic 18
XML structure 18
Table description 19
Columns 19
IPFW/IPFWForwardConverseLearn 20
XML structure 20
Table description 21

Columns ····· 21
IPFW/IPFWMTU ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22
IPFW/IPFWErrorEnable ····· 22
XML structure ····· 22
Table description ····· 23
Columns ····· 23
IPFW/BPA ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
IPFW/BPAStatistic ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
IPFW/BPAGlobalStatistic ····· 28
XML structure ····· 28
Table description ····· 29
Columns ····· 29
IPFW/IPFWEcmpMode ····· 29
XML structure ····· 30
Table description ····· 30
Columns ····· 30
IPFW/FIBConsistencyTable ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 32

IPFW

IPFW/IPFWLoadSharing

This table contains load sharing information.

XML structure

B64 表格式

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <AlgorithmNum></AlgorithmNum>
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

B70&V9 表格式

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <DeviceNode>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      </DeviceNode>
      <AlgorithmNum></AlgorithmNum>
      <Seed></Seed>
      <Shift></Shift>
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
```

```
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
      <FlowLabel></FlowLabel>
      <TunnelOuter></TunnelOuter>
      <TunnelInner></TunnelInner>
      <TunnelAll></TunnelAll>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLoadSharing
Table type	Multi-instance table
Row name	LoadSharing
Restrictions	None

Columns for B64

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Type	Method for obtaining the IPv4 address	N/A	Enumeration: • **1**—PACKET. • **2**—FLOW. • **3**—ALGORITHM	N/A
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestIp	Load sharing based on destination IP address	N/A	Boolean: • **true** • **false**	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: • **true** • **false**	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: • **true** • **false**	N/A
DestPort	Load sharing based on destination port.	N/A	Boolean: • **true** • **false**	N/A
SrcPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: • **true** • **false**	N/A

Columns for B70

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	Global configuration if equals to 65535
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	Global configuration if equals to 65535
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	Value range is 0 to 7

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	IP-forwarding Load-sharing mode	Index	Enumeration: • **0**—DEFAULT • **1**—PACKET. • **2**—FLOW. • **3**—ALGORITHM • 4—TUNNEL	0:Restore default configuration. 1:Configuration type only 2:Can only be configured DestIp , SrcIp , IpPro , DestPort, SrcPort, IngressPort ; 3: Can only be configured AlgorithmNum, Seed, Shift 4: Can only be configured Tunnlemode
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	Default value 4294967295
Seed	The start hash value for the load-sharing algorithm	N/A	Unsigned integer.	Default value is set by user
Shift	The offset value for the load-sharing calculation result	N/A	Unsigned integer.	Default value is set by user
DestIp	Load sharing based on destination IP address	N/A	Boolean: • **true** • **false**	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: • **true** • **false**	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestPort	Load sharing based on destination port.	N/A	Boolean: • **true** • **false**	N/A
SrcPort	Load sharing based on destination port	N/A	Boolean: • **true** • **false**	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: • **true** • **false**	N/A
FlowLabel	Load sharing based on flow label	N/A	Boolean: • **true** • **false**	N/A
Tunnleouter	Load sharing based on tunnel outer	N/A	Boolean: • **true** • **false**	N/A
TunnelInner	Load sharing based on tunnel inner	N/A	Boolean: • **true** • **false**	N/A
TunnelAll	Load sharing based on tunnel all	N/A	Boolean: • **true** • **false**	N/A

IPFW/IPFWSpecification

This table contains load-sharing support information.

XML structure

```
<IPFW>
  <IPFWSpecification>
    <LoadSharingSupportFlow></LoadSharingSupportFlow>
    <LoadSharingSuportPacket></LoadSharingSuportPacket>
    <LoadSharingSuportSwitch></LoadSharingSuportSwitch>
    <LoadSharingSuportDestIp></LoadSharingSuportDestIp>
    <LoadSharingSuportSrcIp></LoadSharingSuportSrcIp>
    <LoadSharingSuportIpPro></LoadSharingSuportIpPro>
```

```
    <LoadSharingSuportDestPort></LoadSharingSuportDestPort>
    <LoadSharingSuportSrcPort></LoadSharingSuportSrcPort>
    <LoadSharingSuportIngressPort></LoadSharingSuportIngressPort>
    <SupportLastHop></SupportLastHop>
    <SupportLastHopBackup></SupportLastHopBackup>
  </IPFWSpecification>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadSharingSupportFlow	Support load sharing based on flow.	N/A	Boolean: • true • false	N/A
LoadSharingSupportPacket	Support load sharing based on packet.	N/A	Boolean: • true • false	N/A
LoadSharingSupportSwitch	Support load sharing based on switch.	N/A	Boolean: • true • false	N/A
LoadSharingSupportDestIp	Support load sharing based on destination IP address.	N/A	Boolean: • true • false	N/A
LoadSharingSupportSrcIp	Support load sharing based on source IP address.	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadSharingSupportIpPro	Support load sharing based on IP protocol.	N/A	Boolean: • true • false	N/A
LoadSharingSupportDestPort	Support load sharing based on destination port.	N/A	Boolean: • true • false	N/A
LoadSharingSupportSrcPort	Support load sharing based on source port.	N/A	Boolean: • true • false	N/A
LoadSharingSupportIngressPort	Support load sharing based on ingress port.	N/A	Boolean: • true • false	N/A
SupportLastHop	Support last hop.	N/A	Boolean: • true • false	N/A
SupportLastHopBackup	Support last hop backup.	N/A	Boolean: • true • false	N/A

IPFW/IPFWLastHopHold

This table contains last hop holding information.

XML structure

```
<IPFW>
  <IPFWLastHopHold>
    <LastHopHold>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHold>
  </IPFWLastHopHold>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLastHopHold
Table type	Multi-instance table
Row name	LastHopHold
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	Enabling status of the last hop holding feature	N/A	Unsigned integer: • **1**—Enabled. • **2**—Disabled.	N/A

IPFW/IPFWSetService

This table contains IP service information.

XML structure

```
<IPFW>
  <IPFWSetService>
    <DscpEnable></DscpEnable>
    <VpnPeerIdEnable></VpnPeerIdEnable>
```

```
    <MplsExpEnable></MplsExpEnable>
  </IPFWSetService>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetService
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DscpEnable	Enabling status of the DSCP service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
VpnPeerIdEnable	Enabling status of the VPN peer ID service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MplsExpEnable	Enabling status of the MPLS EXP service	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPFW/IPFWLastHopBackupSwitch

This table contains IP last hop backup information.

XML structure

```
<IPFW>
  <IPFWLastHopBackupSwitch>
    <BackupEnable></BackupEnable>
  </IPFWLastHopBackupSwitch>
```

```
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLastHopBackupSwitch
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupEnable	Enable last hop backup	N/A	Enumeration: • **1**—Enable. • **2**—Disable.	N/A

IPFW/IPFWTcpMss

This table contains interface TCP MSS information.

XML structure

```
<IPFW>
  <IPFWTcpMss>
    <TcpMss>
      <IfIndex></IfIndex>
      <Num></Num>
    </TcpMss>
  </IPFWTcpMss>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWTcpMss
Table type	Multi-instance table
Row name	TcpMss
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Num	TCP max segment size	N/A	Unsigned integer. Value range: 128 to 65535.	The maximum value is the maximum MTU that the interface supports minus 40.

IPFW/IPFWDFSet

This table contains packet DF bit information.

XML structure

```
<IPFW>
  <IPFWDFSet>
      <IPDFBit></IPDFBit>
```

```
  </IPFWDFSet>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWDFSet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPDFBit	Setting of the DF bit	N/A	Enumeration: • **0**—DISABLE. • **1**—SET. • **2**—CLEAR.	N/A

IPFW/IPFWSymmetric

This table contains IP symmetric forwarding.

XML structure

```
<IPFW>
  <IPFWSymmetric>
    <Symmetric>
      <SymmetricMode></SymmetricMode>
    </Symmetric>
  </IPFWSymmetric>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSymmetric
Table type	Multi-instance table
Row name	None
Restrictions	None
Item	Description

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Symmetric	Enabling status of the symmetric forwarding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPFW/IPFWFwdPolicy

This table contains the forwarding policy information.

XML structure

```
<IPFW>
  <IPFWFwdPolicy>
    <FwdPolicy></FwdPolicy>
  </IPFWFwdPolicy>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWFwdPolicy

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FwdPolicy	Get the current forwarding policy	N/A	Unsigned integer Value range: 1 to 4. • **1**—Per-flow forwarding policy. • **2**—Per-packet forwarding policy. • **3**—Three-tuple-based per-flow forwarding policy. • **4**—Enhanced per-flow forwarding policy.

IPFW/IPFWFwdPolicySpecification

This table contains specification information.

XML structure

```
<IPFW>
  <IPFWFwdPolicySpecification>
    <SupportPolicyMode></SupportPolicyMode>
    <SupportThreeTuple></SupportThreeTuple>
    <SupportEnhance></SupportEnhance>
  </IPFWFwdPolicySpecification>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWFwdPolicySpecification
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportPolicyMode	Whether the policy mode switchover is supported	N/A	Boolean: • true. • false.
SupportThreeTuple	Whether the three-tuple-based per-flow forwarding mode is supported	N/A	Boolean: • true. • false.
SupportEnhance	Whether the enhanced per-flow forwarding mode is supported	N/A	Boolean: • true. • false.

IPFW/IPFWDFSpecification

This table contains DF specification information.

XML structure

```
<IPFW>
  <IPFWDFSpecification>
    <SupportIPDF></SupportIPDF>
  </IPFWDFSpecification>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWDFSpecification

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportIPDF	Whether the IPDF is supported	N/A	Boolean: • true. • false.

IPFW/IPFWSetStatistic

This table contains interface-specific IPv4 and IPv6 statistics collection configuration.

XML structure

```
<IPFW>
  <IPFWSetStatistic>
    <SetStatistic>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <Direct></Direct>
      <InPktType></InPktType>
      <OutPktType></OutPktType>
    </SetStatistic>
  </IPFWSetStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetStatistic
Table type	Multi-instance table

Row name	SetStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enabling status of the statistics collection	N/A	Unsigned integer • **1**—Enabled • **2**—Disabled	Default value is 2
Direct	Traffic direction	N/A	Enumeration: • **0**—Inbound • **1**—Outbound • **2**—Both	Default value is 2
InPktType	Inbound packet type	N/A	Enumeration: • **1**—Broadcast • **2**—Multicast • **3**—Broadcast,Multicast • **4**—Unicast • **5**—Broadcast,Unicast • **6**—Multicast,Unicast • **7**—Broadcast,Multicast,Unicast	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutPktType	Outbound packet type	N/A	Enumeration: • **1**—Broadcast • **2**—Multicast • **3**—Broadcast,Multicast • **4**—Unicast • **5**—Broadcast,Unicast • **6**—Multicast,Unicast • **7**—Broadcast,Multicast,Unicast	N/A

IPFW/IPStatistic

This table shows statistics information about IPv4 and IPv6 packets.

XML structure

```
<IPFW>
  <IPStatistic>
    <Statistic>
      <IfIndex></IfIndex>
      <Type></Type>
      <InPackets></InPackets>
      <InPacketsRate></InPacketsRate>
      <InBytes></InBytes>
      <InBytesRate></InBytesRate>
      <InMcastPackets></InMcastPackets>
      <InMcastBytes></InMcastBytes>
      <InBcastPackets></InBcastPackets>
      <OutPackets></OutPackets>
      <OutPacketsRate></OutPacketsRate>
      <OutBytes></OutBytes>
      <OutBytesRate></OutBytesRate>
      <OutMcastPackets></OutMcastPackets>
      <OutMcastBytes></OutMcastBytes>
      <OutBcastPackets></OutBcastPackets>
    </Statistic>
  </IPStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPStatistic
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Type	IP version	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
InPackets	Received packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InPacketsRate	Packet receiving rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InBytes	Received bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InBytesRate	Byte receiving rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InMcastPackets	Received multicast packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InMcastBytes	Received multicast bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InBcastPackets	Received broadcast packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutPackets	Sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutPacketsRate	Packet sending rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutBytes	Sent bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutBytesRate	Byte sending rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutMcastPackets	Sent multicast packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutMcastBytes	Sent multicast bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutBcastPackets	Sent broadcast packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IPFW/IPFWForwardConverseLearn

This table contains information about conversational learning for IP forwarding.

XML structure

```
<IPFW>
  <IPFWForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
    <AgingTime></AgingTime>
  </IPFWForwardConverseLearn>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWForwardConverseLearn
Table type	Single-instance table
Row name	ForwardConverseLearn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether conversational learning for host route FIB entries is enabled	N/A	Boolean: • **true**. • **false**.	N/A
AgingTime	Aging time for host route FIB entries	N/A	Unsigned integer. Value range: 60 to 1440, in minutes.	N/A

IPFW/IPFWMTU

This table contains IPV4 interface MTU information.

XML structure

```
<IPFW>
  <IPFWMTU>
    <MTU>
      <IfName></IfName>
      <MTU></MTU>
    </MTU>
  </IPFWMTU>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWMTU
Table type	Multi-instance table
Row name	MTU
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	Only Layer 3 interfaces are supported.
MTU	Interface MTU	N/A	Unsigned integer. • Value range: minimum MTU to maximum MTU.	Applicable to only Layer 3 interfaces. The minimum MTU and the maximum MTU value depend on the device and the interface type.

IPFW/IPFWErrorEnable

This table contains interface-specific IPv4 and IPv6 error statistics collection configuration.

XML structure

```
<IPFW>
  <IPFWErrorEnable>
  <ErrorEable>
    <in-L2-MTU-errors></in-L2-MTU-errors>
    <out-L2-MTU-errors></out-L2-MTU-errors>
    <in-vlan-mismatch-errors></in-vlan-mismatch-errors>
    <out-vlan-mismatch-errors></out-vlan-mismatch-errors>
    <in-spanningtree-errors></in-spanningtree-errors>
    <out-spanningtree-errors></out-spanningtree-errors>
```

```
    <in-same-interface-errors></in-same-interface-errors>
    <in-L3-header-errors></in-L3-header-errors>
    <in-L3-ttl-errors></in-L3-ttl-errors>
    <in-storm-control-errors></in-storm-control-errors>
    <in-L3-rib-errors></in-L3-rib-errors>
    <in-L3-nexthop-errors></in-L3-nexthop-errors>
    <in-L3-MTU-errors></in-L3-MTU-errors>
    <in-ACL-errors></in-ACL-errors>
    <out-ACL-errors></out-ACL-errors>
    <in-checksum-errors></in-checksum-errors>
    <out-checksum-errors></out-checksum-errors>
    <in-illegal-interface-errors></in-illegal-interface-errors>
    <in-L3-header-ipv6-errors></in-L3-header-ipv6-errors>
    <in-L3-rib-ipv6-errors></in-L3-rib-ipv6-errors>
    </ErrorEnable>
  </IPFWErrorEnable>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWErrorEnable
Table type	Single-instance table
Row name	ErrorEnable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
in-L2-MTU-errors	Monitor L2MTU packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-L2-MTU-errors	MonitorL2MTU packet loss in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-vlan-mismatch-errors	Monitor the inbound VLAN mismatch and packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-vlan-mismatch-errors	Monitor packet loss due to VLAN mismatch in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-spanningtree-errors	Monitoring the incoming spanning tree to filter packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-spanningtree-errors	Monitoring the outgoing direction spanning tree filtering packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-same-interface-errors	Monitor incoming source incoming and outgoing packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-header-errors	Monitor the incoming L3 header error packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-ttl-errors	Monitor incoming L3 ttl0/ttll packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-storm-control-errors	Monitor incoming storm control and filter packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-L3-rib-errors	Monitor L3 packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-nexthop-errors	Monitor next-hop packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-MTU-errors	Monitor L3 mtu packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-ACL-errors	Monitor incoming ACL packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-ACL-errors	Monitor acl packet loss in the outbound direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-checksum-errors	Monitor incoming parity error and packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
out-checksum-errors	Check the error packet loss when monitoring the outgoing direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-illegal-interface-errors	Monitor the inbound port bitmap as 0 packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A
in-L3-header-ipv6-errors	Monitor the incoming L3 header ipv6 error packet loss	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-L3-rib-ipv6-errors	Monitor L3 ipv6 packet loss in the incoming direction	N/A	Unsigned integer • **1**—Enabled. • **2**—Disabled.	N/A

IPFW/BPA

This table enables the BGP policy accounting function.

XML structure

```
<IPFW>
  <BPA>
    <Accounting>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Classification></Classification>
    </Accounting>
  </BPA>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPA
Table type	Single-instance table
Row name	Accounting
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Classification	Basis of IP traffic classification	N/A	Enumeration: • **0**—destination • **1**—source	N/A

IPFW/BPAStatistic

This table contains IPv4 BGP policy statistics on an interface.

XML structure

```
<IPFW>
  <BPAStatistic>
    <Statistic>
      <IfIndex></IfIndex>
      <TrafficIndex></TrafficIndex>
      <Direction></Direction>
      <Packets></Packets>
      <PacketBytes></PacketBytes>
      <PacketsRate></PacketsRate>
      <PacketBitsRate></PacketBitsRate>
    </Statistic>
  </BPAStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPAstatistic
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
TrafficIndex	Traffic index	Index	Unsigned integer.	The traffic index range varies by product.
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBytes	Number of bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketsRate	Packet rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBitsRate	Bit rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IPFW/BPAGlobalStatistic

This table contains IPv4 BGP policy statistics on an interface.

XML structure

```
<IPFW>
  <BPAGlobalStatistic>
    <Statistic>
      <TrafficIndex></TrafficIndex>
      <Direction></Direction>
      <Packets></Packets>
      <PacketBytes></PacketBytes>
      <PacketsRate></PacketsRate>
      <PacketBitsRate></PacketBitsRate>
    </Statistic>
  </BPAGlobalStatistic>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	BPAGlobalStatistic
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficIndex	Traffic index	Index	Unsigned integer.	The traffic index range varies by product.
Direction	Traffic direction	Index	Enumeration: • **1**—Input • **2**—Output	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBytes	Number of bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketsRate	Packet rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketBitsRate	Bit rate	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IPFW/IPFWEcmpMode

This table contains the forwarding ecmp mode information.

XML structure

```
<IPFW>
  <IPFWEcmpMode>
    <EcmpMode></EcmpMode>
     <FlowSetInactiveTime></FlowSetInactiveTime>
    <FlowSetInactiveSize></FlowSetInactiveSize>
    <FlowSetInactiveHashMode></FlowSetInactiveHashMode>
  </IPFWEcmpMode>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWEcmpMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EcmpMode		N/A	Enumeration: • **0**—Disable(default) • **1**—Compressed • **2**—Eligible • **3**—Enhanced • **4**—Fixed • **5**—Spray • **6**—Fir	N/A
FlowSetInactiveTime		N/A	Unsigned integer. Value range:customed, in microseconds.	Used when the “EcmpMode” column is 2 or 6.

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowSetInactiveSize		N/A	Unsigned integer. Value range:customed, in bytes.	Used when the “EcmpMode” column is 6.
FlowSetInactiveHashMode		N/A	Enumeration: • **0**—Eligible • **1**—Fixed • **2**—Spray(default)	Used when the “EcmpMode” column is 6.

IPFW/FIBConsistencyTable

This table contains the information about FIB consistency check.

XML structure

```
<IPFW>
  <FIBConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </FIBConsistencyTable>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	FIBConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether FIB consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

IPFW 1
IPFW/IPFWSetStatistic 1
IPFW/IPFWForwardConverseLearn 1
IPFW/IPFWMTU 2

IPFW

IPFW/IPFWSetStatistic

Message	Explanation
The current interface does not support this operation. 当前接口下不支持该操作。	It does not support configuring statistics collection for IPv4 and IPv6 packets on current interface. 当前接口下不支持配置 IPv4 和 IPv6 报文统计信息功能。
This device does not customize configuring statistics collection for IPv4 and IPv6 packets. 本设备没有定制配置IPv4和IPv6报文统计功能。	This device does not customize configuring statistics collection for IPv4 and IPv6 packets. 本设备没有定制配置IPv4和IPv6报文统计功能。
This device does not customize configuring statistics collection for IPv4 and IPv6 packets on inbound. 本设备没有定制配置入方向上IPv4和IPv6报文统计功能。	This device does not customize configuring statistics collection for IPv4 and IPv6 packets on inbound. 本设备没有定制配置入方向上 IPv4 和 IPv6 报文统计功能。
This device does not customize configuring statistics collection for IPv4 and IPv6 packets on outbound. 本设备没有定制配置出方向上IPv4和IPv6报文统计功能。	This device does not customize configuring statistics collection for IP and IPv6 packets on outbound. 本设备没有定制配置出方向上 IPv4 和 IPv6 报文统计功能。
This device does not customize configuring statistics collection for IPv4 and IPv6 packets on both bound. 本设备没有定制配置入出双方向上IPv4和IPv6报文统计功能。	This device does not customize configuring statistics collection for IPv4 and IPv6 packets on both bound. 本设备没有定制配置入出双方向上 IPv4 和 IPv6 报文统计功能。
Not enough resources to complete the operation. 资源不足。	Not enough resources to complete the operation. 资源不足。

IPFW/IPFWForwardConverseLearn

Message	Explanation
When conversational learning for IP forwarding is disabled, the aging time of entries must be the default value. 当报文转发时下发主机路由FIB表项功能处于关闭状态时，表项的老化时间必须是默认值。	When conversational learning for IP forwarding is disabled, the aging time of entries must be the default value. 当报文转发时下发主机路由 FIB 表项功能处于关闭状态时，表项的老化时间必须是默认值。

IPFW/IPFWMTU

Message	Explanation
The value is out of range. 配置的值超过上限。	The value is out of range. Please check the configuration or specifications. 配置的值超过上限,请检查配置。

Contents

TcpHandshaking event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1

TcpHandshaking event

This event is used to report TCP handshake packet information encoded by Base64.

XML structure for event subscription

```
<TcpHandshakingEvent>
</TcpHandshakingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ipfw_event</stream>
    <filter type="subtree">
      <TcpHandshakingEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipfw_event:1.0">
      </TcpHandshakingEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ipfw_event
Event name	TcpHandshakingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ipfw_event:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries

XML structure for event report

```
<TcpHandshakingEvent>
  <DataBase64>
  </DataBase64>
</TcpHandshakingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TcpHandshakingEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipfw_event:1.0">
```

```
    <DataBase64>AOD8AGhRABAUAAAQgQAP/wgARQAAbr3mAAD/Bt6PEAAACg8AAAoEAAQAAAHiQAADlEdQEB
    AA9GEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGVRpGCIX
    LKArS6SPWZeWErhCr0=</DataBase64>
  </TcpHandshakingEvent>
</notification>
```


Columns

Column name	Column description	Data type and restrictions	Support for extended queries
DataBase64	TCP handshake packet information encoded by Base64.	String. Value range: 1 to 65535.	No

Contents

IPoE 1
IPoE/IPoEv4ResetAccessUser 1
XML structure 1
Table description 1
Columns 1
IPoE/IPoEv6ResetAccessUser 2
XML structure 2
Table description 2
Columns 2
IPoE/IPoEExportWhiteList 2
XML structure 3
Table description 3
Columns 3
IPoE/IPoEImportWhiteList 3
XML structure 3
Table description 4
Columns 4

IPoE

IPoE/IPoEv4ResetAccessUser

This table contains resetting the IPoEv4 access user.

XML structure

```
<IPoE>
  <IPoEv4ResetAccessUser>
    <ResetAccessUser>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
    </ResetAccessUser>
  </IPoEv4ResetAccessUser>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4ResetAccessUser
Table type	Multi-instance table
Row name	ResetAccessUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A

IPoE/IPoEv6ResetAccessUser

This table contains resetting the IPoEv6 access user.

XML structure

```
<IPoE>
  <IPoEv6ResetAccessUser>
    <ResetAccessUser>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
    </ResetAccessUser>
  </IPoEv6ResetAccessUser>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6ResetAccessUser
Table type	Multi-instance table
Row name	ResetAccessUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A

IPoE/IPoEExportWhiteList

This table contains exporting the IPoE whitelist.

XML structure

```
<IPoE>
  <IPoEExportWhiteList>
    <ExportWhiteList>
      <IPType></IPType>
      <Url></Url>
    </ExportWhiteList>
  </IPoEExportWhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEExportWhiteList
Table type	Multi-instance table
Row name	ExportWhiteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
Url	Name of the destination .csv file to which the whitelist is exported to.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

IPoE/IPoEImportWhiteList

This table contains importing the IPoE whitelist.

XML structure

```
<IPoE>
  <IPoEImportWhiteList>
    <ImportWhiteList>
      <IPType></IPType>
      <Url></Url>
```

```
    </ImportWhiteList>
  </IPoEImportWhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEImportWhiteList
Table type	Multi-instance table
Row name	ImportWhiteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
Url	Name of the destination .csv file from which the whitelist is imported.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage.

Contents

IPoE 1
IPoE/IFConfig 1
XML structure 1
Table description 1
Columns 1
IPoE/IPoEAccessLog 2
XML structure 2
Table description 3
Columns 3
IPoE/IPoEv4WhiteList 3
XML structure 3
Table description 4
Columns 4
IPoE/IPoEv6WhiteList 4
XML structure 5
Table description 5
Columns 5
IPoE/DhcpAuthDomain 6
XML structure 6
Table description 6
Columns 6
IPoE/UnclassifiedIPAuthDomain 7
XML structure 7
Table description 7
Columns 8

IPoE

IPoE/IFConfig

This table contains the information about using IPoE interface config.

XML structure

```
<IPoE>
  <IFConfig>
    <Config>
      <IPType></IPType>
      <Interface></Interface>
      <IPoEMode></IPoEMode>
      <Unclassified></Unclassified>
      <WhiteList></WhiteList>
      <DHCPInitiator></DHCPInitiator>
    </Config>
  </IFConfig>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IFConfig
Table type	Multi-instance table
Row name	Config
Restrictions	Layer 3 aggregate interface/subinterface view Layer 3 Ethernet interface/subinterface view L3VE interface/subinterface view VEth interface/subinterface view VLAN interface view
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPoEMode	IPoE mode.	N/A	Enumeration: • 0—Disable. • 1—L2-Connected. • 2—Routed.	N/A
Unclassified	Unknown source packet triggers the generation of an IPoE session..	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
WhiteList	Enable whitelist.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
DHCPInitiator	Enable DHCP packets to trigger the generation of an IPoE session.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

IPoE/IPoEAccessLog

This table contains the information about using IPoE access log.

XML structure

```
<IPoE>
  <IPoEAccessLog>
    <AccessLog>
      <IPType></IPType>
      <AbnormalLogout></AbnormalLogout>
      <NormalLogout></NormalLogout>
      <FailedLogin></FailedLogin>
      <SuccessfulLogin></SuccessfulLogin>
    </AccessLog>
  </IPoEAccessLog>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEAccessLog
Table type	Multi-instance table
Row name	AccessLog
Restrictions	SystemView
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
AbnormalLogout	Abnormal logout.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NormalLogout	Normal logout.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
FailedLogin	Failed login.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SuccessfulLogin	Successful login.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

IPoE/IPoEv4WhiteList

This table contains the information about using IPoEv4 whitelist.

XML structure

```
<IPoE>
  <IPoEv4WhiteList>
    <WhiteList>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
      <DomainName></DomainName>
```

```
      <Description></Description>
    </WhiteList>
  </IPoEv4WhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4WhiteList
Table type	Multi-instance table
Row name	WhiteList
Restrictions	Layer 3 aggregate interface/subinterface view Layer 3 Ethernet interface/subinterface view L3VE interface/subinterface view VEth interface/subinterface view VLAN interface view
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 mask.	Index	Unsigned integer 1 to 32.	Currently fixed to value 32
DomainName	Domain name of the CHAP mode.	N/A	String. Length: 1 to 255 characters.	N/A
Description	Static description.	N/A	String. Length: 1 to 31 characters.	N/A

IPoE/IPoEv6WhiteList

This table contains the information about using the IPoEv6 whitelist.

XML structure

```
<IPoE>
  <IPoEv6WhiteList>
    <WhiteList>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
      <IPv6Mask></IPv6Mask>
      <DomainName></DomainName>
      <Description></Description>
    </WhiteList>
  </IPoEv6WhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6WhiteList
Table type	Multi-instance table
Row name	WhiteList
Restrictions	Layer 3 aggregate interface/subinterface view Layer 3 Ethernet interface/subinterface view L3VE interface/subinterface view VEth interface/subinterface view VLAN interface view
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
IPv6Mask	IPv6 mask.	Index	Unsigned integer 1 to 128.	Currently fixed to value 128

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name of the CHAP mode.	N/A	String. Length: 1 to 255 characters.	N/A
Description	Static description.	N/A	String. Length: 1 to 31 characters.	N/A

IPoE/DhcpAuthDomain

This table contains the information about configuring the IPoE DHCP authentication domain.

XML structure

```
<IPoE>
  <DhcpAuthDomain>
    <AuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </AuthDomain>
  </DhcpAuthDomain>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	DhcpAuthDomain
Table type	Multi-instance table
Row name	AuthDomain
Restrictions	Layer 3 aggregate interface/subinterface view Layer 3 Ethernet interface/subinterface view L3VE interface/subinterface view VEth interface/subinterface view VLAN interface view
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

IPoE/UnclassifiedIPAuthDomain

This table contains the information about configuring the IPoE unclassified-IP authentication domain.

XML structure

```
<IPoE>
  <UnclassifiedIPAuthDomain>
    <AuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </AuthDomain>
  </UnclassifiedIPAuthDomain>
</IPoE>
```

Table description

Item	Description
Feature name	UCM
Table name	UnclassifiedIPAuthDomain
Table type	Multi-instance table
Row name	AuthDomain
Restrictions	Layer 3 aggregate interface/subinterface view Layer 3 Ethernet interface/subinterface view L3VE interface/subinterface view VEth interface/subinterface view VLAN interface/subinterface view
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

Contents

IPoE 1

IPoE/IPoESessionTotalStatistics 1
XML structure 1
Table description 1
Columns 1
IPoE/IPoEWebSessionTotalStatistics 2
XML structure 2
Table description 3
Columns 3
IPoE/IPoEDot1xSessionTotalStatistics 3
XML structure 4
Table description 4
Columns 4
IPoE/IPoESubnetLeaseTotalStatistics 5
XML structure 5
Table description 5
Columns 6
IPoE/IPoEIfleaseTotalStatistics 6
XML structure 6
Table description 7
Columns 7
IPoE/IPoESessionStatistics 8
XML structure 8
Table description 8
Columns 9
IPoE/IPoEv4ShowWhiteList 9
XML structure 9
Table description 10
Columns 10
IPoE/IPoEv6ShowWhiteList 11
XML structure 11
Table description 11
Columns 12
IPoE/IFConfig 12
XML structure 12
Table description 13
Columns 13
IPoE/IPoEAccessLog 14
XML structure 14
Table description 14
Columns 14
IPoE/IPoEv4WhiteList 15
XML structure 15
Table description 15
Columns 16
IPoE/IPoEv6WhiteList 16
XML structure 16
Table description 16
Columns 17
IPoE/ IPv4Session 17
XML structure 17
Table description 18
Columns 18
IPoE/DhcpAuthDomain 20
XML structure 20
Table description 20
Columns 20

IPoE/UnclassifiedIPAuthDomain 21
XML structure 21
Table description 21
Columns 21

IPoE

IPoE/IPoESessionTotalStatistics

This table contains IPoE total session statistics accessed by bind authentication method.

XML structure

```
<IPoE>
  <IPoESessionTotalStatistics>
    <SessionTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </SessionTotalStatistics>
  </IPoESessionTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESessionTotalStatistics
Table type	Multi-instance table
Row name	SessionTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • **0**—IPv4 • **1**—IPv6 • **2**—Dual-stack	IPv4, IPv6, or DS
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEWebSessionTotalStatistics

This table contains IPoE total session statistics accessed by web authentication method.

XML structure

```
<IPoE>
  <IPoEWebSessionTotalStatistics>
    <WebSessionTotalStatistics>
      <IpType></IpType>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </WebSessionTotalStatistics>
  </IPoEWebSessionTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEWebSessionTotalStatistics
Table type	Multi-instance table
Row name	WebSessionTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • **0**—IPv4 • **1**—IPv6 • **2**—Dual-stack	IPv4, IPv6, or DS
AuthPhase	Authentication phase.	Index	Enumeration: • **1**—Web preauth • **2**—Web	Web preauth or Web
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEDot1xSessionTotalStatistics

This table contains IPoE total session statistics accessed by dot1x authentication method.

XML structure

```
<IPoE>
  <IPoEDot1xSessionTotalStatistics>
    <Dot1xSessionTotalStatistics>
      <IpType></IpType>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </Dot1xSessionTotalStatistics>
  </IPoEDot1xSessionTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEDot1xSessionTotalStatistics
Table type	Multi-instance table
Row name	Dot1xSessionTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • **0**—IPv4 • **1**—IPv6 • **2**—Dual-stack	IPv4, IPv6, or DS
AuthPhase	Authentication phase.	Index	Enumeration: • **1**—Dot1x preauth • **2**—Dot1x	Dot1x preauth or Dot1x
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	authenticated.			
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoESubnetLeaseTotalStatistics

This table contains IPoE subnet-leased total user statistics.

XML structure

```
<IPoE>
  <IPoESubnetLeaseTotalStatistics>
    <SubnetLeaseTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </SubnetLeaseTotalStatistics>
  </IPoESubnetLeaseTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESubnetLeaseTotalStatistics
Table type	Multi-instance table
Row name	SubnetLeaseTotalStatistics

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • **0**—IPv4 • **1**—IPv6 • **2**—Dual-stack	IPv4, IPv6, or DS
TotalNum	Total number of subnet-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of subnet-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of subnet-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of subnet-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of subnet-leased users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of subnet-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online subnet-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of subnet-leased users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEIfleaseTotalStatistics

This table contains IPoE interface-leased total user statistics.

XML structure

```
<IPoE>
  <IPoEIfleaseTotalStatistics>
    <IfleaseTotalStatistics>
```

```
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </IfleaseTotalStatistics>
  </IPoEIfleaseTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEIfleaseTotalStatistics
Table type	Multi-instance table
Row name	IfleaseTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type	Index	Enumeration: • **0**—IPv4 • **1**—IPv6 • **2**—Dual-stack	IPv4, IPv6, or DS
TotalNum	Total number of interface-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of interface-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of interface-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of interface-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of interface-leased users who passed	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication.			
AssignIPNum	Number of interface-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online interface-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of interface-leased users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoESessionStatistics

This table contains IPoE session statistics accessed by bind authentication method.

XML structure

```
<IPoE>
  <IPoESessionStatistics>
    <SessionStatistics>
      <IPType></IPType>
      <Interface></Interface>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
    </SessionStatistics>
  </IPoESessionStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESessionStatistics
Table type	Multi-instance table
Row name	SessionStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	Protocol type.	Index	Enumeration: • 1—IPv4 • 2—IPv6	IPv4 or IPv6
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A

IPoE/IPoEv4ShowWhiteList

This table contains displaying the IPv4 IPoE whitelist.

XML structure

```
<IPoE>
  <IPoEv4ShowWhiteList>
    <ShowWhiteList>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
      <Mask></Mask>
```

```
      <MACAddress></MACAddress>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <Description></Description>
    </ShowWhiteList>
  </IPoEv4ShowWhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4ShowWhiteList
Table type	Multi-instance table
Row name	ShowWhiteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Mask	Mask.	Index	Unsigned integer 1 to 32	Currently fixed to value 32
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
ServiceVLAN	Service provider VLAN.	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN.	N/A	Unsigned short.	N/A
LoginTime	User login time.	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss This function is not

Column name	Column description	Column type	Data type and restrictions	Remarks
				supported in data plane mode.
OnlineTime	User online duration.	N/A	String. Length: 1 to 8 characters.	Example: hh:mm:ss 00:00:06
Description	Description for the user.	N/A	String. Length: 1 to 31 characters.	This function is not supported in data plane mode.

IPoE/IPoEv6ShowWhiteList

This table contains displaying the IPv6 IPoE whitelist.

XML structure

```
<IPoE>
  <IPoEv6ShowWhiteList>
    <ShowWhiteList>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
      <Mask></Mask>
      <MACAddress></MACAddress>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <Description></Description>
    </ShowWhiteList>
  </IPoEv6ShowWhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6ShowWhiteList
Table type	Multi-instance table
Row name	ShowWhiteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Mask	Mask.	Index	Unsigned integer 1 to 128	Currently fixed to value 128
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
ServiceVLAN	Service provider VLAN.	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN.	N/A	Unsigned short.	N/A
LoginTime	User online duration.	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss This function is not supported in data plane mode.
OnlineTime	User online time.	N/A	String. Length: 1 to 8 characters.	Example: hh:mm:ss 00:00:06
Description	Description for the user.	N/A	String. Length: 1 to 31 characters.	N/A

IPoE/IFConfig

This table contains the information about using IPoE interface config.

XML structure

```
<IPoE>
  <IFConfig>
    <Config>
      <IPType></IPType>
      <Interface></Interface>
```

```
      <IPoEMode></IPoEMode>
      <Unclassified></Unclassified>
      <WhiteList></WhiteList>
      <DHCPInitiator></DHCPInitiator>
    </Config>
  </IFConfig>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IFConfig
Table type	Multi-instance table
Row name	Config
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPoEMode	IPoE mode.	N/A	Enumeration: • 0—Disable. • 1—L2-Connected. • 2—Routed.	N/A
Unclassified	Unknown source packet triggers the generation of an IPoE session..	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
WhiteList	Enable whitelist.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPInitiator	DHCP packets to trigger the generation of an IPoE session.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

IPoE/IPoEAccessLog

This table contains the information about using IPoE access log.

XML structure

```
<IPoE>
  <IPoEAccessLog>
    <AccessLog>
      <IPType></IPType>
      <AbnormalLogout></AbnormalLogout>
      <NormalLogout></NormalLogout>
      <FailedLogin></FailedLogin>
      <SuccessfulLogin></SuccessfulLogin>
    </AccessLog>
  </IPoEAccessLog>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEAccessLog
Table type	Multi-instance table
Row name	AccessLog
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPType	IP type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AbnormalLogout	Abnormal logout.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NormalLogout	Normal logout.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
FailedLogin	Failed login.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SuccessfulLogin	Successful login.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

IPoE/IPoEv4WhiteList

This table contains the information about using IPoEv4 whitelist.

XML structure

```
<IPoE>
  <IPoEv4WhiteList>
    <WhiteList>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
      <DomainName></DomainName>
      <Description></Description>
    </WhiteList>
  </IPoEv4WhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4WhiteList
Table type	Multi-instance table
Row name	WhiteList
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
IPv4Mask	IPv4 mask.	Index	Unsigned integer 1 to 32.	Currently fixed to value 32
DomainName	Domain name of the CHAP mode.	N/A	String. Length: 1 to 255 characters.	N/A
Description	Static description.	N/A	String. Length: 1 to 31 characters.	N/A

IPoE/IPoEv6WhiteList

This table contains the information about using the IPoEv6 whitelist.

XML structure

```
<IPoE>
  <IPoEv6WhiteList>
    <WhiteList>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
      <IPv6Mask></IPv6Mask>
      <DomainName></DomainName>
      <Description></Description>
    </WhiteList>
  </IPoEv6WhiteList>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6WhiteList

Table type	Multi-instance table
Row name	WhiteList
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
IPv6Mask	IPv6 mask.	Index	Unsigned integer 1 to 128.	Currently fixed to value 128
DomainName	Domain name of the CHAP mode.	N/A	String. Length: 1 to 255 characters.	N/A
Description	Static description.	N/A	String. Length: 1 to 31 characters.	N/A

IPoE/ IPv4Session

This table contains IPoE IPv4 sessions.

XML structure

```
<IPoE>
  <IPv4Session>
    <Session>
      <Interface></Interface>
      <IPAddress></IPAddress>
      <MACAddress></MACAddress>
      <UserID></UserID>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <SessionType></SessionType>
      <State></State>
```

```
      <DHCPLeaseTime></DHCPLeaseTime>
      <DeviceName></DeviceName>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
      <UplinkPktNum></UplinkPktNum>
      <UplinkByteNum></UplinkByteNum>
      <DownlinkPktNum></DownlinkPktNum>
      <DownlinkByteNum></DownlinkByteNum>
      <Bytes></Bytes>
      <ReplyBytes></ReplyBytes>
    </Session>
  </IPv4Session>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPv4Session
Table type	Multi-instance table
Row name	Session
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPAddress	IPv4 address	Index	String, dotted decimal notation.	N/A
MACAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
UserID	User ID assigned to a user in online state	N/A	String. Length: 1 to 10 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceVLAN	Service provider VLAN	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN	N/A	Unsigned short.	N/A
SessionType	Session type	N/A	Enumeration: • **0**—NULL • **3**—Static. • **4**—DHCP • **5**—Unclassified-ip	N/A
State	User state	N/A	Enumeration: • **1**—Init • **2**—Offline • **3**—Auth • **4**—AuthFail • **5**—AuthPass • **6**—AssignedIP • **7**—Online • **8—**Backup	N/A
DHCPLeaseTime	Lease duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
DeviceName	Device name	N/A	String. Length: 1 to 128 characters.	
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss This function is not supported in data plane mode.
OnlineTime	User online duration	N/A	String. Length: 1 to 8 characters.	This function is not supported in data plane mode.
RemainTime	AAA-authorized session duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
UplinkPktNum	Number of packets uplink.	N/A	Value range: 0 to 2^{64}-1.	N/A
UplinkByteNum	Number of bytes uplink.	N/A	Value range: 0 to 2^{64}-1.	N/A
DownlinkPktNum	Number of packets downlink.	N/A	Value range: 0 to 2^{64}-1.	N/A
DownlinkByteNum	Number of bytes downlink.	N/A	Value range: 0 to 2^{64}-1.	N/A
Bytes	Bytes	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReplyBytes	Reply bytes	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A

IPoE/DhcpAuthDomain

This table contains the information about configuring the IPoE DHCP authentication domain.

XML structure

```
<IPoE>
  <DhcpAuthDomain>
    <AuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </AuthDomain>
  </DhcpAuthDomain>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	DhcpAuthDomain
Table type	Multi-instance table
Row name	AuthDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	N/A	String Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

IPoE/UnclassifiedIPAuthDomain

This table contains the information about configuring the IPoE unclassified-IP authentication domain.

XML structure

```
<IPoE>
  <UnclassifiedIPAuthDomain>
    <AuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </AuthDomain>
  </UnclassifiedIPAuthDomain>
</IPoE>
```

Table description

Item	Description
Feature name	UCM
Table name	UnclassifiedIPAuthDomain
Table type	Multi-instance table
Row name	AuthDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr

Column name	Column description	Column type	Data type and restrictions	Remarks
				NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

Contents

IPReputation 1
IPReputation/SignatureManualUpgrading 1
XML structure 1
Table description 1
Columns 1
IPReputation/SignatureRollback 2
XML structure 2
Table description 2
Columns 2
IPReputation/SignatureAutoUpgradeNow 2
XML structure 2
Table description 3
Columns 3

IPReputation

IPReputation/SignatureManualUpgrading

This table is used to update signature manually.

XML structure

```
<IPReputation>
  <SignatureManualUpgrading>
    <Sort></Sort>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrading>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the update signature	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
URL	URL of the upgrade signature file.	N/A	String, case-insensitive For a remote file, Length: 1 to 255 characters. For a local file, Length: 1 to 127 characters.	URL
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file when the signature library update is completed.

IPReputation/SignatureRollback

This table is used to rollback signature file.

XML structure

```
<IPReputation>
  <SignatureRollback>
    <Sort></Sort>
    <Rollback></Rollback>
  </SignatureRollback>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the rollback	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
Rollback	Rollback flag	N/A	Enumeration: • 0—Roll back to the original version • 1—Roll back to the last version	N/A

IPReputation/SignatureAutoUpgradeNow

This table is used to update signature automatically now.

XML structure

```
<IPReputation>
  <SignatureAutoUpgradeNow>
    <Sort></Sort>
    <AutoUpgradeNow></AutoUpgradeNow>
```

```
  </SignatureAutoUpgradeNow>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the update signature	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
AutoUpgradeNow	Immediate auto upgrade	N/A	This column must be empty.	N/A

Contents

IPReputation 1
IPReputation/Status 1
XML structure 1
Table description 1
Columns 1
IPReputation/ExceptionIP 2
XML structure 2
Table description 2
Columns 2
IPReputation/AttackCategory 2
XML structure 3
Table description 3
Columns 3
IPReputation/SignatureAutoUpgrade 4
XML structure 4
Table description 4
Columns 4

IPReputation

IPReputation/Status

This table contains reputation status information.

XML structure

```
<IPReputation>
  <Status>
    <Sort></Sort>
    <ServiceEnable></ServiceEnable>
    <StatisticsEnable></StatisticsEnable>
  </Status>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	Status
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the status	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
ServiceEnable	Enabling status of the reputation feature	Index	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StatisticsEnable	Enabling status of the statistic collection feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPReputation/ExceptionIP

This table contains IP address exception information.

XML structure

```
<IPReputation>
  <ExceptionIP>
    <IP>
      <IPAddress></IPAddress>
      <AddressType></AddressType>
    </IP>
  </ExceptionIP>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	ExceptionIP
Table type	Multi-instance table
Row name	IP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address exception	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
AddressType	IP version	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A

IPReputation/AttackCategory

This table contains attack category information.

XML structure

```
<IPReputation>
  <AttackCategory>
    <AttackConfig>
      <Sort></Sort>
      <AttackID></AttackID>
      <AttackName></AttackName>
      <Action></Action>
      <Logging></Logging>
    </AttackConfig>
  </AttackCategory>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	AttackCategory
Table type	Multi-instance table
Row name	AttackConfig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the attack category	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPReputation/SignatureAutoUpgrade

This table contains signature library auto update settings.

XML structure

```
<IPReputation>
  <SignatureAutoUpgrade>
    <Sort></Sort>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the signature library auto update	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
Enabled	Whether or not reputation signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when reputation signature library auto update starts	N/A	Time Format: HH:MM:SS	By default, Domain reputation signature library auto update starts at 02:00:00 every day.
Type	Whether reputation signature library auto update	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, Domain reputation signature library auto update occurs on a daily basis.

Column name	Column description	Column type	Data type and restrictions	Remarks
	occurs on a daily or a weekly basis			
Day	Days of the week on which reputation signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

Contents

IPReputation 1

IPReputation/Status 1
XML structure 1
Table description 1
Columns 1
IPReputation/ExceptionIP 1
XML structure 2
Table description 2
Columns 2
IPReputation/AttackCategory 2
XML structure 2
Table description 3
Columns 3
IPReputation/IPStatistics 3
XML structure 3
Table description 4
Columns 4
IPReputation/IPReputationQuery 4
XML structure 4
Table description 5
Columns 5
IPReputation/DomainReputationQuery 6
XML structure 6
Table description 6
Columns 6
IPReputation/DomainStatistics 7
XML structure 7
Table description 7
Columns 7
IPReputation/SignatureAutoUpgrade 8
XML structure 8
Table description 8
Columns 8
IPReputation/SignatureUpgradePercentage 9
XML structure 9
Table description 9
Columns 10
IPReputation/SignatureFileInfos 10
XML structure 10
Table description 10
Columns 11

IPReputation

IPReputation/Status

This table contains reputation status information.

XML structure

```
<IPReputation>
  <Status>
    <Sort></Sort>
    <ServiceEnable></ServiceEnable>
    <StatisticsEnable></StatisticsEnable>
  </Status>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	Status
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the status	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
ServiceEnable	Enabling status of the reputation feature	Index	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StatisticsEnable	Enabling status of the statistics collection function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPReputation/ExceptionIP

This table contains IP address exception information.

XML structure

```
<IPReputation>
  <ExceptionIP>
    <IP>
      <IPAddress></IPAddress>
      <AddressType></AddressType>
    </IP>
  </ExceptionIP>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	ExceptionIP
Table type	Multi-instance table
Row name	IP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address exception	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
AddressType	IP version	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A

IPReputation/AttackCategory

This table contains attack category information.

XML structure

```
<IPReputation>
  <AttackCategory>
    <AttackConfig>
      <Sort></Sort>
      <AttackID></AttackID>
```

```
      <AttackName></AttackName>
      <Action></Action>
      <Logging></Logging>
    </AttackConfig>
  </AttackCategory>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	AttackCategory
Table type	Multi-instance table
Row name	AttackConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the attack category	N/A	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPReputation/IPStatistics

This table contains IP reputation statistics information.

XML structure

```
<IPReputation>
  <IPStatistics>
    <IPStatistic>
      <Chassis></Chassis>
```

```
      <Slot></Slot>
      <CPUID></CPUID>
      <Count></Count>
      <IPJsonCount></IPJsonCount>
    </IPStatistic>
  </IPStatistics>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	IPStatistics
Table type	Multi-instance table
Row name	IPStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Count	Number of IP addresses with top ranking statistics	Index	Unsigned integer. Value range: 10 to 100.	N/A
IPJsonCount	Json values of the top ranking statistics	N/A	String, case-insensitive. Length: 1 to 65535 characters.	N/A

IPReputation/IPReputationQuery

This table contains IP reputation query information.

XML structure

```
<IPReputation>
  <IPReputationQuery>
    <IPQuery>
      <IPAddress></IPAddress>
```

```
      <AttackID></AttackID>
      <AttackName></AttackName>
      <AddressType></AddressType>
      <Action></Action>
      <Logging></Logging>
      <Direction></Direction>
      <HitCount></HitCount>
    </IPQuery>
  </IPReputationQuery>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	IPReputationQuery
Table type	Multi-instance table
Row name	IPQuery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address to be queried	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AddressType	IP version	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Direction	Direction of the IP attack	N/A	Enumeration: • **1**—Source to destination. • **2**—Destination to source.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Both.	
HitCount	Total hit count of an IP address	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IPReputation/DomainReputationQuery

This table contains Domain reputation query information.

XML structure

```
<IPReputation>
  <DomainReputationQuery>
    <DomainQuery>
      <Domain></Domain>
      <AttackID></AttackID>
      <AttackName></AttackName>
      <Action></Action>
      <Logging></Logging>
      <HitCount></HitCount>
    </DomainQuery>
  </DomainReputationQuery>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	DomainReputationQuery
Table type	Multi-instance table
Row name	DomainQuery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Domain to be queried	Index	String, dotted decimal notation. Length: 1 to 256 characters.	example: baidu.com
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
HitCount	Total hit count of an Domain	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

IPReputation/DomainStatistics

This table contains Domain reputation statistics information.

XML structure

```
<IPReputation>
  <DomainStatistics>
    <DomainStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Count></Count>
      <DomainJsonCount></DomainJsonCount>
    </DomainStatistic>
  </DomainStatistics>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	DomainStatistics
Table type	Multi-instance table
Row name	DomainStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Count	Number of Domains with top ranking statistics	Index	Unsigned integer. Value range: 10 to 100.	N/A
DomainJson Count	Json values of the top ranking statistics	N/A	String, case-insensitive. Length: 1 to 65535 characters.	N/A

IPReputation/SignatureAutoUpgrade

This table contains signature library auto update settings.

XML structure

```
<IPReputation>
  <SignatureAutoUpgrade>
    <Sort></Sort>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the signature library auto update	Index	Enumeration: • **0**—IP reputation	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—DNS reputation	
Enabled	Whether or not Domain reputation signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when Domain reputation signature library auto update starts	N/A	Time. Format: HH:MM:SS.	By default, Domain reputation signature library auto update starts at 02:00:00 every day.
Type	Whether Domain reputation signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, Domain reputation signature library auto update occurs on a daily basis.
Day	Days of the week on which Domain reputation signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

IPReputation/SignatureUpgradePercentage

This table contains the Domain reputation signature library update progress information.

XML structure

```
<IPReputation>
  <SignatureUpgradePercentage>
    <Sort></Sort>
    <Percentage></Percentage>
    <ErrorCode></ErrorCode>
  </SignatureUpgradePercentage>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureUpgradePercentage
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the signature library update progress	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
Percentage	The percentage of updating	N/A	Unsigned integer. Value range: 0 to 100.	When the value range is 0 to 100,it means in upgrading, Otherwise, means error.
ErrorCode	Error of update	N/A	Enumeration: • 0—Success. • 1—License check error. • 2—SigFile check error. • 3—Server connect error.	N/A

IPReputation/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<IPReputation>
  <SignatureFileInfos>
    <FileInfo>
      <Sort></Sort>
      <Version></Version>
      <FileName></FileName>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
    </FileInfo>
  </SignatureFileInfos>
</IPReputation>
```

Table description

Item	Description
Feature name	IPReputation
Table name	SignatureFileInfos
Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sort	Sort of the signature file	Index	Enumeration: • **0**—IP reputation • **1**—DNS reputation	N/A
Version	Version	Index	Enumeration: • 1—current. • 2—last. • 3—factory(default).	N/A
FileName	File Name	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A
PublishedTime	Published Time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Updates	Update information	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

Contents

IPS 1
IPS/ImportSnortSignatures 1
XML structure 1
Table description 1
Columns 1
IPS/SignatureManualUpgrade 1
XML structure 2
Table description 2
Columns 2
IPS/SignatureAutoUpgradeNow 2
XML structure 2
Table description 3
Columns 3
IPS/SignatureRollback 3
XML structure 3
Table description 3
Columns 4
IPS/UnloadSnortSignatures 4
XML structure 4
Table description 4
Columns 4
IPS/ClearHitStatistics 4
XML structure 5
Table description 5
Columns 5
IPS/ExportSignatures 5
XML structure 5
Table description 6
Columns 6
IPS/ClearHitStatistics 6
XML structure 6
Table description 6
Columns 7
IPS/WhiteListsCompile 7
XML structure 7
Table description 7
Columns 7
IPS/WhiteListsStatisticsClear 8
XML structure 8
Table description 8
Columns 8

IPS

IPS/ImportSnortSignatures

This table contains information about importing IPS rules in the snort format.

XML structure

```
<IPS>
  <ImportSnortSignatures>
    <URL></URL>
    <Location></Location>
  </ImportSnortSignatures>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ImportSnortSignatures
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the imported signature file.	N/A	String, case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 characters.	URL
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the snort file after the snort file import is complete.

IPS/SignatureManualUpgrade

This table contains information about IPS signature manual upgrade.

XML structure

```
<IPS>
  <SignatureManualUpgrade>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureManualUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the upgrade signature file.	N/A	String, case-insensitive For a remote file, Length: 1 to 255 characters. For a local file, Length: 1 to 127 characters.	URL
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file when the signature library update is completed.

IPS/SignatureAutoUpgradeNow

This table contains information about immediate IPS signature auto upgrading.

XML structure

```
<IPS>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade Now	Immediate auto upgrade	N/A	This column must be empty.	N/A

IPS/SignatureRollback

This table contains information about IPS signatures rollback.

XML structure

```
<IPS>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback to a specific version	N/A	Boolean: • true: Rollback to last version • false: Rollback to the original version	N/A

IPS/UnloadSnortSignatures

This table contains information about removing IPS user-defined rules.

XML structure

```
<IPS>
  <UnloadSnortSignatures>
    <Unload></Unload>
  </UnloadSnortSignatures>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UnloadSnortSignatures
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Unload	Remove user-defined rule	N/A	This column must be empty	N/A

IPS/ClearHitStatistics

This table contains information about clearing IPS hit statistics.

XML structure

```
<IPS>
  <ClearHitStatistics>
    <Clear>
      <PolicyName></PolicyName>
      <SigIDList>
        <SigID></SigID>
      </SigIDList>
    </Clear>
  </ClearHitStatistics>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ClearHitStatistics
Table type	Multi-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigIDList	List of IPS signature id	Data structure	Members include: • SigID.	N/A
SigID	ID of the IPS signature	column	Unsigned integer. Value range: 1 to 536870910.	N/A

IPS/ExportSignatures

This table contains information about export IPS Signatures.

XML structure

```
<IPS>
  <ExportSignatures>
     <PolicyName></PolicyName>
     <FileName></FileName>
  </ExportSignatures>
```

```
<IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ExportSignatures
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FileName	Name of the export file	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

IPS/ClearHitStatistics

This table contains information about clearing IPS hit statistics.

XML structure

```
<IPS>
  <ClearHitStatistics>
    <Clear>
      <PolicyName></PolicyName>
      <SigIDList>
        <SigID></SigID>
      </SigIDList>
    </Clear>
  </ClearHitStatistics>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ClearHitStatistics
Table type	Multi-instance table

Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigIDList	List of IPS signature id	Data structure	Members include: • SigID.	N/A
SigID	ID of the IPS signature	column	Unsigned integer. Value range: 1 to 1610612720.	N/A

IPS/WhiteListsCompile

This table contains information about IPS white lists compile.

XML structure

```
<IPS>
  <WhiteListsCompile>
    <CompileWhiteList></CompileWhiteList>
  </WhiteListsCompile>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	WhiteListsCompile
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CompileWhite List	Active IPS white lists funcation	N/A	Boolean: • true: Compile IPS white lists	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			function • false: Don't compile IPS white lists function	

IPS/WhiteListsStatisticsClear

This table contains information about IPS white lists statistics clear.

XML structure

```
<IPS>
  <WhiteListsStatisticsClear>
    <ClearAll></ClearAll>
    <WhiteListNum></WhiteListNum>
  </WhiteListsStatisticsClear>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	WhiteListsStatisticsClear
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClearAll	Clear IPS white lists funcation	Index	Boolean: • true: Clear all IPS white lists statisitics • false: Clear WhiteListNum statistics	N/A
WhiteListNum	Number of the IPS whitelist	N/A	Unsigned integer. Value range: 1 to 256.	N/A

Contents

IPS 1
IPS/Policies 1
XML structure 1
Table description 1
Columns 2
IPS/PolicyOnProfile 3
XML structure 4
Table description 4
Columns 4
IPS/PolicyExceptonSigs 4
XML structure 4
Table description 5
Columns 5
IPS/SignatureAutoUpgrade 6
XML structure 6
Table description 6
Columns 6
IPS/ActionDefaultParameters 7
XML structure 7
Table description 7
Columns 7
IPS/UpdateLoggingDaily 8
XML structure 8
Table description 8
Columns 8
IPS/WhiteLists 8
XML structure 8
Table description 9
Columns 9
IPS/GlobalConfiguration 10
XML structure 10
Table description 10
Columns 10

IPS

IPS/Policies

This table contains IPS policy information.

XML structure

```
<IPS>
  <Policies>
    <Policy>
      <Name></Name>
      <FilterDirection></FilterDirection>
      <FilterSeverity></FilterSeverity>
      <FilterAction></FilterAction>
      <FilterStatus></FilterStatus>
      <ProtectionList>
        <ProtectionId></ProtectionId>
        <SubProtectionId></SubProtectionId>
      </ProtectionList>
      <CategoryList>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </CategoryList>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <IsLogToHost></IsLogToHost>
      <IsLogMail></IsLogMail>
      <IsLogGlobal></IsLogGlobal>
      <EmailParameterName></EmailParameterName>
      <EmailLowestSeverity></EmailLowestSeverity>
      <HitCountEnable></HitCountEnable>
      <PolicyHitCounts></PolicyHitCounts>
    </Policy>
  </Policies>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	Policies
Table type	Multi-instance table
Row name	Policy

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be **default**
FilterDirection	Traffic direction to which the IPS signature applies	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer • **1**—Low. • **2**—Medium. • **4**—High. • **8**—Critical.	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2.).
FilterAction	Default action of the IPS signature	N/A	Unsigned integer • **1**—Block. • **2**—Drop. • **4**—Permit. • **8**—Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
FilterStatus	Default status of the IPS signature	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled. • **2**—Both. • **3**—Default.	Default is 3.
ProtectionList	List of protected targets	Data structure	Members include: • ProtectionId. • SubProtectionId.	N/A
ProtectionId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the IPS signature file.
SubProtectionId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
CategoryList	List of attack categories	Data structure	Members include: • CategoryId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the Subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained

Column name	Column description	Column type	Data type and restrictions	Remarks
				from the IPS signature file.
Action	Action applied to matching packets.	N/A	Enumeration: • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. • 5—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: • true. • false.	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: • true. • false.	N/A
IsLogGlobal	Enable the global log parameter or not	N/A	Boolean: • true. • false.	N/A
EmailParameterName	Email parameter profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EmailLowestSeverity	Lowest severity to send email logs	N/A	Enumeration: • 0—Low. • 1—Medium. • 2—High. • 3—Critical.	By default, IPS lowest severity level for sending email logs is low.
HitCountEnable	Enable IPS policy hit count	N/A	Boolean: • true. • false.	Default is false.
PolicyHitCounts	IPS policy signature hit count sum	N/A	Unsigned integer.	N/A

IPS/PolicyOnProfile

This table contains information about the IPS policy applied to a DPI application profile.

XML structure

```
<IPS>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the IPS policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/PolicyExceptonSigs

This table contains information about exception signatures in an IPS policy..

XML structure

```
<IPS>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
      <SigID></SigID>
      <Enabled></Enabled>
```

```
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the IPS signature is user defined	Index	Boolean: • true. • false.	N/A
SigID	ID of the IPS signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5**—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

IPS/SignatureAutoUpgrade

This table contains IPS signature library auto update settings.

XML structure

```
<IPS>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not IPS signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when IPS signature library auto update starts	N/A	Time Format: HH:MM:SS	By default, IPS signature library auto update starts at 02:00:00 every day.
Type	Whether IPS signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, IPS signature library auto update occurs on a daily basis.
Day	Days of the week on which IPS signature library	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

Column name	Column description	Column type	Data type and restrictions	Remarks
	auto update occurs			

IPS/ActionDefaultParameters

This table contains IPS action parameter settings.

XML structure

```
<IPS>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: • **1**—Block. • **2**—Capture. • **3**—Logging. • **4**—Redirect. • **5**—Mail.	N/A
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The IPS action parameters are defined in the DIM module.

IPS/UpdateLoggingDaily

This table contains daily sending settings for IPS signature library update logging.

XML structure

```
<IPS>
  <UpdateLoggingDaily>
    <StartTime></StartTime>
  </UpdateLoggingDaily>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UpdateLoggingDaily
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Time to send IPS fastlog every day	N/A	Time Format: HH:MM:SS	By default, IPS sends fastlog at 02:00:00 every day.

IPS/WhiteLists

This table contains IPS whitelist information.

XML structure

```
<IPS>
  <WhiteLists>
    <WhiteList>
      <WhiteListNum></WhiteListNum>
      <Description></Description>
      <SigID></SigID>
      <MatchType></MatchType>
      <URLString></URLString>
```

```
      <SrcIpv4Addr></SrcIpv4Addr>
      <SrcIpv6Addr></SrcIpv6Addr>
      <StatisticCnt></StatisticCnt>
    </WhiteList>
  </WhiteLists>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	WhiteLists
Table type	Multi-instance table
Row name	WhiteList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WhiteListNum	Number of the IPS whitelist entries	Index	Unsigned integer. Value range: 1 to 256.	N/A
Description	Description of the whitelist	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
SigID	IPS signature ID	N/A	Unsigned integer. Value range: • 1 to 4294967294	N/A
MatchType	URL match type	N/A	Enumeration: • **0**—Accurate match. • **1**—Fuzzy match.	N/A
URLString	URL string	N/A	String, case-insensitive Length: 3 to 460.	N/A
SrcIpv4Addr	Source IPv4 address	N/A	String, decimal notation. Length: 1 to 15 characters.	N/A
SrcIpv6Addr	Source IPv6 address	N/A	Hexadecimal string, colon-separated. Length: 1 to 45 characters.	N/A
StatisticCnt	Whitelist hit count	N/A	Unsigned integer. Value range: 1 to 4294967295.	Only supports getting data.

IPS/GlobalConfiguration

This table contains information about IPS global configuration.

XML structure

```
<IPS>
  <GlobalConfiguration>
    <EnableWhiteList></EnableWhiteList>
  </GlobalConfiguration>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableWhiteList	Enabling status of the IPS whitelist	N/A	Boolean: • **true**—Enabled. • **false**—Disabled. (default)	N/A

Contents

IPS 1

IPS/Policies 1
XML structure 1
Table description 1
Columns 2
IPS/PolicyOnProfile 3
XML structure 4
Table description 4
Columns 4
IPS/ProtectionList 4
XML structure 4
Table description 5
Columns 5
IPS/CategoryList 5
XML structure 5
Table description 6
Columns 6
IPS/PolicyExceptionSigs 6
XML structure 6
Table description 7
Columns 7
IPS/Signatures 8
XML structure 8
Table description 9
Columns 9
IPS/SignatureFileInfos 10
XML structure 11
Table description 11
Columns 11
IPS/SignatureAutoUpgrade 11
XML structure 12
Table description 12
Columns 12
IPS/SignatureUpgradePercentage 12
XML structure 13
Table description 13
Columns 13
IPS/ActionDefaultParameters 13
XML structure 13
Table description 14
Columns 14
IPS/SignaturePages 14
XML structure 14
Table description 15
Columns 15
IPS/UserSignatureAnalyseInfos 17
XML structure 17
Table description 17
Columns 18
IPS/UpdateLoggingDaily 18
XML structure 18
Table description 18
Columns 18
IPS/SigHitCounts 18
XML structure 19
Table description 19
Columns 19

IPS/SigSimpleInfos ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
IPS/WhiteLists ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
IPS/GlobalConfiguration ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22

IPS

IPS/Policies

This table contains IPS policy information.

XML structure

```
<IPS>
  <Policies>
    <Policy>
      <Name></Name>
      <FilterDirection></FilterDirection>
      <FilterSeverity></FilterSeverity>
      <FilterAction></FilterAction>
      <FilterStatus></FilterStatus>
      <ProtectionList>
        <ProtectionId></ProtectionId>
        <SubProtectionId></SubProtectionId>
      </ProtectionList>
      <CategoryList>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </CategoryList>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <IsLogToHost></IsLogToHost>
      <IsLogMail></IsLogMail>
      <IsLogGlobal></IsLogGlobal>
      <EmailParameterName></EmailParameterName>
      <EmailLowestSeverity></EmailLowestSeverity>
      <HitCountEnable></HitCountEnable>
      <PolicyHitCounts></PolicyHitCounts>
    </Policy>
  </Policies>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	Policies
Table type	Multi-instance table
Row name	Policy

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	
FilterDirection	Traffic direction to which the IPS signature applies	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer: • **1**—Low. • **2**—Medium. • **4**—High. • **8**—Critical.	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2).
FilterAction	Default action of the IPS signature	N/A	Unsigned integer: • **1**—Block. • **2**—Drop. • **4**—Permit. • **8**—Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
FilterStatus	Default status of the IPS signature	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled. • **2**—Both. • **3**—Default.	N/A
ProtectionList	List of protected targets	Data structure	Members include: • ProtectionId. • SubProtectionId.	N/A
ProtectionId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the IPS signature file.
SubProtectionId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
CategoryList	List of attack categories	Data structure	Members include: • CategroyId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an

				unlimited number of attack categories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the IPS signature file.
Action	Action applied to matching packets.	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5**—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: • true. • false.	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: • true. • false.	N/A
IsLogGlobal	Enable the global log parameter or not	N/A	Boolean: • true. • false.	N/A
EmailParameterName	Email parameter profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EmailLowestSeverity	Lowest severity to send email logs	N/A	Enumeration: • 0—Low. • 1—Medium. • 2—High. • 3—Critical.	By default, IPS lowest severity level for sending email logs is low.
HitCountEnable	Enable IPS policy hit count	N/A	Boolean: • true. • false	N/A
PolicyHitCounts	IPS policy signature hit count sum	N/A	Unsigned integer.	N/A

IPS/PolicyOnProfile

This table contains information about the IPS policy applied to a DPI application profile.

XML structure

```
<IPS>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the IPS policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/ProtectionList

This table contains protected target information obtained from the IPS signature file.

XML structure

```
<IPS>
  <ProtectionList>
    <Protection>
      <ID></ID>
      <ProtectionName></ProtectionName>
      <SubProtectionList>
```

```
      <SubProtectionId></SubProtectionId>
      <SubProtectionName></SubProtectionName>
    </SubProtectionList>
  </Protection>
</ProtectionList>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ProtectionList
Table type	Multi-instance table
Row name	Protection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the protected target	Index	Unsigned integer.	N/A
ProtectionName	Name of the protected target	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SubProtectionList	List of subtargets contained in the protected target	Data structure	Members include: • SubProtectionId. • SubProtectionName.	A protected target can contain an unlimited number of subtargets.
SubProtectionId	ID of the subtarget	N/A	Unsigned integer.	N/A
SubprotectionName	Name of the subtarget	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/CategoryList

This table contains attack category information obtained from the IPS signature file.

XML structure

```
<IPS>
  <CategoryList>
    <Category>
      <CategoryId></CategoryId>
      <CategoryName></CategoryName>
      <SubCategoryList>
```

```
        <SubCategoryId></SubCategoryId>
        <SubCategoryName></SubCategoryName>
      </SubCategoryList>
    </Category>
  </CategoryList>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	CategoryList
Table type	Multi-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryId	ID of the attack category	Index	Unsigned integer.	N/A
CategoryName	Name of attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SubCategoryList	List of attack subcategories contained in the attack category	Data structure	Members include: • SubCategoryId. • SubCategoryName.	An attack category can contain an unlimited number of attack subcategories.
SubCategoryId	ID of the attack subcategroy	N/A	Unsigned integer.	N/A
SubCategoryName	Name of the attack subcategory	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/PolicyExceptionSigs

This table contains information about exception signatures in an IPS policy.

XML structure

```
<IPS>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
```

```
      <SigID></SigID>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the IPS signature is user defined	Index	Boolean: • true. • false.	N/A
SigID	ID of the IPS signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5**—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets			

IPS/Signatures

This table contains the IPS signature information.

XML structure

```
<IPS>
  <Signatures>
    <Signature>
      <SigID></SigID>
      <UserDefined></UserDefined>
      <SigName></SigName>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
      <Severity></Severity>
      <Direction></Direction>
      <Category></Category>
      <CVEList>
        <CVE></CVE>
      </CVEList>
      <BIDList>
        <BID></BID>
      </BIDList>
      <MSList>
        <MS></MS>
      </MSList>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <Solution></Solution>
      <AttackFunction></AttackFunction>
    </Signature>
  </Signatures>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	Signatures
Table type	Multi-instance table
Row name	Signature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.
UserDefined	Whether or not the IPS signature is user defined	N/A	Boolean: • true. • false.	N/A
SigName	Name of the signature	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String, case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS signature file.
PublishTime	Time when the signature was published	N/A	String, case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Medium. • **4**—Low.	The value is obtained from the IPS signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	The value is obtained from the IPS signature file.

Column name	Column description	Column type	Data type and restrictions	Remarks
Category	Attack category of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE list	Data structure	Members include: • CVE.	N/A
CVE	CVE ID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String, case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

IPS/SignatureFileInfos

This table contains IPS signature file information.

XML structure

```
<IPS>
  <SignatureFileInfos>
    <FileInfo>
      <FileStatus></FileStatus>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Description></Description>
    </FileInfo>
  </SignatureFileInfos>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureFileInfos
Table type	MultiSingle-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileStatus	Status of the IPS signature file	Index	Enumeration: • **1**—Current. • **2**—Last. • **3**—Factory (default).	N/A
Version	Version of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 31 characters.	Example: 1.0.36.
PublishedTime	Time when the signature file was published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	The local time zone is used.
Description	Description of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

IPS/SignatureAutoUpgrade

This table contains IPS signature library auto update settings.

XML structure

```
<IPS>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not IPS signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when IPS signature library auto update starts	N/A	Time. Format: HH:MM:SS.	By default, IPS signature library auto update starts at 02:00:00 every day.
Type	Whether IPS signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, IPS signature library auto update occurs on a daily basis.
Day	Days of the week on which IPS signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

IPS/SignatureUpgradePercentage

This table contains the IPS signature library update progress information.

XML structure

```
<IPS>
  <SignatureUpgradePercentage>
    <Percentage></Percentage>
  </SignatureUpgradePercentage>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureUpgradePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Progress of the signature library update operation, in percentages.	N/A	Unsigned integer. Value range: 0 to 100.	Any value outside the valid range indicates that an error has occurred.

IPS/ActionDefaultParameters

This table contains IPS action parameter settings.

XML structure

```
<IPS>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ActionDefaultParameters
Table type	MultiSingle-instance table
Row name	ActionDefaultParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: • **1**—Block. • **2**—Capture. • **3**—Logging. • **4**—Redirect. • **5**—Mail.	N/A
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The IPS action parameters are defined in the DIM module.

IPS/SignaturePages

This table contains information about IPS signatures displayed on paginated lists.

XML structure

```
<IPS>
  <SignaturePages>
    <SignaturePage>
      <UserID></UserID>
      <Position></Position>
      <TotalCount></TotalCount>
      <SigID></SigID>
      <SigName></SigName>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
      <Severity></Severity>
      <Direction></Direction>
```

```
      <Category></Category>
      <CVEList>
        <CVE></CVE>
      </CVEList>
      <BIDList>
        <BID></BID>
      </BIDList>
      <MSList>
        <MS></MS>
      </MSList>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <Solution></Solution>
      <AttackFunction></AttackFunction>
    </SignaturePage>
  </SignaturePages>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignaturePages
Table type	MultiSingle-instance table
Row name	SignaturePage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current user	Index	Unsigned integer.	N/A
Position	Position of the signature on the entire signature list.	Index	Unsigned integer.	N/A
TotalCount	Total number of signatures	N/A	Unsigned integer.	If the query function is used, the total number of signatures in the query results is displayed.
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.

Column name	Column description	Column type	Data type and restrictions	Remarks
SigName	Name of the signature	N/A	String: case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String: case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS signature file.
PublishTime	Time when the signature was published	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Medium. • **4**—Low.	The value is obtained from the IPS signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	The value is obtained from the IPS signature file.
Category	Attack category of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE List	Data structure	Members include: • CVE.	N/A
CVE	CVE-ID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the signature is	N/A	Boolean: • true.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enabled		• false.	
Action	Action to take on packets matching the signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String: case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

IPS/UserSignatureAnalyseInfos

This table contains IPS signature import failure analysis information.

XML structure

```
<IPS>
  <UserSignatureAnalyseInfos>
    <UserSignatureAnalyseInfo>
      <ID></ID>
      <AnalyseInfo></AnalyseInfo>
    </UserSignatureAnalyseInfo>
  </UserSignatureAnalyseInfos>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UserSignatureAnalyseInfos
Table type	MultiSingle-instance table
Row name	UserSignatureAnalyseInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the IPS signature failed to be imported	Index	Unsigned integer.	N/A
AnalyseInfo	Analysis information	N/A	String, case-insensitive. Length: 1 to 511 characters.	N/A

IPS/UpdateLoggingDaily

This table contains daily sending settings for IPS signature library update logging.

XML structure

```
<IPS>
  <UpdateLoggingDaily>
    <StartTime></StartTime>
  </UpdateLoggingDaily>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UpdateLoggingDaily
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Time to send IPS fastlog every day	N/A	Time Format: HH:MM:SS	By default, IPS sends fastlog at 02:00:00 every day.

IPS/SigHitCounts

This table contains information about the hit statistics of IPS signatures displayed on paginated lists.

XML structure

```
<IPS>
  <SigHitCounts>
    <SigHitCount>
      <UserID></UserID>
      <Position></Position>
      <PolicyName></PolicyName>
      <PageNo></PageNo>
      <CntPerPage></CntPerPage>
      <TotalCount></TotalCount>
      <SigHitCntJsonVal></SigHitCntJsonVal>
    </SigHitCount>
  </SigHitCounts>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SigHitCounts
Table type	Multi-instance table
Row name	SigHitCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current user	Index	Unsigned integer.	N/A
Position	Position of the signature on the entire signature list	Index	Unsigned integer.	N/A
PolicyName	Name of the IPS policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
PageNo	Page number to display	N/A	Unsigned integer.	N/A
CntPerPage	Number of Signatures per page	N/A	Unsigned integer.	N/A
TotalCount	Total number of signatures	N/A	Unsigned integer.	N/A
SigHitCntJsonVal	Json values of the rule	N/A	String, case-insensitive.	The value is obtained from the IPS

Column name	Column description	Column type	Data type and restrictions	Remarks
	Information		Length: 1 to 65000 characters. Content: JSON array.	signature file.

IPS/SigSimpleInfos

This table contains the IPS signatures simple information.

XML structure

```
<IPS>
  <SigSimpleInfos>
    <SigSimpleInfo>     <SigID></SigID>
      <PolicyName></PolicyName>
      <RuleInfoJsonVal></RuleInfoJsonVal>
    </SigSimpleInfo>
  </SigSimpleInfos>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SigSimpleInfos
Table type	Multi-instance table
Row name	SigSimpleInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 1610612720.	The value is obtained from the IPS signature file.
PolicyName	Name of the IPS policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be **default**.
RuleInfoJsonVal	Json values of the rule Information	N/A	String, case-insensitive. Length: 1 to 65000 characters. Content: JSON array.	The value is obtained from the IPS signature file.

IPS/WhiteLists

This table contains IPS whitelist information.

XML structure

```
<IPS>
  <WhiteLists>
    <WhiteList>
      <WhiteListNum></WhiteListNum>
      <Description></Description>
      <SigID></SigID>
      <MatchType></MatchType>
      <URLString></URLString>
      <SrcIpv4Addr></SrcIpv4Addr>
      <SrcIpv6Addr></SrcIpv6Addr>
      <StatisticCnt></StatisticCnt>
    </WhiteList>
  </WhiteLists>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	WhiteLists
Table type	Multi-instance table
Row name	WhiteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WhiteListNum	Number of the IPS whitelist entries	Index	Unsigned integer. Value range: 1 to 256.	N/A
Description	Description of the whitelist	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
SigID	IPS signature ID	N/A	Unsigned integer. Value range: • 1 to 4294967294.	N/A
MatchType	URL match type	N/A	Enumeration: • **0**—Accurate match. • **1**—Fuzzy match.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
URLString	URL string	N/A	String, case-insensitive Length: 3 to 460	N/A
SrcIpv4Addr	Source IPv4 address	N/A	String, decimal notation. Length: 1 to 15 characters.	N/A
SrcIpv6Addr	Source IPv6 address	N/A	Hexadecimal string, colon-separated. Length: 1 to 45 characters.	N/A
StatisticCnt	Whitelist hit count	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

IPS/GlobalConfiguration

This table contains information about IPS global configuration.

XML structure

```
<IPS>
  <GlobalConfiguration>
    <EnableWhiteList></EnableWhiteList>
  </GlobalConfiguration>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableWhiteList	Enabling status of the IPS whitelist	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

IPS 2
IPS/SignatureManualUpgrade 2
IPS/SignatureAutoUpgradeNow 2
IPS/SignatureRollback 3
IPS/ImportSnortSignatures 3
IPS/SignatureAutoUpgrade 3
IPS/PolicyOnProfile 4
IPS/Policies 4
IPS/PolicyExceptionSigs 4
IPS/ActionDefaultParameters 4
IPS/UpdateLoggingDaily 4
IPS/UnloadSnortSignatures 5

IPS

IPS/SignatureManualUpgrade

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	When manual updating of the signature library fails because there is no license. 手动升级特征库时，没有license，升级失败。
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Cannot perform this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	Upgrade failure due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。
Operation failed because not enough memory was available. 操作失败：设备内存不足。	The upgrade fails due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。

IPS/SignatureAutoUpgradeNow

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	When manual updating of the signature library fails because there is no license. 手动升级特征库时，没有license，升级失败。
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
The signature version is up to date. No update is needed. 特征库已是最新版本，不需要进行升级。	Automatic upgrade is to upgrade the signature library to the latest version released on the official website. If it is the latest version, no upgrade is needed. 自动升级是将特征库升级到官网发布的最新版本，如果已经是最新版本就不需要再升级了。
Cannot do this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	Upgrade failure due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。
Operation failed because not enough memory was available.	The upgrade failed due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。

操作失败：设备内存不足。	
Operation failed because a connection to the signature library server could not be established. 操作失败: 连接特征库服务器失败。	The connection to www.h3c.com failed. For a successful upgrade, the device must connect to www.h3c.com to get the signature library files. 需要连接www.h3c.com网站获取特征库文件才能升级成功，连接www.h3c.com失败。
Cannot update the signature library because the required service card cannot be found. 未检测到业务板，特征库升级失败。	M9K equipment cannot be upgraded without service card. M9k设备若没有业务板，不可以进行升级操作。

IPS/SignatureRollback

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	When manual updating of the signature library fails because there is no license. 手动升级特征库时，没有license，升级失败。
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Cannot execute this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	The upgrade fails due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。
Operation failed because not enough memory was available. 操作失败：设备内存不足。	The upgrade fails due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。

IPS/ImportSnortSignatures

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Failed to parse the snort file. Please examine the snort file. Snort文件解析错误。	When importing snort rules, snort files are illegal and parsing fails. 导入snort规则时，snort文件不合法，解析失败。

IPS/SignatureAutoUpgrade

Message	Explanation
The signature file is updating. Please try later.	The signature library is being upgraded to fail to process

特征库正在升级，请稍后再试。	the message. 特征库正在升级，无法处理该消息。

IPS/PolicyOnProfile

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

IPS/Policies

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

IPS/PolicyExceptionSigs

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

IPS/ActionDefaultParameters

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

IPS/UpdateLoggingDaily

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

IPS/UnloadSnortSignatures

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being upgraded and cannot process the message. 特征库正在升级，无法处理该消息。

Contents

IPsec 1

IPsec/ResetAllSA 1
XML structure 1
Table description 1
Columns 1
IPsec/ResetSAPolicies 1
XML structure 1
Table description 2
Columns 2
IPsec/ResetSARemoteAddr 2
XML structure 2
Table description 3
Columns 3
IPsec/ResetSASPI 3
XML structure 3
Table description 3
Columns 4
IPsec/ClearGlobalStats 4
XML structure 4
Table description 4
Columns 5
IPsec/ClearTunnelsStats 5
XML structure 5
Table description 5
Columns 5
IPsec/SmartVpnMoveLinks 5
XML structure 5
Table description 6
Columns 6
IPsec/SmartVpnActiveLinks 6
XML structure 6
Table description 7
Columns 7
IPsec/IPSecDiagnose 7
XML structure 7
Table description 7
Columns 8
IPsec/StopDiagnose 8
XML structure 8
Table description 8
Columns 9
IPsec/ResetAllSdwanLocalSA 9
XML structure 9
Table description 9
Columns 9
IPsec/ResetSdwanLocalSAByIfIndex 9
XML structure 9
Table description 10
Columns 10
IPsec/ResetAllSdwanRemoteSA 10
XML structure 10
Table description 10
Columns 11
IPsec/ResetAllSdwanTunnel 11
XML structure 11
Table description 11
Columns 11

IPsec/ResetSdwanTunnelById 11
XML structure 11
Table description 12
Columns 12
IPsec/ClearAllSdwanTunnelStats 12
XML structure 12
Table description 12
Columns 13
IPsec/ClearSdwanTunnelStatsById 13
XML structure 13
Table description 13
Columns 13

IPsec

IPsec/ResetAllSA

This table is used to reset all IPsec SA.

XML structure

```
<IPsec>
  <ResetAllSA>
    <Reset/>
  </ResetAllSA>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetAllSA
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Reset all IPsec SA	N/A	Must be empty

IPsec/ResetSAPolicies

This table is used to reset IPsec SA by policy.

XML structure

```
<IPsec>
  <ResetSAPolicies>
    <Reset>
      <PolicyName></PolicyName>
      <AddrType></AddrType>
      <SeqNum></SeqNum>
    </Reset>
```

```
  </ResetSAPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSAPolicies
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name	Index	String. Length: 1 to 63 characters.	N/A
AddrType	IP protocol type	Index	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address.	N/A
SeqNum	The sequence number for the IPsec policy	N/A	Unsigned integer. Value range: 1 to 65535.	If don't specify SeqNum, it will reset all the IPsec SAs belong to the policy group.

IPsec/ResetSARemoteAddr

This table is used to reset IPsec SA by remote address.

XML structure

```
<IPsec>
  <ResetSARemoteAddrs>
    <Reset>
      <AddrType></AddrType>
      <RemoteAddr></RemoteAddr>
    </Reset>
  </ResetSARemoteAddrs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSARemoteAddrs
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AddrType	IP protocol type	Index	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address.
RemoteAddr	Remot IP address	Index	Ipv4 address or Ipv6 address

IPsec/ResetSASPI

This table is used to reset IPsec SA by SPI, remote address and security protocol.

XML structure

```
<IPsec>
  <ResetSASPIs>
    <Reset>
      <AddrType></AddrType>
      <RemoteAddr></RemoteAddr>
      <SecurityProto></SecurityProto>
      <SPI></SPI>
    </Reset>
  </ResetSASPIs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSASPI
Table type	Multi-instance table
Row name	Reset

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AddrType	IP protocol type	Index	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address.
RemoteAddr	Remote IP address	Index	Ipv4 address or Ipv6 address
SecurityProto	IPsec Security Protocol	Index	Enumeration: • 1—AH. • 2—ESP.
SPI	Security Parameter Index	Index	Unsigned integer. Value range: 0 to $2^{32}-1$.

IPsec/ClearGlobalStats

This table is used to clear IPsec global statistics.

XML structure

```
<IPsec>
  <ClearGlobalStats>
    <Clear/>
  </ClearGlobalStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ClearGlobalStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear IPsec global statistics	N/A	Must be empty

IPsec/ClearTunnelsStats

This table is used to clear IPsec tunnel statistics.

XML structure

```
<IPsec>
  <ClearTunnelsStats>
    <Clear>
      <TunnelID></TunnelID>
    </Clear>
  </ClearTunnelsStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ClearTunnelsStats
Table type	Multi-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.

IPsec/SmartVpnMoveLinks

This table is used to smart-vpn move link.

XML structure

```
<IPsec>
```

```
  <SmartVpnMoveLinks>
    <SmartVpnMoveLink>
      <Name></Name>
      <SrcID></SrcID>
      <DestID></DestID>
    </SmartVpnMoveLink>
  </SmartVpnMoveLinks>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnMoveLinks
Table type	Multi-instance table
Row name	SmartVpnMoveLink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Profile name	Index	String Length: 1 to 63 characters.	N/A
SrcID	Source ID	N/A	Unsigned integer.	N/A
DestID	Destination ID.	N/A	Unsigned integer.	N/A

IPsec/SmartVpnActiveLinks

This table is used to configure a smart-VPN active link.

XML structure

```
<IPsec>
  <SmartVpnActiveLinks>
    <SmartVpnActiveLink>
      <Name></Name>
      <LinkID></LinkID>
    </SmartVpnActiveLink>
  </SmartVpnActiveLinks>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnActiveLinks
Table type	Multi-instance table
Row name	SmartVpnActiveLink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Profile name	Index	String Length: 1 to 63 characters.	N/A
LinkID	Link ID	N/A	Unsigned integer. Value range: 1 to 30.	N/A

IPsec/IPSecDiagnose

This table is used to set Diagnose item for IPSec.

XML structure

```
<IPsec>
  <IPSecDiagnose>
    <Type></Type>
    <IfIndex></IfIndex>
    <Protocol></Protocol>
    <SrcIP></SrcIP>
    <DstIP></DstIP>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <Vrf></Vrf>
  </IPSecDiagnose>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPSecDiagnose

Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	The diagnose type	N/A	Enumeration: • **1**—Flow. • **2**—Interface. • **3**—RemoteIP.
IfIndex	The ifindex	N/A	Unsigned integer.
Protocol	The protocol number	N/A	Unsigned integer. Value range:0 to 255
SrcIP	The source IP	N/A	IPv4:String,dotted decimal notation.
DstIP	The destination IP	N/A	IPv4:String,dotted decimal notation.
SrcPort	The source port	N/A	Unsigned integer. Value range: 0 to 65535
DstPort	The destination port	N/A	Unsigned integer. Value range: 0 to 65535
Vrf	The vpn index	N/A	String,case-sensitive. Length:1 to 31 characters.

IPsec/StopDiagnose

This table is used to stop Diagnosing for IPSec.

XML structure

```
<IPsec>
  <StopDiagnose>
    <Stop/>
  </StopDiagnose>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	StopDiagnose
Table type	Single-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Stop	Stop diagnose	N/A	Must be empty

IPsec/ResetAllSdwanLocalSA

This table is used to reset all sdwan IPsec local SA.

XML structure

```
<IPsec>
  <ResetAllSdwanLocalSA>
    <Reset/>
  </ResetAllSdwanLocalSA>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetAllSdwanLocalSA
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Reset all sdwan IPsec local SA	N/A	Must be empty

IPsec/ResetSdwanLocalSAByIfIndex

This table is used to reset sdwan IPsec local SA by interface index.

XML structure

```
<IPsec>
```

```
  <ResetSdwanLocalSAByIfIndex>
    <Reset>
      <IfIndex></IfIndex>
    </Reset>
  </ResetSdwanLocalSAByIfIndex>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSdwanLocalSAByIfIndex
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer

IPsec/ResetAllSdwanRemoteSA

This table is used to reset all sdwan IPsec Remote SA.

XML structure

```
<IPsec>
  <ResetAllSdwanRemoteSA>
    <Reset/>
  </ResetAllSdwanRemoteSA>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetAllSdwanRemoteSA
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Reset all sdwan IPsec Remote SA	N/A	Must be empty	Reset

IPsec/ResetAllSdwanTunnel

This table is used to reset all sdwan IPsec tunnel.

XML structure

```
<IPsec>
  <ResetAllSdwanTunnel>
    <Reset/>
  </ResetAllSdwanTunnel>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetAllSdwanTunnel
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Reset all sdwan IPsec tunnel	N/A	Must be empty

IPsec/ResetSdwanTunnelById

This table is used to reset sdwan IPsec tunnel by tunnel id.

XML structure

```
<IPsec>
  <ResetSdwanTunnelById>
```

```
    <Reset>
      <TunnelID></TunnelID>
    </Reset>
  </ResetSdwanTunnelById>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSdwanTunnelById
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.

IPsec/ClearAllSdwanTunnelStats

This table is used to clear all sdwan IPsec tunnel statistics.

XML structure

```
<IPsec>
  <ClearAllSdwanTunnelStats>
    <Clear/>
  </ClearAllSdwanTunnelStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ClearAllSdwanTunnelStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all sdwan IPsec sdwan statistics	N/A	Must be empty

IPsec/ClearSdwanTunnelStatsById

This table is used to clear sdwan IPsec tunnel statistics by tunnel id.

XML structure

```
<IPsec>
  <ClearSdwanTunnelStatsById>
    <Clear>
      <TunnelID></TunnelID>
    </Clear>
  </ClearSdwanTunnelStatsById>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ClearSdwanTunnelStatsById
Table type	Multi-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.

Contents

IPsec 1

IPsec/IPv4ApplyPolicies 1
XML structure 1
Table description 1
Columns 1
IPsec/IPv6ApplyPolicies 1
XML structure 2
Table description 2
Columns 2
IPsec/IPv4SourceInterfaces 2
XML structure 2
Table description 3
Columns 3
IPsec/IPv6SourceInterfaces 3
XML structure 3
Table description 3
Columns 4
IPsec/InterfacesDFBit 4
XML structure 4
Table description 4
Columns 5
IPsec/GlobalConf 5
XML structure 5
Table description 6
Columns 6
IPsec/TransformSets 8
XML structure 8
Table description 8
Columns 9
IPsec/IPv4ISAKMPPolicies 10
XML structure 10
Table description 11
Columns 11
IPsec/IPv4PolicyRemoteAddresses 15
XML structure 15
Table description 15
Columns 15
IPsec/IPv6ISAKMPPolicies 16
XML structure 16
Table description 17
Columns 17
IPsec/IPv6PolicyRemoteAddresses 21
XML structure 21
Table description 21
Columns 21
IPsec/IPv4ISAKMPTemplatePolicies 22
XML structure 22
Table description 22
Columns 23
IPsec/IPv6ISAKMPTemplatePolicies 23
XML structure 23
Table description 23
Columns 24
IPsec/IPv4PolicyTemplates 24
XML structure 24
Table description 25
Columns 25

IPsec/IPv6PolicyTemplates 28
XML structure 28
Table description 29
Columns 29
IPsec/IPv4ManualPolicies 32
XML structure 32
Table description 32
Columns 33
IPsec/IPv6ManualPolicies 33
XML structure 34
Table description 34
Columns 34
IPsec/IPv4ManualPolicyKeys 35
XML structure 35
Table description 36
Columns 36
IPsec/IPv6ManualPolicyKeys 37
XML structure 38
Table description 38
Columns 38
IPsec/ManualProfiles 40
XML structure 40
Table description 40
Columns 41
IPsec/ManualProfileKeys 41
XML structure 41
Table description 42
Columns 42
IPsec/IsakmpProfiles 43
XML structure 43
Table description 44
Columns 44
IPsec/TunnelApplyProfile 45
XML structure 46
Table description 46
Columns 46
IPsec/SmartVpnProfiles 47
XML structure 47
Table description 47
Columns 47
IPsec/SmartVpnGateways 48
XML structure 48
Table description 49
Columns 49
IPsec/SmartVpnLinkLists 49
XML structure 49
Table description 50
Columns 50
IPsec/InterfacesNoNat 50
XML structure 50
Table description 51
Columns 51
IPsec/SdwanProfiles 51
XML structure 51
Table description 52
Columns 52

IPsec

IPsec/IPv4ApplyPolicies

This table is used to apply an IPsec IPv4 policy to an interface.

XML structure

```
<IPsec>
  <IPv4ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv4ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name		String. Length: 1 to 63 characters.

IPsec/IPv6ApplyPolicies

This table is used to apply an IPsec IPv6 policy to an interface.

XML structure

```
<IPsec>
  <IPv6ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv6ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name		String. Length: 1 to 63 characters.

IPsec/IPv4SourceInterfaces

This table is used to bound an IPsec IPv4 policy to a source interface.

XML structure

```
<IPsec>
  <IPv4SourceInterfaces>
    <IPv4SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv4SourceInterface>
  </IPv4SourceInterfaces>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4SourceInterfaces
Table type	Multi-instance table
Row name	IPv4SourceInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
`Interface`	The source interface name	N/A	String.	N/A

IPsec/IPv6SourceInterfaces

This table is used to bound an IPsec IPv6 policy to a source interface.

XML structure

```
<IPsec>
  <IPv6SourceInterfaces>
    <IPv6SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv6SourceInterface>
  </IPv6SourceInterfaces>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6SourceInterfaces
Table type	Multi-instance table
Row name	IPv6SourceInterface

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/InterfacesDFBit

This table is used to configure the DF bit on the interface.

XML structure

```
<IPsec>
  <InterfacesDFBit>
    <InterfaceDFBit>
      <IfIndex></IfIndex>
      <DFBit></DFBit>
    </InterfaceDFBit>
  </InterfacesDFBit>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesDFBit
Table type	Multi-instance table
Row name	InterfaceDFBit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	N/A Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on an interface	N/A	Enumeration: • **1**—clear. • **2**—copy. • **3**—set.	N/A

IPsec/GlobalConf

This table is used to configure IPsec global configuration.

XML structure

```
<IPsec>
  <GlobalConf>
    <DecryptCheck></DecryptCheck>
    <LoggingPacket></LoggingPacket>
    <Redundancy></Redundancy>
    <DFBit></DFBit>
    <AntiReplay>
      <State></State>
      <CheckWindow></CheckWindow>
    </AntiReplay>
    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime ></SAIdleTime>
    <FlowRedirect></FlowRedirect>
    <EstablishTunnelLimit></EstablishTunnelLimit>
    <Fragmentation></Fragmentation>
    <LoggingNegotiation></LoggingNegotiation>
    <SASoftDuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
```

```
    </SASoftDuration>
    <FlowOverlapCheck></FlowOverlapCheck>
    <IPv4FlowNetmask>
      <Source></Source>
      <Destination></Destination>
    </IPv4FlowNetmask>  </GlobalConf>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DecryptCheck	ACL checking for de-encapsulated IPsec packets.	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).
Redundancy	IPsec redundancy	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: • **1**—clear. • **2**—copy(default). • **3**—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: • State. • CheckWindow.
State	Anti-replay state	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			• **1**—Window size is 64(default). • **2**—Window size is 128. • 3—Window size is 256. • 4—Window size is 512. • 5—Window size is 1024. • 6—Window size is 2048. • 7—Window size is 4096.
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800. The default is 3600.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295. The default is 1843200.
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.
FlowRedirect	OpenFlow entry deployment	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).
EstablishTunnelLimit	Limit the number of IPsec tunnels	N/A	Unsigned integer. Value range: 1 to 4294967295.
Fragmentation	Fragment MTU-exceeded packets	N/A	Enumeration: • **1**—Fragment packets before IPsec encapsulation (default). • **2**—Fragment packets after IPsec encapsulation.
LoggingNegotiation	Logging for IPsec event negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).
SASoftDuration	Global IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.
Seconds	The time-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.
KiloBytes	The traffic-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.
FlowOverlapCheck	IPsec flow overlap check	N/A	Boolean: • true—Enable.

Column name	Column description	Column type	Data type and restrictions
			• false—Disable(default).
IPv4FlowNetmask	IPsec IPv4 flow mask filtering	Data structure	Members include: • Source. • Destination.
Source	Minimum mask length of the IPv4 flow source address	N/A	Unsigned integer. Value range: 1 to 32. The default is 0.
Destination	Minimum mask length of the IPv4 flow destination address	N/A	Unsigned integer. Value range: 1 to 32. The default is 0.

IPsec/TransformSets

This table is used to configure IPsec transform set information.

XML structure

```
<IPsec>
  <TransformSets>
    <TransformSet>
      <Name></Name>
      <EncapMode></EncapMode>
      <Proto></Proto>
      <ESPAuthAlgList>
        <ESPAuthAlgItem></ESPAuthAlgItem>
      </ESPAuthAlgList>
      <ESPEncrAlgList>
        <ESPEncrAlgItem></ESPEncrAlgItem>
      </ESPEncrAlgList>
      <AHAuthAlgList>
        <AHAuthAlgItem></AHAuthAlgItem>
      </AHAuthAlgList>
      <PFS></PFS>
      <EsnEnable></EsnEnable>
    </TransformSet>
  </TransformSets>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	TransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the IPsec transform set	Index	String. Length: 1 to 63 characters.	N/A
EncapMode	Encapsulation mode	N/A	Enumeration: • **1**—transport. • **2**—tunnel.	N/A
Proto	Security protocol	N/A	Enumeration: • 1—Specifies the AH protocol. • 2—Specifies using the ESP protocol first and then using the AH protocol. • 3—Specifies the ESP protocol(default).	N/A
ESPAuthAlgList	The authentication algorithm for ESP	Data structure	Members include: • ESPAuthAlgItem.	N/A
ESPAuthAlgItem	The authentication algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table.	N/A
ESPEncrAlgList	The encryption algorithm fo ESP	Data structure	Members include: • ESPEncrAlgItem.	N/A
ESPEncrAlgItem	The encryption algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table	Contains up to 6 ESPEncrAlgItem in ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for ESP	Data structure	Members include: • AHAuthAlgItem.	N/A
AHAuthAlgItem	The authentication algorithm number for AH	N/A	The algorithm number is defined by IPsecCapabilities table.	N/A
PFS	Perfect Forward	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Secrecy			
EsnEnable	Extended Sequence Number function	N/A	Enumeration: • **1**—Disable(default). • **2**—ESN. • **3**—ESN and non-ESN.	N/A

IPsec/IPv4ISAKMPPolicies

This table contains IPv4 ISAKMP policies information.

XML structure

```
<IPsec>
  <IPv4ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
```

```
      </Redundancy>
      <SmartLinkProfile></SmartLinkProfile>
      <SATriggerMode></SATriggerMode>
      <SASoftDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SASoftDuration>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
      <RemoteAddrList>
        <RemoteAddrItem></RemoteAddrItem>
      </RemoteAddrList>
      <Primary></Primary>
      <PolicyEnable></PolicyEnable>
      <Alias></Alias>
      <SwitchBack></SwitchBack>
      <ResponderOnly></ResponderOnly>
    </Policy>
  </IPv4ISAKMPPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number.	You can only specify Name or Number, but not both. To delete an ACL, specify the name,

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Mode.	number, or both the name and number of the ACL.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can specify Addr or HostName, but not both. Configure the normal address.
Addr	Remote IP address	N/A	IPv4 address, dotted decimal notation.	Example: 1.1.1.1
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SmartLinkProfile	Specify an Smart policy for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: • **1**—traffic-based(default). • **2**—auto.	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RemoteAddrList	Remote IP address list for the IPsec policy	Data structure	Members include: RemoteAddrItem	N/A
RemoteAddrItem	IPsec policy remote address	N/A	String. Length: 1 to 253 characters.	IPv4 address or host name string.
Primary	Use the first address as the primary address	N/A	Boolean: • **true**. • **false** (default).	N/A
PolicyEnable	Enable the IPsec policy entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A
SwitchBack	Automatic switchback to the primary remote address	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	responder only and does not initiate IPsec negotiation or IPsec renegotiation			

IPsec/IPv4PolicyRemoteAddresses

This table is used to configure IPv4 ISAKMP policy remote addresses information.

XML structure

```
<IPsec>
  <IPv4PolicyRemoteAddresses>
    <IPv4PolicyRemoteAddress>
      <Policy></Policy>
      <SeqNum></SeqNum>
      <RemoteAddress></RemoteAddress>
      <Primary></Primary>
      <TrackID></TrackID>
    </IPv4PolicyRemoteAddress>
  </IPv4PolicyRemoteAddresses>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyRemoteAddresses
Table type	Multi-instance table
Row name	IPv4PolicyRemoteAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteAddress	IPsec policy remote IPv4 address	Index	String. Length: 1 to 253 characters.	IPv4 address or host name string. Priority depends on the configuration order.
Primary	First address used as the primary address	N/A	Boolean**:** • **true.** • **false**(default)**.**	Only one instance can configure the primary address.
TrackID	The track entry ID	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

IPsec/IPv6ISAKMPPolicies

This table contains IPv6 ISAKMP policies information.

XML structure

```
<IPsec>
  <IPv6ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
```

```
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <Redundancy>
      <InboundSyncInterval></InboundSyncInterval>
      <OutboundSyncInterval></OutboundSyncInterval>
    </Redundancy>
    <SATriggerMode></SATriggerMode>
    <SASoftDuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SASoftDuration>
    <IKEv2Profile></IKEv2Profile>
    <TfcEnable></TfcEnable>
    <RemoteAddrList>
      <RemoteAddrItem></RemoteAddrItem>
    </RemoteAddrList>
    <Primary></Primary>
    <PolicyEnable></PolicyEnable>
    <Alias></Alias>
    <SwitchBack></SwitchBack>
    <ResponderOnly></ResponderOnly>
  </Policy>
 </IPv6ISAKMPPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both. To delete an ACL, specify the name, number, or both the name and number of the ACL.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can specify Addr or HostName, but not both. Configure the normal address.
Addr	Remote IP address	N/A	IPv6 address: Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile for the IPsec policy		Length: 1 to 63 characters.	
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSy	Outbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ncInterval	synchronization interval		Value range: 1000 to 100000. The default is 100000.	
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: • **1**—traffic-based(default). • **2**—auto.	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RemoteAddrList	Remote IPv6 address list for the IPsec policy	Data structure	Members include: RemoteAddrItem	N/A
RemoteAddrItem	IPsec policy remote IPv6 address	N/A	String. Length: 1 to 253 characters.	IPv6 address or host name string.
Primary	Use the first address as the primary address	N/A	Boolean: • true. • false (default).	N/A
PolicyEnable	Enable the IPsec policy entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A
SwitchBack	Automatic switchback to the primary remote address	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Responder Only	Enable the responder-only feature, so that	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the local device acts as the IPsec responder only and does not initiate IPsec negotiation or IPsec renegotiation		• **false**—Disable(default).	

IPsec/IPv6PolicyRemoteAddresses

This table is used to configure IPv6 ISAKMP policy remote addresses information.

XML structure

```
<IPsec>
  <IPv6PolicyRemoteAddresses>
    <IPv6PolicyRemoteAddress>
      <Policy></Policy>
      <SeqNum></SeqNum>
      <RemoteAddress></RemoteAddress>
      <Primary></Primary>
      <TrackID></TrackID>
    </IPv6PolicyRemoteAddress>
  </IPv6PolicyRemoteAddresses>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyRemoteAddresses
Table type	Multi-instance table
Row name	IPv6PolicyRemoteAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number for the IPsec policy		Value range: 1 to 65535.	
RemoteAddress	IPsec policy remote IPv6 address	Index	String. Length: 1 to 253 characters.	IPv6 address or host name string. Priority depends on the configuration order.
Primary	First address used as the primary address	N/A	Boolean**:** • **true.** • **false**(default)**.**	Only one instance can configure the primary address.
TrackID	The track entry ID	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

IPsec/IPv4ISAKMPTemplatePolicies

This table is used to configure IPv4 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv4ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv4ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv6ISAKMPTemplatePolicies

This table is used to configure IPv6 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv6ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv6ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv4PolicyTemplates

This table is used to configure IPv4 policy templates information.

XML structure

```
<IPsec>
  <IPv4PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
```

```
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
      <PolicyEnable></PolicyEnable>
      <Alias></Alias>
      <ResponderOnly></ResponderOnly>
    </Template>
  </IPv4PolicyTemplates>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both. To delete an ACL, specify the name, number, or both the name and number of the ACL.

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.

Column name	Column description	Column type	Data type and restrictions	Remarks
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyEnable	Enable the IPsec policy template entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy template entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

IPsec/IPv6PolicyTemplates

This table is used to configure IPv6 policy templates information.

XML structure

```
<IPsec>
  <IPv6PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
```

```
      <Tag></Tag>
    </RRI>
    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <Redundancy>
      <InboundSyncInterval></InboundSyncInterval>
      <OutboundSyncInterval></OutboundSyncInterval>
    </Redundancy>
    <IKEv2Profile></IKEv2Profile>
    <TfcEnable></TfcEnable>
    <PolicyEnable></PolicyEnable>
    <Alias></Alias>
    <ResponderOnly></ResponderOnly>
  </Template>
 </IPv6PolicyTemplates>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both. To delete an ACL, specify the name, number, or both the name and number of

Column name	Column description	Column type	Data type and restrictions	Remarks
				the ACL.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule(default). • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.

Column name	Column description	Column type	Data type and restrictions	Remarks
	name			
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disable(default).	
PolicyEnable	Enable the IPsec policy template entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy template entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

IPsec/IPv4ManualPolicies

This table is used to configure IPv4 manual policies.

XML structure

```
<IPsec>
  <IPv4ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
      <Alias></Alias>
    </Policy>
  </IPv4ManualPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	`IPv4ManualPolicies`
Table type	Multi-instance table
Row name	`Policy`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number.	You can only specify Name or Number, but not both. To delete an ACL, specify the name, number, or both the name and number of the ACL.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv4 address	N/A
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/IPv6ManualPolicies

This table is used to configure IPv6 manual policies.

XML structure

```
<IPsec>
  <IPv6ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
      <Alias></Alias>
    </Policy>
  </IPv6ManualPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv6ManualPolicies`
Table type	Multi-instance table
Row name	`Policy`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	transform set		Case insensitive	
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number.	You can only specify Name or Number, but not both. To delete an ACL, specify the name, number, or both the name and number of the ACL.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddr ess	Remote IP address	N/A	Ipv6 address	N/A
QosPreClas sify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/IPv4ManualPolicyKeys

This table is used to configure the IPv4 manual IPsec policy key information.

XML structure

```
<IPsec>
  <IPv4ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
```

```
      <Value></Value>
    </StringKey>
  </Key>
 </IPv4ManualPolicyKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv4ManualPolicyKeys`
Table type	Multi-instance table
Row name	`Key`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2^{16}-1.	N/A
Direction	SA's direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^{8} to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a

Column name	Column description	Column type	Data type and restrictions	Remarks
				20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a 16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of 1 to 117 characters.
StringKey	The string key	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/IPv6ManualPolicyKeys

This table is used to configure the IPv6 manual IPsec policy key information.

XML structure

```
<IPsec>
  <IPv6ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
        <Value></Value>
      </StringKey>
    </Key>
  </IPv6ManualPolicyKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv6ManualPolicyKeys`
Table type	Multi-instance table
Row name	`Key`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2^{16}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	SA's direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a 20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a 16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of

Column name	Column description	Column type	Data type and restrictions	Remarks
				1 to 117 characters.
StringKey	The string key	Data structure	Members include: • Type • Value	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/ManualProfiles

This table is used to configure the manual IPsec profile information.

XML structure

```
<IPsec>
  <ManualProfiles>
    <ManualProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
      <Alias></Alias>
    </ManualProfile>
  </ManualProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`ManualProfiles`
Table type	Multi-instance table
Row name	`ManualProfile`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Description	The description of the used IPsec profile.	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
Alias	Alias for the IPsec profile entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/ManualProfileKeys

This table is used to configure the manual IPsec profile key information.

XML structure

```
<IPsec>
  <ManualProfileKeys>
    <Key>
      <ProfileName></ProfileName>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
        <Value></Value>
      </StringKey>
    </Key>
  </ManualProfileKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`ManualProfileKeys`
Table type	Multi-instance table
Row name	`Key`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Direction	SA's direction	Index	• Enumeration: • 1—Inbound. • 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type • Value	N/A
Type	The type of the key	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a 20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption	Data structure	Members include: • Type	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	key.		• Value	
Type	The type of the key	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a 16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of 1 to 117 characters.
StringKey	The string key	Data structure	Members include: • Type • Value	The key can only choose one of the hex and string type
Type	The type of the key	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/IsakmpProfiles

This table is used to configure ISAKMP IPsec profile information.

XML structure

```
<IPsec>
  <IsakmpProfiles>
    <IsakmpProfile>
      <Name></Name>
      <Description></Description>
      <TransformSetList>
        <TransformSet></TransformSet>
        </TransformSetList>
```

```
      <IkeProfileName></IkeProfileName>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime ></SAIdleTime>
      <SASoftDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SASoftDuration>
      <IKEv2ProfileName></IKEv2ProfileName>
      <Alias></Alias>
      <ResponderOnly></ResponderOnly>
    </IsakmpProfile>
  </IsakmpProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IsakmpProfiles
Table type	Multi-instance table
Row name	IsakmpProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Description	The description of the used IPsec profile	N/A	String, case-sensitive Length: 1 to 80 characters	N/A
TransformsetList	The list of the IPsec transform sets		Members include: • Transformset	N/A
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 1 to 63 characters	A maximum of six transform set names can be specified.
IkeProfileName	The IKE profile name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
SADuration	IPsec SA life	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time	structure	• Seconds. • KiloBytes.	
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2ProfileName	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
Alias	Alias for the IPsec profile entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec negotiation or IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

IPsec/TunnelApplyProfile

This table is used to apply the IPsec profile name to the tunnel interface.

XML structure

```
<IPsec>
  <TunnelApplyProfile>
    <ApplyProfile>
      <TunnelID></TunnelID>
      <IPsecPrfName></IPsecPrfName>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
    </ApplyProfile>
  </TunnelApplyProfile>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	TunnelApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer Value range: 0 to 1023	N/A
IPsecPrfName	IPsec profile name	N/A	String Length: 0 to 63 characters The default is empty	Case-insensitive and contains only letters, digits, and dots (.).
ACL	Reference an ACL	Data structure	Members include: • Name. Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
Name	ACL name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A

IPsec/SmartVpnProfiles

This table contains basic smart-VPN profile information.

XML structure

```
<IPsec>
  <SmartVpnProfiles>
    <SmartVpnProfile>
      <Name></Name>
      <AutoSwitchCycles></AutoSwitchCycles>
      <DetectionInterval>
        <IntervalNum></IntervalNum>
        <PacketNum></PacketNum>
        <ThresholdLoss></ThresholdLoss>
        <ThresholdDelay></ThresholdDelay>
        <SrcAddr></SrcAddr>
        <DestAddr></DestAddr>
      </DetectionInterval>
      <Enable></Enable>
    </SmartVpnProfile>
  </SmartVpnProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnProfiles
Table type	Multi-instance table
Row name	SmartVpnProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Smart-VPN profile name	Index	String Length: 1 to 63 characters.	N/A
IfIndex	Interface index of the tunnel	N/A	Unsigned integer.	For information about the string type, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

AutoSwitchCycles	Maximum number of automatic switches allowed	N/A	Unsigned integer. Value range: 0 to 5.	Default value is 3.
DetectionInterval	The configuration of detection	Data structure	Members include: • IntervalNum • ThresholdType • ThresholdVal • SrcAddr • DestAddr	
IntervalNum	Detection Interval Num	N/A	Unsigned integer. Value range: 1 to 3.	Default value is 1.
PacketNum	Number of detection packets	N/A	Unsigned integer. Value range: 1 to 30.	Default value is 10.
ThresholdLoss	Threshold loss	N/A	Unsigned integer. Value range: 1 to 100.	Default value is 30.
ThresholdDelay	Threshold delay	N/A	Unsigned integer. Value range: 1 to 3000.	Default value is 500.
SrcAddr	Detection source IPv4 address	N/A	String, dotted decimal notation.	
DestAddr	Detection destination IPv4 address	N/A	String, dotted decimal notation.	
Enable	Whether Profile is enabled	N/A	Boolean: • **true**—enable profile • **false**—disable profile	

IPsec/SmartVpnGateways

This table contains basic gateway information.

XML structure

```
<IPsec>
  <SmartVpnGateways>
    <SmartVpnGateway>
      <IfIndex></IfIndex>
      <GatewayAddr></GatewayAddr>
      <NoRouteEnable></NoRouteEnable>
    </SmartVpnGateway>
  </SmartVpnGateways>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnGateways
Table type	Multi-instance table
Row name	SmartVpnGateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
GatewayAddr	Gateway address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
NoRouteEnable	Whether no route is enabled	N/A	Boolean: • **true**—enable no-route • **false**—disable no-route	

IPsec/SmartVpnLinkLists

This table contains basic link list information of a smart-VPN profile.

XML structure

```
<IPsec>
  <SmartVpnLinkLists>
    <SmartVpnLinkList>
      <ProfileName></ProfileName>
      <LinkID></LinkID>
      <IfIndex></IfIndex>
      <LinkLocalAddr></LinkLocalAddr>
      <LinkNextHop></LinkNextHop>
      <LinkRemote></LinkRemote>
    </SmartVpnLinkList>
  </SmartVpnLinkLists>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnLinkLists
Table type	Multi-instance table
Row name	SmartVpnLinkList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String Length: 1 to 63 characters.	N/A
LinkID	Link ID	Index	Unsigned integer. Value range: 1 to 10.	
IfIndex	Interface index	N/A	Unsigned integer.	For information about the string type,see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
LinkLocalAddr	Local IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
LinkNextHop	Nexthop IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
LinkRemote	Link remote IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

IPsec/InterfacesNoNat

This table is used to configure the no-nat-process for an interface.

XML structure

```
<IPsec>
  <InterfacesNoNat>
    <InterfaceNoNat>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceNoNat>
  </InterfacesNoNat>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesNoNat
Table type	Multi-instance table
Row name	InterfaceNoNat
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable the no-nat-process function	N/A	Boolean: • true • false	Default is false.

IPsec/SdwanProfiles

This table is used to configure sdwan IPsec profile information.

XML structure

```
<IPsec>
  <SdwanProfiles>
    <SdwanProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
      <SADuration>
        <Seconds></Seconds>
      </SADuration>
    </SdwanProfile>
  </SdwanProfiles>
```

```
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanProfiles
Table type	Multi-instance table
Row name	SdwanProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name	Index	String, case-insensitive Length: 1 to 63 characters.	N/A
Description	The description of the used IPsec profile	N/A	String, case-sensitive Length: 1 to 80 characters.	N/A
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 1 to 63 characters.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A

Contents

IPsec 1

IPsec/IPv4ApplyPolicies 1
XML structure 1
Table description 1
Columns 1
IPsec/IPv6ApplyPolicies 1
XML structure 2
Table description 2
Columns 2
IPsec/IPv4SourceInterfaces 2
XML structure 2
Table description 3
Columns 3
IPsec/IPv6SourceInterfaces 3
XML structure 3
Table description 3
Columns 4
IPsec/InterfacesDFBit 4
XML structure 4
Table description 4
Columns 5
IPsec/GlobalConf 5
XML structure 5
Table description 6
Columns 6
IPsec/TransformSets 8
XML structure 8
Table description 8
Columns 9
IPsec/IPv4ISAKMPPolicies 10
XML structure 10
Table description 11
Columns 11
IPsec/IPv4PolicyRemoteAddresses 15
XML structure 15
Table description 15
Columns 15
IPsec/IPv6ISAKMPPolicies 16
XML structure 16
Table description 17
Columns 17
IPsec/IPv6PolicyRemoteAddresses 21
XML structure 21
Table description 21
Columns 21
IPsec/IPv4ISAKMPTemplatePolicies 22
XML structure 22
Table description 22
Columns 22
IPsec/IPv6ISAKMPTemplatePolicies 23
XML structure 23
Table description 23
Columns 23
IPsec/IPv4PolicyTemplates 23
XML structure 24
Table description 25
Columns 25

IPsec/IPv6PolicyTemplates 27
XML structure 28
Table description 29
Columns 29
IPsec/IPv4ManualPolicies 31
XML structure 32
Table description 32
Columns 32
IPsec/IPv6ManualPolicies 33
XML structure 33
Table description 34
Columns 34
IPsec/IPv4ManualPolicyKeys 35
XML structure 35
Table description 35
Columns 35
IPsec/IPv6ManualPolicyKeys 36
XML structure 36
Table description 37
Columns 37
IPsec/ManualProfiles 38
XML structure 38
Table description 38
Columns 38
IPsec/ManualProfileKeys 39
XML structure 39
Table description 39
Columns 40
IPsec/Tunnels 40
XML structure 41
Table description 41
Columns 42
IPsec/SAs 44
XML structure 44
Table description 45
Columns 45
IPsec/GlobalSAs 47
XML structure 47
Table description 47
Columns 48
IPsec/Count 48
XML structure 48
Table description 49
Columns 49
IPsec/GlobalStats 49
XML structure 49
Table description 50
Columns 50
IPsec/TunnelStats 52
XML structure 52
Table description 53
Columns 53
IPsec/IPsecCapabilities 56
XML structure 56
Table description 56
Columns 56
List of algorithms 57
IPsec/DeviceCapabilities 58
XML structure 58
Table description 58
Columns 58
IPsec/IsakmpProfiles 59

XML structure 59
Table description 59
Columns 59
IPsec/TunnelApplyProfile 61
XML structure 61
Table description 61
Columns 61
IPsec/SmartVpnProfiles 62
XML structure 62
Table description 62
Columns 63
IPsec/SmartVpnGateways 63
XML structure 63
Table description 64
Columns 64
IPsec/SmartVpnLinkLists 64
XML structure 64
Table description 65
Columns 65
IPsec/InterfacesNoNat 65
XML structure 65
Table description 66
Columns 66
IPsec/DiagnoseItem 66
XML structure 66
Table description 67
Columns 67
IPsec/DiagnoseState 67
XML structure 67
Table description 67
Columns 68
IPsec/P2MPTunnels 68
XML structure 68
Table description 68
Columns 69
IPsec/P2MPTunnelCounts 69
XML structure 69
Table description 69
Columns 70
IPsec/SdwanTunnels 70
XML structure 70
Table description 71
Columns 71
IPsec/SdwanLocalSAs 72
XML structure 72
Table description 73
Columns 73
IPsec/SdwanRemoteSAs 75
XML structure 75
Table description 75
Columns 75
IPsec/SdwanTunnelStats 76
XML structure 76
Table description 77
Columns 77
IPsec/SdwanProfiles 79
XML structure 79
Table description 79
Columns 79

IPsec

IPsec/IPv4ApplyPolicies

This table displays IPv4 policies that have been applied to interface.

XML structure

```
<IPsec>
  <IPv4ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv4ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
Policy	IPsec policy name	Index	String. Length: 1 to 63 characters.

IPsec/IPv6ApplyPolicies

This table displays IPv6 policies that have been applied to interface.

XML structure

```
<IPsec>
  <IPv6ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv6ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
Policy	IPsec policy name	Index	String. Length: 1 to 63 characters.

IPsec/IPv4SourceInterfaces

This table displays IPv4 policies that have been bound to a source interface.

XML structure

```
<IPsec>
  <IPv4SourceInterfaces>
    <IPv4SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv4SourceInterface>
  </IPv4SourceInterfaces>
```

```
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4SourceInterfaces
Table type	Multi-instance table
Row name	IPv4SourceInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/IPv6SourceInterfaces

This table displays IPv6 policies that have been bound to a source interface.

XML structure

```
<IPsec>
  <IPv6SourceInterfaces>
    <IPv6SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv6SourceInterface>
  </IPv6SourceInterfaces>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6SourceInterfaces
Table type	Multi-instance table

Row name	IPv6SourceInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/InterfacesDFBit

This table displays the DF bit on the interface.

XML structure

```
<IPsec>
  <InterfacesDFBit>
    <InterfaceDFBit>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <DFBit></DFBit>
    </InterfaceDFBit>
  </InterfacesDFBit>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesDFBit
Table type	Multi-instance table
Row name	InterfaceDFBit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	N/A Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.	N/A
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on an interface	N/A	Enumeration: • **1**—clear. • **2**—copy. • **3**—set.	N/A

IPsec/GlobalConf

This table displays IPsec global configuration information.

XML structure

```
<IPsec>
  <GlobalConf>
    <DecryptCheck></DecryptCheck>
    <LoggingPacket></LoggingPacket>
    <Redundancy></Redundancy>
    <DFBit></DFBit>
    <AntiReplay>
      <State></State>
      <CheckWindow></CheckWindow>
    </AntiReplay>
    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <FlowRedirect></FlowRedirect>
    <EstablishTunnelLimit></EstablishTunnelLimit>
    <Fragmentation></Fragmentation>
    <LoggingNegotiation></LoggingNegotiation>
    <SASoftDuration>
```

```
    <Seconds></Seconds>
    <KiloBytes></KiloBytes>
  </SASoftDuration>
  <FlowOverlapCheck></FlowOverlapCheck>
  <IPv4FlowNetmask>
    <Source></Source>
    <Destination></Destination>
  </IPv4FlowNetmask>  </GlobalConf>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DecryptCheck	ACL checking for de-encapsulated IPsec packets.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: • **true**—Enable. • **false**—Disable.
Redundancy	IPsec redundancy	N/A	Boolean: • **true**—Enable. • **false**—Disable.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: • **1**—clear. • **2**—copy. • **3**—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: • State. • CheckWindow.
State	Anti-replay state	N/A	Boolean: • **true**—Enable. • **false**—Disable.
CheckWind	Anti-replay	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
ow	window size		• **1**—Window size is 64. • **2**—Window size is 128. • 3—Window size is 256. • 4—Window size is 512. • 5—Window size is 1024. • 6—Window size is 2048. • 7—Window size is 4096.
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800. The default is 3600.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295. The default is 1843200.
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.
FlowRedirect	OpenFlow entry deployment	N/A	Boolean: • **true**—Enable. • **false**—Disable.
EstablishTunnelLimit	Limit the number of IPsec tunnels	N/A	Unsigned integer. Value range: 1 to 4294967295.
Fragmentation	Fragment MTU-exceeded packets	N/A	Enumeration: • **1**—Fragment packets before IPsec encapsulation. • **2**—Fragment packets after IPsec encapsulation.
LoggingNegotiation	Logging for IPsec event negotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.
SASoftDuration	Global IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.
Seconds	The time-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.
KiloBytes	The traffic-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.
FlowOverlapCheck	IPsec flow overlap check	N/A	Boolean: • true—Enable. • false—Disable.

Column name	Column description	Column type	Data type and restrictions
IPv4FlowNetmask	IPsec IPv4 flow mask filtering	Data structure	Members include: • Source. • Destination.
Source	Minimum mask length of the IPv4 flow source address	N/A	Unsigned integer. Value range: 1 to 32. The default is 0.
Destination	Minimum mask length of the IPv4 flow destination address	N/A	Unsigned integer. Value range: 1 to 32. The default is 0.

IPsec/TransformSets

This table displays transform sets information.

XML structure

```
<IPsec>
  <TransformSets>
    <TransformSet>
      <Name></Name>
      <EncapMode></EncapMode>
      <Proto></Proto>
      <ESPAuthAlgList>
        <ESPAuthAlgItem></ESPAuthAlgItem>
      </ESPAuthAlgList>
      <ESPEncrAlgList>
        <ESPEncrAlgItem></ESPEncrAlgItem>
      </ESPEncrAlgList>
      <AHAuthAlgList>
        <AHAuthAlgItem></AHAuthAlgItem>
      </AHAuthAlgList>
      <PFS></PFS>
      <EsnEnable></EsnEnable>
    </TransformSet>
  </TransformSets>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	TransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the IPsec transform set	Index	String. Length: 1 to 63 characters.	N/A
EncapMode	Encapsulation mode	N/A	Enumeration: • **1**—transport. • **2**—tunnel.	N/A
Proto	Security protocol	N/A	Enumeration: • 1—Specifies the AH protocol. • 2—Specifies using the ESP protocol first and then using the AH protocol. • 3—Specifies the ESP protocol.	N/A
ESPAuthAlgList	The authentication algorithm for ESP	Data structure	Members include: • ESPAuthAlgItem.	N/A
ESPAuthAlgItem	The authentication algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table.	N/A
ESPEncrAlgList	The encryption algorithm fo ESP	Data structure	Members include: • ESPEncrAlgItem.	N/A
ESPEncrAlgItem	The encryption algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table	Contains up to 6 ESPEncrAlgItem in ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for ESP	Data structure	Members include: • AHAuthAlgItem.	N/A
AHAuthAlgItem	The authentication algorithm number for AH	N/A	The algorithm number is defined by IPsecCapabilities table.	N/A
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EsnEnable	Extended Sequence Number function	N/A	Enumeration: • **1**—Disable(default). • **2**—ESN. • **3**—ESN and non-ESN.	N/A

IPsec/IPv4ISAKMPPolicies

This table displays IPv4 ISAKMP policies information.

XML structure

```
<IPsec>
  <IPv4ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
```

```
<SmartLinkProfile></SmartLinkProfile>     <SATriggerMode></SATriggerMode>
     <SASoftDuration>
       <Seconds></Seconds>
       <KiloBytes></KiloBytes>
     </SASoftDuration>
     <IKEv2Profile></IKEv2Profile>
     <TfcEnable></TfcEnable>
     <RemoteAddrList>
       <RemoteAddrItem></RemoteAddrItem>
     </RemoteAddrList>
     <Primary></Primary>
     <PolicyEnable></PolicyEnable>
     <Alias></Alias>
     <SwitchBack></SwitchBack>
     <ResponderOnly></ResponderOnly>
   </Policy>
  </IPv4ISAKMPPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule. • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	The Get operation gets the address currently in use.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disable.	
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: • **1**—traffic-based. • **2**—auto.	N/A
SmartLinkProfile	Specify an Smart policy for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
SASoftDurat	IPsec SA soft	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ion	lifetime buffer	structure	• Seconds. • KiloBytes.	
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
RemoteAddrList	Remote IPv4 address list for the IPsec policy	Data structure	Members include: RemoteAddrItem	N/A
RemoteAddrItem	IPsec policy remote IPv4 address	N/A	String. Length: 1 to 253 characters.	IPv4 address or host name string.
Primary	First address used as the primary address	N/A	Boolean: • **true.** • **false.**	N/A
PolicyEnable	Enable the IPsec policy entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A
SwitchBack	Automatic switchback to the primary remote address	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec negotiation or IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

IPsec/IPv4PolicyRemoteAddresses

This table displays IPv4 ISAKMP policy remote addresses information.

XML structure

```
<IPsec>
  <IPv4PolicyRemoteAddresses>
    <IPv4PolicyRemoteAddress>
      <Policy></Policy>
      <SeqNum></SeqNum>
      <RemoteAddress></RemoteAddress>
      <Primary></Primary>
      <TrackID></TrackID>
    </IPv4PolicyRemoteAddress>
  </IPv4PolicyRemoteAddresses>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyRemoteAddresses
Table type	Multi-instance table
Row name	IPv4PolicyRemoteAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteAddress	IPsec policy remote IPv4 address	Index	String. Length: 1 to 253 characters.	IPv4 address or host name string. Priority depends on the configuration order.
Primary	First address used as the primary address	N/A	Boolean**:** • **true.** • **false.**	Only one instance can configure the primary address.

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackID	The track entry ID	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

IPsec/IPv6ISAKMPPolicies

This table displays IPv6 ISAKMP policies information.

XML structure

```
<IPsec>
  <IPv6ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
```

```
      <SATriggerMode></SATriggerMode>
      <SASoftDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SASoftDuration>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
      <RemoteAddrList>
        <RemoteAddrItem></RemoteAddrItem>
      </RemoteAddrList>
      <Primary></Primary>
      <PolicyEnable></PolicyEnable>
      <Alias></Alias>
      <SwitchBack></SwitchBack>
      <ResponderOnly></ResponderOnly>
    </Policy>
  </IPv6ISAKMPPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule. • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	The Get operation gets the address currently in use.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disable.	
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: • **1**—traffic-based. • **2**—auto.	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	soft lifetime buffer of IPsec SA		Value range: 20 to 201600.	
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
RemoteAddrList	Remote IPv6 address list for the IPsec policy	Data structure	Members include: RemoteAddrItem	N/A
RemoteAddrItem	IPsec policy remote IPv6 address	N/A	String. Length: 1 to 253 characters.	IPv6 address or host name string.
Primary	First address used as the primary address	N/A	Boolean: • true. • false.	N/A
PolicyEnable	Enable the IPsec policy entry	N/A	Boolean: • **true**—Disable. • **false**—Enable (default).	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A
SwitchBack	Automatic switchback to the primary remote address	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec negotiation or IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

IPsec/IPv6PolicyRemoteAddresses

This table displays IPv6 ISAKMP policy remote addresses information.

XML structure

```
<IPsec>
  <IPv6PolicyRemoteAddresses>
    <IPv6PolicyRemoteAddress>
      <Policy></Policy>
      <SeqNum></SeqNum>
      <RemoteAddress></RemoteAddress>
      <Primary></Primary>
      <TrackID></TrackID>
    </IPv6PolicyRemoteAddress>
  </IPv6PolicyRemoteAddresses>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyRemoteAddresses
Table type	Multi-instance table
Row name	IPv6PolicyRemoteAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteAddress	IPsec policy remote IPv6 address	Index	String. Length: 1 to 253 characters.	IPv6 address or host name string. Priority depends on the configuration order.
Primary	First address used as the primary address	N/A	Boolean**:** • **true.** • **false.**	Only one instance can configure the primary address.
TrackID	The track entry ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 1024.	

IPsec/IPv4ISAKMPTemplatePolicies

This table displays IPv4 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv4ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv4ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv6ISAKMPTemplatePolicies

This table displays IPv6 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv6ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv6ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv4PolicyTemplates

This table displays IPv4 policy templates information.

XML structure

```
<IPsec>
  <IPv4PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
      <PolicyEnable></PolicyEnable>
      <Alias></Alias>
      <ResponderOnly></ResponderOnly>
    </Template>
  </IPv4PolicyTemplates>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule. • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec

Column name	Column description	Column type	Data type and restrictions	Remarks
				tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time-based lifetime of IPsec SA		Value range: 180 to 604800.	
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
PolicyEnable	Enable the IPsec policy template entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default).	N/A
Alias	Alias for the IPsec policy template entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

IPsec/IPv6PolicyTemplates

This table displays IPv6 policy templates information.

XML structure

```
<IPsec>
  <IPv6PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
      <PolicyEnable></PolicyEnable>
      <Alias></Alias>
      <ResponderOnly></ResponderOnly>
    </Template>
  </IPv6PolicyTemplates>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name. • Number. • Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: • **1**—per-rule. • **2**—per-host. • 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec

Column name	Column description	Column type	Data type and restrictions	Remarks
				tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: • Addr. • HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: • Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: • RRIEnable. • Preference. • Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time-based lifetime of IPsec SA		Value range: 180 to 604800.	
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to `86400`.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: • InboundSyncInterval. • OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
PolicyEnable	Enable the IPsec policy template entry	N/A	Boolean: • **true**—Disable. • **false**—Enable(default)..	N/A
Alias	Alias for the IPsec policy template entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not initiate IPsec renegotiation	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

IPsec/IPv4ManualPolicies

This table displays IPv4 manual policies.

XML structure

```
<IPsec>
  <IPv4ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
         <Name></Name>
         <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
      <Alias></Alias>
    </Policy>
  </IPv4ManualPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv4ManualPolicies`
Table type	Multi-instance table
Row name	`Policy`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv4 address	N/A
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/IPv6ManualPolicies

This table displays IPv6 manual policies.

XML structure

```
<IPsec>
  <IPv6ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
         <Name></Name>
         <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
      <Alias></Alias>
    </Policy>
  </IPv6ManualPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv6ManualPolicies`
Table type	Multi-instance table
Row name	`Policy`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv6 address	N/A
QosPreClassify	QoS pre-classify feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Alias	Alias for the IPsec policy entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/IPv4ManualPolicyKeys

This table displays the IPv4 manual IPsec policy key information.

XML structure

```
<IPsec>
  <IPv4ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
      </StringKey>
    </Key>
  </IPv4ManualPolicyKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv4ManualPolicyKeys`
Table type	Multi-instance table
Row name	`Key`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2^{16}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	SA's direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
StringKey	The string key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A

IPsec/IPv6ManualPolicyKeys

This table displays the IPv6 manual IPsec policy key information.

XML structure

```
<IPsec>
  <IPv6ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
```

```
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
      </StringKey>
    </Key>
  </IPv6ManualPolicyKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`IPv6ManualPolicyKeys`
Table type	Multi-instance table
Row name	`Key`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2^{16}-1.	N/A
Direction	SA's direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^{8} to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
EncryptionHexKey	The hexadecimal	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	encryption key.		• Type	
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
StringKey	The string key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A

IPsec/ManualProfiles

This table displays the manual IPsec profile information.

XML structure

```
<IPsec>
  <ManualProfiles>
    <ManualProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
      <Alias></Alias>
    </ManualProfile>
  </ManualProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`ManualProfiles`
Table type	Multi-instance table
Row name	`ManualProfile`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile name.		Length: 1 to 63 characters. Case insensitive	
Description	The description of the used IPsec profile.	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
Alias	Alias for the IPsec profile entry	N/A	String. Length: 1 to 127 characters.	N/A

IPsec/ManualProfileKeys

This table displays the manual IPsec profile key information.

XML structure

```
<IPsec>
  <ManualProfileKeys>
    <Key>
      <ProfileName></ProfileName>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
      </StringKey>
    </Key>
  </ManualProfileKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`ManualProfileKeys`

Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Direction	SA's direction	Index	• Enumeration: • 1—Inbound. • 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: • **1**—ESP. • **2**—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to 2^{32}-1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A
StringKey	The string key	Data structure	Members include: • Type	N/A
Type	The key type	N/A	Enumeration: • 1—simple. • 2—cipher.	N/A

IPsec/Tunnels

This table displays IPsec tunnels information.

XML structure

```
<IPsec>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <AddrType></AddrType>
      <Status></Status>
      <SAMode></SAMode>
      <PFS></PFS>
      <ACLNumber></ACLNumber>
      <LocalAddr></LocalAddr>
      <RemoteAddr></RemoteAddr>
      <SrcFlow>
        <Proto></Proto>
        <Addr></Addr>
        <MaskLen></MaskLen>
        <Port></Port>
      </SrcFlow>
      <DestFlow>
        <Proto></Proto>
        <Addr></Addr>
        <MaskLen></MaskLen>
        <Port></Port>
      </DestFlow>
      <SecurityProto></SecurityProto>
      <SPI>
        <ESPInbound></ESPInbound>
        <ESPOutbound></ESPOutbound>
        <AHInbound></AHInbound>
        <AHOutbound></AHOutbound>
      </SPI>
      <PolicyName></PolicyName>
      <PolicySeqNum></PolicySeqNum>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <InsideVRF></InsideVRF>
      <PolicyAlias></PolicyAlias>
      <TunnelStatus></TunnelStatus>
    </Tunnel>
  </Tunnels>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
AddrType	IP protocol type	N/A	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.
SAMode	SA negotiation mode	N/A	Enumeration: • **1**—Manual. • **2**—ISAKMP. • **3**—Template.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.
ACLNumber	ACL Number	N/A	Unsigned integer. Value range: 3000 to 3999.
LocalAddr	Source IP address of the IPsec tunnel	N/A	Ipv4 address or Ipv6 address
RemoteAddr	Destination IP address of the IPsec tunnel	N/A	Ipv4 address or Ipv6 address
SrcFlow	Source data flow protected by the IPsec tunnel	Data structure	Members include: • Proto. • Addr. • MaskLen. • Port.
Proto	Source protocol type	N/A	Unsigned integer. Value range: 0 to 255.
Addr	Source IP address	N/A	Ipv4 address or Ipv6 address
MaskLen	Source IP address mask length	N/A	Unsigned integer.
Port	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
DestFlow	Destination data flow protected by the IPsec tunnel	Data structure	Members include: • Proto. • Addr. • MaskLen. • Port.
Proto	Destination protocol type	N/A	Unsigned integer. Value range: 0 to 255.
Addr	Destination IP address	N/A	Ipv4 address or Ipv6 address
MaskLen	Destination IP address mask length	N/A	Unsigned integer.
Port	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.
SecurityProto	IPsec SecurityProtocol	N/A	Enumeration: • 1—AH. • 2—AH-ESP. • 3—ESP.
SPI	Security Parameter Index	Data structure	Members include: • ESPInbound. • ESPOutbound. • AHInbound. • AHOutbound.
ESPInbound	ESP inbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.
ESPOutbound	ESP outbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.
AHInbound	AH inbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.
AHOutbound	AH Outbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.
PolicyName	The ISAKMP policy name	N/A	String. Length: 1 to 63 characters.
PolicySeqNum	The sequence number for the IPsec policy	N/A	Unsigned integer. Value range: 1 to 65535. N/A
IfIndex	Interface index	N/A	Unsigned integer.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
InsideVRF	Inside vpn-instance	N/A	String. Length: 1 to 31 characters.
PolicyAlias	Alias of the IPsec policy	N/A	String. Length: 1 to 127 characters.

Column name	Column description	Column type	Data type and restrictions
	entry		
TunnelStatus	IPsec tunnel status	N/A	Enumeration: • **1**—Not established • **2**—Established

IPsec/SAs

This table displays IPsec SA information.

XML structure

```
<IPsec>
  <SAs>
    <SA>
      <TunnelID></TunnelID>
      <SAIndex></SAIndex>
      <Direction></Direction>
      <Proto></Proto>
      <SPI></SPI>
      <SAMode></SAMode>
      <EncapMode></EncapMode>
      <PFS></PFS>
      <AuthAlg></AuthAlg>
      <EncrAlg></EncrAlg>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SARemainingDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SARemainingDuration>
      <RemainingIdleTime></RemainingIdleTime>
      <NatTraversal></NatTraversal>
      <AntiReplay>
        <State></State>
        <CheckWindow></CheckWindow>
      </AntiReplay>
      <PathMTU></PathMTU>
      <MaxRcvSN></MaxRcvSN>
      <MaxSendSN></MaxSendSN>
      <Status></Status>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PolicyName></PolicyName>
      <PolicySeqNum></PolicySeqNum>
```

```
    </SA>
  </SAs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SAs
Table type	Multi-instance table
Row name	SA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID which the SA belongs to	Index	Unsigned integer.
SAIndex	SA index	Index	Unsigned integer.
Direction	SA's direction	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound.
Proto	Security protocol	N/A	Enumeration: • **1**—AH. • **2**—ESP.
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
SAMode	SA negotiation mode	N/A	Enumeration: • **1**—Manual. • **2**—ISAKMP. • **3**—Template.
EncapMode	Encapsulation mode	N/A	Enumeration: • **1**—transport. • **2**—tunnel.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.
AuthAlg	Authentication algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
EncrAlg	Encryption algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
SADuration	IPsec SA life time	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
			• Seconds. • KiloBytes.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.
SARemainingDuration	Remaining IPsec SA lifetime	Data structure	Members include: • Seconds. • KiloBytes.
Seconds	Remaining IPsec SA lifetime in seconds	N/A	Unsigned integer. Value range: 180 to 604800.
KiloBytes	Remaining IPsec SA lifetime in kilobytes	N/A	Unsigned integer. Value range: 2560 to 4294967295.
RemainingIdleTime	Remaining IPsec SA idle time	N/A	Unsigned integer. Value range: 0 to 86400.
NatTraversal	UDP encapsulation used for NAT traversal	N/A	Boolean: • **true**—Enable. • **false**—Disable.
AntiReplay	Anti-replay configuration	Data structure	Members include: • State. • CheckWindow.
State	Anti-replay state	N/A	Boolean: • **true**—Enable. • **false**—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: • **1**—Window size is 64. • **2**—Window size is 128. • 3—Window size is 256. • 4—Window size is 512. • 5—Window size is 1024. • 6—Window size is 2048. • 7—Window size is 4096.
PathMTU	Path MTU of the IPsec SA	N/A	Unsigned integer.
MaxRcvSN	Max sequence number in the received packets	N/A	Unsigned integer.
MaxSendSN	Max sequence	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	number in the sent packets		
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.
IfIndex	Interface index	N/A	Unsigned integer.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
PolicyName	Name of the used IPsec policy	N/A	String. Length: 1 to 63 characters.
PolicySeqNum	Sequence number of the IPsec policy entry	N/A	Unsigned integer. Value range: 1 to 65535.

IPsec/GlobalSAs

This table displays information about IPsec SAs.

XML structure

```
<IPsec>
  <GlobalSAs>
    <GlobalSA>
      <TunnelID></TunnelID>
      <SAIndex></SAIndex>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <PFS></PFS>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <Status></Status>
      <ProfileName></ProfileName>
    </GlobalSA>
  </GlobalSAs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	`GlobalSAs`

Table type	Multi-instance table
Row name	`GlobalSA`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IPsec tunnel ID	Index	Unsigned integer.	N/A
SAIndex	SA index	Index	Unsigned integer.	N/A
Direction	SA's direction	N/A	Enumeration: • **1**—Inbound. • 2—Outbound	N/A
Protocol	Security protocol	N/A	Enumeration: • **1**—AH. • **2**—ESP.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
PFS	Perfect Forward Secrecy	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
AuthorityAlg	Authentication algorithm	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
EncryptionAlg	Encryption algorithm	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.	N/A
ProfileName	The IPsec profile name.	N/A	String. Length: 1 to 63 characters.	N/A

IPsec/Count

This table displays IPsec SA and Tunnel count information.

XML structure

```
<IPsec>
  <Count>
    <SACount></SACount>
    <TunnelCount></TunnelCount>
```

```
  </Count>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	Count
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SACount	The number of IPsec SAs	N/A	Unsigned integer.
TunnelCount	The number of IPsec tunnels	N/A	Unsigned integer.

IPsec/GlobalStats

This table displays IPsec global statistics information.

XML structure

```
<IPsec>
  <GlobalStats>
    <RcvPkts></RcvPkts>
    <SentPkts></SentPkts>
    <RcvBytes></RcvBytes>
    <SentBytes></SentBytes>
    <RcvPktRate></RcvPktRate>
    <SentPktRate></SentPktRate>
    <RcvByteRate></RcvByteRate>
    <SentByteRate></SentByteRate>
    <DropRcvPkts></DropRcvPkts>
    <DropSentPkts></DropSentPkts>
    <DropPktsStats>
      <NoAvailableSA></NoAvailableSA>
      <WrongSA></WrongSA>
      <InvalidLen></InvalidLen>
      <AuthFailure></AuthFailure>
      <EncapFailure></EncapFailure>
```

```
      <DecapFailure></DecapFailure>
      <Replayed></Replayed>
      <ACLCheckFailure></ACLCheckFailure>
      <MTUCheckFailure></MTUCheckFailure>
      <LoopbackLimitExceeded></LoopbackLimitExceeded>
      <CryptospeedLimitExceeded></CryptospeedLimitExceeded>
      <ResponderOnlyLimit></ResponderOnlyLimit>
    </DropPktsStats>
  </GlobalStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RcvPkts	Number of received sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentPkts	Number of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvBytes	Number of bytes of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentBytes	Number of bytes of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvPktRate	Number of IPsec-protected packets received per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentPktRate	Number of IPsec-protected packets sent	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

Column name	Column description	Column type	Data type and restrictions
	per second		
RcvByteRate	Number of bytes of IPsec-protected packets received per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentByteRate	Number of bytes of IPsec-protected packets sent per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropRcvPkts	Number of dropped IPsec-protected received packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropSentPkts	Number of dropped IPsec-protected sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropPktsStats	Dropped packets statistics	Data structure	Members include: • NoAvailableSA. • WrongSA. • InvalidLen. • AuthFailure. • EncapFailure. • DecapFailure. • Replayed. • ACLCheckFailure. • MTUCheckFailure. • LoopbackLimitExceeded.
NoAvailableSA	Number of dropped packets due to lack of available IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
WrongSA	Number of dropped packets due to wrong IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
InvalidLen	Number of dropped packets due to invalid packet length	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
AuthFailure	Number of dropped packets due to authentication failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

Column name	Column description	Column type	Data type and restrictions
EncapFailure	Number of dropped packets due to encapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DecapFailure	Number of dropped packets due to decapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
Replayed	Number of dropped replayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
ACLCheckFailure	Number of dropped packets due to ACL check failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
MTUCheckFailure	Number of dropped packets due to MTU check failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
LoopbackLimitExceeded	Number of dropped packets due to loopback limit exceeded	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
CryptospeedLimitExceeded	Number of dropped packets due to Cryptospeed exceeded	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
ResponderOnlyLimit	Number of packets dropped because of the responder-only restriction	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

IPsec/TunnelStats

This table displays IPsec tunnel statistics information.

XML structure

```
<IPsec>
  <TunnelStats>
    <Stats>
      <TunnelID></TunnelID>
```

```
      <RcvPkts></RcvPkts>
      <SentPkts></SentPkts>
      <RcvBytes></RcvBytes>
      <SentBytes></SentBytes>
      <RcvPktRate></RcvPktRate>
      <SentPktRate></SentPktRate>
      <RcvByteRate></RcvByteRate>
      <SentByteRate></SentByteRate>
      <DropRcvPkts></DropRcvPkts>
      <DropSentPkts></DropSentPkts>
      <DropPktsStats>
        <NoAvailableSA></NoAvailableSA>
        <WrongSA></WrongSA>
        <InvalidLen></InvalidLen>
        <AuthFailure></AuthFailure>
        <EncapFailure></EncapFailure>
        <DecapFailure></DecapFailure>
        <Replayed></Replayed>
        <ACLCheckFailure></ACLCheckFailure>
        <MTUCheckFailure></MTUCheckFailure>
        <LoopbackLimitExceeded></LoopbackLimitExceeded>
        <CryptospeedLimitExceeded></CryptospeedLimitExceeded>
        <ResponderOnlyLimit></ResponderOnlyLimit>
      </DropPktsStats>
    </Stats>
  </TunnelStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	TunnelStats
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
RcvPkts	Number of received sent IPsec-protecte	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

Column name	Column description	Column type	Data type and restrictions
	d packets		
SentPkts	Number of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvBytes	Number of bytes of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentBytes	Number of bytes of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvPktRate	Number of IPsec-protected packets received per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentPktRate	Number of IPsec-protected packets sent per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvByteRate	Number of bytes of IPsec-protected packets received per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentByteRate	Number of bytes of IPsec-protected packets sent per second	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropRcvPkts	Number of dropped IPsec-protected received packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropSentPkts	Number of dropped IPsec-protected sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropPktsStats	Dropped packets statistics	Data structure	Members include: • NoAvailableSA. • WrongSA. • InvalidLen. • AuthFailure. • EncapFailure. • DecapFailure. • Replayed. • ACLCheckFailure. • MTUCheckFailure.

Column name	Column description	Column type	Data type and restrictions
			• LoopbackLimitExceeded.
NoAvailableSA	Number of dropped packets due to lack of available IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
WrongSA	Number of dropped packets due to wrong IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
InvalidLen	Number of dropped packets due to invalid packet length	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
AuthFailure	Number of dropped packets due to authentication failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
EncapFailure	Number of dropped packets due to encapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DecapFailure	Number of dropped packets due to decapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
Replayed	Number of dropped replayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
ACLCheckFailure	Number of dropped packets due to ACL check failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
MTUCheckFailure	Number of dropped packets due to MTU check failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
LoopbackLimitExceeded	Number of dropped packets due to loopback limit exceeded	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
CryptospeedLimitExceeded	Number of dropped packets due to	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

Column name	Column description	Column type	Data type and restrictions
	Cryptospeed exceeded		
Responder OnlyLimit	Number of packets dropped because of the responder-only restriction	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

IPsec/IPsecCapabilities

This table displays information about the algorithm capabilities supported by the IPsec module.

XML structure

```
<IPsec>
  <IPsecCapabilities>
    <IPsecCapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <AlgType></AlgType>
    </IPsecCapability>
  </IPsecCapabilities>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPsecCapabilities
Table type	Multi-instance table
Row name	IPsecCapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AlgID	Algorithm ID	Index	Unsigned .
AlgName	Algorithm name	N/A	String. Length: 1 to 255 characters.
AlgType	Algorithm type	N/A	Enumeration: • **1**—Diffie-Hellman group • 2—Encryption algorithm

Column name	Column description	Column type	Data type and restrictions
			• 3—Authentication algorithm

List of algorithms

AlgID	AlgName	AlgType
1	Group_1	Diffie-Hellman group
2	Group_2	Diffie-Hellman group
3	Group_5	Diffie-Hellman group
4	Group_14	Diffie-Hellman group
5	Group_24	Diffie-Hellman group
6	MD5	Authentication algorithm
7	SHA1	Authentication algorithm
8	SHA256	Authentication algorithm
9	SHA384	Authentication algorithm
10	SHA512	Authentication algorithm
11	3DES-CBC	Encryption algorithm
12	AES-CBC-128	Encryption algorithm
13	AES-CBC-192	Encryption algorithm
14	AES-CBC-256	Encryption algorithm
15	DES-CBC	Encryption algorithm
16	NULL	Encryption algorithm
17	Group_19	Diffie-Hellman group
18	Group_20	Diffie-Hellman group
19	AES-XCBC-MAC	Authentication algorithm
20	AES-CTR-128	Encryption algorithm
21	AES-CTR-192	Encryption algorithm
22	AES-CTR-256	Encryption algorithm
23	CAMELLIA-CBC-128	Encryption algorithm
24	CAMELLIA-CBC-192	Encryption algorithm
25	CAMELLIA-CBC-256	Encryption algorithm
26	GMAC-128	Encryption algorithm
27	GMAC-192	Encryption algorithm
28	GMAC-256	Encryption algorithm
29	GCM-128	Encryption algorithm
30	GCM-192	Encryption algorithm
31	GCM-256	Encryption algorithm

128	SM1-CBC-128	Encryption algorithm
129	SM4-CBC	Encryption algorithm
130	SM3	Authentication algorithm
131	SM1-CBC-192	Encryption algorithm
132	SM1-CBC-256	Encryption algorithm

IPsec/DeviceCapabilities

This table displays the capabilities of device.

XML structure

```
<IPsec>
  <DeviceCapabilities>
    <SupportRedundancy></SupportRedundancy>
    <SupportFlowRedirect></SupportFlowRedirect>
  </DeviceCapabilities>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	DeviceCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportRedundancy	Support for redundancy	N/A	Boolean: • **true**—The device supports redundancy. • **false**—The device does not support redundancy.
SupportFlowRedirect	Support for OpenFlow entry deployment	N/A	Boolean: • **true**—The device supports OpenFlow entry deployment. • **false**—The device does not support OpenFlow entry deployment.

IPsec/IsakmpProfiles

This table displays ISAKMP IPsec profile information.

XML structure

```
<IPsec>
  <IsakmpProfiles>
    <IsakmpProfile>
      <Name></Name>
      <Description></Description>
      <TransformSetList>
        <TransformSet></TransformSet>
        </TransformSetList>
      <IkeProfileName></IkeProfileName>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime ></SAIdleTime>
      <SASoftDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SASoftDuration>
      <IKEv2ProfileName></IKEv2ProfileName>
      <Alias></Alias>
      <ResponderOnly></ResponderOnly>
    </IsakmpProfile>
  </IsakmpProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IsakmpProfiles
Table type	Multi-instance table
Row name	IsakmpProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec	Index	String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile name		Length: 1 to 63 characters	
Description	The description of the used IPsec profile	N/A	String, case-sensitive Length: 0 to 80 characters	N/A
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 0 to 63 characters	N/A
IkeProfileName	The ike profile name	N/A	String, case-insensitive Length: 0 to 63 characters	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: • Seconds. • KiloBytes.	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2ProfileName	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
Alias	Alias for the IPsec profile entry	N/A	String. Length: 1 to 127 characters.	N/A
Responder Only	Enable the responder-only feature, so that the local device acts as the IPsec responder only and does not	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	initiate IPsec negotiation or IPsec renegotiation			

IPsec/TunnelApplyProfile

This table displays the IPsec profile name in the ADVPN configuration for the specified tunnels.

XML structure

```
<IPsec>
  <TunnelApplyProfile>
    <ApplyProfile>
      <TunnelID></TunnelID>
      <IPsecPrfName></IPsecPrfName>
      <ACL>
        <Name></Name>
        <Number></Number>
       </ACL>
    </ApplyProfile>
  </TunnelApplyProfile>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	TunnelApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	The tunnel ID	Index	String, case-insensitive Length: 1 to 63 characters	N/A
IPsecPrfName	IPsec profile name	N/A	String, case-sensitive Length: 0 to 63 characters	N/A
ACL	Reference an	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ACL	structure	• Name. • Number.	
Name	ACL name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

IPsec/SmartVpnProfiles

This table contains smart link policy information.

XML structure

```
<IPsec>
  <SmartVpnProfiles>
    <SmartVpnProfile>
      <Name></Name>
      <ActiveLinkID></ActiveLinkID>
      <AutoSwitchCycles></AutoSwitchCycles>
      <DetectionInterval>
        <IntervalNum></IntervalNum>
        <PacketNum></PacketNum>
        <ThresholdLoss></ThresholdLoss>
        <ThresholdDelay></ThresholdDelay>
        <SrcAddr></SrcAddr>
        <DestAddr></DestAddr>
      </DetectionInterval>
      <Enable></Enable>
      <PolicyAlias></PolicyAlias>
    </SmartVpnProfile>
  </SmartVpnProfiles>
</IPsec>
```

Table description

Item	Description
Featurename	IPsec
Table name	SmartVpnProfiles
Table type	Multi-instance table
Row name	SmartVpnProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Smart link policy name	Index	String. Length: 1 to 63 characters.	N/A
ActiveLinkID	ID of the active link	N/A	Unsigned integer. Value range: 1 to 30.	N/A
AutoSwitchCycles	Maximum number of link switchover cycles	N/A	Unsigned integer. Value range: 0 to 5.	N/A
DetectionInterval	Link quality probe configuration	Data structure	Members include: • IntervalNum • ThresholdType • ThresholdVal • SrcAddr • DestAddr	N/A
IntervalNum	Probe packet sending interval	N/A	Unsigned integer. Value range: 1 to 3, in seconds.	N/A
PacketNum	Number of probe packets sent in each probe cycle	N/A	Unsigned integer. Value range: 1 to 30.	N/A
ThresholdLoss	Packet loss ratio threshold	N/A	Unsigned integer. Value range: 1 to 100, in percentages.	N/A
ThresholdDelay	Delay threshold	N/A	Unsigned integer. Value range: 1 to 3000, in milliseconds.	N/A
SrcAddr	Source IP address for link quality probe packets	N/A	String, dotted decimal notation.	N/A
DestAddr	Destination IP address for link quality probe packets	N/A	String, dotted decimal notation.	N/A
Enable	Whether the smart link policy is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PolicyAlias	Policy alias	N/A	String. Length: 1 to 63 characters.	N/A

IPsec/SmartVpnGateways

This table contains gateway information for local interfaces of the links.

XML structure

```
<IPsec>
```

```
  <SmartVpnGateways>
    <SmartVpnGateway>
      <IfIndex></IfIndex>
      <GatewayAddr></GatewayAddr>
      <NoRouteEnable></NoRouteEnable>
    </SmartVpnGateway>
  </SmartVpnGateways>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnGateways
Table type	Multi-instance table
Row name	SmartVpnGateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
GatewayAddr	Gateway address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
NoRouteEnable	Whether no route is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPsec/SmartVpnLinkLists

This table contains basic link list information of a smart link policy.

XML structure

```
<IPsec>
  <SmartVpnLinkLists>
    <SmartVpnLinkList>
      <ProfileName></ProfileName>
      <LinkID></LinkID>
      <IfIndex></IfIndex>
      <LinkLocalAddr></LinkLocalAddr>
      <LinkNextHop></LinkNextHop>
      <LinkRemote></LinkRemote>
      <Loss></Loss>
```

```
      <Delay></Delay>
    </SmartVpnLinkList>
  </SmartVpnLinkLists>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SmartVpnLinkLists
Table type	Multi-instance table
Row name	SmartVpnLinkList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Smart link policy name	Index	String Length: 1 to 63 characters.	N/A
LinkID	Link ID	Index	Unsigned integer. Value range: 1 to 10.	N/A
IfIndex	Interface index	N/A	Unsigned integer.	N/A
LinkLocalAddr	Local IPv4 address of the link	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
LinkNextHop	Nexthop IPv4 address of the link	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
LinkRemote	Remote IPv4 address of the link	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
Loss	Packet loss ratio threshold	N/A	Unsigned integer. Value range: 1 to 100, in percentages.	N/A
Delay	Delay threshold	N/A	Unsigned integer. Value range: 1 to 3000, in milliseconds.	N/A

IPsec/InterfacesNoNat

This table contains the IPsec no NAT feature status information.

XML structure

```
<IPsec>
```

```
  <InterfacesNoNat>
    <InterfaceNoNat>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceNoNat>
  </InterfacesNoNat>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesNoNat
Table type	Multi-instance table
Row name	InterfaceNoNat
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enabling status of no-NAT processing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

IPsec/DiagnoseItem

This table displays the diagnostic data for IPsec.

XML structure

```
<IPsec>
  <DiagnoseItems>
    <DiagnoseItems>
      <ItemID></ItemID>
      <Result></Result>
      <ItemName></ItemName>
```

```
      <Reason></Reason>
    </DiagnoseItems>
  </DiagnoseItems>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	DiagnoseItems
Table type	Multi-instance table
Row name	DiagnoseItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ItemID	Diagnostic item ID	Index	Unsigned integer.
Result	Result of the diagnostic	N/A	Enumeration: • **0**—Succeeded. • **1**—Failed.
ItemName	Diagnostic item name	N/A	String. Length: 1 to 63 characters.
Reason	Reason for failure	N/A	String. Length: 1 to 1023 characters.

IPsec/DiagnoseState

This table displays IPsec diagnostic state.

XML structure

```
<IPsec>
  <DiagnoseState>
    <State></State>
  </DiagnoseState>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	DiagnoseState
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Diagnostic state	N/A	Boolean: • **true**—Diagnosing. • **false**—Finished.

IPsec/P2MPTunnels

This table displays IPsec P2MP tunnels information.

XML structure

```
<IPsec>
  <P2MPTunnels>
    <P2MPTunnel>
      <TunnelID></TunnelID>
      <AddrType></AddrType>
      <PrivateDestAddr></PrivateDestAddr>
      <PublicDestAddr></PublicDestAddr>
      <PublicDestPort></PublicDestPort>
      <CreateTime></CreateTime>
    </P2MPTunnel>
  </P2MPTunnels>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	P2MPTunnels
Table type	Multi-instance table
Row name	P2MPTunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
AddrType	IP protocol type	Index	Enumeration: • 1—IPv4 address • 2—IPv6 address.	N/A
PrivateDestAddr	Private destination IP address of the IPsec P2MP tunnel	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
PublicDestAddr	Public destination IP address of the IPsec P2MP tunnel	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
PublicDestPort	Public destination port number of the IPsec P2MP tunnel	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CreateTime	Existing time (in seconds) of the IPsec P2MP tunnel	N/A	Unsigned integer.	N/A

IPsec/P2MPTunnelCounts

This table displays IPsec P2MP tunnel count information.

XML structure

```
<IPsec>
  <P2MPTunnelCounts>
    <P2MPTunnelCount>
      <TunnelID></TunnelID>
      <AddrType></AddrType>
      <SpokeCount></SpokeCount>
    </P2MPTunnelCount>
  </P2MPTunnelCounts>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	P2MPTunnelCounts
Table type	Multi-instance table
Row name	P2MPTunnelCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
AddrType	IP protocol type	Index	Enumeration: • 1—IPv4 address • 2—IPv6 address.	N/A
SopkeCount	Number of IPsec P2MP tunnels	N/A	Unsigned integer.	N/A

IPsec/SdwanTunnels

This table displays sdwan IPsec tunnels information.

XML structure

```
<IPsec>
  <SdwanTunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <AddrType></AddrType>
      <Status></Status>
      <LocalAddr></LocalAddr>
      <RemoteAddr></RemoteAddr>
      <SecurityProto></SecurityProto>
      <SPI>
        <ESPInbound></ESPInbound>
        <ESPOutbound></ESPOutbound>
        <AHInbound></AHInbound>
        <AHOutbound></AHOutbound>
      </SPI>
      <ProfileName></ProfileName>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <SiteID></SiteID>
      <DeviceID></DeviceID>
      <InterfaceID></InterfaceID>
      <LinkID></LinkID>
      <PathMTU></PathMTU>
```

```
    </Tunnel>
  </SdwanTunnels>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanTunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
AddrType	IP protocol type	N/A	Enumeration: • **1**—Ipv4Address. • **2**—Ipv6Address.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.
LocalAddr	Source IP address of the IPsec tunnel	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
RemoteAddr	Destination IP address of the IPsec tunnel	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
SecurityProto	IPsec SecurityProtocol	N/A	Enumeration: • 1—AH. • 2—AH-ESP. • 3—ESP.
SPI	Security Parameter Index	Data structure	Members include: • ESPInbound. • ESPOutbound. • AHInbound. • AHOutbound.
ESPInbound	ESP inbound SPI	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
ESPOutbound	ESP outbound SPI	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
AHInbound	AH inbound SPI	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.

Column name	Column description	Column type	Data type and restrictions
AHOutbound	AH Outbound SPI	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
ProfileName	The sdwan profile name	N/A	String. Length: 1 to 63 characters.
IfIndex	Interface index	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
SiteID	Site ID	N/A	Unsigned integer. Value range: 1 to 65535.
DeviceID	Device ID	N/A	Unsigned integer. Value range: 1 to 255.
InterfaceID	Interface ID	N/A	Unsigned integer. Value range: 1 to 255.
LinkID	Link ID	N/A	Unsigned integer Value range: 1 to 4294967295.
PathMTU	Path MTU of the SDWAN IPsec SA	N/A	Unsigned integer.

IPsec/SdwanLocalSAs

This table displays sdwan IPsec local SAs information.

XML structure

```
<IPsec>
  <SdwanLocalSAs>
    <SA>
      <SAIndex></SAIndex>
      <SPI></SPI>
      <Proto></Proto>
      <EncapMode></EncapMode>
      <AuthAlg></AuthAlg>
      <EncrAlg></EncrAlg>
      <LocalLinkID>
        <SiteID></SiteID>
        <DeviceID></DeviceID>
        <InterfaceID></InterfaceID>
      </LocalLinkID>
      <LocalAddr></LocalAddr>
      <SADuration>
        <Seconds></Seconds>
      </SADuration>
```

```
      <SARemainingDuration>
        <Seconds></Seconds>
      </SARemainingDuration>
      <AntiReplay>
        <State></State>
        <CheckWindow></CheckWindow>
      </AntiReplay>
      <Status></Status>
      <IfIndex></IfIndex>
      <ProfileName></ProfileName>
      <IfName></IfName>
    </SA>
  </SdwanLocalSAs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanLocalSAs
Table type	Multi-instance table
Row name	SA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SAIndex	SA index	Index	Unsigned integer.
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
Proto	Security protocol	N/A	Enumeration: • 1—AH. • 2—ESP.
EncapMode	Encapsulation mode	N/A	Enumeration: • **1**—transport.
AuthAlg	Authentication algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
EncrAlg	Encryption algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
LocalLinkID	Local Link ID	N/A	Members include: • SiteID. • DeviceID. • InterfaceID.

Column name	Column description	Column type	Data type and restrictions
SiteID	Site ID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
DeviceID	Device ID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
InterfaceID	InterfaceID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
LocalAddr	Source IP address of the IPsec tunnel	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
SADuration	IPsec SA life time	Data structure	Members include: • Seconds.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.
SARemainingDuration	Remaining IPsec SA lifetime	Data structure	Members include: • Seconds.
Seconds	Remaining IPsec SA lifetime in seconds	N/A	Unsigned integer. Value range: 180 to 604800.
AntiReplay	Anti-replay configuration	Data structure	Members include: • State. • CheckWindow.
State	Anti-replay state	N/A	Boolean: • **true**—Enable. • **false**—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: • **1**—Window size is 64. • **2**—Window size is 128. • 3—Window size is 256. • 4—Window size is 512. • 5—Window size is 1024. • 6—Window size is 2048. • 7—Window size is 4096.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.
IfIndex	Interface index	N/A	Unsigned integer.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.
ProfileName	Name of the used IPsec	N/A	String.

Column name	Column description	Column type	Data type and restrictions
	profile		Length: 1 to 63 characters.

IPsec/SdwanRemoteSAs

This table displays sdwan IPsec remote SAs information.

XML structure

```
<IPsec>
  <SdwanRemoteSAs>
    <SA>
      <SAIndex></SAIndex>
      <SPI></SPI>
      <Proto></Proto>
      <EncapMode></EncapMode>
      <AuthAlg></AuthAlg>
      <EncrAlg></EncrAlg>
      <RemoteLinkID>
        <SiteID></SiteID>
        <DeviceID></DeviceID>
        <InterfaceID></InterfaceID>
      </RemoteLinkID>
      <RemoteAddr></RemoteAddr>
      <Status></Status>
    </SA>
  </SdwanRemoteSAs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanRemoteSAs
Table type	Multi-instance table
Row name	SA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SAIndex	SA index	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
Proto	Security protocol	N/A	Enumeration: • 1—AH. • 2—ESP.
EncapMode	Encapsulation mode	N/A	Enumeration: • **1**—transport.
AuthAlg	Authentication algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
EncrAlg	Encryption algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
RemoteLinkID	Remote Link ID	N/A	Members include: • SiteID • DeviceID • InterfaceID.
SiteID	Site ID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
DeviceID	Device ID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
InterfaceID	InterfaceID	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.
RemoteAddr	destination IP address of the IPsec tunnel	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: • **1**—active. • **2**—standby.

IPsec/SdwanTunnelStats

This table displays sdwan IPsec tunnel statistics information.

XML structure

```
<IPsec>
  <SdwanTunnelStats>
    <Stats>
      <TunnelID></TunnelID>
      <RcvPkts></RcvPkts>
      <SentPkts></SentPkts>
      <RcvBytes></RcvBytes>
      <SentBytes></SentBytes>
      <DropRcvPkts></DropRcvPkts>
      <DropSentPkts></DropSentPkts>
      <DropPktsStats>
```

```
      <NoAvailableSA></NoAvailableSA>
      <WrongSA></WrongSA>
      <InvalidLen></InvalidLen>
      <AuthFailure></AuthFailure>
      <EncapFailure></EncapFailure>
      <DecapFailure></DecapFailure>
      <Replayed></Replayed>
      <MTUCheckFailure></MTUCheckFailure>
      <LoopbackLimitExceeded></LoopbackLimitExceeded>
      <CryptospeedLimitExceeded></CryptospeedLimitExceeded>
    </DropPktsStats>
  </Stats>
 </SdwanTunnelStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanTunnelStats
Table type	Multi-instance table
Row name	Stats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
RcvPkts	Number of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentPkts	Number of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
RcvBytes	Number of bytes of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
SentBytes	Number of bytes of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropRcvPkts	Number of dropped IPsec-protected received	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

Column name	Column description	Column type	Data type and restrictions
	packets		
DropSentPkts	Number of dropped IPsec-protected sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DropPktsStats	Dropped packets statistics	Data structure	Members include: • NoAvailableSA. • WrongSA. • InvalidLen. • AuthFailure. • EncapFailure. • DecapFailure. • Replayed. • MTUCheckFailure. • LoopbackLimitExceeded.
NoAvailableSA	Number of dropped packets due to lack of available IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
WrongSA	Number of dropped packets due to wrong IPsec SA	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
InvalidLen	Number of dropped packets due to invalid packet length	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
AuthFailure	Number of dropped packets due to authentication failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
EncapFailure	Number of dropped packets due to encapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
DecapFailure	Number of dropped packets due to decapsulation failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
Replayed	Number of dropped replayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
MTUCheckFailure	Number of dropped packets due to MTU check failure	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.
LoopbackLimitE	Number of	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
xceeded	dropped packets due to loopback limit exceeded		Value range: 0 to 2^{64}-1.
CryptospeedLimitExceeded	Number of dropped packets due to Cryptospeed exceeded	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.

IPsec/SdwanProfiles

This table displays sdwan IPsec profiles information.

XML structure

```
<IPsec>
  <SdwanProfiles>
    <SdwanProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
      <SADuration>
        <Seconds></Seconds>
       </SADuration>
    </SdwanProfile>
  </SdwanProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	SdwanProfiles
Table type	Multi-instance table
Row name	SdwanProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name	Index	String, case-insensitive Length: 1 to 63 characters.	N/A
Description	The	N/A	String, case-sensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	description of the used IPsec profile		Length: 0 to 80 characters.	
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 0 to 63 characters.	N/A
SADuration	IPsec SA life time	Data structure	Members include: • Seconds.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A

Contents

Comware 7 IPsec NETCONF XML API Error Message Reference ····· 1
IPsec/ IPv4ISAKMPPolicies ····· 1
IPsec/IPv6ISAKMPPolicies ····· 1
IPsec/SmartVpnProfile ····· 2
IPsec/SmartVpnLinkLists ····· 2
IPsec/ SmartVpnMoveLinks ····· 3
IPsec/ SmartVpnActiveLinks ····· 3

Comware 7 IPsec NETCONF XML API Error Message Reference

IPsec/ IPv4ISAKMPPolicies

Message	Explanation
Operation failed. The smart link policy is already assigned to another IPsec policy. 操作失败，该智能选路策略已经被另一个IPsec安全策略引用。	An IPsec smart link policy can only be assigned to one IPsec policy. 一个智能选路策略只能被一个IPsec策略引用。
The specified smart link policy doesn't exist. 指定的智能选路策略不存在。	You must specify an existing IPsec smart link policy by its name. 指定的IPsec智能选路策略必须已存在。
Remote IpAddr cannot coexist with Remote HostName. Remote地址与Remote Hostname不能同时存在。	Remote IpAddr cannot coexist with Remote HostName. Remote地址与Remote Hostname不能同时存在。
Primary cannot be configured alone. Primary不能单独配置。	Primary cannot be configured alone. Primary不能单独配置。
Maximum number of RemoteAddress already reached. RemoteAddress配置已达到上限。	Maximum number of RemoteAddress already reached. RemoteAddress配置已达到上限。
A primary remote IP address for the IPsec tunnel already exists, please remove it first. Primary配置已存在，请先删除。	A primary remote IP address for the IPsec tunnel already exists, please remove it first. Primary配置已存在，请先删除。
Remote Address invalid. Remote地址无效。	Remote Address invalid. Remote地址无效。

IPsec/IPv6ISAKMPPolicies

Message	Explanation
Remote IpAddr cannot coexist with Remote HostName. Remote地址与Remote Hostname不能同时存在。	Remote IpAddr cannot coexist with Remote HostName. Remote地址与Remote Hostname不能同时存在。
Primary cannot be configured alone. Primary不能单独配置。	Primary cannot be configured alone. Primary不能单独配置。
Maximum number of RemoteAddress already reached. RemoteAddress配置已达到上限。	Maximum number of RemoteAddress already reached. RemoteAddress配置已达到上限。
A primary remote IP address for the IPsec tunnel already exists, please remove it first.	A primary remote IP address for the IPsec tunnel already exists, please remove it first.

Primary配置已存在，请先删除。	Primary配置已存在，请先删除。
Remote Address invalid. Remote地址无效。	Remote Address invalid. Remote地址无效。

IPsec/SmartVpnProfile

Message	Explanation
Maximum number of smart link policies already reached. 已达到智能选路策略个数的最大值。	The device supports a maximum of three IPsec smart link policies. 一台设备中最多支持配置3个IPsec智能选路策略。
The policy have bound a smart-link policy,please undo it firstly. 该策略已绑定智能选路策略，请先解除绑定。	An IPsec policy can use only one IPsec smart link policy. 一个IPsec安全策略只能引用一个IPsec智能选路策略。
IP address is not match,please try again. IP地址不匹配，请再次尝试。	When you remove the source and destination IP addresses configured for link quality probe packets, you must specify correct IP addresses . 删除IPsec智能选路链路探测的源IP地址和目的IP地址时，需要指定正确的IP地址。

IPsec/SmartVpnLinkLists

Message	Explanation
Link is active, can not modify. 链路处于激活状态，不能修改。	Link can’t be modified when it’s active. 链路处在激活状态时不支持修改配置。
The same link has exist. 智能选路策略中已经存在相同的链路。	The link is already configured, can’t be configured again. 该链路已经存在，不能再次配置。
Failed to configure the link. The maximum number of interfaces used by the links in the policy was already reached. 策略中链路使用的接口数达到最大值，链路创建失败。	A maximum of 10 links can be configured in an IPsec smart link policy. 一个IPsec智能选路策略下最多可配置10条链路。
Failed to configure the link. The maximum number of remote IP addresses used by the links in the policy was already reached. 策略中链路使用的目的地址数达到最大值，链路创建失败。	A maximum of 3 remote IP addresses can be configured in an IPsec smart link policy. 一个IPsec智能选路策略下最多可配置3个目的IP地址。
Failed to configure the link. The specified remote address is already used by another enabled smart link policy. 指定的目的地址已经被另一个智能选路策略使用，链路创建失败。	A remote IP address can be used by only one IPsec smart link policy. 一个目的IP地址只能使用在一个IPsec智能选路策略中。

IPsec/ SmartVpnMoveLinks

Message	Explanation
The specified link doesn't exist. 指定的链路不存在。	A link must be configured before you move it. 指定链路不存在，无法移动。
Can't move the link because it is in active state. 链路处于激活状态，不能移动。	An active link can’t be moved. 链路处在激活状态时不支持移动。

IPsec/ SmartVpnActiveLinks

Message	Explanation
The specified link doesn't exist. 指定的链路不存在。	The link must be configured before you activate it. 指定链路不存在，无法激活。
Operation failed. The link is currently in active state. 操作失败，该链路已经激活。	An active link does not to be activated again. 链路处在激活状态时不需要再次激活。

Contents

IPsec event stream 1
TunnelCreated event 1
XML structure for event subscription 1
XML structure for event report 1
TunnelDeleted event 3
XML structure for event subscription 3
XML structure for event report 4

IPsec event stream

TunnelCreated event

This event is used to report IPsec tunnel information when an IPsec tunnel is created.

XML structure for event subscription

```
<TunnelCreatedEvent>
  <Tunnel>
    <IfName></IfName>
  </Tunnel>
</TunnelCreatedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPsec</stream>
    <filter type="subtree">
      <TunnelCreatedEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipsec:1.0">
        <Tunnel>
          <IfName>GigabitEthernet1/0/1</IfName>
        </Tunnel>
      </TunnelCreatedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPsec
Event name	TunnelCreatedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ipsec:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query
IfName	Interface name	String. Length: 1 to 47 characters.	No

XML structure for event report

```
<TunnelCreatedEvent>
```

```
  <Tunnel>
    <IfName></IfName>
    <LocalAddress></LocalAddress>
    <RemoteAddress></RemoteAddress>
    <LocalPort></LocalPort>
    <RemotePort></RemotePort>
    <InsideVpnInstance></InsideVpnInstance>
    <OutsideVpnInstance></OutsideVpnInstance>
    <Role></Role>
    <PolicyName></PolicyName>
    <PolicySeqNum></PolicySeqNum>
    <ProfileName><ProfileName>
  </Tunnel>
</TunnelCreatedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TunnelCreatedEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipsec:1.0">
    <Tunnel>
      <IfName>GigabitEthernet1/0/1</IfName>
      <LocalAddress>1.2.3.4</LocalAddress>
      <RemoteAddress>1.2.3.6</RemoteAddress>
      <LocalPort>500</LocalPort>
      <RemotePort>500</RemotePort>
      <InsideVpnInstance>vpn1</InsideVpnInstance>
      <OutsideVpnInstance>vpn2</OutsideVpnInstance>
      <Role>1</Role>
      <PolicyName>plc1</PolicyName>
      <PolicySeqNum>2</PolicySeqNum>
    </Tunnel>
  </TunnelCreatedEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 1 to 47 characters.	N/A
LocalAddress	Source IP address of the IPsec tunnel	String, IPv4 address string or IPv6 address string.	N/A
RemoteAddress	Destination IP address of the IPsec tunnel	String, IPv4 address string or IPv6 address string.	N/A
LocalPort	Source port number	Unsigned integer. Value range: 0 to 65535.	N/A
RemotePort	Destination port number	Unsigned integer. Value range: 0 to 65535.	N/A
InsideVpnInst	Name of the inside VPN	String.	N/A

Column name	Column description	Data type and restrictions	Remarks
ance	instance	Length: 1 to 31 characters.	
OutsideVpnInstance	Name of the outside VPN instance	String. Length: 1 to 31 characters.	N/A
Role	Device role	Enumeration: • 1—Initiator • 2—Responder • 3—Manual	N/A
PolicyName	IPsec policy name	String, case-insensitive. Length: 1 to 63 characters.	PolicyName is mutually exclusive with ProfileName.
PolicySeqNum	Sequence number of the IPsec policy entry	Unsigned integer. Value range: 1 to 65535.	N/A
ProfileName	IPsec profile name	String, case-insensitive. Length: 1 to 63 characters.	N/A

TunnelDeleted event

This event is used to report IPsec tunnel information when an IPsec tunnel is deleted.

XML structure for event subscription

```
<TunnelDeletedEvent>
  <Tunnel>
    <IfName></IfName>
  </Tunnel>
</TunnelDeletedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPsec</stream>
    <filter type="subtree">
      <TunnelDeletedEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipsec:1.0">
        <Tunnel>
          <IfName>GigabitEthernet1/0/1</IfName>
        </Tunnel>
      </TunnelDeletedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPsec
Event name	TunnelDeletedEvent

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/ipsec:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query
IfName	Interface name	String. Length: 1 to 47 characters.	No

XML structure for event report

```
<TunnelDeletedEvent>
  <Tunnel>
    <IfName></IfName>
    <LocalAddress></LocalAddress>
    <RemoteAddress></RemoteAddress>
    <LocalPort></LocalPort>
    <RemotePort></RemotePort>
    <InsideVpnInstance></InsideVpnInstance>
    <OutsideVpnInstance></OutsideVpnInstance>
    <Role></Role>
    <PolicyName></PolicyName>
    <PolicySeqNum></PolicySeqNum>
  </Tunnel>
</TunnelDeletedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TunnelDeletedEvent xmlns="http://www.h3c.com/netconf/event:1.0/ipsec:1.0">
    <Tunnel>
      <IfName>GigabitEthernet1/0/1</IfName>
      <LocalAddress>1.2.3.4</LocalAddress>
      <RemoteAddress>1.2.3.6</RemoteAddress>
      <LocalPort>500</LocalPort>
      <RemotePort>500</RemotePort>
      <InsideVpnInstance>vpn1</InsideVpnInstance>
      <OutsideVpnInstance>vpn2</OutsideVpnInstance>
      <Role>2</Role>
      <PolicyName>plc1</PolicyName>
      <PolicySeqNum>123</PolicySeqNum>
    </Tunnel>
  </TunnelDeletedEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 1 to 47 characters.	N/A
LocalAddress	Source IP address of the IPsec tunnel	String, IPv4 address string or IPv6 address string.	N/A
RemoteAddress	Destination IP address of the IPsec tunnel	String, IPv4 address string or IPv6 address string.	N/A
LocalPort	Source port number	Unsigned integer. Value range: 0 to 65535.	N/A
RemotePort	Destination port number	Unsigned integer. Value range: 0 to 65535.	N/A
InsideVpnInstance	Name of the inside VPN instance	String. Length: 1 to 31 characters.	N/A
OutsideVpnInstance	Name of the outside VPN instance	String. Length: 1 to 31 characters.	N/A
Role	Device role	Enumeration: • 1—Initiator • 2—Responder • 3—Manual	N/A
PolicyName	IPsec policy name	String, case-insensitive. Length: 1 to 63 characters.	PolicyName is mutually exclusive with ProfileName.
PolicySeqNum	Sequence number of the IPsec policy entry	Unsigned integer. Value range: 1 to 65535.	N/A
ProfileName	IPsec profile name	String, case-insensitive. Length: 1 to 63 characters.	N/A

Contents

IPSGT 1
IPSGT/GlobalConf 1
XML structure 1
Table description 1
Columns 1
IPSGT/IPv4OnDemandNetworks 1
XML structure 2
Table description 2
Columns 2
IPSGT/IPv6OnDemandNetworks 2
XML structure 2
Table description 3
Columns 3

IPSGT

IPSGT/GlobalConf

This table contains IP-SGT global configuration parameters.

XML structure

```
<IPSGT>
  <GlobalConf>
    <Enable></Enable>
    <MaxCriticalMap></MaxCriticalMap>
  </GlobalConf>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	GlobalConf
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable the IPSGT assistant feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
MaxCriticalMap	The maximum number of critical mapping entries	N/A	Unsigned integer.

IPSGT/IPv4OnDemandNetworks

This table contains IPSGT assistant IPv4 on-demand networks.

XML structure

```
<IPSGT>
  <IPv4OnDemandNetworks>
    <IPv4OnDemandNetwork>
     <VpnName></VpnName>
     <IPAddress></IPAddress>
     <Mask></Mask>
    </IPv4OnDemandNetwork>
  </IPv4OnDemandNetworks>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv4OnDemandNetworks
Table type	Multi-instance table
Row name	IPv4OnDemandNetwork
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.
IPAddress	The on-demand IP address	Index	IPv4: String, dotted decimal notation.
Mask	Subnet mask length of the on-demand network	index	Non-negative integer. Value range: 0 to 31.

IPSGT/IPv6OnDemandNetworks

This table contains IPSGT assistant IPv6 on-demand networks.

XML structure

```
<IPSGT>
  <IPv6OnDemandNetworks>
    <IPv6OnDemandNetwork>
      <VpnName></VpnName>
```

```
      <IPv6Address></IPv6Address>
      <Prefix></Prefix>
    </IPv6OnDemandNetwork>
  </IPv6OnDemandNetworks>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv6OnDemandNetworks
Table type	Multi-instance table
Row name	IPv6OnDemandNetwork
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.
IPv6Address	The on-demand IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.
Prefix	Prefix length of the on-demand network	Index	Non-negative integer. Value range: 0 to 127.

Contents

IPSGT 1
IPSGT/GlobalConf 1
XML structure 1
Table description 1
Columns 1
IPSGT/IPv4OnDemandNetworks 2
XML structure 2
Table description 2
Columns 2
IPSGT/IPv6OnDemandNetworks 3
XML structure 3
Table description 3
Columns 3
IPSGT/IPv4Maps 4
XML structure 4
Table description 4
Columns 4
IPSGT/IPv6Maps 4
XML structure 4
Table description 5
Columns 5
IPSGT/IPv4CriticalMaps 5
XML structure 5
Table description 6
Columns 6
IPSGT/IPv6CriticalMaps 6
XML structure 6
Table description 6
Columns 7

IPSGT

IPSGT/GlobalConf

This table contains IP-SGT global informations.

XML structure

```
<IPSGT>
  <GlobalConf>
    <Enable></Enable>
    <ConnectionStatus>
       <EIA></EIA>
       <IPv4RouteManagement></IPv4RouteManagement>
       <IPv6RouteManagement></IPv6RouteManagement>
    </ConnectionStatus>
    <MaxCriticalMap></MaxCriticalMap>
  </GlobalConf>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	GlobalConf
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable the IPSGT assistant feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled
ConnectionStatus	Connection status with EIA and route management	Data structure	Members include: • EIA. • RouteManagement
EIA	Connection status with EIA	N/A	Enumeration: • **0**—Disconnected. • **1**—Connected

Column name	Column description	Column type	Data type and restrictions
IPv4RouteManagement	Connection status with IPv4 route management	N/A	Enumeration: • **0**—Disconnected. • **1**—Connected
IPv6RouteManagement	Connection status with IPv6 route management	N/A	Enumeration: • **0**—Disconnected. • **1**—Connected
MaxCriticalMap	The maximum number of critical mapping entries	N/A	Unsigned integer.

IPSGT/IPv4OnDemandNetworks

This table contains IPSGT assistant IPv4 on-demand networks.

XML structure

```
<IPSGT>
  <IPv4OnDemandNetworks>
    <IPv4OnDemandNetwork>
      <VpnName></VpnName>
      <IPAddress></IPAddress>
      <Mask></Mask>
    </IPv4OnDemandNetwork>
  </IPv4OnDemandNetworks>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv4OnDemandNetworks
Table type	Multi-instance table
Row name	IPv4OnDemandNetwork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
IPAddress	The on-demand IP address	Index	IPv4: String, dotted decimal notation.
Mask	Subnet mask length of the on-demand network	Index	Non-negative integer. Value range: 0 to 31.

IPSGT/IPv6OnDemandNetworks

This table contains IPSGT assistant IPv6 on-demand networks.

XML structure

```
<IPSGT>
  <IPv6OnDemandNetworks>
    <IPv6OnDemandNetwork>
      <VpnName></VpnName>
      <IPv6Address></IPv6Address>
      <Prefix></Prefix>
    </IPv6OnDemandNetwork>
  </IPv6OnDemandNetworks>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv6OnDemandNetworks
Table type	Multi-instance table
Row name	IPv6OnDemandNetwork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.
IPv6Address	The on-demand IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.
Prefix	Prefix length of the on-demand network	Index	Non-negative integer. Value range: 0 to 127.

IPSGT/IPv4Maps

This table contains IPSGT IPv4 map entries.

XML structure

```
<IPSGT>
  <IPv4Maps>
    <IPv4Map>
      <MicroSegmentID></MicroSegmentID>
      <VpnName></VpnName>
      <IPAddress></IPAddress>
    </IPv4Map>
  </IPv4Maps>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv4Maps
Table type	Multi-instance table
Row name	IPv4Map
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MicroSegmentID	Micro-segment id	Index	Non-negative integer. Value range: 1 to 65535.
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.
IPAddress	IP address	Index	IPv4:String,dotted decimal notation.

IPSGT/IPv6Maps

This table contains IPSGT IPv6 map entries.

XML structure

```
<IPSGT>
  <IPv6Maps>
```

```
    <IPv6Map>
      <MicroSegmentID></MicroSegmentID>
      <VpnName></VpnName>
      <IPv6Address></IPv6Address>
    </IPv6Map>
  </IPv6Maps>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv6Maps
Table type	Multi-instance table
Row name	IPv6Map
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MicroSegmentID	Micro-segment id	Index	Non-negative integer. Value range: 1 to 65535.
VpnName	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.
IPv6Address	IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.

IPSGT/IPv4CriticalMaps

This table contains IPSGT IPv4 critical mapping entries.

XML structure

```
<IPSGT>
  <IPv4CriticalMaps>
    <IPv4CriticalMap>
      <MicroSegmentID></MicroSegmentID>
      <VrfIndex></VrfIndex>
      <IPAddress></IPAddress>
      <VpnName></VpnName>
    </IPv4CriticalMap>
  </IPv4CriticalMaps>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv4CriticalMaps
Table type	Multi-instance table
Row name	IPv4CriticalMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MicroSegmentID	Micro-segment ID	Index	Value range: 0 to 65535.
VrfIndex	VPN instance index.	Index	Unsigned integer.
IPAddress	IP address	Index	IPv4:String,dotted decimal notation.
VpnName	VPN instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.

IPSGT/IPv6CriticalMaps

This table contains IPSGT IPv6 critical mapping entries.

XML structure

```
<IPSGT>
  <IPv6CriticalMaps>
    <IPv6CriticalMap>
      <MicroSegmentID></MicroSegmentID>
      <VrfIndex></VrfIndex>
      <IPv6Address></IPv6Address>
      <VpnName></VpnName>
    </IPv6CriticalMap>
  </IPv6CriticalMaps>
</IPSGT>
```

Table description

Item	Description
Feature name	IPSGT
Table name	IPv6CriticalMaps
Table type	Multi-instance table

Item	Description
Row name	IPv6CriticalMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MicroSegmentID	Micro-segment ID	Index	Value range: 0 to 65535.
VrfIndex	VPN instance index.	Index	Unsigned integer.
IPv6Address	IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.
VpnName	VPN instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.

Contents

IPV4ADDRESS 1
IPV4ADDRESS/IPv4Addresses 1
XML structure 1
Table description 1
Columns 1
IPV4ADDRESS/IPv4AddressPPPNegotiate 2
XML Structure 2
Table description 2
Columns 2
IPV4ADDRESS/ IPv4AddressCellular 3
XML Structure 3
Table description 3
Columns 4
IPV4ADDRESS/IPv4AddressUnnumbered 4
XML Structure 4
Table description 4
Columns 5

IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

This table contains information about IPv4 addresses.

XML structure

```
<IPV4ADDRESS>
  <Ipv4Addresses>
    <Ipv4Address>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <AddressOrigin></AddressOrigin>
    </Ipv4Address>
  </Ipv4Addresses>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4Addresses
Table type	Multi-instance table
Row name	Ipv4Address
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 address mask.	N/A	String, dotted decimal notation.	N/A
AddressOrigin	The way how the IPv4 address is obtained.	N/A	Unsigned integer. Value range: 1 to 2.	Value 1 and 2 represent the following methods: ● 1: Manual. ● 2: Manual-sub.

IPV4ADDRESS/IPv4AddressPPPNegotiate

This table achieves IPv4 address allocation through PPP negotiation.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressPPPNegotiate>
    <AddressPPPNegotiate>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressPPPNegotiate>
  </IPv4AddressPPPNegotiate>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	AddressPPPNegotiate
Table type	Multi-instance table
Row name	AddressPPPNegotiate
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
ConfigOption	Whether the PPP Negotiate function is enabled.	N/A	Boolean: • **true** • **false (default)**	After PPP negotiation is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/ IPv4AddressCellular

This table achieves IPv4 address allocation through cellular.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressCellular>
    <AddressCellular>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressCellular>
  </IPv4AddressCellular>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
ConfigOption	Whether the Cellular function is enabled.	N/A	Boolean: • **true** • **false (default)**	After Cellular is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/IPv4AddressUnnumbered

This table achieves IPv4 address which is shared with another interface.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressUnnumbered>
    <AddressUnnumbered>
      <IfIndex></IfIndex>
      <UnnumberedIfIndex></UnnumberedIfIndex>
    </AddressUnnumbered>
  </IPv4AddressUnnumbered>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressUnnumbered
Table type	Multi-instance table
Row name	AddressUnnumbered
Restrictions	This table supports only Layer 3 interfaces.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
UnnumberedIfIndex	Interface index.	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Contents

IPV4ADDRESS 1

IPV4ADDRESS/IPv4Addresses 1
XML structure 1
Table description 1
Columns 1
IPV4ADDRESS/ Ipv4AddressSpecification 2
XML structure 2
Table description 2
Columns 3
IPV4ADDRESS/IPv4AddressPPPNegotiate 3
.XML Structure 3
Table description 3
Columns 3
IPV4ADDRESS/ IPv4AddressCellular 4
XML Structure 4
Table description 4
Columns 5
IPV4ADDRESS/IPv4AddressUnnumbered 5
XML Structure 5
Table description 6
Columns 6
XML structure 7
Table description 7
Columns 7
IPV4ADDRESS/Ipv4GlobalAddresses 8
XML structure 8
Table description 8
Columns 9

IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

This table contains IPv4 address information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4Addresses>
    <Ipv4Address>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Name></Name>
      <Ipv4Mask></Ipv4Mask>
      <AddressOrigin></AddressOrigin>
    </Ipv4Address>
  </Ipv4Addresses>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4Addresses
Table type	Multi-instance table
Row name	Ipv4Address
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Ipv4Mask	IPv4 address mask.	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressOrigin	The way how the IPv4 address is obtained.	N/A	Unsigned integer. Value range: 0 to 9.	Value 0 through 9 represent the following methods: ● 0: Other. ● 1: Manual. ● 2: Manual-sub. ● 3: DHCP. ● 4: BOOTP. ● 5: Negotiate. ● 6: Unnumbered. ● 7: VRRP. ● 8: Cellular. ● 9: MAD

IPV4ADDRESS/ Ipv4AddressSpecification

This table contains IPv4 address specification information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4AddressSpecification>
      <SupportDHCP></SupportDHCP>
  </Ipv4AddressSpecification>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4AddressSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDHCP	Support for DHCP client.	N/A	Boolean: • **true** • false	N/A

IPV4ADDRESS/IPv4AddressPPPNegotiate

This table achieves IPv4 address allocation through PPP negotiation

.XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressPPPNegotiate>
    <AddressPPPNegotiate>
      <IfIndex></IfIndex>
      <Name></Name>
      <ConfigOption></ConfigOption>
    </AddressPPPNegotiate>
  </IPv4AddressPPPNegotiate>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	AddressPPPNegotiate
Table type	Multi-instance table
Row name	AddressPPPNegotiate
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
ConfigOption	Whether the PPP Negotiate function is enabled.	N/A	Boolean: • **true** • **false (default)**	N/A.

IPV4ADDRESS/ IPv4AddressCellular

This table achieves IPv4 address allocation through cellular.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressCellular>
    <AddressCellular>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <ConfigOption></ConfigOption>
    </AddressCellular>
  </IPv4AddressCellular>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
ConfigOption	Whether the Cellular function is enabled.	N/A	Boolean: • **true** • **false (default)**	After Cellular is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/IPv4AddressUnnumbered

This table achieves IPv4 address which is shared with another interface.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressUnnumbered>
    <AddressUnnumbered>
      <IfIndex></IfIndex>
      <Name></Name>
      <UnnumberedIfIndex></UnnumberedIfIndex>
      <UnnumberedIfName></UnnumberedIfName>
    </AddressUnnumbered>
  </IPv4AddressUnnumbered>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressUnnumbered
Table type	Multi-instance table
Row name	AddressUnnumbered
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
UnnumberedIfIndex	Interface index.	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
UnnumberedIfName	Full name of the interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

IPV4ADDRESS/IPv4AddressInterfaceRelation

This table contains IPv4 address and interface relation information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4AddressInterfaceRelation>
    <AddressInterfaceRelation>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <AddressOrigin></AddressOrigin>
      <IfIndex></IfIndex>
    </AddressInterfaceRelation>
  </Ipv4AddressInterfaceRelation>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressInterfaceRelation
Table type	Multi-instance table
Row name	AddressInterfaceRelation
Restrictions	N/A.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	The value of 0 specifies the public network. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see L3vpn in L3vpn NETCONF XML API Data Reference.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	It must be a host ip address.
AddressOrigin	The way how the IPv4 address is obtained.	Index	Enumeration: 1—Manual. 2—Manual-sub. 3—DHCP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4—BOOTP. 5—Negotiate. 6—Unnumbered. 7—VRRP.	
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

IPV4ADDRESS/Ipv4GlobalAddresses

This table contains IPv4 global address information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4GlobalAddresses>
    <Ipv4GlobalAddress>
      <VrfName></VrfName>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <AddressOrigin></AddressOrigin>
    </Ipv4GlobalAddress>
  </Ipv4GlobalAddresses>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4GlobalAddresses
Table type	Multi-instance table
Row name	Ipv4GlobalAddress
Restrictions	This table supports only global addresses.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	VRF instance name.	Index	String. Length: 1 to 31 characters.	If the DHCP gateway is on the public network, the value is null.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 address mask.	N/A	String, dotted decimal notation.	N/A
AddressOrigin	The way how the IPv4 address is obtained.	N/A	Enumeration: • 1—DHCPGateway.	N/A

Contents

IPV4ADDRESS 2
IPV4ADDRESS/IPv4Addresses 2
IPV4ADDRESS/IPv4AddressUnnumbered 3

IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

Message	Explanation
Invalid IP address or subnet mask. 无效IP地址或掩码长度。	Invalid IP address or subnet mask. 无效IP地址或掩码长度。
Maximum number of IP addresses already reached. 接口下已配置的IP地址个数达到上限。	Maximum number of IP addresses already reached. 接口下已配置的IP地址个数达到上限。
Address types don't match. IP地址类型不匹配。	Address types don't match. 删除地址时，类型不匹配。
The IP address doesn't exist. 该IP地址不存在。	The IP address doesn't exist, when getting or deleting it. 删除或获取地址时，该地址不存在。
Can't change the primary IP address to a secondary IP address. 不能直接将主IP地址转换成从IP地址。	Can't change the primary IP address to a secondary IP address. 不能直接将主IP地址转换成从IP地址。
Operation failed. 操作失败。	Failed to send the message. 发消息失败。
This IP address has been assigned to the management Ethernet interface on another MDC. 该IP地址已经被其它MDC的管理以太网接口占用。	This IP address has been assigned to the management Ethernet interface on another MDC. 该IP地址已经被其它MDC的管理以太网接口占用。
The configuration doesn't meet the requirements. 不符合配置要求。	The specified configuration must be empty, when deleting or removing. Or column incomplete when creating or replacing. 删除表项时，地址管理表项特殊，不支持单独恢复属性为默认值或者Create操作和Replace操作，普通列参数不齐全。
The IP address is used by another interface on the device. 本接口的IP地址与设备其他接口的IP地址冲突	The IP address is used by another interface on the device. 本接口的IP地址与设备其他接口的IP地址冲突
The subnet of the IP address overlaps with the subnet of another interface on the device. 接口IP地址所在网段与设备其他接口的IP地址所在网段重叠。	The subnet of the IP address overlaps with the subnet of another interface on the device. 接口IP地址所在网段与设备其他接口的IP地址所在网段重叠。
Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。	Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。

IPV4ADDRESS/IPv4AddressUnnumbered

Message	Explanation
Operation failed. 操作失败。	Failed to send message. 发消息失败。
Invalid lend interface! 被借用接口无效！	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Can't borrow an IP address from an IP unnumbered interface. 被借用的接口已经配置了地址借用。	Can't borrow an IP address from an IP unnumbered interface. 被借用IP地址的接口已经配置了地址借用功能。
Can't configure IP unnumbered on the interface that has lent its IP address to another interface. 本接口已经被其它接口配置借用，不能配置地址借用。	Can't configure IP unnumbered on the interface that has lent its IP address to another interface. 本接口的地址已经被其它接口借用，不能配置地址借用功能。
Can't borrow an IP address from itself. 不能借用本接口的IP地址。	Can't borrow an IP address from itself. 不能借用本接口的IP地址。
Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。	Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。
Failed to execute this command because the access mode of the unnumbered interface is Layer 2. 配置该命令失败的原因是被借用接口的接入模式为二层接入。	Failed to execute this command because the access mode of the unnumbered interface is Layer 2. 配置该命令失败的原因是被借用接口的接入模式为二层接入。

Contents

IPv4Address event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1
Ipv4 Global Address event ····· 3
XML structure for event subscription ····· 3
XML structure for event report ····· 4

IPv4Address event

This event is used to report IPv4 address information when the IPv4 address of interface is changed. This event is also used to report IPv4 gateway address information when the IPv4 gateway address of interface is changed.

XML structure for event subscription

```
<IPv4AddressEvent>
  <IPv4Address>
    <Name></Name>
  </IPv4Address>
</IPv4AddressEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPv4Address</stream>
    <filter type="subtree">
      <IPv4AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
        <IPv4Address>
          <Name>GigabitEthernet2/0/1</Name>
        </IPv4Address>
      </IPv4AddressEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv4Address
Event name	IPv4AddressEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 0 to 47 characters.	No

XML structure for event report

```
<IPv4AddressEvent>
```

```
  <IPv4Address>
    <Name></Name>
    <Ipv4Address></Ipv4Address>
    <Ipv4Mask></Ipv4Mask>
    <AddressOrigin></AddressOrigin>
    <AddressStatus></AddressStatus>
    <AddressEvent></AddressEvent>
  </IPv4Address>
</IPv4AddressEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv4AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
    <IPv4Address>
      <Name>GigabitEthernet2/0/1</Name>
      <Ipv4Address>1.1.1.1</Ipv4Address>
      <Ipv4Mask>255.255.255.0</Ipv4Mask>
      <AddressOrigin>1</AddressOrigin>
      <AddressStatus>1</AddressStatus>
      <AddressEvent>1</AddressEvent>
    </IPv4Address>
  </IPv4AddressEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No
Ipv4Address	IPv4 address	String, dotted decimal notation.	No
Ipv4Mask	IPv4 address mask	String, dotted decimal notation.	No
AddressOrigin	The way how the IPv4 address is obtained	Enumeration: • **1**—Manual • **2**—Manual-sub • **3**—DHCP • **4**—BOOTP • **5**—Negotiate • **6**—Unnumbered • **7**—VRRP • **8**—Cellular • **9**—MAD	No

Column name	Column description	Data type and restrictions	Support for extended queries
AddressStatus	IPv4 address status	• **1**—Active • **2**---InActive	No
AddressEvent	IPv4 address event	• **1**—Add • **2**—Delete • **3**—Update	No

Ipv4 Global Address event

This event reports an IPv4 global address change on the interface.

XML structure for event subscription

```
<IPv4GlobalAddressEvent>
  <IPv4GlobalAddress>
    <VrfIndex></VrfIndex>
  </IPv4GlobalAddress>
</IPv4GlobalAddressEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPv4Address</stream>
    <filter type="subtree">
      <IPv4GlobalAddressEvent
xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
        <IPv4GlobalAddress>
          <VrfIndex>3</VrfIndex>
        </IPv4GlobalAddress>
      </IPv4GlobalAddressEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv4Address
Event name	IPv4GlobalAddressEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
VrfIndex	VRF index	Unsigned integer.	No

XML structure for event report

```
<IPv4GlobalAddressEvent>
  <IPv4GlobalAddress>
    <VrfIndex></VrfIndex>
    <Ipv4Address></Ipv4Address>
    <Ipv4Mask></Ipv4Mask>
    <AddressOrigin></AddressOrigin>
    <AddressStatus></AddressStatus>
    <EventType></EventType>
  </IPv4GlobalAddress>
</IPv4GlobalAddressEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv4GlobalAddressEvent
xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
    <IPv4GlobalAddress>
      <VrfIndex>3</VrfIndex>
      <Ipv4Address>1.1.1.1</Ipv4Address>
      <Ipv4Mask>255.255.255.0</Ipv4Mask>
      <AddressOrigin>1</AddressOrigin>
      <AddressStatus>1</AddressStatus>
      <EventType>1</EventType>
    </IPv4GlobalAddress>
  </IPv4GlobalAddressEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
VrfIndex	VRF index	Unsigned integer.	No
Ipv4Address	IPv4 address	String, dotted decimal notation.	No
Ipv4Mask	IPv4 address mask	String, dotted decimal notation.	No

Column name	Column description	Data type and restrictions	Support for extended queries
AddressOrigin	The way how the IPv4 address is obtained	Enumeration: • **1**—DHCPGateway	No
AddressStatus	IPv4 address status	• **1**—Active	No
EventType	IPv4 address event	• **1**—Add • **2**—Delete	No

Contents

IPV6ADDRESS 1
IPV6ADDRESS/Ipv6AddressesConfig 1
XML structure 1
Table description 1
Columns 1
IPV6ADDRESS/Ipv6AddressesAuto 2
XML structure 2
Table description 3
Columns 3
IPV6ADDRESS/Ipv6AddressGlobalConfig 4
XML structure 4
Table description 4
Columns 4
IPV6ADDRESS/Ipv6AddressCellular 4
XML Structure 4
Table description 5
Columns 5

IPV6ADDRESS

IPV6ADDRESS/Ipv6AddressesConfig

This table contains configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesConfig>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6AddressesConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesConfig
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	It must be configured as valid IPv6 prefix when the AddressOrigin column is 2.
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: • **1**—AssignedIP. • **2**—AssignedEUI64IP. • **3**—LinklocalIP.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	Required when the AddressOrigin column is 1 or 2. Optional when the AddressOrigin column is 3. Value range is 1 to 64 when the AddressOrigin column is 2. Value range is 10 to 128 when the AddressOrigin column is 3**.** The delete and remove operations do not support this column except that the AddressOrigin column is 3. The merge, create, and replace operations must include this column except that the AddressOrigin column is 3.
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: • **true** • **false** (default)	It can not be configured when the AddressOrigin column is 2 or 3. Can not be modified. The delete and remove operations do not support this column. The merge, create, and replace operations must include this column.

IPV6ADDRESS/Ipv6AddressesAuto

This table contains the information about IPv6 addresses autoconfiguration.

XML structure

```
<IPV6ADDRESS>
```

```
  <Ipv6AddressesAuto>
    <AutoAddress>
      <IfIndex></IfIndex>
      <Auto></Auto>
      <AutoLinkLocal></AutoLinkLocal>
    </AutoAddress>
  </Ipv6AddressesAuto>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesAuto
Table type	Multi-instance table
Row name	AutoAddress
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Auto	Whether the stateless address autoconfiguration function is enabled on an interface.	N/A	Boolean: • **true** • **false** (default)	N/A
AutoLinkLocal	Whether or not generate a link-local address on an interface automatically.	N/A	Boolean: • **true** • **false** (default)	N/A

IPV6ADDRESS/Ipv6AddressGlobalConfig

This table contains global configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressGlobalConfig>
    <DuplicateAutoDetectEnable></DuplicateAutoDetectEnable>
    <DuplicateAutoDetectInterval></DuplicateAutoDetectInterval>
  </Ipv6AddressGlobalConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressGlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DuplicateAutoDetectEnable	Whether IPv6 conflict auto detection is enabled.	N/A	Boolean: • **true** • **false** (default)	N/A
DuplicateAutoDetectInterval	Time interval for IPv6 conflict auto detection.	N/A	Unsigned integer. Value range: 1 to 60, in seconds. Default: 5.	N/A

IPV6ADDRESS/Ipv6AddressCellular

This table achieves IPv6 address allocation through the modem-manufacturer's proprietary protocol.

XML Structure

```
<IPV6ADDRESS>
  <Ipv6AddressCellular>
```

```
      <AddressCellular>
        <IfIndex></IfIndex>
        <ConfigOption></ConfigOption>
      </AddressCellular>
    </Ipv6AddressCellular>
  </IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
ConfigOption	Whether the interface is enabled to obtain an IPv6 address from the modem by using the modem-manufacturer's proprietary protocol	N/A	Boolean: • **true** • **false** (default)	After you enable this feature, the IPv6 address assigned to the interface before will be deleted.

Contents

IPV6ADDRESS 1
IPV6ADDRESS/Ipv6AddressesConfig 1
XML structure 1
Table description 1
Columns 1
IPV6ADDRESS/Ipv6AddressesAuto 2
XML structure 2
Table description 2
Columns 2
IPV6ADDRESS/IPv6Addresses 3
XML structure 3
Table description 3
Columns 4
IPV6ADDRESS/ Ipv6AddressSpecification 4
XML structure 4
Table description 4
Columns 5
IPV6ADDRESS/Ipv6AddressGlobalConfig 5
XML structure 5
Table description 5
Columns 5
IPV6ADDRESS/Ipv6AddressCellular 6
XML Structure 6
Table description 6
Columns 6
IPV6ADDRESS/Ipv6AddressGateway 7
XML Structure 7
Table description 7
Columns 7

IPV6ADDRESS

IPV6ADDRESS/Ipv6AddressesConfig

This table contains configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesConfig>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Name></Name>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6AddressesConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesConfig
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: • **1**—AssignedIP. • **2**—AssignedEUI64IP. • **3**—LinklocalIP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: • **true** • **false**	N/A

IPV6ADDRESS/Ipv6AddressesAuto

This table contains the information about IPv6 addresses autoconfiguration.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesAuto>
    <AutoAddress>
      <IfIndex></IfIndex>
      <Name></Name>
      <Auto></Auto>
      <AutoLinkLocal></AutoLinkLocal>
    </AutoAddress>
  </Ipv6AddressesAuto>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesAuto
Table type	Multi-instance table
Row name	AutoAddress
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces

Column name	Column description	Column type	Data type and restrictions	Remarks
				are supported.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Auto	Whether the stateless address autoconfiguration function is enabled on an interface.	N/A	Boolean: • **true** • **false**	N/A
LinkLocal	Whether or not generate a link-local address on an interface automatically.	N/A	Boolean: • **true** • **false**	N/A

IPV6ADDRESS/IPv6Addresses

This table contains information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6Addresses>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Name></Name>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6Addresses>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6Addresses
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: • **1**—AssignedIP. • **2**—AssignedEUI64IP. • **3**—LinklocalIP. • **4**—AssignedAutoIP. • **5**—DHCPv6.	N/A
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: • **true** • **false**	N/A

IPV6ADDRESS/ Ipv6AddressSpecification

This table contains IPv6 address specification information.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressSpecification>
     <SupportDHCPv6></SupportDHCPv6>
  </Ipv6AddressSpecification>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressSpecification
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDHCPv6	Support for IPv6 DHCP client.	N/A	Boolean: • **true** • false	N/A

IPV6ADDRESS/Ipv6AddressGlobalConfig

This table contains global configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressGlobalConfig>
    <DuplicateAutoDetectEnable></DuplicateAutoDetectEnable>
    <DuplicateAutoDetectInterval></DuplicateAutoDetectInterval>
  </Ipv6AddressGlobalConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressGlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DuplicateAutoDetectEnable	Whether IPv6 conflict auto detection is enabled.	N/A	Boolean: • **true** • **false**	N/A
DuplicateAutoDet	Time interval for	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ectInterval	IPv6 conflict auto detection.		Value range: 1 to 60, in seconds.	

IPV6ADDRESS/Ipv6AddressCellular

This table achieves IPv6 address allocation through the modem-manufacturer's proprietary protocol.

XML Structure

```
<IPV6ADDRESS>
  <Ipv6AddressCellular>
    <AddressCellular>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressCellular>
  </Ipv6AddressCellular>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML*

Column name	Column description	Column type	Data type and restrictions	Remarks
				API Configuration Reference.
ConfigOption	Whether the interface is enabled to obtain an IPv6 address from the modem by using the modem-manufacturer's proprietary protocol	N/A	Boolean: • **true** • **false** (default)	After you enable this feature, the IPv6 address assigned to the interface before will be deleted.

IPV6ADDRESS/Ipv6AddressGateway

This table is used to obtain the highest-priority gateway address of the interface.

XML Structure

```
<IPV6ADDRESS>
  <Ipv6AddressGateway>
    <GatewayAddress>
      <IfIndex></IfIndex>
      <VrfIndex></VrfIndex>
      <GatewayAddr></GatewayAddr>
    </GatewayAddress>
  </Ipv6AddressGateway>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressGateway
Table type	Multi-instance table
Row name	GatewayAddress
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	NameAndIndexUnion.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
VrfIndex	VRF index	N/A	Unsigned integer.	N/A
GatewayAddr	Gateway address	N/A	Hexadecimal string, colon-separated.	N/A

Contents

IPV6ADDRESS 1
IPV6ADDRESS/Ipv6AddressesConfig 1

IPV6ADDRESS

IPV6ADDRESS/Ipv6AddressesConfig

Message	Explanation
The IPv6 address is used by another interface on the device. 本接口的IP地址与设备其他接口的IP地址冲突	The IPv6 address is used by another interface on the device. 本接口的IP地址与设备其他接口的IP地址冲突
The subnet of the IPv6 address overlaps with the subnet of another interface on the device. 接口IPv6地址所在网段与设备其他接口的IPv6地址所在网段重叠。	The subnet of the IPv6 address overlaps with the subnet of another interface on the device. 接口IPv6地址所在网段与设备其他接口的IPv6地址所在网段重叠。
The prefix length can't be greater than 64. 前缀长度不应该超过64位。	The prefix length can't be greater than 64. 为接口配置EUI-64格式的全球单播地址时，前缀长度取值不能大于64。
Can't assign the IPv6 unspecified address. 不能配置一个IPv6未指定地址。	Can't assign the IPv6 unspecified address. 不能将未指定地址配置为接口的全球单播地址。
Can't assign the IPv6 loopback address. 不能配置一个IPv6环回地址。	Can't assign the IPv6 loopback address. 不能将环回地址配置为接口的全球单播地址。
Can't assign an IPv6 multicast address. 不能配置一个IPv6组播地址。	Can't assign an IPv6 multicast address. 不能将组播地址配置为接口的全球单播地址。
Can't assign a reserved IPv6 subnet anycast address. 不能配置一个子网路由任播地址。	Can't assign a reserved IPv6 subnet anycast address. 不能将子网路由器任播地址配置为接口的全球单播地址。
Can't assign an IPv6 link-local address. 不能配置一个链路本地地址。	Can't assign an IPv6 link-local address. 不能将链路本地地址配置为接口的全球单播地址。
Invalid IPv6 link-local address. 非法的链路本地地址。	Invalid IPv6 link-local address. 配置的链路本地地址无效，链路本地地址的前缀是FE80::/10。
Maximum number of IPv6 addresses on the interface already reached. 该接口下配置的IPv6地址总个数超过上限。	Maximum number of IPv6 addresses on the interface already reached. 该接口下配置的单播地址总数超过上限。缺省情况下，接口下可配置的单播地址总数为32，具体取值产品可定制。
The IPv6 global unicast address conflicts with the anycast address on the interface. 接口上的IPv6全球单播地址和任播地址冲突。	The IPv6 global unicast address conflicts with the anycast address on the interface. 接口上的IPv6全球单播地址和任播地址冲突。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The specified configuration must be empty, when deleting or removing. Or column incomplete when creating or replacing. 创建地址时，下发的请求中要包含索引列和非索引列。 删除地址时，下发的请求中只能包含索引列，不能包含非索引列。
Invalid IPv6 prefix. 非法的IPv6前缀。	Invalid configuration, please modify configuration under the guidance. 为接口配置EUI-64格式的全球单播地址时，IPv6地址和IPv6地址前缀做与操作，结果和IPv6地址不同。

The prefix length of a link-local address must not be less than 10. 链路本地地址的前缀长度必须不小于10。	The prefix length of a link-local address must not be less than 10. 链路本地地址的前缀长度必须大于或等于10。
Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。	Failed to execute this command because the access mode of the interface is Layer 2. 配置该命令失败的原因是当前接口的接入模式是二层接入。

Contents

IPv6Address event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
IPv6AddressGateway event ····· 3
XML structure for event subscription ····· 3
XML structure for event report ····· 4

IPv6Address event

This event is used to report IPv6 address information when the IPv6 address of an interface is changed.

XML structure for event subscription

```
<IPv6AddressEvent>
  <IPv6Address>
    <Name></Name>
  </IPv6Address>
</IPv6AddressEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPv6Address</stream>
    <filter type="subtree">
      <IPv6AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
        <IPv6Address>
          <Name>GigabitEthernet2/0/1</Name>
        </IPv6Address>
      </IPv6AddressEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv6Address
Event name	IPv6AddressEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 0 to 47 characters.	No

XML structure for event report

```
<IPv6AddressEvent>
  <IPv6Address>
    <Name></Name>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <AddressOrigin></AddressOrigin>
    <AddressStatus></AddressStatus>
    <AddressEvent></AddressEvent>
  </IPv6Address>
</IPv6AddressEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv6AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
    <IPv6Address>
      <Name>GigabitEthernet2/0/1</Name>
      <Ipv6Address>1::1</Ipv6Address>
      <Ipv6PrefixLength>64</Ipv6PrefixLength>
      <AddressOrigin>1</AddressOrigin>
      <AddressStatus>1</AddressStatus>
      <AddressEvent>1</AddressEvent>
    </IPv6Address>
  </IPv6AddressEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No
Ipv6Address	IPv6 address	Hexadecimal string, colon-separated.	No
Ipv6PrefixLength	Length of the IPv6 prefix	Unsigned integer. Value range: 1 to 128.	No
AddressOrigin	The way how the IPv6 address is obtained	Enumeration: • **1**—AssignedIP • **2**—AssignedEUI64IP • **3**—LinklocalIP • **4**—AssignedAutoIP • **5**—DHCPv6	No

Column name	Column description	Data type and restrictions	Support for extended queries
AddressStatus	IPv6 address status	Enumeration: • **1**—Preferred • **2**—Deprecated • **3**—Invaild • **4**—Tentative • **5**—Duplicate	No
AddressEvent	IPv6 address event	Enumeration: • **1**—Add • **2**—Delete • **3**—Update	No

IPv6AddressGateway event

This event is used to report the IPv6 gateway address change event on an interface.

XML structure for event subscription

```
<IPv6AddressGatewayEvent>
  <IPv6AddressGateway>
    <IfName></IfName>
  </IPv6AddressGateway>
</IPv6AddressGatewayEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>IPv6Address</stream>
    <filter type="subtree">
      <IPv6AddressGatewayEvent
xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
        <IPv6AddressGateway>
          <IfName>GigabitEthernet2/0/1</IfName>
        </IPv6AddressGateway>
      </IPv6AddressGatewayEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv6Address
Event name	IPv6AddressGatewayEvent

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Length: 0 to 47 characters.	No

XML structure for event report

```
<IPv6AddressGatewayEvent>
  <IPv6AddressGateway>
    <IfName></IfName>
    <VrfIndex></VrfIndex>
    <GatewayAddr></GatewayAddr>
    <GatewayEvent></GatewayEvent>
  </IPv6AddressGateway>
</IPv6AddressGatewayEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv6AddressGatewayEvent
xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
    <IPv6AddressGateway>
      <IfName>GigabitEthernet2/0/1</IfName>
      <VrfIndex>0</VrfIndex>
      <GatewayAddr>1::1</GatewayAddr>
      <GatewayEvent>1</GatewayEvent>
    </IPv6AddressGateway>
  </IPv6AddressGatewayEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Interface name	String. Length: 1 to 47 characters.	No
VrfIndex	VRF index	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
GatewayAddr	IPv6 gateway address	Hexadecimal string, colon-separated.	No
GatewayEvent	IPv6 address gateway event	Enumeration: • **1**—AddGateway • **2**—DeleteGateway	No

Contents

IRF 1
IRF/ConvertMode 1
XML structure 1
Table description 1
Columns 1
IRF/PortConfiguration 2
XML structure 2
Table description 2
Columns 2

IRF

IRF/ConvertMode

This table contains IRF mode convert information.

Please save the configuration before do this action.

When you convert the IRF mode the device will reboot automatically.

XML structure

```
<IRF>
  <ConvertMode>
    <StackMode></StackMode>
    <ConvertCfg></ConvertCfg>
  </ConvertMode>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	ConvertMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StackMode	Stack mode will be changed to.	N/A	Boolean: • **true** • **false**	true: Change to stack mode. false: Change to standalone mode. Also available in standalone mode.
ConvertCfg	Whether or not convert the configuration before change the stack mode.	N/A	Boolean: • **true** • **false**	true: Convert configuration file before changing stack mode. false: Don't convert configuration file before changing stack mode. Also available in standalone mode.

IRF/PortConfiguration

This table contains IRF port configuration activate information.

Please save the configuration before do this action.

After you activated the IRF configuration, the device maybe auto merge and reboot.

XML structure

```
<IRF>
  <PortConfiguration>
    <Activate />
  </PortConfiguration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	PortConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Activate	Activate the current IRF configuration.	N/A	This column must be empty.	N/A

Contents

IRF 1
IRF/Configuration 1
XML structure 1
Table description 1
Columns 1
IRF/Members 2
XML structure 2
Table description 3
Columns 3
IRF/IRFPorts 3
XML structure 4
Table description 4
Columns 4

IRF

IRF/Configuration

This table contains IRF global configuration information.

XML structure

```
<IRF>
  <Configuration>
    <AutoMerge></AutoMerge>
    <AutoUpgrade></AutoUpgrade>
    <Domain></Domain>
    <LinkDelay></LinkDelay>
    <MacPersist></MacPersist>
  </Configuration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoMerge	State of the auto merge function	N/A	EnableState. Default: variant between products.	enable: The IRF fabric automatically reboots its member devices when it fails in the master election during an IRF fabric merge. disable: Manual reboot is required to complete an IRF fabric merge.

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade	Status of the software auto-update function	N/A	EnableState. Default: variant between products.	enable: The master device automatically pushes its software images to the device you are adding to the IRF fabric. disable: You must manually make sure the joining device uses the same software images as the master device. If not, the new device cannot join the IRF fabric.
Domain	Domain ID for the IRF fabric	N/A	Unsigned integer. Value range: 0 to 4294967295 Default: 0	N/A
LinkDelay	IRF link down report delay	N/A	Unsigned integer. Value range: 0 to 10000. Unit: milliseconds Default: variant between products.	If the interval is set to 0, link down events are reported without any delay.
MacPersist	IRF bridge MAC persistence setting	N/A	Enumberation. • 1—Timer (default) • 2—Always • 3—No	Timer: A 6 minutes timer, bridge MAC address of the IRF fabric persists for 6 minutes after the master leaves. Always: Bridge MAC address of the IRF fabric does not change after the master leaves. No: Bridge MAC address of the new master replaces the original one as soon as the old master leaves.

IRF/Members

This table contains configuration of the IRF members.

XML structure

```
<IRF>
  <Members>
    <Member>
      <MemberID></MemberID>
      <NewMemberID></NewMemberID>
      <Description></Description>
```

```
      <Priority></Priority>
    </Member>
  </Members>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID.	Index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. **Stand-alone mode: 0.**	The current member ID of the device. The maximum member ID is variant between products. Also available in stand-alone mode.
NewMemberID	Member ID assigned to the device.	N/A	Unsigned integer. Value range: 1 to 32. Default: Stack mode: MemberID. Stand-alone mode: 1	This member ID takes effect at reboot. The maximum member ID is variant between products. Also available in stand-alone mode.
Description	Description for the member device.	N/A	String. Max length: 1 to 127 characters.	A string of 1 to 127 ASCII characters.
Priority	Member priority.	N/A	Unsigned integer. Value range: 1 to 32. Default: 1.	Also available in stand-alone mode.

IRF/IRFPorts

This table contains configuration of the IRF ports.

XML structure

```
<IRF>
  <IRFPorts>
    <IRFPort>
      <MemberID></MemberID>
      <Port></Port>
      <Interface>
        <IfName></IfName>
        <MDCName></MDCName>
        <Mode></Mode>
      </Interface>
    </IRFPort>
  </IRFPorts>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	IRFPorts
Table type	Multi-instance table
Row name	IRFPort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	Index	Unsigned integer. Value range: Stack mode: 1 to 32. Default: 1. **Stand-alone mode: 0.**	The current member ID of the device. Also available in stand-alone mode.
Port	IRF port number	Index	Unsigned integer. Value range: 1 to 2	1: IRF port 1 2: IRF port 2 Also available in stand-alone mode.
Interface	Physical port of an IRF port	Data structure	Members: • IfName • MDCName • Mode	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	Physical port of an IRF port
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 characters Optional	If MDCName is specified, it binds physical ports on the MDC to an IRF port. If no MDCName is specified, it binds physical ports on the default MDC to an IRF port.
Mode	Physical IRF port mode	N/A	Enumeration. • 1—Normal • 2—Enhanced • 3—Extended Default: variant between products.	Normal: Sets the binding mode to normal. Enhanced: Sets the binding mode to enhanced. Extended: Sets the binding mode to extended.

Contents

IRF 1
IRF/Capability 1
XML structure 1
Table description 1
Columns 1
IRF/Configuration 3
XML structure 3
Table description 3
Columns 3
IRF/Members 5
XML structure 5
Table description 5
Columns 6
IRF/IRFPorts 6
XML structure 6
Table description 7
Columns 7

IRF

IRF/Capability

This table contains IRF global configuration information, also available in stand-alone mode.

XML structure

```
<IRF>
  <Capability>
    <MaxMemberCount></MaxMemberCount>
    <MaxPriority></MaxPriority>
    <MaxIfNumPerIRFPort></MaxIfNumPerIRFPort>
    <SupportedIfTypes>
       <ifTypeExt></ifTypeExt>
    </SupportedIfTypes>
    <SupportNormalPortMode></SupportNormalPortMode>
    <SupportEnhancedPortMode></SupportEnhancedPortMode>
    <SupportExtendedPortMode></SupportExtendedPortMode>
    <SupportLightIRFMode></SupportLightIRFMode>
    <SupportNormalIRFMode></SupportNormalIRFMode>
    <SupportEnhancedIRFMode></SupportEnhancedIRFMode>
    <SupportIRFModeConvert></SupportIRFModeConvert>
  </Capability>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxMemberCount	The maximum number of members in a stack.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxPriority	The highest priority that can be configured for a member in a stack	N/A	Unsigned integer.	N/A
MaxIfNumPerIRFPort	The maximum number of physical ports in an IRF port.	N/A	Unsigned integer.	N/A
SupportedIfTypes	Indicates which physical interface type can be added to IRF port.	Data structure	Members: • ifTypeExt	Multi-instance.
ifTypeExt	The physical interface type.	N/A	Unsigned integer.	ifTypeExt is referenced from Interfaces table in Ifmgr NETCONF XML API, XPath is Ifmgr/Interfaces/Interface/ifTypeExt. Please reference to *Comware V7 Ifmgr NETCONF XML API Data Reference.*
SupportNormalPortMode	Indicates whether support normal port mode.	N/A	Boolean • true • false	N/A
SupportEnhancedPortMode	Indicates whether support enhanced port mode.	N/A	Boolean • true • false	N/A
SupportExtendedPortMode	Indicates whether support extended port mode.	N/A	Boolean • true • false	N/A
SupportLightIRFMode	Indicates whether support light IRF mode.	N/A	Boolean • true • false	N/A
SupportNormalIRFMode	Indicates whether support normal IRF mode.	N/A	Boolean • true • false	N/A
SupportEnhancedIRFMode	Indicates whether support enhanced IRF mode.	N/A	Boolean • true • false	N/A
SupportIRFModeConvert	Indicates whether support mode convert between IRF and stand-alone mode.	N/A	Boolean • true • false	N/A

IRF/Configuration

This table contains IRF global configuration information.

XML structure

```
<IRF>
  <Configuration>
    <AutoMerge></AutoMerge>
    <AutoUpgrade></AutoUpgrade>
    <Domain></Domain>
    <LinkDelay></LinkDelay>
    <MacPersist></MacPersist>
    <MacPersistTime></MacPersistTime>
    <BridgeMac></BridgeMac>
    <TopoType></TopoType>
    <StackMode></StackMode>
    <MemberCount></MemberCount>
  </Configuration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoMerge	State of the auto merge function	N/A	EnableState.	enable: The IRF fabric automatically reboots its member devices when it fails in the master election during an IRF fabric merge. disable: Manual reboot is required to complete an IRF fabric merge.

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade	Status of the software auto-update function	N/A	EnableState.	enable: The master device automatically pushes its software images to the device you are adding to the IRF fabric. disable: You must manually make sure the joining device uses the same software images as the master device. If not, the new device cannot join the IRF fabric.
Domain	Domain ID for the IRF fabric	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LinkDelay	IRF link down report delay	N/A	Unsigned integer. Value range: 0 to 10000. Unit: milliseconds.	If the interval is set to 0, link down events are reported without any delay.
MacPersist	IRF bridge MAC persistence setting	N/A	Enumberation. • 1—Timer • 2—Always • 3—No	Timer: Enables the IRF bridge MAC address to remain unchanged for n minutes after the address owner leaves. Always: Bridge MAC address of the IRF fabric does not change after the master leaves. No: Bridge MAC address of the new master replaces the original one as soon as the old master leaves.
MacPersistTime	IRF bridge MAC persistence time	N/A	Unsigned integer.	n: Bridge MAC address of the IRF fabric persists for n minutes after the master leaves.
BridgeMac	IRF bridge MAC address	N/A	Specifies a MAC address in the format of xx-xx-xx-xx-xx-xx. The MAC address cannot be the all-zero or all-F MAC address, or a multicast MAC address.	N/A
TopoType	Stack topology	N/A	Enumeration. • 1—Chain • 2—Ring • 3—Unconverged	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StackMode	Current stack mode of the device	N/A	Boolean • true • false	true: Stack mode false: Stand-alone mode Also available in stand-alone mode.
MemberCount	The number of members currently in a stack	N/A	Unsigned integer.	N/A

IRF/Members

This table contains configuration of the IRF members.

XML structure

```
<IRF>
  <Members>
    <Member>
      <MemberID></MemberID>
      <NewMemberID></NewMemberID>
      <Description></Description>
      <Priority></Priority>
      <CPUMac></CPUMac>
      <Board>
        <Chassis></Chassis>
        <Slot></Slot>
        <Role></Role>
      </Board>
    </Member>
  </Members>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. **Stand-alone mode: 0.**	The current member ID of the device. The maximum member ID is variant between products. Also available in stand-alone mode.
NewMemberID	Member ID assigned to the device	N/A	Unsigned integer. Value range: 1 to 32.	This member ID takes effect at reboot. The maximum member ID is variant between products. Also available in stand-alone mode.
Description	Description for the member device.	N/A	String. Max length: 127	A string of 1 to 127 ASCII characters.
Priority	Member priority	N/A	Unsigned integer. Value range: 1 to 32.	Also available in stand-alone mode.
CPUMac	Member's CPU MAC address	N/A	MacAddress.	N/A
Board	Board information of the member	Data structure	Members: • Chassis • Slot • Role	Multi-instance
Chassis	Chassis ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	IRF(Distributed): this value is large than zero. IRF: this value is zero.
Slot	Slot ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Role	Board role	N/A	Enumeration. • 1—Master • 2—Standby • 3—Loading • 4—Other	N/A

IRF/IRFPorts

This table contains configuration of the IRF ports.

XML structure

```
<IRF>
  <IRFPorts>
```

```
    <IRFPort>
      <MemberID></MemberID>
      <Port></Port>
      <Neighbor></Neighbor>
      <State></State>
      <Interface>
        <IfName></IfName>
        <MDCName></MDCName>
        <Mode></Mode>
        <LinkState></LinkState>
      </Interface>
      <LinkStateInMDC>
        <MDCName></MDCName>
        <State></State>
      </LinkStateInMDC>
    </IRFPort>
  </IRFPorts>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	IRFPorts
Table type	Multi-instance table
Row name	IRFPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: Stack mode: 1 to 32. **Stand-alone mode: 0.**	The current member ID of the device. Also available in stand-alone mode.
Port	IRF port number	index	Unsigned integer. Value range: 1 to 2	1: IRF port 1 2: IRF port 2 Also available in stand-alone mode.
Neighbor	Neighbor member ID of this device.	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the IRF port.	N/A	Enumeration. • 1—Disabled • 2—Up • 3—Down • 4—Isolated • 5—Timeout	N/A
Interface	Physical port of an IRF port	Data structure	Members: • IfName • MDCName • Mode • LinkState	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	Physical port of an IRF port
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	If MDCName is specified, it binds physical ports on the MDC to an IRF port. If MDCName is not specified, it binds physical ports on the default MDC to an IRF port.
Mode	Physical IRF port mode	N/A	Enumeration. • 1—Normal • 2—Enhanced • 3—Extended	Normal: Sets the binding mode to normal. Enhanced: Sets the binding mode to enhanced. Extended: Sets the binding mode to extended.
LinkState	Link state of the interface.	N/A	Enumeration. • 1—Up • 2—Down • 3—ADM • 4—Absent	Up: Link is up. Down: Link is down. ADM: The port has been manually shut down with the shutdown command. Absent: Interface module that hosts the port is not present.
LinkStateInMDC	IRF link state on MDC of the specified IRF port.	Data structure	Members: • MDCName • State	Multi-instance. Also available in stand-alone mode.
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the IRF port in a MDC.	N/A	Enumeration. • 1—Up • 2—Down • 3—Timeout	N/A

Contents

IRF 2
IRF/ConvertMode 2
IRF/Configuration 2
IRF/PortConfiguration 3
IRF/IRFPorts 3

IRF

IRF/ConvertMode

Message	Explanation
The device is already in stand-alone mode. 设备正是独立运行模式。	Mode convert failed. 模式设置失败。
The device is already in IRF mode. 设备正是堆叠模式运行。	Mode convert failed. 模式设置失败。
Please disconnect the IRF connection first. 请先断开堆叠连接。	Mode convert failed. 模式设置失败。
Please try again later. 请稍后再试。	Cannot convert mode right now. 暂时无法设置。
Some files are open, please try again later. 部分文件处于打开状态，请稍后再试。	Failed to reboot. 重启失败。
Flash is in write mode, please try again later. Flash处于写模式，请稍后再试。	Failed to reboot. 重启失败。
The specified boot file does not exist. 下次启动文件不存在。	Failed to reboot. 重启失败。
System is saving configuration file, please try again later. 系统正在保存配置文件，请稍后再试。	Failed to reboot. 重启失败。
System is updating, please try again later. 系统正在升级，请稍后再试。	Failed to reboot. 重启失败。
System is busy now, please try again later. 系统忙，请稍后再试。	Failed to reboot. 重启失败。
The MDC is busy. Please try again later. MDC忙，请稍后再试。	Failed to reboot. 重启失败。
The Context is busy. Please try again later. Context忙，请稍后再试。	Failed to reboot. 重启失败。
Failed to reboot. 重启失败。	Failed to reboot. 重启失败。

IRF/Configuration

Message	Explanation
Configuration is not support in stand-alone mode. 独立运行模式不支持该配置。	Set to irf mode first 请先切换成堆叠模式

IRF/PortConfiguration

Message	Explanation
Configuration is not support in stand-alone mode. 独立运行模式不支持该配置。	Set to irf mode first 请先切换成堆叠模式

IRF/IRFPorts

Message	Explanation
The IRF port and the bound physical port must be on the same device. 堆叠口及其绑定的物理接口必须在同一个设备上。	The IRF port and the bound physical port are on diffrent devices. 堆叠口及其绑定的物理接口不在同一个设备上。
Physical port %s has been bound to another IRF port. 接口已经被绑定到另一个堆叠口中。	Bounding physical port failed. 接口绑定失败。
Please shut down interface first. 请先禁用接口。	Bounding physical port failed. 接口绑定失败。
Number of physical ports exceeded the limit. 超过了堆叠口可配置的最大物理接口数量。	Failed to add physical port. 物理口数已到最大值。
Exceed the max member ID. 超过最大的成员编号。	Exceed the max member ID. 成员编号已到最大值
This mode is not support on the IRF port. 堆叠口不支持该模式。	Failed to set mode. 设置堆叠口模式失败。
Interface is not exist. 接口不存在。	Invalid interface. 接口无效。
Interface can't be bound to an IRF port. 接口不能配置为堆叠口。	Failed to bound to an IRF port. 接口配置为堆叠口失败。
Interface doesn't belong to the specified MDC. 接口不在指定的MDC中。	Failed to bound to an IRF port. 接口配置为堆叠口失败。
Configuration failed. The interface has been configured to combine with other breakout interfaces. 配置失败因为接口下配置了using命令。	Configuration failed. 配置失败。
Configuration failed. The interface has been configured to split. 配置失败因为接口下配置了using命令。	Configuration failed. 配置失败。

Contents

ISIS 1

ISIS/Instances 1
XML structure 1
Table description 1
Columns 1
ISIS/VRFs 2
XML structure 2
Table description 3
Columns 3
ISIS/Familys 8
XML structure 8
Table description 11
Columns 11
ISIS/Interfaces 23
XML structure 23
Table description 25
Columns 25
ISIS/AdjSids 30
XML structure 30
Table description 31
Columns 31
ISIS/SRv6Locators 31
XML structure 31
Table description 32
Columns 32
ISIS/Redistributes 33
XML structure 33
Table description 33
Columns 34
ISIS/LeakRouteLevel1ToLevel2s 35
XML structure 36
Table description 36
Columns 36
ISIS/LeakRouteLevel2ToLevel1s 37
XML structure 37
Table description 38
Columns 38
ISIS/Algorithms 39
XML structure 39
Table description 40
Columns 40
ISIS/AffinityMaps 42
XML structure 42
Table description 43
Columns 43
ISIS/IfAffinitys 43
XML structure 43
Table description 44
Columns 44
ISIS/PrefixSidV4 44
XML structure 45
Table description 45
Columns 45
ISIS/RedistBiers 46
XML structure 46
Table description 46
Columns 47

ISIS/Summaries ····· 47
XML structure ····· 47
Table description ····· 48
Columns ····· 48

ISIS

ISIS/Instances

This table contains IS-IS instance information.

XML structure

```
<ISIS>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <Mode></Mode>
    </Instance>
  </Instances>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters.	After an instance is created, its VRF cannot be modified. An empty string indicates the public network
Mode	Mode of the ISIS process.	N/A	Enumeration: • **0**—Normal process	After a process is created, its mode

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • **1**—Lightweight process.	cannot be modified.

ISIS/VRFs

This table contains IS-IS VRF information.

XML structure

```
<ISIS>
  <VRFs>
    <VRF>
      <Name></Name>
      <CostStyle>
        <Style></Style>
        <RelaxSpfLimit></RelaxSpfLimit>
      </CostStyle>
      <NetworkEntity></NetworkEntity>
      <LevelId></LevelId>
      <DistributeBgpLs>
        <LsType></LsType>
        <InstanceId></InstanceId>
        <LevelType></LevelType>
      </DistributeBgpLs>
      <NSR></NSR>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <MplsTe>
        <Enable></Enable>
        <LevelType></LevelType>
      </MplsTe>
      <SetOverload>
        <SetType></SetType>
        <Timeout></Timeout>
        <NbrSystemId></NbrSystemId>
        <NbrTimeout></NbrTimeout>
        <AllowExternal></AllowExternal>
        <AllowInterLevel></AllowInterLevel>
      </SetOverload>
      <Overload>
        <AdjustCost></AdjustCost>
        <AdjustCostValue></AdjustCostValue>
      </Overload>
```

```
      <Isolate></Isolate>
      <Shutdown></Shutdown>
      <MetricDelaySuppression>
        <Time></Time>
        <ThresholdPercent></ThresholdPercent>
        <ThresholdAbsolute></ThresholdAbsolute>
      </MetricDelaySuppression>
      <MetricBandwidthSuppression>
        <Time></Time>
      </MetricBandwidthSuppression>
      <MetricLossSuppression>
        <Time></Time>
        <ThresholdPercent></ThresholdPercent>
        <ThresholdAbsolute></ThresholdAbsolute>
      </MetricLossSuppression>
      <BierEnable></BierEnable>
      <AgingSelfLspLife></AgingSelfLspLife>
      <AgingNonSelfLspLife></AgingNonSelfLspLife>
    </VRF>
  </VRFs>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
CostStyle	Cost style.	Data structure	Members include: • Style. • RelaxSpfLimit.	N/A
Style	Style ID.	N/A	Enumeration: • **1**—narrow (default). • **2**—wide.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—compatible. • **4**—narrow-compatible. • **5**—wide-compatible.	
RelaxSpfLimit	Whether to accept routes with cost greater than 1023.	N/A	Boolean: • **true**—Accept routes with cost greater than 1023. • **false**—Does not accept routes with cost greater than 1023 (default).	N/A
NetworkEntity	Configure the network entity title (NET) for an IS-IS process.	N/A	String. Length: 1 to 82 characters A NET comprises the following parts: • Area ID—With a length of 1 to 13 bytes. • System ID—A system ID uniquely identifies a host or router in the area and has a fixed 6-byte length. • SEL—It has a value of 0 and a fixed 1-byte length.	Specify a NET as a dotted hexadecimal string in the X....X.XXXX....XXXX.00 format. The X....X segment represents the area address, the XXXX....XXXX segment represents the system ID, and the 00 segment is the SEL. Repeat supported for 3 times.
LevelId	Router working level.	N/A	Enumeration: • **1**—Level 1. • **2**—Level 2. • **3**—Level-1-2 (default).	N/A
DistributeBgpLs	Allow the device to send the link state information to bgp	Data structure	Members include: • LsType • InstanceId. • LevelType.	N/A
LsType	Link state type.	N/A	Enumeration: • 1—BGP LS. • 2—Link state.	N/A
InstanceId	Instance Id	N/A	Unsigned integer. Value range 0 to 65535	N/A
LevelType	Level type	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2 (default).	N/A.
NSR	Open the ISIS protocol NSR	N/A	Boolean: • **true**—Open the	N/A .

Column name	Column description	Column type	Data type and restrictions	Remarks
	function		ISIS protocol NSR function. • **false**—Close the ISIS protocol NSR function (default).	
SRGB	Specify range of SRGB.	Data structure	Members include: • **Lowerbound.** • **Upperbound.**	The members of Lowerbound and Upperbound must be specified.
Lowerbound	Min value of SRGB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer.	N/A
MplsTe	MPLS traffic engineering information for IS-IS.	Data structure	Members include: • Enable. • LevelType.	The member of Enable must be specified.
Enable	Enable MPLS traffic engineering for IS-IS.	N/A	Boolean: • **true**—Enable MPLS traffic engineering for IS-IS. • **false**—Disable MPLS traffic engineering for IS-IS (default).	N/A
LevelType	Level type	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2 (default).	N/A
SetOverload	Set the overload bit	Data structure	Members include: • SetType. • Timeout. • NbrSystemId. • NbrTimeout. • AllowExternal • AllowInterLevel.	N/A
SetType	Type of set-overload	N/A	Enumeration: • 0—Do not set overload. • 1—Force overload. • 2—Set overload on startup. • 3—Set overload on startup and start from specified neighbor. • 4—Set overload on startup and wait for BGP.	The member of SetType must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Timeout of set-overload.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds. Default: 600 seconds.	N/A
NbrSystemId	Specifies the neighbor for OnStartup StartFromNbr type.	N/A	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
NbrTimeout	Timeout of the specified neighbor.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds. Default: 1200 seconds.	N/A
AllowExternal	Whether to allow advertising redistributed prefixes.	N/A	Boolean: • **true**—Allow advertising redistributed prefixes. • **false**—Do not allow advertising redistributed prefixes (default).	N/A
AllowInterLevel	Whether to allow advertising inter-level leaked prefixes.	N/A	Boolean: • **true**—Allow advertising inter-level leaked prefixes. • **false**—Do not allow advertising inter-level leaked prefixes (default).	N/A
Overload	Set the overload bit	Data structure	Members include: • AdjustCost • AdjustCostValue	N/A
AdjustCost	Whether to adjust cost.	N/A	Enumeration: • 0—Do not adjust cost. • 1—Adjust cost to the maximum value. • 2—Adjust cost by add an additional value.	N/A
AdjustCostValue	Adjust cost by add an additional value.	N/A	Unsigned integer. Value range: 1 to 16777213.	This column must and can only be specified when AdjustCost is 2
Isolate	Whether to isolate IS-IS from current network.	N/A	Boolean: • **true**—Isolate IS-IS from current network.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Do not isolate IS-IS from current network (default).	
Shutdown	Whether to shutdown the IS-IS process.	N/A	Boolean: • **true—**Shutdown the IS-IS process. • **false—**Do not shutdown the IS-IS process (default).	N/A
MetricDelaySuppression	Suppress advertisement of link delay information.	Data structure	Members include: • Time. • ThresholdPercent. • ThresholdAbsolute.	Configure suppression timer.
Time	Specify the link delay information timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
ThresholdPercent	Specify the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 100. Default: 10 seconds.	N/A
ThresholdAbsolute	Specify the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 10000. Default: 1000 seconds.	N/A
MetricBandwidthSuppression	Suppress link bandwidth information advertisement.	Data structure	Members include: • Time.	Configure suppression timer
Time	Specify the suppression timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds.	N/A
MetricLossSuppression	Suppress advertisement of link loss information.	Data structure	Members include: • Time. • ThresholdPercent. ThresholdAbsolute.	Configure suppression timer.
Time	Specify the link loss information timer.	N/A	Unsigned integer. Value range: 0 to 600. Default: 120 seconds	N/A
ThresholdPercent	Specify the suppression threshold for link loss variation ratio.	N/A	Unsigned integer. Value range: 0 to 100. Default: 10.	N/A
ThresholdAbsolute	Specify the suppression threshold for	N/A	Unsigned integer. Value range: 0 to 10000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	link loss variation ratio.		Default: 1000.	
BierEnable	Enable BIER function for IS-IS.	N/A	Boolean: • **true**—Enable BIER function for IS-IS. • **false**—Disable BIER function for IS-IS (default).	N/A
AgingSelfLspLife	Lifetime for aged LSPs that are generated by the local device	N/A	Unsigned integer Value range 1 to 65535 Default: 1200 seconds	N/A
AgingNonSelfLspLife	Lifetime for aged LSPs that are received from other devices	N/A	Unsigned integer Value range 1 to 65535 Default: 60 seconds	N/A

ISIS/Familys

This table contains address family identifier information of IS-IS.

XML structure

```
<ISIS>
  <Familys>
    <Family>
      <Name></Name>
      <Type></Type>
      <RouterId></RouterId>
      <BfdEnable></BfdEnable>
      <BfdSessionRestrictAdj></BfdSessionRestrictAdj>
      <BfdAdjustCost></BfdAdjustCost>
      <PrimaryPathDetect></PrimaryPathDetect>
      <SrMpls></SrMpls>
      <SrAdjEnable></SrAdjEnable>
      <SrMemberPortAdjEnable></SrMemberPortAdjEnable>
      <SidMap>
        <AdvertiseLocal></AdvertiseLocal>
        <Receive></Receive>
      </SidMap>
      <SrPrefer>
        <Enable></Enable>
        <PrefixList></PrefixList>
      </SrPrefer>
      <SrMicroloopAvoid>
        <EnableLevel1></EnableLevel1>
```

```
  <EnableLevel2></EnableLevel2>
  <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
  <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
</SrMicroloopAvoid>
<FrrLfa>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <RoutePolicy></RoutePolicy>
  <EcmpType></EcmpType>
</FrrLfa>
<FrrRemoteLfa>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <MaxCostLevel1></MaxCostLevel1>
  <MaxCostLevel2></MaxCostLevel2>
  <PrefixListLevel1></PrefixListLevel1>
  <PrefixListLevel2></PrefixListLevel2>
</FrrRemoteLfa>
<FrrTiLfa>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <PerPrefixLevel1></PerPrefixLevel1>
  <PerPrefixLevel2></PerPrefixLevel2>
  <HostLevel1></HostLevel1>
  <HostLevel2></HostLevel2>
  <RoutePolicyLevel1></RoutePolicyLevel1>
  <RoutePolicyLevel2></RoutePolicyLevel2>
</FrrTiLfa>
<FrrMicroloopAvoid>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
  <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
</FrrMicroloopAvoid>
<FrrTieBreaker>
  <LowestCostPrefLevel1></LowestCostPrefLevel1>
  <LowestCostPrefLevel2></LowestCostPrefLevel2>
  <NodeProtectPrefLevel1></NodeProtectPrefLevel1>
  <NodeProtectPrefLevel2></NodeProtectPrefLevel2>
  <NonEcmpPrefLevel1></NonEcmpPrefLevel1>
  <NonEcmpPrefLevel2></NonEcmpPrefLevel2>
</FrrTieBreaker>
<SetOverload>
  <SetType></SetType>
  <Timeout></Timeout>
  <NbrSystemId></NbrSystemId>
  <NbrTimeout></NbrTimeout>
  <AllowExternal></AllowExternal>
```

```
  <AllowInterLevel></AllowInterLevel>
</SetOverload>
<Overload>
  <AdjustCost></AdjustCost>
  <AdjustCostValue></AdjustCostValue>
</Overload>
<AdvertiseLinkAttributes></AdvertiseLinkAttributes>
<MetricDelayAdvertisement>
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricDelayAdvertisement>
<MetricBandwidthAdvertisement>
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricBandwidthAdvertisement>
<MetricLossAdvertisement>
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricLossAdvertisement>
<FrrMirror>
   <Enable></Enable>
   <DeleteDelayTime></DeleteDelayTime>
</FrrMirror>
<Srv6PolicyAutoroute>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
</Srv6PolicyAutoroute>
<IPv6Topology></IPv6Topology>
<Srv6CompressEnable>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
</Srv6CompressEnable>
<SrMaStrictSidEnable></SrMaStrictSidEnable>
<FrrTiLfaEncapEnable></FrrTiLfaEncapEnable>
<Srv6MaEncapEnable></Srv6MaEncapEnable>
<AdvAppLinkAttributes>
  <AdvertiseTE></AdvertiseTE>
  <AdvertiseSRLG></AdvertiseSRLG>
  <SuppressOldTE></SuppressOldTE>
  <SuppressOldSRLG></SuppressOldSRLG>
  <Delay></Delay>
  <Bandwidth></Bandwidth>
  <LinkLoss></LinkLoss>
  <UnidirectionalBandwidth></UnidirectionalBandwidth>
</AdvAppLinkAttributes>
<InterLevelTilfa>
  <LevelTilfaEnable></LevelTilfaEnable>
  <LevelTilfaPrefer></LevelTilfaPrefer>
```

```
      </InterLevelTilfa>
      <RedistNotCalc></RedistNotCalc>
      <Srv6AdvertisEnable></Srv6AdvertisEnable>
      <MetricDelayNormalize>
        <Interval></Interval>
        <Offset></Offset>
      </MetricDelayNormalize>
    </Family>
  </Familys>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Familys
Table type	Multi-instance table
Row name	Family
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
Type	Address Family Identifier	Index	Enumeration: • **1**—IPv4 unicast. • 2—IPv6 unicast.	N/A
RouterId	Router identifier.	N/A	IPv6 address, hexadecimal string, colon-separated.	This command only supports the IPv6 address family.
BfdEnable	Enable BFD for all ISIS interfaces.	N/A	Enumeration: • **0**—Disable (default). • **1**—Enable.	N/A
BfdSessionRestrictAdj	Enable adjacency establishment and maintenance control based on BFD session state for all ISIS	N/A	Enumeration: • **0**—Disable (default). • **1**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interfaces.			
BfdAdjustCost	Enable all ISIS interfaces to adjust the interface cost according to the BFD session state.	N/A	Enumeration: • **1~16777213**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **none**—Do not adjust cost (default).	N/A
PrimaryPathDetect	Enable all ISIS interfaces to use BFD to detect FRR primary path.	N/A	Enumeration: • **0**—Disable (default). • **1**—BFD ctrl. • **2**—BFD echo.	N/A
SrMpls	Enable SR function based on MPLS.	N/A	Boolean: • **true**—Enable SR function based on MPLS. • **false**—Disable SR function based on MPLS(default).	This command only supports the IPv4 address family.
SrAdjEnable	Enable the neighbor label allocation function.	N/A	Boolean: • **true**—Enable the neighbor label allocation function. • **false**—Disable the neighbor label allocation function(default).	This command only supports the IPv4 address family.
SrMemberPortAdjEnable	Enable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces.	N/A	Boolean: • **true**—Enable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces. • **false**—Disable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces(default).	This command only supports the IPv4 address family.
SidMap	Segment-routing mapping-server messages.	Data structure	Members include: • AdvertiseLocal. • Receive.	N/A
AdvertiseLocal	Whether to advertise local prefix-SID mappings.	N/A	Boolean: • **true**—Advertise local prefix-SID mappings. • **false**—Does not advertise local prefix-SID mappings(default).	This command only supports the IPv4 address family.
Receive	Whether to receive mapping server	N/A	Boolean: • **true**—Receive mapping server	This command only supports the IPv4 address family.

Column name	Column description	Column type	Data type and restrictions	Remarks
	advertisements.		advertisements(default). • **false**—Does not receive mapping server advertisements.	
SrPrefer	The preferred segment-routing messages.	Data structure	Members include: • Enable. • PrefixList.	The member of Enable must be specified.
Enable	Whether to prefer SRLSPs over LDP LSPs	N/A	Boolean: • **true**—Prefer SRLSP over LDP LSP. • **false**—Prefer LDP LSP over SRLSP(default).	This command only supports the IPv4 address family.
PrefixList	Prefix list name.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the Enable is specified false.
SrMicroloopAvoid	Microloop-avoidance information for IS-IS SR.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
EnableLevel1	Enable microloop-avoidance for IS-IS SR level-1.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS SR level-1. • **false**—Disable microloop-avoidance for IS-IS SR level-1(default).	N/A
EnableLevel2	Enable microloop-avoidance for IS-IS SR level-2.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS SR level-2. • **false**—Disable microloop-avoidance for IS-IS SR level-2(default).	N/A
RibUpdateDelayLevel1	The microloop-avoidance RIB-update-delay time for IS-IS SR level-1.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	N/A
RibUpdateDelayLevel2	The microloop-avoidance RIB-update-delay time for IS-IS SR level-2.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	N/A
FrrLfa	LFA information for IS-IS.	Data structure	Members include: • EnableLevel1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• EnableLevel2. • RoutePolicy. • EcmpType.	
EnableLevel1	Enable the LFA calculation for IS-IS level-1.	N/A	Boolean: • **true**—Enable the LFA calculation for IS-IS level-1. • **false**—Disable the LFA calculation for IS-IS level-1(default).	N/A
EnableLevel2	Enable the LFA calculation for IS-IS level-2.	N/A	Boolean: • **true**—Enable the LFA calculation for IS-IS level-2. • **false**—Disable the LFA calculation for IS-IS level-2(default).	N/A
RoutePolicy	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	N/A
EcmpType	Type of ECMP.	N/A	Enumeration: • default—Calculate the next hop by LFA algorithm. • ecmp-shared—Select a shared backup next hop for ECMP routes. • ecmp-frr—Enable ECMP FRR, and select an independent backup next hop for each ECMP route.	N/A
FrrRemoteLfa	Remote-lfa information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • MaxCostLevel1. • MaxCostLevel2. • PrefixListLevel1. • PrefixListLevel2.	N/A
EnableLevel1	Enable remote LFA calculation using tunnels for IS-IS level-1.	N/A	Boolean: • **true**—Enable remote LFA calculation using tunnels for IS-IS level-1. • **false**—Disable remote LFA calculation using tunnels for IS-IS level-1(default).	This command only supports the IPv4 address family.
EnableLevel2	Enable remote LFA calculation using tunnels for IS-IS level-2.	N/A	Boolean: • **true**—Enable remote LFA calculation using tunnels for IS-IS level-2. • **false**—Disable remote LFA calculation using tunnels for IS-IS	This command only supports the IPv4 address family.

Column name	Column description	Column type	Data type and restrictions	Remarks
			level-2(default).	
MaxCostLevel1	The maximum cost for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 16777215. Default: 16777215.	This command only supports the IPv4 address family.
MaxCostLevel2	The maximum cost for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 16777215. Default: 16777215.	This command only supports the IPv4 address family.
PrefixListLevel1	Prefix list name for IS-IS level-1.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family.
PrefixListLevel2	Prefix list name for IS-IS level-2.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family.
FrrTiLfa	TI-LFA information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • PerPrefixLevel1. • PerPrefixLevel2. • HostLevel1. • HostLevel2. • RoutePolicyLevel1. • RoutePolicyLevel2.	N/A
EnableLevel1	Enable the TI-LFA calculation for IS-IS level-1.	N/A	Boolean: • **true**—Enable the TI-LFA calculation for IS-IS level-1. • **false**—Disable the TI-LFA calculation for IS-IS level-1 (default).	This command only supports the IPv4 address family.
EnableLevel2	Enable the TI-LFA calculation for IS-IS level-2.	N/A	Boolean: • **true**—Enable the TI-LFA calculation for IS-IS level-2. • **false**—Disable the TI-LFA calculation for IS-IS level-2(default).	This command only supports the IPv4 address family.
PerPrefixLevel1	Per-prefix calculation for IS-IS level-1.	N/A	Boolean: • **true**—Calculate per-prefix for IS-IS level-1. • **false**—Does not calculate per-prefix for IS-IS level-1(default).	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
PerPrefixLevel2	Per-prefix calculation for IS-IS level-2.	N/A	Boolean: • **true**—Calculate per-prefix for IS-IS level-2. • **false**—Does not calculate per-prefix for IS-IS level-2(default).	This command only supports the IPv4 address family. This command is invalid when the EnableLevel2 is specified false.

Column name	Column description	Column type	Data type and restrictions	Remarks
HostLevel1	Enable TI-LFA FRR for host for IS-IS level-1.	N/A	Boolean: • **true**—Enable TI-LFA FRR for host IS-IS level-1. • **false**—Disable TI-LFA FRR for host IS-IS level-1(default).	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
HostLevel2	Enable TI-LFA FRR for host for IS-IS level-2.	N/A	Boolean: • **true**—Enable TI-LFA FRR for host IS-IS level-2. • **false**—Disable TI-LFA FRR for host IS-IS level-2(default).	This command only supports the IPv4 address family. This command is invalid when the EnableLevel2 is specified false.
RoutePolicyLevel1	Name of the routing policy for IS-IS level-1.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
RoutePolicyLevel2	Name of the routing policy for IS-IS level-2.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel2 is specified false.
FrrMicroloopAvoid	Microloop-avoidance FRR information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
EnableLevel1	Enable microloop-avoidance for IS-IS level-1.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS level-1. • **false**—Disable microloop-avoidance for IS-IS level-1(default).	This command only supports the IPv4 address family.
EnableLevel2	Enable microloop-avoidance for IS-IS level-2.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS level-2. • **false**—Disable microloop-avoidance for IS-IS level-2(default).	This command only supports the IPv4 address family.
RibUpdateDelayLevel1	The microloop-avoidance RIB-update-delay time for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	This command only supports the IPv4 address family.
RibUpdateDel	The	N/A	Unsigned integer.	This command only

Column name	Column description	Column type	Data type and restrictions	Remarks
ayLevel2	microloop-avoidance RIB-update-delay time for IS-IS level-2.		Value range 1 to 60000. Default: 5000.	supports the IPv4 address family.
FrrTieBreaker	The tiebreaker for an FRR protection mode.	Data structure	Members include: • LowestCostPrefLevel1. • LowestCostPrefLevel2. • NodeProtectPrefLevel1. • NodeProtectPrefLevel2. • NonEcmpPrefLevel1. • NonEcmpPrefLevel2.	N/A
LowestCostPrefLevel1	The preference of link protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255. Default: 20.	N/A
LowestCostPrefLevel2	The preference of link protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255. Default: 20.	N/A
NodeProtectPrefLevel1	The preference of node protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255. Default: 40.	N/A
NodeProtectPrefLevel2	The preference of node protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255. Default: 40.	N/A
NonEcmpPrefLevel1	The preference of non-ECMP protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255. Default: 15.	N/A
NonEcmpPrefLevel2	The preference of non-ECMP protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255. Default: 15.	N/A
SetOverload	Set the overload bit	Data structure	Members include: • SetType. • Timeout. • NbrSystemId. • NbrTimeout. • AllowExternal • AllowInterLevel.	The member of SetType must be specified.
SetType	Type of set-overload	N/A	Enumeration: • 0—Do not set overload. • 1—Force overload. • 2—Set overload on startup. • 3—Set overload on startup and start from specified neighbor. • 4—Set overload on	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			startup and wait for BGP.	
Timeout	Timeout of set-overload.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds. Default: 600 seconds.	N/A
NbrSystemId	Specifies the neighbor for OnStartup StartFromNbr type.	N/A	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
NbrTimeout	Timeout of the specified neighbor.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds. Default: 1200 seconds.	N/A
AllowExternal	Whether to allow advertising redistributed prefixes.	N/A	Boolean: • **true**—Allow advertising redistributed prefixes. • **false**—Do not allow advertising redistributed prefixes (default).	N/A
AllowInterLevel	Whether to allow advertising inter-level leaked prefixes.	N/A	Boolean: • **true**—Allow advertising inter-level leaked prefixes. • **false**—Do not allow advertising inter-level leaked prefixes (default).	N/A
Overload	Set the overload bit	Data structure	Members include:. • AdjustCost • AdjustCostValue	N/A
AdjustCost	Whether to adjust cost.	N/A	Enumeration: • 0—Do not adjust cost. • 1—Adjust cost to the maximum value. • 2—Adjust cost by add an additional value.	N/A
AdjustCostValue	Adjust cost by add an additional value.	N/A	Unsigned integer. Value range: 1 to 16777213.	This column must and can only be specified when AdjustCost is 2
AdvertiseLinkAttributes	Enable IS-IS to advertise link attributes in LSPs	N/A	Boolean: • true—Configuring IS-IS to carry link attributes when publishing LSP. • false—By default IS-IS publishes an LSP with link attributes . (default)	the link cost style is wide,compatible or wide-compatible
MetricDelayAdvertisement	Enable a device to advertise link delay information.	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableLevel1	Enable a device to advertise link delay information for IS-IS level-1.	N/A	Boolean: • **true**—Enable delay release for IS-IS level-1. • **false**—Turn off the delay release function for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link delay information for IS-IS level-2.	N/A	Boolean: • **true**—Enable delay release for IS-IS level-2. • **false**—Turn off delay release for IS-IS level-2.	N/A
MetricBandwidthAdvertisement	Enable a device to advertise link bandwidth information.	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable a device to advertise link bandwidth information for IS-IS level-1.	N/A	Boolean: • **true**—Enable bandwidth publishing for IS-IS level-1. • **false**—Turn off bandwidth publishing for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link bandwidth information for IS-IS level-2.	N/A	Boolean: • **true**—Enable bandwidth publishing for IS-IS level-2. • **false**—Turn off bandwidth publishing for IS-IS level-2.	N/A
MetricLossAdvertisement	Enable a device to advertise link loss information.	Data structure	Members include: • EnableLevel1. EnableLevel2.	N/A
EnableLevel1	Enable a device to advertise link loss information for IS-IS level-1.	N/A	Enumeration: • **0--**Disable loss publishing for IS-IS level-1. **1--**Enable loss publishing for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link loss information for IS-IS level-2.	N/A	Enumeration: • **0--**Disable loss publishing for IS-IS level-2. **1--**Enable loss publishing for IS-IS level-2.	N/A
FrrMirror	FrrMirror name	Data structure	Members include: • Enable. • DeleteDelayTime.	N/A
Enable	Enable FRR mirror.	N/A	Boolean • **true**—Enable mirror.(default) • **false**—Turn off mirror.	N/A
DeleteDelayT	Time of delete	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ime	delay.		Value range: 1 to 21845. Default : 60.	
Srv6PolicyAutoroute	SRv6 policy autoroute	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-1	N/A	Boolean: • **true**—Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-1. • **false**—Disable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-1 (default).	N/A
EnableLevel2	Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2	N/A	Boolean: • **true**—Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2. • **false**—Disable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2 (default).	N/A
IPv6Topology	Mode of IPv6 IS-IS topology.	N/A	Enumeration: • **0**—IPv6 IS-IS uses IPv4 IS-IS topology (default). • **1**—Enable separated IPv4 and IPv6 topologies. • **2**—Specify compatible mode to advertise IPv6 prefixes to both IPv4 and IPv6 topologies.	This command only supports the IPv6 address family.
Srv6CompressEnable	Whether to enable SRv6 compression	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable SRv6 compression for IS-IS Level-1	N/A	Boolean: • **true**—Enable SRv6 compression for IS-IS Level-1. • **false**—Disable SRv6 compression for IS-IS Level-1 (default).	This command is supported in only the IPv6 address family.
EnableLevel2	Enable SRv6 compression for IS-IS Level-2	N/A	Boolean: • **true**—Enable SRv6 compression for IS-IS Level-2. • **false**—Disable SRv6 compression for IS-IS Level-2 (default).	This command is supported in only the IPv6 address family.
SrMaStrictSid	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	enable segment routing microloop avoidance strict SIDs only.		• **true**—Enable segment routing microloop avoidance strict SIDs only. • **false**—Disable segment routing microloop avoidance strict SIDs only (default).	
FrrTiLfaEncapEnable	Whether to enable fast reroute TI-LFA encapsulation.	N/A	Boolean: • **true**—Enable fast reroute TI-LFA encapsulation. • **false**—Disable fast reroute TI-LFA encapsulation (default).	This command is supported in only the IPv6 address family.
Srv6MaEncapEnable	Whether to enable SRv6 microloop avoidance encapsulation.	N/A	Boolean: • **true**—Enable SRv6 microloop avoidance encapsulation. • **false**—Disable SRv6 microloop avoidance encapsulation (default).	This command is supported in only the IPv6 address family.
AdvAppLinkAttributes	Advertise application link attributes.	Data structure	Members include: • AdvertiseTE. • AdvertiseSRLG. • SuppressOldTE. • SuppressOldSRLG. • Delay • Bandwidth • LinkLoss • UnidirectionalBandwidth	N/A
AdvertiseTE	Advertise TE information in application link attributes.	N/A	Boolean: • **true**—Advertise TE information in application link attributes. • **false**—Do not advertise TE information in application link attributes (default).	N/A
AdvertiseSRLG	Advertise SRLG information in application link attributes.	N/A	Boolean: • **true**—Advertise SRLG information in application link attributes. • **false**—Do not advertise SRLG information in application link attributes (default).	N/A
SuppressOldTE	Suppress old TE information advertisement.	N/A	Boolean: • **true**—Suppress old TE information advertisement. • **false**—Do not Suppress old TE information advertisement (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SuppressOld SRLG	Suppress old SRLG information advertisement.	N/A	Boolean: • **true**—Suppress old SRLG information advertisement. • **false**—Do not Suppress old SRLG information advertisement (default).	N/A
Delay	Advertise delay information in application link attributes.	N/A	Enumeration: • **0**—Disable (default).. • **1**—Enable • **2**—Enable and asla-only	Type33：Unidirectional Link Delay. Type 34: Min/Max Unidirectional Link delay. Type 35: Unidirectional delay Variation.
Bandwidth	Advertise bandwidth information in application link attributes.	N/A	Enumeration: • **0**—Disable (default).. • **1**—Enable • **2**—Enable and asla-only	Type 9: Maximum Link Bandwidth Type 10: Maximum Reservable Link Bandwidth Type 11: Unreserved Bandwidth
LinkLoss	Advertise linkloss information in application link attributes.	N/A	Enumeration: • **0**—Disable (default).. • **1**—Enable • **2**—Enable and asla-only	Type 36: Unidirectional Link Loss.
Unidirectional Bandwidth	Advertise unidirectional-bandwidth information in application link attributes.	N/A	Enumeration: • **0**—Disable (default).. • **1**—Enable • **2**—Enable and asla-only	Type 37: Unidirectional Residual Bandwidth. Type 38: Unidirectional Available Bandwidth. Type 39: Unidirectional Utilized Bandwidth
InterLevelTilfa	Inter level tilfa protection.	Data structure	Members include: • LevelTilfaEnable. • LevelTilfaPrefer.	N/A
LevelTilfaEnable	Enable inter-level-tilfa level-1 protection.	N/A	Boolean: • **true**—Enable inter-level-tilfa level-1 protection. • **false**—Disable inter-level-tilfa level-1 protection (default).	N/A
LevelTilfaPrefer	Specify the inter-level-tilfa protection level-2 backup paths	N/A	Boolean: • **true**—Enable inter-level-tilfa protection level-2 backup paths	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	priority higher.		priority higher. • **false**—Disable inter-level-tilfa protection level-2 backup paths priority higher (default).	
RedistNotCalc	Whether to exclude redistributed routes from route calculation	N/A	Boolean: • **true**—Redistributed routes are excluded from route calculation. • **false**—Redistributed routes can participate in route calculation.	N/A
Srv6AdvertisEnable	Srv6 advertise configuration	N/A	Enumeration: • **0—**Disable Advertise(default)**.** • **1**—Enable l3-service-sid Advertise.	This command is supported in only the IPv6 address family.
MetricDelayNormalize	Link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
Interval	Interval value for link delay normalization	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Offset	Offset value for link delay normalization	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A

ISIS/Interfaces

This table contains IS-IS interface information.

XML structure

```
<ISIS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableNameV4></EnableNameV4>
      <EnableNameV6></EnableNameV6>
      <CostV4>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV4>
      <CostV6>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV6>
      <LevelType></LevelType>
```

```
<NetworkType></NetworkType>
<BfdEnableV4></BfdEnableV4>
<BfdEnableV6></BfdEnableV6>
<BfdExcludeV4></BfdExcludeV4>
<BfdExcludeV6></BfdExcludeV6>
<BfdSessionRestrictAdjV4></BfdSessionRestrictAdjV4>
<BfdSessionRestrictAdjV6></BfdSessionRestrictAdjV6>
<BfdAdjustCostV4></BfdAdjustCostV4>
<BfdAdjustCostV6></BfdAdjustCostV6>
<BfdAdjustCostSuppressV4>
  <ResumeInterval></ResumeInterval>
  <DetectInterval></DetectInterval>
  <Threshold></Threshold>
</BfdAdjustCostSuppressV4>
<BfdAdjustCostSuppressV6>
  <ResumeInterval></ResumeInterval>
  <DetectInterval></DetectInterval>
  <Threshold></Threshold>
</BfdAdjustCostSuppressV6>
<Frr>
  <PrimaryPathDetectV4></PrimaryPathDetectV4>
  <PrimaryPathDetectV6></PrimaryPathDetectV6>
  <LfaDisableLevelV4></LfaDisableLevelV4>
  <LfaDisableLevelV6></LfaDisableLevelV6>
  <TiLfaDisableLevelV4></TiLfaDisableLevelV4>
  <TiLfaDisableLevelV6></TiLfaDisableLevelV6>
  <RemoteLfaDisableLevelV4></RemoteLfaDisableLevelV4>
</Frr>
<PrefixSidV4>
  <SidType></SidType>
  <Sid></Sid>
  <ExplicitNull></ExplicitNull>
  <PHP></PHP>
  <NFlagClear></NFlagClear>
</PrefixSidV4>
<Silent></Silent>
<LinkDelay>
   <Average></Average>
   <Minimal></Minimal>
   <Maximal></Maximal>
   <Variation></Variation>
</LinkDelay>
<LinkLoss></LinkLoss>
<TeMetricFlexAlgo></TeMetricFlexAlgo>
<MetricDelayNormalizeV4>
  <Interval></Interval>
  <Offset></Offset>
</MetricDelayNormalizeV4>
```

```
      <MetricDelayNormalizeV6>
        <Interval></Interval>
        <Offset></Offset>
      </MetricDelayNormalizeV6>
      <PeerHoldMaxCostDuration></PeerHoldMaxCostDuration>
    </Interface>
  </Interfaces>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
EnableNameV4	Instance name	N/A	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
EnableNameV6	Instance name	N/A	String. Length: 1 to 31 characters..	It must be an unsigned integer in the range of 1 to 65535.
CostV4	IPv4 interface cost.	Data structure	Members include:. • Level1Value. • Level2Value	N/A
CostV6	IPv6 interface cost	Data structure	Members include:. • Level1Value. • Level2Value	N/A
Level1Value	Level-1 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Level2Value	Level-2 cost value.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 16777215	
LevelType	Level type	N/A	Enumeration: • **1**—Level 1. • **2**—Level 2. • **3**—Level-1-2(default)	N/A
NetworkType	The type of network that ISIS use for the specified interface.	N/A	Enumeration: • **1**—Do not change the original network type of interface (default). • 2—Set the network type of broadcast interface to P2P. • 3—Set the network type of broadcast interface to P2P and set the type of MAC address.	N/A
BfdEnableV4	Enable BFD for ISIS.	N/A	Boolean: • **true**—Enable BFD for ISIS. • **false**—Disable BFD for ISIS(default)	Configuring this column might overwrite the configuration for the BfdExcludeV4 column.
BfdEnableV6	Enable BFD for IPv6 ISIS.	N/A	Boolean: • **true**—Enable BFD for IPv6 ISIS. • **false**—Disable BFD for IPv6 ISIS(default)	Configuring this column might overwrite the configuration for the BfdExcludeV6 column.
BfdExcludeV4	Exclude the IPv4 IS-IS interface from using the global BFD configuration.	N/A	Enumeration: • **0**—Do not exclude the IPv4 IS-IS interface from using the global BFD configuration (default). • **1**—Exclude the IPv4 IS-IS interface from using the global BFD configuration.	Configuring this column might overwrite the configuration for the BfdEnableV4 column.
BfdExcludeV6	Exclude the IPv6 IS-IS interface from using the global BFD configuration.	N/A	Enumeration: • **0**—Do not exclude the IPv6 IS-IS interface from using the global BFD configuration (default). • **1**—Exclude the IPv6 IS-IS interface from using the global BFD configuration.	Configuring this column might overwrite the configuration for the BfdEnableV6 column.
BfdSessionRestrictAdjV4	Enable IPv4 IS-IS adjacency establishment and maintenance control based on BFD session state.	N/A	Enumeration: • **0**—Disable (default). • **1**—Enable. • **2**—Exclude from using global BFD configuration.	N/A
BfdSessionRestrictAdjV6	Enable IPv6 IS-IS adjacency	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	establishment and maintenance control based on BFD session state.		• **0**—Disable (default). • **1**—Enable. • **2**—Exclude from using global BFD configuration.	
BfdAdjustCostV4	Adjust the IPv4 IS-IS interface cost according to the BFD session state.	N/A	Enumeration: • **0~16777213**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **exclude**—Exclude from using global BFD configuration. • **none**—Do not adjust cost (default).	N/A
BfdAdjustCostV6	Adjust the IPv6 IS-IS interface cost according to the BFD session state.	N/A	Enumeration: • **0~16777213**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **exclude**—Exclude from using global BFD configuration. • **none**—Do not adjust cost (default).	N/A
BfdAdjustCostSuppressV4	Suppress IPv4 IS-IS interface cost adjustment upon BFD session state changes.	Data structure	Members include: • ResumeInterval. • DetectInterval. • Threshold	N/A
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds. Default: 0 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
Threshold	Specify the number of BFD session down events that triggers an interface cost	N/A	Unsigned integer. Value range: 1 to 100. Default: 1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	adjustment.			
BfdAdjustCostSuppressV6	Suppress IPv6 IS-IS interface cost adjustment upon BFD session state changes.	Data structure	Members include: • ResumeInterval. • DetectInterval. • Threshold	N/A
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds. Default: 0 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
Threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100. Default: 1.	N/A
Frr	Fast reroute messages.	Data structure	Members include: • PrimaryPathDetectV4. • PrimaryPathDetectV6. • LfaDisableLevelV4. • LfaDisableLevelV6. • TiLfaDisableLevelV4. • TiLfaDisableLevelV6. • RemoteLfaDisableLevelV4.	N/A
PrimaryPathDetectV4	BFD work mode for ISIS.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode. • **3**—Exclude from using global BFD configuration.	N/A
PrimaryPathDetectV6	BFD work mode for IPv6 ISIS.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode. • **3**—Exclude from using global BFD configuration.	N/A
LfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
LfaDisableLevelV6	IPv6 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Level-1-2	
TiLfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
TiLfaDisableLevelV6	IPv6 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
RemoteLfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
Silent	Whether to enable packets receiving and sending on the interface	N/A	Boolean: • **true**—Do not Allow packets receiving and sending on the interface. • **false**—Allow packets receiving and sending on the interface(default).	N/A
LinkDelay	Configure link delay parameters on an IS-IS interface.	Data structure	Members include: • Average. • Minimal. • Maximal. • Variation.	A property column must exist.
Average	Specify the average link	N/A	Unsigned integer. Value range:1 to 16777215.	N/A
Minimal	Specify the minimum link.	N/A	Unsigned integer. Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously
Maximal	Specify the maximum link.	N/A	Unsigned integer. Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously.
Variation	Set the acceptable delay variation.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkLoss	Set the loss value.	N/A	Unsigned integer. Value range:0 to 16777214.	N/A
TeMetricFlexAlgo	Configure te metric parameters of algorithm	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
MetricDelayNormalizeV4	IS-IS link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
MetricDelayNormalizeV6	IPv6 IS-IS link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
Interval	Interval value for link delay normalization	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Offset	Offset value for link delay normalization	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
PeerHoldMaxCostDuration	Advertise the maximum link cost to neighbors within the specified period of time	N/A	Unsigned integer. Value range: 100 to1000000 (milliseconds)	N/A

ISIS/AdjSids

This table contains IS-IS adjacency-sid information.

XML structure

```
<ISIS>
  <AdjSids>
    <AdjSid>
      <IfIndex></IfIndex>
      <Nexthop></Nexthop>
      <SidType></SidType>
      <Sid></Sid>
    </AdjSid>
  </AdjSids>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	AdjSids
Table type	Multi-instance table
Row name	AdjSid
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Nexthop	Nexthop IPv4 address.	Index	String,dotted decimal notation.	This command only supports the broadcast interface. 0.0.0.0 is an invalid value which is used on the P2P interface.
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	This command must be specified.
Sid	Prefix Segment ID	N/A	Unsigned integer.	This command must be specified.

ISIS/SRv6Locators

This table contains IS-IS SRv6 Locators information.

XML structure

```
<ISIS>
  <SRv6Locators>
    <SRv6Locator>
      <Name></Name>
      <LocatorName></LocatorName>
```

```
      <Level></Level>
      <AutoSidDisable></AutoSidDisable>
      <AutoSidCoc32></AutoSidCoc32>
      <AutoSidCocboth></AutoSidCocboth>
    </SRv6Locator>
  </SRv6Locators>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	SRv6Locators
Table type	Multi-instance table
Row name	SRv6Locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 1 to 31 characters.	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
LocatorName	SRv6 locator name.	Index	String. Length: 1 to 31 characters.	N/A
Level	Level type.	N/A	Enumeration: • **1**—Level-1. • **2**—Level-2. • **3**—Level-1-2 (default).	N/A
AutoSidDisable	Auto Sid Disable.	N/A	Boolean: • **true**—Auto sid disable. **false—**Auto sid enable (default).	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time
AutoSidCoc32	Auto Sid Coc32 Mode.	N/A	Enumeration: • **0**—coc32. • **1**—coc32 additive.	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time
AutoSidCocboth	Auto Sid Cocboth Mode.	N/A	Enumeration: • 1—coc32. • **2**—coc32-none. • **3**—coc32-all.	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—all.	

ISIS/Redistributes

This table contains IS-IS redistributed route information.

XML structure

```
<ISIS>
  <Redistributes>
    <Redist>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <RedistLevelType></RedistLevelType>
      <InheritCost></InheritCost>
      <CostType></CostType>
      <Cost></Cost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <AllowDirect></AllowDirect>
      <Tag></Tag>
      <NoSID></NoSID>
    </Redist>
  </Redistributes>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • **1**—IPv4 unicast. • **2**—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6**—BGP. • **7**—EIGRP. • **8**—Guard. • **9**—UNR.	N/A
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static, Guard, or UNR. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is ISIS, OSPF, EIGRP,or RIP. It must be “all” or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.
RedistLevelType	Redistribute level type.	N/A	Enumeration: • **1**—Level 1. • **2**—Level 2 (default). • **3**—Level-1-2.	N/A
InheritCost	Whether to use the original cost	N/A	Boolean: • **true**—Use the original	This column cannot be specified when

Column name	Column description	Column type	Data type and restrictions	Remarks
	of redistributed routes.		cost of redistributed routes. • **false**—Do not use the original cost of redistributed routes.	the CostType column or Cost column exists.
CostType	Redistribute metric type.	N/A	Enumeration: • **1**—internal. • **2**—external (default).	This column cannot be specified when the InheritCost column exists.
Cost	Redistribute metric.	N/A	Unsigned integer. Value range: 0 to 4261412864.	This column cannot be specified when the InheritCost column exists. For the styles of narrow, narrow-compatible, and compatible, the cost is in the range of 0 to 63.
RoutePolicyName	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
AllowIBGP	Allow IBGP routes when importing BGP routes.	N/A	Boolean: • **true**—Import IBGP routes when importing BGP routes. • **false**—Do not import IBGP routes when importing BGP routes (default).	This column can be specified only when the protocol is BGP.
AllowDirect	Whether to contain connected routes.	N/A	Boolean: • **true**—Contain connected routes. • **false**—Do not contain IBGP routes when importing BGP routes (default).	This column can be specified only when the protocol is OSPF,ISIS,RIP, EIGRP.
Tag	Tag value.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • **true**—Exclude SID when importing routes. • **false**—Do not exclude SID when importing routes (default).	This column can be specified only when the protocol is OSPF,ISIS. This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/LeakRouteLevel1ToLevel2s

This table contains IS-IS LeakRouteLevel1ToLevel2s information.

XML structure

```
<ISIS>
  <LeakRouteLevel1ToLevel2s>
    <LeakRouteLevel1ToLevel2>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <LeakEnableFlag></LeakEnableFlag>
      <PolicyType></PolicyType>
      <AclNumber></AclNumber>
      <PrefixList></PrefixList>
      <RoutePolicyName></RoutePolicyName>
      <Tag></Tag>
      <NoSID></NoSID>
    </LeakRouteLevel1ToLevel2>
  </LeakRouteLevel1ToLevel2s>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	LeakRouteLevel1ToLevel2s
Table type	Multi-instance table
Row name	LeakRouteLevel1ToLevel2
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.

Column name	Column description	Column type	Data type and restrictions	Remarks
LeakEnableFlag	Enable level-1 to level-2 route filtering.	N/A	Boolean: • true—Enable level-1 to level-2 route filtering (default). • false—Disable level-1 to level-2 route filtering.	N/A
PolicyType	Route filtering policy type.	N/A	Enumeration: • 1—ACL. • 2—Prefix list. • 3—Route policy.	N/A
AclNumber	The number of ACL.	N/A	Unsigned integer. Value range: 2000 to 3999.	This column can be specified only when the PolicyType value is 1.
PrefixList	Name of prefix list.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 2.
RoutePolicyName	Name of routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 3.
Tag	Tag value.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • true—Exclude SID when importing routes. • false—Do not exclude SID when importing routes (default).	This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/LeakRouteLevel2ToLevel1s

This table contains IS-IS LeakRouteLevel2ToLevel1s information.

XML structure

```
<ISIS>
  <LeakRouteLevel2ToLevel1s>
    <LeakRouteLevel2ToLevel1>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <PolicyType></PolicyType>
      <AclNumber></AclNumber>
      <PrefixList></PrefixList>
      <RoutePolicyName></RoutePolicyName>
      <Tag></Tag>
```

```
      <NoSID></NoSID>
    </LeakRouteLevel2ToLevel1>
  </LeakRouteLevel2ToLevel1s>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	LeakRouteLevel2ToLevel1s
Table type	Multi-instance table
Row name	LeakRouteLevel2ToLevel1
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before merge or create type. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
PolicyType	Route filtering policy type.	N/A	Enumeration: • 1—ACL. • 2—Prefix list. • 3—Route policy.	N/A
AclNumber	The number of ACL.	N/A	Unsigned integer. Value range: 2000 to 3999.	This column can be specified only when the PolicyType value is 1.
PrefixList	Name of prefix list.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 2.
RoutePolicyName	Name of routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType

Column name	Column description	Column type	Data type and restrictions	Remarks
				value is 3.
Tag	Tag value.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • true—Exclude SID when importing routes. • false—Do not exclude SID when importing routes (default).	This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/Algorithms

This table contains IS-IS algorithm information.

XML structure

```
<ISIS>
  <Algorithms>
    <Algorithm>
      <Name></Name>
      <AlgoId></AlgoId>
      <Advertise></Advertise>
      <Priority></Priority>
      <FrrEnable></FrrEnable>
      <ExcludeAny></ExcludeAny>
      <IncludeAll></IncludeAll>
      <IncludeAny></IncludeAny>
      <MetricType></MetricType>
      <FrrTiLfaEnable></FrrTiLfaEnable>
      <FrrMaEnable></FrrMaEnable>
      <FrrMaDelay>
        <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
        <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
      </FrrMaDelay>
      <FrrTiebreaker>
        <LowestCostPrefLevel1></LowestCostPrefLevel1>
        <LowestCostPrefLevel2></LowestCostPrefLevel2>
        <NodeProtectPrefLevel1></NodeProtectPrefLevel1>
        <NodeProtectPrefLevel2></NodeProtectPrefLevel2>
      </FrrTiebreaker>
      <TrustLevelEnable></TrustLevelEnable>
      <SrlgExclude></SrlgExclude>
      <SrMicroloopAvoidEnable></SrMicroloopAvoidEnable>
      <SrMaStrictSidEnable></SrMaStrictSidEnable>
      <SrMicroloopAvoidDelay>
        <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
```

```
        <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
      </SrMicroloopAvoidDelay>
    </Algorithm>
  </Algorithms>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Algorithms
Table type	Multi-instance table
Row name	Algorithm
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
AlgoId	Algorithm value.	Index	Unsigned integer. Value range: 128 to 255.	N/A
Advertise	Whether to advertise local algorithm.	N/A	Boolean: • **true**—Advertise local algorithm. • **false**—Does not advertise local algorithm(default).	N/A
Priority	Priority value.	N/A	Unsigned integer. • Value range: 0 to 255. • Default: 128.	N/A
FrrEnable	Whether to enable fast-reroute.	N/A	Boolean: • **true**—Enable fast-reroute(default). • **false**—Does not enable fast-reroute.	N/A
ExcludeAny	Exclude-all affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of ExcludeAny AffinityNames.	The members of AttributeName must be specified on the instance.

Column name	Column description	Column type	Data type and restrictions	Remarks
IncludeAll	Include-all affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of IncludeAll AffinityNames.	The members of AttributeName must be specified on the instance.
IncludeAny	Include-any affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of IncludeAny AffinityNames.	The members of AttributeName must be specified on the instance.
MetricType	Type of metric to be used during the algorithm calculation.	N/A	Enumeration: • **0**—IGP metric (default). • **1**—Minimum unidirectional link delay. • **2**—TE default metric.	N/A
FrrTiLfaEnable	Whether to enable TI-LFA.	N/A	Boolean: • **true**—Enable TI-LFA (default). • **false**—Disable TI-LFA.	N/A
FrrMaEnable	Whether to enable microloop avoidance.	N/A	Boolean: • **true**—Enable microloop avoidance (default). • **false**—Disable microloop avoidance.	N/A
FrrMaDelay	Microloop avoidance configuration for algorithm.	Data structure	Members include: • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
RibUpdateDelayLevel1	Microloop avoidance RIB-update-delay time in Level-1.	N/A	Unsigned integer. Value range: 1 to 60000. Default: 5000.	N/A
RibUpdateDelayLevel2	Microloop avoidance RIB-update-delay time in Level-2.	N/A	Unsigned integer. Value range: 1 to 60000. Default: 5000.	N/A
FrrTiebreaker	Tiebreaker for an FRR protection mode.	Data structure	Members include: • LowestCostPrefLevel1. • LowestCostPrefLevel2. • NodeProtectPrefLevel1. • NodeProtectPrefLevel2.	N/A
LowestCostPrefLevel1	Preference of link protection in Level-1.	N/A	Unsigned integer. Value range 1 to 255. Default: 20.	N/A
LowestCostPrefLevel2	The preference of link protection for algorithm in level-2.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	N/A
NodeProtectPrefLevel1	Preference of node protection in Level-1.	N/A	Unsigned integer. Value range: 1 to 255. Default: 40.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NodeProtectPrefLevel2	Preference of node protection in Level-2.	N/A	Unsigned integer. Value range: 1 to 255. Default: 40.	N/A
TrustLevelEnable	Whether to enable trust-level mapping.	N/A	Boolean: • **true**—Enable trust-level mapping. • **false**—Disable trust-level mapping(default).	N/A
SrlgExclude	Exclude srlg rules on the algorithm calculation.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SrMicroloopAvoidEnable	Enable SR microloop-avoidance for algorithm	N/A	Enumeration: • **0**—Disable SR microloop avoidance. • **1**—Enable SR microloop avoidance (default).	N/A
SrMaStrictSidEnable	Whether to enable segment routing microloop avoidance strict SIDs only.	N/A	Boolean: • **0**—Disable segment routing microloop avoidance strict SIDs only(defalut) • **1**—Enable segment routing microloop avoidance strict SIDs only.	N/A
SrMicroloopAvoidDelay	SR Microloop avoidance configuration for algorithm.	Data structure	Members include: • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
RibUpdateDelayLevel1	The SR microloop-avoidance RIB-update-delay time for IS-IS SR level-1.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	N/A
RibUpdateDelayLevel2	The SR microloop-avoidance RIB-update-delay time for IS-IS SR level-2.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	N/A

ISIS/AffinityMaps

This table contains IS-IS AffinityMaps information.

XML structure

```
<ISIS>
  <AffinityMaps>
```

```
    <AffinityMap>
      <Name></Name>
      <AttributeName></AttributeName>
      <BitPosition></BitPosition>
    </AffinityMap>
  </AffinityMaps>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	AffinityMaps
Table type	Multi-instance table
Row name	AffinityMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 1 to 31 characters.	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
AttributeNam e	Name of attribute.	Index	String. Length: 1 to 32 characters.	The members of AttributeName and BitPosition must be specified.
BitPosition	Bitposion of attribute	N/A	Unsigned integer. Value range: 0 to 255.	The members of AttributeName and BitPosition must be specified.

ISIS/IfAffinitys

This table contains IS-IS IfAffinitys information.

XML structure

```
<ISIS>
  <IfAffinitys>
    <IfAffinity>
      <IfIndex></IfIndex>
      <Name></Name>
```

```
      <AffinityName></AffinityName>
    </IfAffinity>
  </IfAffinitys>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	IfAffinitys
Table type	Multi-instance table
Row name	IfAffinity
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Name	Instance name	Index	String. Length: 1 to 31 characters	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
AffinityName	Set affinity attribute on the interface	N/A	String. It is a comma-separated list of AffinityNames.	You must create one or more affinity in isis instance before set affinity on the interface.And it can set max to 32. Example: 1,3,120,255.

ISIS/PrefixSidV4

This table contains IS-IS PrefixSid information.

XML structure

```
<ISIS>
  <PrefixSidV4>
    <PrefixSid>
      <IfIndex></IfIndex>
      <FlexAlgo></FlexAlgo>
      <SidType></SidType>
      <Sid></Sid>
      <ExplicitNull></ExplicitNull>
      <PHP></PHP>
      <NFlagClear></NFlagClear>
    </PrefixSid>
  </PrefixSidV4>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	PrefixSidV4
Table type	Multi-instance table
Row name	PrefixSid
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
FlexAlgo	Algorithm value	Index	Unsigned integer.. Value range:0, 128 to 255.	N/A
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ExplicitNull	Explicit null label	N/A	Boolean: • **true**—The upstream neighbor replaces the prefix SID with an explicit null label. • **false—**The upstream neighbor does not replace the prefix SID with an explicit null label(default).	N/A
PHP	Penultimate hop popping flag	N/A	Boolean: • **true**—Pops the penulimate hop(default). • **false**—Does not pop the penulimate hop.	N/A
NFlagClear	Clear the N-flag	N/A	Boolean: • **true**—Clears the N-flag for the prefix SID. • **false**—Does not clear the N-flag for the prefix SID(default).	N/A

ISIS/RedistBiers

This table contains IS-IS redistributed BIER information.

XML structure

```
<ISIS>
  <RedistBiers>
    <RedistBier>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </RedistBier>
  </RedistBiers>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	RedistBiers
Table type	Multi-instance table
Row name	RedistBier

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • **1**—IPv4 unicast. • **2**—IPv6 unicast.	Only IPv6 unicast is supported now.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • **1**—BGP.	Only BGP is supported now.
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be “all” or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.

ISIS/Summaries

This table contains IS-IS Summaries information.

XML structure

```
<ISIS>
  <Summaries>
    <Summary>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <Prefix></Prefix>
      <PrefixLen></PrefixLen>
      <AvoidFeedback></AvoidFeedback>
```

```
      <GenerateNull0></GenerateNull0>
      <Level></Level>
      <Tag></Tag>
      <AlgoId></AlgoId>
      <Explicit></Explicit>
    </Summary>
  </Summaries>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Summaries
Table type	Multi-instance table
Row name	Summary
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Prefix	Summary address.	Index	String,IPv4 address or IPv6 address.	N/A
PrefixLen	Summary address prefix length.	Index	Unsigned integer. Value range: 0 to 32(IPv4),0 to 128(IPv6).	The maximum length of IPv4 is 32. The maximum length of IPv6 is 32.
AvoidFeedback	Avoid learning this summary route through SPF.	N/A	Boolean: • **true**—Avoid learning this summary route through SPF. • **false**—Do not Avoid	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			learning this summary route through SPF(default).	
GenerateNull0	Generate the discard route for preventing route loops.	N/A	Boolean: • **true**—Generate the discard route for preventing route loops. • **false**—Do not Generate the discard route for preventing route loops (default).	N/A
Level	Aggregating routes level.	N/A	Enumeration: • 1—Level-1. • 2—Level-2(default). • 3—Level-1-2.	N/A
Tag	Set tag for summarized routes.	N/A	Unsigned integer. Value range: 1 to 4294967295.	It can only be set as an unsigned integer in the range of 1 to 4294967295.
AlgoId	Flexible algorithm ID.	N/A	Unsigned integer. Value range: 0,128 to 255. Default: 0.	N/A
Explicit	Configure summary the same algorithms.	N/A	Boolean: • **true**—Configure summary the same algorithms. • **false**—Do not Configure summary the same algorithms (default).	This column can be specified only when the AlgoId is in the range of 128 to 255.

Contents

ISIS 1

ISIS/Instances 1
XML structure 1
Table description 1
Columns 1
ISIS/VRFs 2
XML structure 2
Table description 4
Columns 4
ISIS/Familys 10
XML structure 10
Table description 13
Columns 13
ISIS/Interfaces 26
XML structure 26
Table description 27
Columns 28
ISIS/AdjSids 33
XML structure 33
Table description 33
Columns 34
ISIS/LSPs 34
XML structure 34
Table description 35
Columns 35
ISIS/Peers 36
XML structure 36
Table description 37
Columns 37
ISIS/SRLabels 38
XML structure 38
Table description 39
Columns 39
ISIS/SRv6Locators 40
XML structure 40
Table description 40
Columns 40
ISIS/SRGlobalBlocks 41
XML structure 41
Table description 42
Columns 42
ISIS/IsisGlobalStatistics 42
XML structure 42
Table description 43
Columns 43
ISIS/IsisGlobalStatistics/InstanceStatistics 44
XML structure 44
Table description 44
Columns 44
ISIS/Statistics 45
XML structure 45
Table description 46
Columns 46
ISIS/SRAdjacencySIDs 47
XML structure 47
Table description 48
Columns 48

ISIS/SRAdjacencySIDs/AdjacencyEntries ····· 48
XML structure ····· 48
Table description ····· 48
Columns ····· 49
ISIS/IPv4Routes ····· 49
XML structure ····· 49
Table description ····· 50
Columns ····· 50
ISIS/Redistributes ····· 51
XML structure ····· 51
Table description ····· 52
Columns ····· 52
ISIS/LeakRouteLevel1ToLevel2s ····· 54
XML structure ····· 54
Table description ····· 55
Columns ····· 55
ISIS/LeakRouteLevel2ToLevel1s ····· 56
XML structure ····· 56
Table description ····· 56
Columns ····· 57
ISIS/Algorithms ····· 57
XML structure ····· 57
Table description ····· 58
Columns ····· 59
ISIS/AffinityMaps ····· 61
XML structure ····· 61
Table description ····· 61
Columns ····· 61
ISIS/IfAffinitys ····· 62
XML structure ····· 62
Table description ····· 62
Columns ····· 62
ISIS/PrefixSidV4 ····· 63
XML structure ····· 63
Table description ····· 63
Columns ····· 64
ISIS/RedistBiers ····· 64
XML structure ····· 64
Table description ····· 65
Columns ····· 65
ISIS/Summaries ····· 66
XML structure ····· 66
Table description ····· 66
Columns ····· 66

ISIS

ISIS/Instances

This table contains IS-IS instance information.

XML structure

```
<ISIS>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <Mode></Mode>
    </Instance>
  </Instances>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters.	After an instance is created, its VRF cannot be modified. An empty string indicates the public network
Mode	Mode of the ISIS process.	N/A	Enumeration: • **0**—Normal process. • **1**—Lightweight process.	After a process is created, its mode cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
				modified.

ISIS/VRFs

This table contains IS-IS VRF information.

XML structure

```
<ISIS>
  <VRFs>
    <VRF>
      <Name></Name>
      <IsName></IsName>
      <CostStyle>
        <Style></Style>
        <RelaxSpfLimit></RelaxSpfLimit>
      </CostStyle>
      <NetworkEntity></NetworkEntity>
      <LevelId></LevelId>
      <DistributeBgpLs>
        <LsType></LsType>
        <InstanceId></InstanceId>
        <LevelType></LevelType>
      </DistributeBgpLs>
      <NSR></NSR>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <EffectedSRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </EffectedSRGB>
      <MplsTe>
        <Enable></Enable>
        <LevelType></LevelType>
      </MplsTe>
      <SetOverload>
        <SetType></SetType>
        <Timeout></Timeout>
        <NbrSystemId></NbrSystemId>
        <NbrTimeout></NbrTimeout>
        <AllowExternal></AllowExternal>
        <AllowInterLevel></AllowInterLevel>
      </SetOverload>
```

```
    <Overload>
      <AdjustCost></AdjustCost>
      <AdjustCostValue></AdjustCostValue>
    </Overload>
    <Isolate></Isolate>
   <Shutdown></Shutdown>
    <MetricDelaySuppression>
      <Time></Time>
      <ThresholdPercent></ThresholdPercent>
      <ThresholdAbsolute></ThresholdAbsolute>
    </MetricDelaySuppression>
    <MetricBandwidthSuppression>
      <Time></Time>
    </MetricBandwidthSuppression>
    <MetricLossSuppression>
      <Time></Time>
      <ThresholdPercent></ThresholdPercent>
      <ThresholdAbsolute></ThresholdAbsolute>
   </MetricLossSuppression>
    <LspLengthReceive></LspLengthReceive>
    <LspLengthOriginate>
      <OriginateLevel1></OriginateLevel1>
      <OriginateLevel2></OriginateLevel2>
    </LspLengthOriginate>
    <Timers>
      <LspMaxAge></LspMaxAge>
      <LspRefresh></LspRefresh>
    </Timers>
    <SpfInterval>
      <Mode></Mode>
      <Max></Max>
      <Min></Min>
      <Incr></Incr>
      <FixedTime></FixedTime>
   </SpfInterval>
    <SrTunnelCount>
      <Level1Count></Level1Count>
      <Level2Count></Level2Count>
    </SrTunnelCount>
    <SRLB>
      <Lowerbound></Lowerbound>
      <Upperbound></Upperbound>
    </SRLB>
    <BierEnable></BierEnable>
    <AgingSelfLspLife></AgingSelfLspLife>
    <AgingNonSelfLspLife></AgingNonSelfLspLife>
  </VRF>
</VRFs>
```

```
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
IsName	IS-IS name.	N/A	String. Length: 0 to 64 characters.	N/A
CostStyle	Cost style.	Data structure	Members include: • Style. • RelaxSpfLimit.	N/A
Style	Style ID.	N/A	Enumeration: • **1**—narrow. • **2**—wide. • **3**—compatible. • **4**—narrow-compatible. • **5**—wide-compatible.	N/A
RelaxSpfLimit	Whether to accept routes with cost greater than 1023.	N/A	Boolean: • **true**—Accept routes with cost greater than 1023. • **false**—Does not accept routes with cost greater than 1023 .	N/A
NetworkEntity	Configure the network entity title (NET) for an IS-IS process.	N/A	String. Length: 1 to 82 characters A NET comprises the following parts: • Area ID—With a length of 1 to 13 bytes.	Specify a NET as a dotted hexadecimal string in the X....X.XXXX....XXXX.00 format. The X....X segment represents the area address, the XXXX....XXXX segment represents

Column name	Column description	Column type	Data type and restrictions	Remarks
			• System ID—A system ID uniquely identifies a host or router in the area and has a fixed 6-byte length. • SEL—It has a value of 0 and a fixed 1-byte length.	the system ID, and the 00 segment is the SEL. Repeat supported for 3 times.
LevelId	Router working level.	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2	N/A
DistributeBgpLs	Allow the device to send the link state information to bgp	Data structure	Members include: • LsType • InstanceId. • LevelType.	N/A
LsType	Link state type.	N/A	Enumeration: • 1—BGP LS. • 2—Link state.	N/A
InstanceId	Instance Id	N/A	Unsigned integer. Value range 0 to 65535.	N/A
LevelType	Level type	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2.	N/A
NSR	Open the ISIS protocol NSR function	N/A	Boolean: • **true**—Open the ISIS protocol NSR function. • **false**—Close the ISIS protocol NSR function.	N/A
SRGB	Specify range of SRGB.	Data structure	Members include: • Lowerbound. • Upperbound.	The members of Lowerbound and Upperbound must be specified.
Lowerbound	Min value of SRGB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer.	N/A
EffectedSRGB	Specify range of effected SRGB.	Data structure	Members include: • Lowerbound. • Upperbound.	N/A
Lowerbound	Min value of effected SRGB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of effected SRGB.	N/A	Unsigned integer.	N/A
MplsTe	MPLS traffic	Data	Members include:	The member of Enable

Column name	Column description	Column type	Data type and restrictions	Remarks
	engineering information for IS-IS.	structure	• Enable. • LevelType.	must be specified.
Enable	Enable MPLS traffic engineering for IS-IS.	N/A	Boolean: • **true**—Enable MPLS traffic engineering for IS-IS. • **false**—Disable MPLS traffic engineering for IS-IS.	N/A
LevelType	Level type	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2.	N/A
SetOverload	Set the overload bit	Data structure	Members include:. • SetType. • Timeout. • NbrSystemId. • NbrTimeout. • AllowExternal • AllowInterLevel.	N/A
SetType	Type of set-overload	N/A	Enumeration: • 0—Do not set overload. • 1—Force overload. • 2—Set overload on startup. • 3—Set overload on startup and start from specified neighbor. • 4—Set overload on startup and wait for BGP.	N/A
Timeout	Timeout of set-overload.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	N/A
NbrSystemId	Specifies the neighbor for OnStartup StartFromNbr type.	N/A	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
NbrTimeout	Timeout of the specified neighbor.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	N/A
AllowExternal	Whether to allow advertising redistributed	N/A	Boolean: • **true**—Allow advertising	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefixes.		redistributed prefixes. • **false—Do not a**llow advertising redistributed prefixes.	
AllowInterLevel	Whether to allow advertising inter-level leaked prefixes.	N/A	Boolean: • **true**—Allow advertising inter-level leaked prefixes. • **false**—Do not allow advertising inter-level leaked prefixes.	N/A
Overload	Set the overload bit	Data structure	Members include:. • AdjustCost • AdjustCostValue	N/A
AdjustCost	Whether to adjust cost.	N/A	Enumeration: • 0—Do not adjust cost. • 1—Adjust cost to the maximum value. • 2—Adjust cost by add an additional value.	N/A
AdjustCostValue	Adjust cost by add an additional value.	N/A	Unsigned integer. Value range: 1 to 16777213.	N/A
Isolate	Whether to isolate IS-IS from current network.	N/A	Boolean: • **true**—Isolate IS-IS from current network. • **false**—Do not isolate IS-IS from current network.	N/A
Shutdown	Whether to shutdown the IS-IS process.	N/A	Boolean: • **true—**Shutdown the IS-IS process. • **false—**Do not shutdown the IS-IS process.	N/A
MetricDelaySuppression	Suppress advertisement of link delay information.	Data structure	Members include: • Time. • ThresholdPercent. • ThresholdAbsolute.	Configure suppression timer.
Time	Specify the link delay information timer.	N/A	Unsigned integer. Value range: 0 to 600.	N/A
ThresholdPercent	Specify the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	suppression threshold for link delay variation ratio.		Value range: 0 to 100.	
ThresholdAbsolute	Specify the suppression threshold for link delay variation ratio.	N/A	Unsigned integer. Value range: 0 to 10000.	N/A
MetricBandwidthSuppression	Suppress link bandwidth information advertisement.	Data structure	Members include: • Time.	Configure suppression timer
Time	Specify the suppression timer.	N/A	Unsigned integer. Value range: 0 to 600.	N/A
MetricLossSuppression	Suppress advertisement of link loss information.	Data structure	Members include: • Time. • ThresholdPercent. ThresholdAbsolute.	Configure suppression timer.
Time	Specify the link loss information timer.	N/A	Unsigned integer. Value range: 0 to 600.	N/A
ThresholdPercent	Specify the suppression threshold for link loss variation ratio.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
ThresholdAbsolute	Specify the suppression threshold for link loss variation ratio.	N/A	Unsigned integer. Value range: 0 to 10000.	N/A
LspLengthReceive	The max length of LSP to receive.	N/A	Unsigned integer. Value range 512 to 16384.	N/A
LspLengthOriginate	The max length of LSP to originate.	Data structure	Members include: • OriginateLevel1 • OriginateLevel2.	N/A
OriginateLevel1	The max length of level-1 LSP to originate.	N/A	Unsigned integer. Value range 512 to 16384.	N/A
OriginateLevel2	The max length of level-2 LSP to originate.	N/A	Unsigned integer. Value range 512 to 16384.	N/A
Timers	The timers of LSP.	Data structure	Members include: • LspMaxAge • LspRefreshTime.	N/A
LspMaxAge	The max age of LSP	N/A	Unsigned integer. Value range 1 to 65535.	N/A
LspRefreshTime	The time interval of LSP refresh	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range 1 to 65534.	
SpfInterval	The interval of SPF.	Data structure	Members include: • Mode • Max • Min • Incr • FixedTime	
Mode	The mode of SPF	N/A	Enumeration: • **0**—Normal. • **1**—Normal exclude-prc. • **2**—Conservative. • **3**—Conservative exclude-prc. • **4**—Millisecond. • **5**—Millisecond exclude-prc.	N/A
Max	The max interval of SPF	N/A	Unsigned integer.	N/A
Min	The min interval of SPF	N/A	Unsigned integer.	N/A
Incr	The increase interval of SPF	N/A	Unsigned integer.	N/A
FixedTime	The fixed interval of SPF	N/A	Unsigned integer.	N/A
SrTunnelCount	The count of segment-routing tunnel.	Data structure	Members include: • Level1Count. • Level2Count.	N/A
Level1Count	The count of level-1 tunnel.	N/A	Unsigned integer.	N/A
Level2Count	The count of level-2 tunnel.	N/A	Unsigned integer.	N/A
SRLB	Specify range of SRLB.	Data structure	Members include: • Lowerbound. • Upperbound.	N/A
Lowerbound	Min value of SRLB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of SRLB.	N/A	Unsigned integer.	N/A
BierEnable	Enable BIER function for IS-IS.	N/A	Boolean: • **true**—Enable BIER function for IS-IS. • **false**—Disable BIER function for IS-IS.	N/A
AgingSelfLspLife	Lifetime for aged LSPs that are generated by the local device	N/A	Unsigned integer Value range 1 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingNonSelfLspLife	Lifetime for aged LSPs that are received from other devices	N/A	Unsigned integer Value range 1 to 65535	N/A

ISIS/Familys

This table contains address family identifier information of IS-IS.

XML structure

```
<ISIS>
  <Familys>
    <Family>
      <Name></Name>
      <Type></Type>
      <RouterId></RouterId>
      <BfdEnable></BfdEnable>
      <BfdSessionRestrictAdj></BfdSessionRestrictAdj>
      <BfdAdjustCost></BfdAdjustCost>
      <PrimaryPathDetect></PrimaryPathDetect>
      <SrMpls></SrMpls>
      <SrAdjEnable></SrAdjEnable>
      <SrMemberPortAdjEnable></SrMemberPortAdjEnable>
      <SidMap>
        <AdvertiseLocal></AdvertiseLocal>
        <Receive></Receive>
      </SidMap>
      <SrPrefer>
        <Enable></Enable>
        <PrefixList></PrefixList>
      </SrPrefer>
      <SrMicroloopAvoid>
        <EnableLevel1></EnableLevel1>
        <EnableLevel2></EnableLevel2>
        <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
        <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
      </SrMicroloopAvoid>
      <FrrLfa>
        <EnableLevel1></EnableLevel1>
        <EnableLevel2></EnableLevel2>
        <RoutePolicy></RoutePolicy>
        <EcmpType></EcmpType>
      </FrrLfa>
      <FrrRemoteLfa>
        <EnableLevel1></EnableLevel1>
```

```
  <EnableLevel2></EnableLevel2>
  <MaxCostLevel1></MaxCostLevel1>
  <MaxCostLevel2></MaxCostLevel2>
  <PrefixListLevel1></PrefixListLevel1>
  <PrefixListLevel2></PrefixListLevel2>
</FrrRemoteLfa>
<FrrTiLfa>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <PerPrefixLevel1></PerPrefixLevel1>
  <PerPrefixLevel2></PerPrefixLevel2>
  <HostLevel1></HostLevel1>
  <HostLevel2></HostLevel2>
  <RoutePolicyLevel1></RoutePolicyLevel1>
  <RoutePolicyLevel2></RoutePolicyLevel2>
</FrrTiLfa>
<FrrMicroloopAvoid>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
  <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
  <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
</FrrMicroloopAvoid>
<FrrTieBreaker>
  <LowestCostPrefLevel1></LowestCostPrefLevel1>
  <LowestCostPrefLevel2></LowestCostPrefLevel2>
  <NodeProtectPrefLevel1></NodeProtectPrefLevel1>
  <NodeProtectPrefLevel2></NodeProtectPrefLevel2>
  <NonEcmpPrefLevel1></NonEcmpPrefLevel1>
  <NonEcmpPrefLevel2></NonEcmpPrefLevel2>
</FrrTieBreaker>
<SetOverload>
  <SetType></SetType>
  <Timeout></Timeout>
  <NbrSystemId></NbrSystemId>
  <NbrTimeout></NbrTimeout>
  <AllowExternal></AllowExternal>
  <AllowInterLevel></AllowInterLevel>
</SetOverload>
<Overload>
  <AdjustCost></AdjustCost>
  <AdjustCostValue></AdjustCostValue>
</Overload>
<AdvertiseLinkAttributes></AdvertiseLinkAttributes>
<MetricDelayAdvertisement>
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricDelayAdvertisement>
<MetricBandwidthAdvertisement>
```

```
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricBandwidthAdvertisement>
<MetricLossAdvertisement>
   <EnableLevel1></EnableLevel1>
   <EnableLevel2></EnableLevel2>
</MetricLossAdvertisement>
<FrrMirror>
   <Enable></Enable>
   <DeleteDelayTime></DeleteDelayTime>
</FrrMirror>
<Srv6PolicyAutoroute>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
</Srv6PolicyAutoroute>
<PeerStatistics>
  <LANLevel1Up></LANLevel1Up>
  <LANLevel1Init></LANLevel1Init>
  <LANLevel2Up></LANLevel2Up>
  <LANLevel2Init></LANLevel2Init>
  <P2PUp></P2PUp>
  <P2PInit></P2PInit>
</PeerStatistics>
<Preference></Preference>
<ImportRouteLimit></ImportRouteLimit>
<IPv6Topology></IPv6Topology>
<Srv6CompressEnable>
  <EnableLevel1></EnableLevel1>
  <EnableLevel2></EnableLevel2>
</Srv6CompressEnable>
<SrMaStrictSidEnable></SrMaStrictSidEnable>
<FrrTiLfaEncapEnable></FrrTiLfaEncapEnable>
<Srv6MaEncapEnable></Srv6MaEncapEnable>
<AdvAppLinkAttributes>
  <AdvertiseTE></AdvertiseTE>
  <AdvertiseSRLG></AdvertiseSRLG>
  <SuppressOldTE></SuppressOldTE>
  <SuppressOldSRLG></SuppressOldSRLG>
  <Delay></Delay>
  <Bandwidth></Bandwidth>
  <LinkLoss></LinkLoss>
  <UnidirectionalBandwidth></UnidirectionalBandwidth>
</AdvAppLinkAttributes>
<InterLevelTilfa>
  <LevelTilfaEnable></LevelTilfaEnable>
  <LevelTilfaPrefer></LevelTilfaPrefer>
</InterLevelTilfa>
<RedistNotCalc></RedistNotCalc>
```

```
      <Srv6AdvertisEnable></Srv6AdvertisEnable>
      <MetricDelayNormalize>
        <Interval></Interval>
        <Offset></Offset>
      </MetricDelayNormalize>
    </Family>
  </Familys>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Familys
Table type	Multi-instance table
Row name	Family
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	You must create an instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
Type	Address Family Identifier	Index	Enumeration: • **1**—IPv4 unicast. • **2**—IPv6 unicast.	N/A
RouterId	Router identifier.	N/A	IPv6 address, hexadecimal string, colon-separated.	This command only supports the IPv6 address family.
BfdEnable	Enable BFD for all ISIS interfaces.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A
BfdSessionRestrictAdj	Enable adjacency establishment and maintenance control based on BFD session state for all ISIS interfaces.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A
BfdAdjustCost	Enable all ISIS interfaces to adjust the	N/A	Enumeration: • **1~16777213**—Value to be	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface cost according to the BFD session state.		added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **none**—Do not adjust cost.	
PrimaryPathDetect	Enable all ISIS interfaces to use BFD to detect FRR primary path.	N/A	Enumeration: • **0**—Disable. • **1**—BFD ctrl. • **2**—BFD echo.	N/A
SrMpls	Enable SR function based on MPLS.	N/A	Boolean: • **true**—Enable SR function based on MPLS. • **false**—Disable SR function based on MPLS.	This command only supports the IPv4 address family.
SrAdjEnable	Enable the neighbor label allocation function.	N/A	Boolean: • **true**—Enable the neighbor label allocation function. • **false**—Disable the neighbor label allocation function.	This command only supports the IPv4 address family.
SrMemberPortAdjEnable	Enable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces.	N/A	Boolean: • **true**—Enable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces. • **false—**Disable the neighbor label allocation function for member ports of Layer 3 aggregate interfaces.	This command only supports the IPv4 address family.
SidMap	Segment-routing mapping-server messages.	Data structure	Members include: • AdvertiseLocal. • Receive.	N/A
AdvertiseLocal	Whether to advertise local prefix-SID mappings.	N/A	Boolean: • **true**—Advertise local prefix-SID mappings. • **false**—Does not advertise local prefix-SID mappings.	This command only supports the IPv4 address family.
Receive	Whether to receive mapping server advertisements.	N/A	Boolean: • **true**—Receive mapping server advertisements. • **false**—Does not receive mapping server advertisements.	This command only supports the IPv4 address family.
SrPrefer	The preferred segment-routing	Data structure	Members include: • Enable.	The member of Enable must be

Column name	Column description	Column type	Data type and restrictions	Remarks
	messages.		• PrefixList.	specified.
Enable	Whether to prefer SRLSPs over LDP LSPs	N/A	Boolean: • **true**—Prefer SRLSP over LDP LSP. • **false**—Prefer LDP LSP over SRLSP.	This command only supports the IPv4 address family.
PrefixList	Prefix list name.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the Enable is specified false.
SrMicroloopAvoid	Microloop-avoidance information for IS-IS SR.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
EnableLevel1	Enable microloop-avoidance for IS-IS SR level-1.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS SR level-1. • **false**—Disable microloop-avoidance for IS-IS SR level-1.	N/A
EnableLevel2	Enable microloop-avoidance for IS-IS SR level-2.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS SR level-2. • **false**—Disable microloop-avoidance for IS-IS SR level-2.	N/A
RibUpdateDelayLevel1	The microloop-avoidance RIB-update-delay time for IS-IS SR level-1.	N/A	Unsigned integer. Value range 1 to 60000.	N/A
RibUpdateDelayLevel2	The microloop-avoidance RIB-update-delay time for IS-IS SR level-2.	N/A	Unsigned integer. Value range 1 to 60000.	N/A
FrrLfa	LFA information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • RoutePolicy. • EcmpType.	N/A
EnableLevel1	Enable the LFA calculation for IS-IS level-1.	N/A	Boolean: • **true**—Enable the LFA calculation for IS-IS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			level-1. • **false**—Disable the LFA calculation for IS-IS level-1.	
EnableLevel2	Enable the LFA calculation for IS-IS level-2.	N/A	Boolean: • **true**—Enable the LFA calculation for IS-IS level-2. • **false**—Disable the LFA calculation for IS-IS level-2.	N/A
RoutePolicy	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	N/A
EcmpType	Type of ECMP.	N/A	Enumeration: • default—Calculate the next hop by LFA algorithm. • ecmp-shared—Select a shared backup next hop for ECMP routes. • ecmp-frr—Enable ECMP FRR, and select an independent backup next hop for each ECMP route.	N/A
FrrRemoteLfa	Remote-lfa information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • MaxCostLevel1. • MaxCostLevel2. • PrefixListLevel1. • PrefixListLevel2.	N/A
EnableLevel1	Enable remote LFA calculation using tunnels for IS-IS level-1.	N/A	Boolean: • **true**—Enable remote LFA calculation using tunnels for IS-IS level-1. • **false**—Disable remote LFA calculation using tunnels for IS-IS level-1.	This command only supports the IPv4 address family.
EnableLevel2	Enable remote LFA calculation using tunnels for IS-IS level-2.	N/A	Boolean: • **true**—Enable remote LFA calculation using tunnels for IS-IS level-2. • **false**—Disable remote LFA calculation using tunnels for IS-IS level-2.	This command only supports the IPv4 address family.
MaxCostLevel1	The maximum cost for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 16777215.	This command only supports the IPv4 address family.
MaxCostLevel2	The maximum cost for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 16777215.	This command only supports the IPv4 address family.

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListLevel1	Prefix list name for IS-IS level-1.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family.
PrefixListLevel2	Prefix list name for IS-IS level-2.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family.
FrrTiLfa	TI-LFA information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • PerPrefixLevel1. • PerPrefixLevel2. • HostLevel1. • HostLevel2. • RoutePolicyLevel1. • RoutePolicyLevel2.	N/A
EnableLevel1	Enable the TI-LFA calculation for IS-IS level-1.	N/A	Boolean: • **true**—Enable the TI-LFA calculation for IS-IS level-1. • **false**—Disable the TI-LFA calculation for IS-IS level-1 .	This command only supports the IPv4 address family.
EnableLevel2	Enable the TI-LFA calculation for IS-IS level-2.	N/A	Boolean: • **true**—Enable the TI-LFA calculation for IS-IS level-2. • **false**—Disable the TI-LFA calculation for IS-IS level-2.	This command only supports the IPv4 address family.
PerPrefixLevel1	Per-prefix calculation for IS-IS level-1.	N/A	Boolean: • **true**—Calculate per-prefix for IS-IS level-1. • **false**—Does not calculate per-prefix for IS-IS level-1.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
PerPrefixLevel2	Per-prefix calculation for IS-IS level-2.	N/A	Boolean: • **true**—Calculate per-prefix for IS-IS level-2. • **false**—Does not calculate per-prefix for IS-IS level-2.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel2 is specified false.
HostLevel1	Enable TI-LFA FRR for host for IS-IS level-1.	N/A	Boolean: • **true**—Enable TI-LFA FRR for host IS-IS level-1. • **false**—Disable TI-LFA FRR for host IS-IS level-1.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
HostLevel2	Enable TI-LFA FRR for host for IS-IS level-2.	N/A	Boolean: • **true**—Enable TI-LFA FRR for host IS-IS level-2.	This command only supports the IPv4 address family.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disable TI-LFA FRR for host IS-IS level-2.	This command is invalid when the EnableLevel2 is specified false.
RoutePolicyLevel1	Name of the routing policy for IS-IS level-1.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel1 is specified false.
RoutePolicyLevel2	Name of the routing policy for IS-IS level-2.	N/A	String. Length: 1 to 63 characters.	This command only supports the IPv4 address family. This command is invalid when the EnableLevel2 is specified false.
FrrMicroloopAvoid	Microloop-avoidance FRR information for IS-IS.	Data structure	Members include: • EnableLevel1. • EnableLevel2. • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A
EnableLevel1	Enable microloop-avoidance for IS-IS level-1.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS level-1. • **false**—Disable microloop-avoidance for IS-IS level-1.	This command only supports the IPv4 address family.
EnableLevel2	Enable microloop-avoidance for IS-IS level-2.	N/A	Boolean: • **true**—Enable microloop-avoidance for IS-IS level-2. • **false**—Disable microloop-avoidance for IS-IS level-2.	This command only supports the IPv4 address family.
RibUpdateDelayLevel1	The microloop-avoidance RIB-update-delay time for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 60000.	This command only supports the IPv4 address family.
RibUpdateDelayLevel2	The microloop-avoidance RIB-update-delay time for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 60000.	This command only supports the IPv4 address family.
FrrTieBreaker	The tiebreaker for an FRR protection mode.	Data structure	Members include: • LowestCostPrefLevel1. • LowestCostPrefLevel2. • NodeProtectPrefLevel1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• NodeProtectPrefLevel2. • NonEcmpPrefLevel1. • NonEcmpPrefLevel2.	
LowestCostPrefLevel1	The preference of link protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255.	N/A
LowestCostPrefLevel2	The preference of link protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NodeProtectPrefLevel1	The preference of node protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NodeProtectPrefLevel2	The preference of node protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NonEcmpPrefLevel1	The preference of non-ECMP protection for IS-IS level-1.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NonEcmpPrefLevel2	The preference of non-ECMP protection for IS-IS level-2.	N/A	Unsigned integer. Value range 1 to 255.	N/A
SetOverload	Set the overload bit	Data structure	Members include: • SetType. • Timeout. • NbrSystemId. • NbrTimeout. • AllowExternal • AllowInterLevel.	N/A
SetType	Type of set-overload	N/A	Enumeration: • 0—Do not set overload. • 1—Force overload. • 2—Set overload on startup. • 3—Set overload on startup and start from specified neighbor. • 4—Set overload on startup and wait for BGP.	N/A
Timeout	Timeout of set-overload.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	N/A
NbrSystemId	Specifies the neighbor for OnStartup StartFromNbr type.	N/A	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NbrTimeout	Timeout of the specified neighbor.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	N/A
AllowExternal	Whether to allow advertising redistributed prefixes.	N/A	Boolean: • **true**—Allow advertising redistributed prefixes. • **false—Do not a**llow advertising redistributed prefixes.	N/A
AllowInterLevel	Whether to allow advertising inter-level leaked prefixes.	N/A	Boolean: • **true**—Allow advertising inter-level leaked prefixes. • **false**—Do not allow advertising inter-level leaked prefixes.	N/A
Overload	Set the overload bit	Data structure	Members include:. • AdjustCost • AdjustCostValue	N/A
AdjustCost	Whether to adjust cost.	N/A	Enumeration: • 0—Do not adjust cost. • 1—Adjust cost to the maximum value. • 2—Adjust cost by add an additional value.	N/A
AdjustCostValue	Adjust cost by add an additional value.	N/A	Unsigned integer. Value range: 1 to 16777213.	N/A
AdvertiseLinkAttributes	Enable IS-IS to advertise link attributes in LSPs	N/A	Boolean: • **true**—Configuring IS-IS to carry link attributes when publishing LSP. • **false**—By default IS-IS publishes an LSP with link attributes .	The link cost style is wide, compatible or wide-compatible
MetricDelayAdvertisement	Enable a device to advertise link delay information.	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable a device to advertise link delay information for IS-IS level-1.	N/A	Boolean: • **true**—Enable delay release for IS-IS level-1. • **false**—Turn off the delay release function for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link delay information for IS-IS level-2.	N/A	Boolean: • **true**—Enable delay release for IS-IS level-2. • **false**—Turn off delay release for IS-IS level-2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MetricBandwidthAdvertisement	Enable a device to advertise link bandwidth information.	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable a device to advertise link bandwidth information for IS-IS level-1.	N/A	Boolean: • **true**—Enable bandwidth publishing for IS-IS level-1. • **false**—Turn off bandwidth publishing for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link bandwidth information for IS-IS level-2.	N/A	Boolean: • **true**—Enable bandwidth publishing for IS-IS level-2. • **false**—Turn off bandwidth publishing for IS-IS level-2.	N/A
MetricLossAdvertisement	Enable a device to advertise link loss information.	Data structure	Members include: • EnableLevel1. EnableLevel2.	N/A
EnableLevel1	Enable a device to advertise link loss information for IS-IS level-1.	N/A	Enumeration: • **0--**Disable loss publishing for IS-IS level-1. **1--**Enable loss publishing for IS-IS level-1.	N/A
EnableLevel2	Enable a device to advertise link loss information for IS-IS level-2.	N/A	Enumeration: • **0--**Disable loss publishing for IS-IS level-2. **1--**Enable loss publishing for IS-IS level-2.	N/A
FrrMirror	FrrMirror name	Data structure	Members include: • Enable. • DeleteDelayTime.	N/A
Enable	Enable FRR mirror.	N/A	Boolean • **true**—Enable mirror. • **false**—Turn off mirror.	N/A
DeleteDelayTime	Time of delete delay.	N/A	Unsigned integer. Value range: 1 to 21845.	N/A
Srv6PolicyAutoroute	SRv6 policy autoroute	Data structure	Members include: • EnableLevel1. • EnableLevel2	N/A
EnableLevel1	Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-1	N/A	Boolean: • **true**—Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-1. • **false**—Disable SRv6 policy autoroute and	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			SRv6 policy group autoroute for IS-IS level-1.	
EnableLevel2	Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2	N/A	Boolean: • **true**—Enable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2. • **false**—Disable SRv6 policy autoroute and SRv6 policy group autoroute for IS-IS level-2.	N/A
PeerStatistics	The statistics of isis neighbors.	Data structure	Members include: • LANLevel1Up. • LANLevel1Init. • LANLevel2Up. • LANLevel2Init. • P2PUp. • P2PInit.	N/A
LANLevel1Up	The number of IS-IS LAN level-1 neighbors whose state is up .	N/A	Unsigned integer.	N/A
LANLevel1Init	The number of IS-IS LAN level-1 neighbors whose state is init .	N/A	Unsigned integer.	N/A
LANLevel2Up	The number of IS-IS LAN level-2 neighbors whose state is up .	N/A	Unsigned integer.	N/A
LANLevel2Init	The number of IS-IS LAN level-2 neighbors whose state is init .	N/A	Unsigned integer.	N/A
P2PUp	The number of IS-IS P2P neighbors whose state is up .	N/A	Unsigned integer.	N/A
P2PInit	The number of IS-IS P2P neighbors whose state is init .	N/A	Unsigned integer.	N/A
Preference	The priority of IS-IS	N/A	Unsigned integer. Value range 1 to 255.	N/A
ImportRouteLimit	The max number of route to import	N/A	Unsigned integer. Value range 1 to 262144.	N/A
IPv6Topology	Mode of IPv6 IS-IS topology.	N/A	Enumeration: • **0**—IPv6 IS-IS uses IPv4 IS-IS topology.	This command only supports the IPv6 address family.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Enable separated IPv4 and IPv6 topologies. • **2**—Specify compatible mode to advertise IPv6 prefixes to both IPv4 and IPv6 topologies.	
Srv6CompressEnable	Whether to enable SRv6 compression	Data structure	Members include: • EnableLevel1. • EnableLevel2.	N/A
EnableLevel1	Enable SRv6 compression for IS-IS Level-1	N/A	Boolean: • **true**—Enable SRv6 compression for IS-IS Level-1. • **false**—Disable SRv6 compression for IS-IS Level-1.	This command is supported in only the IPv6 address family.
EnableLevel2	Enable SRv6 compression for IS-IS Level-2	N/A	Boolean: • **true**—Enable SRv6 compression for IS-IS Level-2. • **false**—Disable SRv6 compression for IS-IS Level-2.	This command is supported in only the IPv6 address family.
SrMaStrictSidEnable	Whether to enable segment routing microloop avoidance strict SIDs only.	N/A	Boolean: • **true**—Enable segment routing microloop avoidance strict SIDs only. • **false**—Disable segment routing microloop avoidance strict SIDs only.	N/A
FrrTiLfaEncapEnable	Whether to enable fast reroute TI-LFA encapsulation.	N/A	Boolean: • **true**—Enable fast reroute TI-LFA encapsulation. • **false**—Disable fast reroute TI-LFA encapsulation.	This command is supported in only the IPv6 address family.
Srv6MaEncapEnable	Whether to enable SRv6 microloop avoidance encapsulation.	N/A	Boolean: • **true**—Enable SRv6 microloop avoidance encapsulation. • **false**—Disable SRv6 microloop avoidance encapsulation.	This command is supported in only the IPv6 address family.
AdvAppLinkAttributes	Advertise application link attributes.	Data structure	Members include: • AdvertiseTE. • AdvertiseSRLG. • SuppressOldTE. • SuppressOldSRLG. • Delay • Bandwidth	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• LinkLoss • UnidirectionalBandwidth	
AdvertiseTE	Advertise TE information in application link attributes.	N/A	Boolean: • **true**—Advertise TE information in application link attributes. • **false**—Do not advertise TE information in application link attributes.	N/A
AdvertiseSRLG	Advertise SRLG information in application link attributes.	N/A	Boolean: • **true**—Advertise SRLG information in application link attributes. • **false**—Do not advertise SRLG information in application link attributes.	N/A
SuppressOldTE	Suppress old TE information advertisement.	N/A	Boolean: • **true**—Suppress old TE information advertisement. • **false**—Do not Suppress old TE information advertisement.	N/A
SuppressOldSRLG	Suppress old SRLG information advertisement.	N/A	Boolean: • **true**—Suppress old SRLG information advertisement. • **false**—Do not Suppress old SRLG information advertisement.	N/A
Delay	Advertise delay information in application link attributes.	N/A	Enumeration: • **0**—Disable.. • **1**—Enable • **2**—Enable and asla-only	Type33：Unidirectional Link Delay. Type 34: Min/Max Unidirectional Link delay. Type 35: Unidirectional delay Variation.
Bandwidth	Advertise bandwidth information in application link attributes.	N/A	Enumeration: • **0**—Disable. • **1**—Enable • **2**—Enable and asla-only	Type 9: Maximum Link Bandwidth Type 10: Maximum Reservable Link Bandwidth Type 11: Unreserved Bandwidth
LinkLoss	Advertise linkloss information in application link attributes.	N/A	Enumeration: • **0**—Disable.. • **1**—Enable • **2**—Enable and asla-only	Type 36: Unidirectional Link Loss.
Unidirectional	Advertise unidirectional-ba	N/A	Enumeration:	Type 37: Unidirectional

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	ndwidth information in application link attributes.		• **0**—Disable • **1**—Enable • **2**—Enable and asla-only	Residual Bandwidth. Type 38: Unidirectional Available Bandwidth. Type 39: Unidirectional Utilized Bandwidth
InterLevelTilfa	Inter level tilfa protection.	Data structure	Members include: • LevelTilfaEnable. • LevelTilfaPrefer.	N/A
LevelTilfaEnable	Enable inter-level-tilfa level-1 protection.	N/A	Boolean: • **true**—Enable inter-level-tilfa level-1 protection. • **false**—Disable inter-level-tilfa level-1 protection.	N/A
LevelTilfaPrefer	Specify the inter-level-tilfa protection level-2 backup paths priority higher.	N/A	Boolean: • **true**—Enable inter-level-tilfa protection level-2 backup paths priority higher. • **false**—Disable inter-level-tilfa protection level-2 backup paths priority higher.	N/A
RedistNotCalc	Whether to exclude redistributed routes from route calculation	N/A	Boolean: • **true**—Redistributed routes are excluded from route calculation. • **false**—Redistributed routes can participate in route calculation.	N/A
Srv6AdvertisEnable	Srv6 advertise configuration	N/A	Enumeration: • **0—**Disable Advertise**.** • **1**—Enable l3-service-sid Advertise.	This command is supported in only the IPv6 address family.
MetricDelayNormalize	Link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
Interval	Interval value for link delay normalization	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Offset	Offset value for link delay normalization	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A

ISIS/Interfaces

This table contains IS-IS interface information.

XML structure

```
<ISIS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableNameV4></EnableNameV4>
      <EnableNameV6></EnableNameV6>
      <CostV4>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV4>
      <CostV6>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV6>
      <LevelType></LevelType>
      <NetworkType></NetworkType>
      <BfdEnableV4></BfdEnableV4>
      <BfdEnableV6></BfdEnableV6>
      <BfdExcludeV4></BfdExcludeV4>
      <BfdExcludeV6></BfdExcludeV6>
      <BfdSessionRestrictAdjV4></BfdSessionRestrictAdjV4>
      <BfdSessionRestrictAdjV6></BfdSessionRestrictAdjV6>
      <BfdAdjustCostV4></BfdAdjustCostV4>
      <BfdAdjustCostV6></BfdAdjustCostV6>
      <BfdAdjustCostSuppressV4>
        <ResumeInterval></ResumeInterval>
        <DetectInterval></DetectInterval>
        <Threshold></Threshold>
      </BfdAdjustCostSuppressV4>
      <BfdAdjustCostSuppressV6>
        <ResumeInterval></ResumeInterval>
        <DetectInterval></DetectInterval>
        <Threshold></Threshold>
      </BfdAdjustCostSuppressV6>
      <Frr>
        <PrimaryPathDetectV4></PrimaryPathDetectV4>
        <PrimaryPathDetectV6></PrimaryPathDetectV6>
        <LfaDisableLevelV4></LfaDisableLevelV4>
        <LfaDisableLevelV6></LfaDisableLevelV6>
        <TiLfaDisableLevelV4></TiLfaDisableLevelV4>
        <TiLfaDisableLevelV6></TiLfaDisableLevelV6>
        <RemoteLfaDisableLevelV4></RemoteLfaDisableLevelV4>
```

```
      </Frr>
      <PrefixSidV4>
         <SidType></SidType>
         <Sid></Sid>
         <ExplicitNull></ExplicitNull>
         <PHP></PHP>
         <NFlagClear></NFlagClear>
      </PrefixSidV4>
      <Silent></Silent>
      <LinkDelay>
         <Average></Average>
         <Minimal></Minimal>
         <Maximal></Maximal>
         <Variation></Variation>
      </LinkDelay>
      <LinkLoss></LinkLoss>
      <TeMetricFlexAlgo></TeMetricFlexAlgo>
      <DISPriority>
        <PriorityLevel1></PriorityLevel1>
        <PriorityLevel2></PriorityLevel2>
      </DISPriority>
      <MPLSTE>
        <MPLSTELevel1></MPLSTELevel1>
        <MPLSTELevel2></MPLSTELevel2>
      </MPLSTE>
      <IfName></IfName>
      <MetricDelayNormalizeV4>
        <Interval></Interval>
        <Offset></Offset>
      </MetricDelayNormalizeV4>
      <MetricDelayNormalizeV6>
        <Interval></Interval>
        <Offset></Offset>
      </MetricDelayNormalizeV6>
      <PeerHoldMaxCostDuration></PeerHoldMaxCostDuration>
    </Interface>
  </Interfaces>
</ISIS>
```


Table description

Item	Description
Feature name	ISIS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
EnableNameV4	Instance name	N/A	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
EnableNameV6	Instance name	N/A	String. Length: 1 to 31 characters..	It must be an unsigned integer in the range of 1 to 65535.
CostV4	IPv4 interface cost.	Data structure	Members include:. • Level1Value. • Level2Value	N/A
CostV6	IPv6 interface cost	Data structure	Members include:. • Level1Value. • Level2Value	N/A
Level1Value	Level-1 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Level2Value	Level-2 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215	N/A
LevelType	Level type	N/A	Enumeration: • **1**—Level 1. • **2**—Level 2. • **3**—Level-1-2	N/A
NetworkType	The type of network that ISIS use for the specified interface.	N/A	Enumeration: • **1**—Do not change the original network type of interface. • **2**—Set the network type of broadcast interface to P2P. • 3—Set the network type of broadcast interface to P2P and set the type of MAC address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdEnableV4	Enable BFD for ISIS.	N/A	Boolean: • **true**—Enable BFD for ISIS. • **false**—Disable BFD for ISIS	Configuring this column might overwrite the configuration for the BfdExcludeV4 column.
BfdEnableV6	Enable BFD for IPv6 ISIS.	N/A	Boolean: • **true**—Enable BFD for IPv6 ISIS. • **false**—Disable BFD for IPv6 ISIS	Configuring this column might overwrite the configuration for the BfdExcludeV6 column.
BfdExcludeV4	Exclude the IPv4 IS-IS interface from using the global BFD configuration.	N/A	Enumeration: • **0**—Do not exclude the IPv4 IS-IS interface from using the global BFD configuration. • **1**—Exclude the IPv4 IS-IS interface from using the global BFD configuration.	Configuring this column might overwrite the configuration for the BfdEnableV4 column.
BfdExcludeV6	Exclude the IPv6 IS-IS interface from using the global BFD configuration.	N/A	Enumeration: • **0**—Do not exclude the IPv6 IS-IS interface from using the global BFD configuration. • **1**—Exclude the IPv6 IS-IS interface from using the global BFD configuration.	Configuring this column might overwrite the configuration for the BfdEnableV6 column.
BfdSessionRestrictAdjV4	Enable IPv4 IS-IS adjacency establishment and maintenance control based on BFD session state.	N/A	Enumeration: • **0**—Disable. • **1**—Enable. • **2**—Exclude from using global BFD configuration.	N/A
BfdSessionRestrictAdjV6	Enable IPv6 IS-IS adjacency establishment and maintenance control based on BFD session state.	N/A	Enumeration: • **0**—Disable. • **1**—Enable. • **2**—Exclude from using global BFD configuration.	N/A
BfdAdjustCostV4	Adjust the IPv4 IS-IS interface cost according to the BFD session state.	N/A	Enumeration: • **0~16777213**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **exclude**—Exclude from using global BFD configuration. • **none**—Do not adjust cost.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdAdjustCostV6	Adjust the IPv6 IS-IS interface cost according to the BFD session state.	N/A	Enumeration: • **0~16777213**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 16777214 when the BFD session goes down. • **exclude**—Exclude from using global BFD configuration. • **none**—Do not adjust cost.	N/A
BfdAdjustCostSuppressV4	Suppress IPv4 IS-IS interface cost adjustment upon BFD session state changes.	Data structure	Members include: • ResumeInterval. • DetectInterval. • Threshold.	N/A
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
Threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
BfdAdjustCostSuppressV6	Suppress IPv6 IS-IS interface cost adjustment upon BFD session state changes.	Data structure	Members include: • ResumeInterval. • DetectInterval. • Threshold	N/A
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
Threshold	Specify the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of BFD session down events that triggers an interface cost adjustment.		Value range: 1 to 100.	
Frr	Fast reroute messages.	Data structure	Members include: • PrimaryPathDetectV4. • PrimaryPathDetectV6. • LfaDisableLevelV4. • LfaDisableLevelV6. • TiLfaDisableLevelV4. • TiLfaDisableLevelV6. • RemoteLfaDisableLevelV4.	N/A
PrimaryPathDetectV4	BFD work mode for ISIS.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode. • **3**—Exclude from using global BFD configuration.	N/A
PrimaryPathDetectV6	BFD work mode for IPv6 ISIS.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode. • **3**—Exclude from using global BFD configuration.	N/A
LfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
LfaDisableLevelV6	IPv6 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
TiLfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
TiLfaDisableLevelV6	IPv6 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
RemoteLfaDisableLevelV4	IPv4 level type	N/A	Enumeration: • **1**—Level 1 • **2**—Level 2 • **3**—Level-1-2	N/A
Silent	Whether to enable packets receiving and	N/A	Boolean: • **true**—Do not Allow packets receiving and	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sending on the interface		sending on the interface. • **false—**Allow packets receiving and sending on the interface.	
LinkDelay	Configure link delay parameters on an IS-IS interface.	Data structure	Members include: • Average. • Minimal. • Maximal. • Variation.	A property column must exist.
Average	Specify the average link	N/A	Unsigned integer. Value range:1 to 16777215.	N/A
Minimal	Specify the minimum link.	N/A	Unsigned integer. Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously
Maximal	Specify the maximum link.	N/A	Unsigned integer. Value range: 1 to 16777215.	The attribute column Minimal and Maximal must be issued simultaneously.
Variation	Set the acceptable delay variation.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
LinkLoss	Set the loss value.	N/A	Unsigned integer. Value range:0 to 16777214.	N/A
TeMetricFlexAlgo	Configure te metric parameters of algorithm	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
DISPriority	The priority for isis DIS election.	Data structure	Members include: • PriorityLevel1. • PriorityLevel2.	N/A
PriorityLevel1	The level-1 priority for isis DIS election.	N/A	Unsigned integer.	N/A
PriorityLevel2	The level-2 priority for isis DIS election.	N/A	Unsigned integer.	N/A
MPLSTE	Whether or not to enable MPLS TE.	Data structure	Members include: • MPLSTELevel1. • MPLSTELevel2.	N/A
MPLSTELevel1	Whether or not to enable level-1 MPLS TE.	N/A	Boolean	N/A
MPLSTELevel2	Whether or not to enable level-2 MPLS TE.	N/A	Boolean	N/A
IfName	Interface name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 47 characters.	
MetricDelayNormalizeV4	IS-IS link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
MetricDelayNormalizeV6	IPv6 IS-IS link delay normalization settings	Data structure	Members include: • Interval. • Offset.	The Interval value must be specified.
Interval	Interval value for link delay normalization	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Offset	Offset value for link delay normalization	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
PeerHoldMaxCostDuration	Advertise the maximum link cost to neighbors within the specified period of time	N/A	Unsigned integer. Value range: 100 to1000000 (milliseconds)	N/A

ISIS/AdjSids

This table contains IS-IS adjacency-sid information.

XML structure

```
<ISIS>
  <AdjSids>
    <AdjSid>
      <IfIndex></IfIndex>
      <Nexthop></Nexthop>
      <SidType></SidType>
      <Sid></Sid>
      <IfName></IfName>
    </AdjSid>
  </AdjSids>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	AdjSids
Table type	Multi-instance table

Row name	AdjSid
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Nexthop	Nexthop IPv4 address.	Index	String,dotted decimal notation.	This command only supports the broadcast interface. 0.0.0.0 is an invalid value which is used on the P2P interface.
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	This command must be specified.
Sid	Prefix Segment ID	N/A	Unsigned integer.	This command must be specified.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

ISIS/LSPs

This table contains IS-IS lsp information.

XML structure

```
<ISIS>
  <LSPs>
    <LSP>
      <Name></Name>
      <Level></Level>
      <LspID></LspID>
      <Sequence></Sequence>
      <CheckSum></CheckSum>
      <RemainingLifetime></RemainingLifetime>
      <ZeroAgeTime></ZeroAgeTime>
      <Length></Length>
```

```
      <Attach></Attach>
      <Partition></Partition>
      <Overload></Overload>
    </LSP>
  </LSPs>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	LSPs
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Level	Router working level.	Index	Enumeration: • **1**—Level-1. • **2**—Level-2.	N/A
LspID	LSP Identifier	Index	String. Length: 0 to 263 characters.	N/A
Sequence	The sequence number of LSP	N/A	String. Length: 0 to 20 characters.	N/A
CheckSum	The checksum of LSP	N/A	String. Length: 0 to 20 characters.	N/A
RemainingLifetime	The remaining lifetime of LSP	N/A	Unsigned integer.	N/A
ZeroAgeTime	The remaining time before the LSP is deleted.	N/A	Unsigned integer.	N/A
Length	The length of LSP.	N/A	Unsigned integer.	N/A
Attach	The attach bit of LSP.	N/A	Boolean: • **true**—The attach bit is set to 1. • **false—**The attach bit is set to 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Partition	The partition bit of LSP.	N/A	Boolean: • **true**—The partition bit is set to 1. • **false—**The partition bit is set to 0.	N/A
Overload	The overload bit of LSP.	N/A	Boolean: • **true**—The overload bit is set to 1. • **false—**The overload bit is set to 0.	N/A

ISIS/Peers

This table contains IS-IS peer information.

XML structure

```
<ISIS>
  <Peers>
    <Peer>
      <Name></Name>
      <IfIndex></IfIndex>
      <LinkType></LinkType>
      <NeighborSysID></NeighborSysID>
      <IfName></IfName>
      <CircuitID></CircuitID>
      <State></State>
      <HoldTime></HoldTime>
      <NeighborPriority></NeighborPriority>
      <NeighborAreaAddress></NeighborAreaAddress>
      <NeighborUpTime></NeighborUpTime>
      <GracefulRestart>
        <Capable></Capable>
        <RestartingSignal></RestartingSignal>
        <SuppressAdver></SuppressAdver>
      </GracefulRestart>
      <SNPAAddress></SNPAAddress>
      <NeighbourIpAddress></NeighbourIpAddress>
      <LinkLocalAddress></LinkLocalAddress>
      <GlobalUnicastAddress></GlobalUnicastAddress>
    </Peer>
  </Peers>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Ifindex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
LinkType	The link type of the peer	Index	Enumeration: • **1**—Level-1. • **2**—Level-2. • **3**—Level-1-2.	N/A
NeighborSysID	The system ID of the peer	Index	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
CircuitID	The circuit ID of the peer	N/A	String. Length: 0 to 259 characters.	N/A
State	The state of peer	N/A	Enumeration: • **0**—Down. • **1**—Init. • **2**—Up.	N/A
HoldTime	The remaining lifetime of peer	N/A	Unsigned integer.	N/A
NeighborPriority	The priority of peer for DIS elect.	N/A	Unsigned integer. Value range 0 to 127.	Only supported on broadcast network.
NeighborAreaAddress	The area address of neighbor.	N/A	String,	N/A

NeighborUpTime	The time after neighor up.	N/A	String. Format: hh:mm:ss	N/A
GracefulRestart	The state of graceful restart	Data structure	Members include: • Capable. • RestartingSign. • SuppressAdver.	N/A
Capable	Whether of not to enable graceful restart helper	N/A	Boolean: • true—Enable. • false—Disable.	N/A
RestartingSignal	The restarting signal of graceful restart.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
SuppressAdver	The suppress adver signal of graceful restart.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
SNPAAddress	SNPA address of the neighbor.	N/A	String	N/A
NeighbourIpAddress	The IP Address of neighbor.	N/A	String	N/A
LinkLocalAddress	The LinkLocal address of neighbour.	N/A	String	N/A
GlobalUnicastAddress	The IPv6 global address of neighbour.	N/A	String	N/A

ISIS/SRLabels

This table contains IS-IS SRLabel information.

XML structure

```
<ISIS>
  <SRLabels>
    <SRLabel>
      <VRF></VRF>
      <Prefix></Prefix>
      <PrefixLen></PrefixLen>
      <AdvProcID></AdvProcID>
      <InLabel>
        <LabelValue></LabelValue>
      </InLabel>
      <OutLabel>
        <LabelValue></LabelValue>
        <LabelType></LabelType>
        <BackupLabelValue></BackupLabelValue>
        <BackupLabelType></BackupLabelType>
```

```
      </OutLabel>
    </SRLabel>
  </SRLabels>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	SRLabels
Table type	Multi-instance table
Row name	SRLable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Prefix	IPv4 address.	Index	IPv4: String, dotted decimal notation.	N/A
PrefixLen	Mask of IP address.	Index	Unsigned integer. Value range 0 to 32.	N/A
AdvProcID	Advertising Process ID	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
InLabel	The information of segment-routing inlabel	Data structure	Members include: • LabelValue.	N/A
LabelValue	The value of segment-routing inlabel.	N/A	Unsigned integer.	N/A
OutLabel	The information of segment-routing outlabel	Data structure	Members include: • LabelValue • LabelType • BackupLabelValue • BackupLabelType	Repeat supported
LabelValue	The value of segment-routing outlabel.	N/A	Unsigned integer.	N/A
LabelType	The type of segment-routing outlabel	N/A	String: case-sensitive: • Explicit-Null • Implicit-Null • Normal	N/A

			• --	
BackupLabel Value	The value of segment-routing backup outlabel.	N/A	Unsigned integer.	N/A
BackupLabel Type	The type of segment-routing backup outlabel	N/A	String: case-sensitive: • Explicit-Null • Implicit-Null • Normal • --	N/A

ISIS/SRv6Locators

This table contains IS-IS SRv6 Locators information.

XML structure

```
<ISIS>
  <SRv6Locators>
    <SRv6Locator>
      <Name></Name>
      <LocatorName></LocatorName>
      <Level></Level>
      <AutoSidDisable></AutoSidDisable>
      <AutoSidCoc32></AutoSidCoc32>
      <AutoSidCocboth></AutoSidCocboth>
    </SRv6Locator>
  </SRv6Locators>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	SRv6Locators
Table type	Multi-instance table
Row name	SRv6Locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String.	You must create an

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	instance before merge or create type.It must be an unsigned integer in the range of 1 to 65535.
LocatorName	SRv6 locator name.	Index	String. Length: 1 to 31 characters.	N/A
Level	Level type.	N/A	Enumeration: • 1—Level-1. • 2—Level-2. • 3—Level-1-2.	N/A
AutoSidDisable	Auto Sid Disable.	N/A	Boolean: • **true**—Auto sid disable. **false—**Auto sid enable .	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time
AutoSidCoc32	Auto Sid Coc32 Mode.	N/A	Enumeration: • **0**—coc32. • **1**—coc32 additive.	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time
AutoSidCocboth	Auto Sid Cocboth Mode.	N/A	Enumeration: • 1—coc32. • **2**—coc32-none. • **3**—coc32-all. • **4**—all.	AutoSidDisable, AutoSidCoc32, AutoSidCocboth cannot be configured at the same time

ISIS/SRGlobalBlocks

This table contains IS-IS SRGlobalBlock information.

XML structure

```
<ISIS>
  <SRGlobalBlocks>
    <SRGlobalBlock>
      <Name></Name>
      <Level></Level>
      <SystemID></SystemID>
      <SRBase></SRBase>
      <SRRange></SRRange>
    </SRGlobalBlock>
  </SRGlobalBlocks>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	SRGlobalBlocks
Table type	Multi-instance table
Row name	SRGlobalBlock
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The process ID of IS-IS instance.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Level	Router working level.	Index	Enumeration: • **1**—Level-1. • **2**—Level-2.	N/A
SystemID	The system ID of segment-routing global block	Index	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
SRBase	The base of segment-routing global block	N/A	Unsigned integer.	N/A
SRRange	The range of segment-routing global block	N/A	Unsigned integer.	N/A

ISIS/IsisGlobalStatistics

This table contains IS-IS global statistics.

XML structure

```
<ISIS>
  <IsisGlobalStatistics>
    <IsisGlobalStatistic>
      <InstanceCount></InstanceCount>
      <ProcessCount></ProcessCount>
        <LspInfo>
          <TotalLevel1></TotalLevel1>
          <TotalLevel2></TotalLevel2>
        </LspInfo>
```

```
      <RouteInfo>
        <IPv4Level1></IPv4Level1>
        <IPv4Level2></IPv4Level2>
        <IPv6Level1></IPv6Level1>
        <IPv6Level2></IPv6Level2>
      </RouteInfo>
      <InstanceStatistics>
        <InstanceStatistic>
          <VRF></VRF>
          <ProcessCount></ProcessCount>
          <LspInfo>
            <TotalLevel1></TotalLevel1>
            <TotalLevel2></TotalLevel2>
          </LspInfo>
          <RouteInfo>
            <IPv4Level1></IPv4Level1>
            <IPv4Level2></IPv4Level2>
            <IPv6Level1></IPv6Level1>
            <IPv6Level2></IPv6Level2>
          </RouteInfo>
        </InstanceStatistic>
      </InstanceStatistics>
      <PeerDropFromUp></PeerDropFromUp>
    </IsisGlobalStatistic>
  </IsisGlobalStatistics>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	IsisGlobalStatistics
Table type	Multi-instance table
Row name	IsisGlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceCount	Number of instances	N/A	Unsigned integer.	N/A
ProcessCount	Number of processes	N/A	Unsigned integer.	N/A
LspInfo	LSP information	Data structure	Members include:	N/A

			• TotalLevel1. • TotalLevel2.	
TotalLevel1	Number of Level-1 LSPs	N/A	Unsigned integer.	N/A
TotalLevel2	Number of Level-2 LSPs	N/A	Unsigned integer.	N/A
RouteInfo	Route information	Data structure	Members include: • IPv4Level1. • IPv4Level2. • IPv6Level1 • IPv6Level2	N/A
IPv4Level1	Number of IPv4 Level-1 routes	N/A	Unsigned integer.	N/A
IPv4Level2	Number of IPv4 Level-2 routes	N/A	Unsigned integer.	N/A
IPv6Level1	Number of IPv6 Level-1 routes	N/A	Unsigned integer.	N/A
IPv6Level2	Number of IPv6 Level-2 routes	N/A	Unsigned integer.	N/A
InstanceStatistics	Instance statistic information	Sublist	For details of the sublist, refer to the InstanceStatistics table.	N/A
PeerDropFromUp	Statistics about neighbor state changes from UP	N/A	Unsigned integer.	N/A

ISIS/IsisGlobalStatistics/InstanceStatistics

This table contains instance statistics information.

XML structure

Please refer to the XML Structure of ISIS/IsisGlobalStatistics.

Table description

Item	Description
Feature name	ISIS
Table name	InstanceStatistics
Table type	Multi-instance table
Row name	InstanceStatistic
Restrictions	None

Columns

Column	Column	Column	Data type and restrictions	Remarks

name	description	type		
VRF	VPN instance name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
ProcessCount	Total count of processes	N/A	Unsigned integer.	N/A
LspInfo	LSP infomation	Data structure	Members include: • TotalLevel1. • TotalLevel2.	N/A
TotalLevel1	Total count of Level-1 LSPs	N/A	Unsigned integer.	N/A
TotalLevel2	Total count of Level-2 LSPs	N/A	Unsigned integer.	N/A
RouteInfo	Route infomation	Data structure	Members include: • IPv4Level1. • IPv4Level2. • IPv6Level1 • IPv6Level2	N/A
IPv4Level1	Total count of IPv4 Level-1 routes	N/A	Unsigned integer.	N/A
IPv4Level2	Total count of IPv4 Level-2 routes	N/A	Unsigned integer.	N/A
IPv6Level1	Total count of IPv6 Level-1 routes	N/A	Unsigned integer.	N/A
IPv6Level2	Total count of IPv6 Level-2 routes	N/A	Unsigned integer.	N/A

ISIS/Statistics

This table contains IS-IS Statistic information.

XML structure

```
<ISIS>
  <Statistics>
    <Statistic>
      <Name></Name>
      <TopoId></TopoId>
      <Level></Level>
      <IPv4LearntRoutes>
        <Total></Total>
      </IPv4LearntRoutes>
      <IPv4ImportedRoutes>
        <Static></Static>
        <Direct></Direct>
```

```
        <ISIS></ISIS>
        <BGP></BGP>
        <RIP></RIP>
        <OSPF></OSPF>
        <Total></Total>
      </IPv4ImportedRoutes>
    </Statistic>
  </Statistics>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Statistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Level	Router working level.	Index	Enumeration: • **1**—Level-1. • **2**—Level-2.	N/A
IPv4LearntRoutes	IPv4 learnt routes infomation	Data structure	Members include: • Total.	N/A
Total	The total number of learnt routes	N/A	Unsigned integer.	N/A
IPv4ImportedRoutes	IPv4 imported routes infomation	Data structure	Members include: • Static. • Direct. • ISIS • BGP • RIP • OSPF • Total	N/A
Static	The number of route import from	N/A	Unsigned integer.	N/A

	static route			
Direct	The number of route import from direct route	N/A	Unsigned integer.	N/A
ISIS	The number of route import from other IS-IS	N/A	Unsigned integer.	N/A
BGP	The number of route import from BGP	N/A	Unsigned integer.	N/A
RIP	The number of route import from other RIP	N/A	Unsigned integer.	N/A
OSPF	The number of route import from OSPF	N/A	Unsigned integer.	N/A
Total	The total number of imported routes	N/A	Unsigned integer.	N/A

ISIS/SRAdjacencySIDs

This table contains IS-IS SR Adjacency SID information.

XML structure

```
<ISIS>
  <SRAdjacencySIDs>
    <SRAdjacencySID>
      <VRF></VRF>
      <AdjacencySID></AdjacencySID>
      <RequestResult></RequestResult>
      <AdjacencyEntries>
        <AdjacencyEntry>
          <PortType></PortType>
          <Name></Name>
          <IfIndex></IfIndex>
          <Nexthop></Nexthop>
          <SystemID></SystemID>
          <State></State>
          <IfName></IfName>
        </AdjacencyEntry>
      </AdjacencyEntries>
    </SRAdjacencySID>
  </SRAdjacencySIDs>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	SRAdjacencySIDs
Table type	Multi-instance table
Row name	SRAdjacencySID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
AdjacencySID	The value of adjacency SID	Index	Unsigned integer.	N/A
RequestResult	The request result of specified adjacency SID	N/A	Enumeration: • Init. • Succeeded. • Conflicting. • Out-of-range.	N/A
AdjacencyEntries	Information of adjacency entry	Sublist	For details of the sublist, refer to the AdjacencyEntries table.	N/A

ISIS/SRAdjacencySIDs/AdjacencyEntries

This table contains IS-IS adjacency SID entry information.

XML structure

Please refer to the XML Structure of ISIS/SRAdjacencySIDs.

Table description

Item	Description
Feature name	ISIS
Table name	AdjacencyEntries
Table type	Multi-instance table
Row name	AdjacencyEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortType	Type of the port	N/A	Enumeration: • 0—Non-member-port. • 1—Member-port.	N/A
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Nexthop	Next hop address	Index	IPv4: String, dotted decimal notation.	N/A
SystemID	System ID of the adjacency SID	N/A	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
State	State of the adjacency SID	N/A	Enumeration: • Inactive. • Active. • Conflicting.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

ISIS/IPv4Routes

This table contains IS-IS IPv4 route information.

XML structure

```
<ISIS>
  <IsisIPv4Routes>
    <IsisIPv4Route>
      <Name></Name>
      <Level></Level>
      <DestAddress></DestAddress>
      <DestMaskLen></DestMaskLen>
      <InLabel>
        <LabelValue></LabelValue>
        <Readvertisement></Readvertisement>
        <NodeSID></NodeSID>
        <NoPHP></NoPHP>
        <ExplicitNull></ExplicitNull>
```

```
        <AbosuluteSID></AbosuluteSID>
        <LocalSID></LocalSID>
      </InLabel>
      <OutLabel>
        <LabelValue></LabelValue>
        <LabelType></LabelType>
        <SRPrefer></SRPrefer>
      </OutLabel>
    </IsisIPv4Route>
  </IsisIPv4Routes>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	IPv4Routes
Table type	Multi-instance table
Row name	IPv4Route
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Level	The level of IS-IS route	Index	Enumeration: • **1**—Level-1. • **2**—Level-2.	N/A
DestAddress	The destination address of IS-IS route	Index	IPv4: String, dotted decimal notation.	N/A
DestMaskLen	Length of the destination address	Index	Unsigned integer. Value range: 0 to 32.	N/A
InLabel	The inlabel of IS-IS route.	Data structure	Members include: • LabelValue. • Readvertisement. • NodeSID. • NoPHP. • ExplicitNull. • AbosuluteSID. • LocalSID.	N/A
LabelValue	The label value	N/A	Unsigned integer.	N/A

	of inlabel			
Readvertisement.	The Readvertisement signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
NodeSID	The NodeSID signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
NoPHP	The NoPHP signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
ExplicitNull	The ExplicitNull signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
AbosuluteSID	The AbosuluteSID signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
LocalSID	The LocalSID signal of inlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A
OutLabel	The outlabel of isis route.	Data structure	Members include: • LabelValue. • LabelType. • SRPrefer.	Repeat supported.
LabelValue	The label value of outlabel	N/A	Unsigned integer.	N/A
LabelType	The label type of outlabel	N/A	String: case-sensitive: • Explicit-Null • Implicit-Null • Normal • -	N/A
SRPrefer	The segment routing prefer signal of outlabel	N/A	Boolean: • true—Set the bit. • false—Does not set the bit	N/A

ISIS/Redistributes

This table contains IS-IS redistributed route information.

XML structure

```
<ISIS>
  <Redistributes>
    <Redist>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
```

```
      <Protocol></Protocol>
      <RedistName></RedistName>
      <RedistLevelType></RedistLevelType>
      <InheritCost></InheritCost>
      <CostType></CostType>
      <Cost></Cost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <AllowDirect></AllowDirect>
      <Tag></Tag>
      <NoSID></NoSID>
    </Redist>
  </Redistributes>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct. • 2—Static. • 3—RIP. • 4—OSPF. • 5—ISIS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 6—BGP. • 7—EIGRP. • 8—Guard. • 9—UNR.	
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static, Guard, or UNR. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is ISIS, OSPF, EIGRP,or RIP. It must be “all” or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.
RedistLevelType	Redistribute level type.	N/A	Enumeration: • 1—Level 1. • 2—Level 2. • 3—Level-1-2.	N/A
InheritCost	Whether to use the original cost of redistributed routes.	N/A	Boolean: • true—Use the original cost of redistributed routes. • false—Do not use the original cost of redistributed routes.	This column cannot be specified when the CostType column or Cost column exists.
CostType	Redistribute metric type.	N/A	Enumeration: • 1—internal. • 2—external.	This column cannot be specified when the InheritCost column exists.
Cost	Redistribute metric.	N/A	Unsigned integer. Value range: 0 to 4261412864.	This column cannot be specified when the InheritCost column exists. For the styles of narrow, narrow-compatible, and compatible, the cost is in the range of 0 to 63.
RoutePolicyName	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
AllowIBGP	Allow IBGP routes when importing BGP	N/A	Boolean: • true—Import IBGP routes when importing BGP	This column can be specified only when the protocol is BGP.

Column name	Column description	Column type	Data type and restrictions	Remarks
	routes.		routes. • false—Do not import IBGP routes when importing BGP routes.	
AllowDirect	Whether to contain connected routes.	N/A	Boolean: • true—Contain connected routes. • false—Do not contain IBGP routes when importing BGP routes.	This column can be specified only when the protocol is OSPF,ISIS,RIP, EIGRP.
Tag	Tag value.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • true—Exclude SID when importing routes. • false—Do not exclude SID when importing routes.	This column can be specified only when the protocol is OSPF,ISIS. This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/LeakRouteLevel1ToLevel2s

This table contains IS-IS LeakRouteLevel1ToLevel2s information.

XML structure

```
<ISIS>
  <LeakRouteLevel1ToLevel2s>
    <LeakRouteLevel1ToLevel2>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <LeakEnableFlag></LeakEnableFlag>
      <PolicyType></PolicyType>
      <AclNumber></AclNumber>
      <PrefixList></PrefixList>
      <RoutePolicyName></RoutePolicyName>
      <Tag></Tag>
      <NoSID></NoSID>
    </LeakRouteLevel1ToLevel2>
  </LeakRouteLevel1ToLevel2s>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	LeakRouteLevel1ToLevel2s
Table type	Multi-instance table
Row name	LeakRouteLevel1ToLevel2
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
LeakEnableFlag	Enable level-1 to level-2 route filtering.	N/A	Boolean: • true—Enable level-1 to level-2 route filtering. • false—Disable level-1 to level-2 route filtering.	N/A
PolicyType	Route filtering policy type.	N/A	Enumeration: • 1—ACL. • 2—Prefix list. • 3—Route policy.	N/A
AclNumber	The number of ACL.	N/A	Unsigned integer. Value range: 2000 to 3999.	This column can be specified only when the PolicyType value is 1.
PrefixList	Name of prefix list.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 2.
RoutePolicyName	Name of routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 3.
Tag	Tag value.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4294967295.	
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • true—Exclude SID when importing routes. • false—Do not exclude SID when importing routes.	This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/LeakRouteLevel2ToLevel1s

This table contains IS-IS LeakRouteLevel2ToLevel1s information.

XML structure

```
<ISIS>
  <LeakRouteLevel2ToLevel1s>
    <LeakRouteLevel2ToLevel1>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <PolicyType></PolicyType>
      <AclNumber></AclNumber>
      <PrefixList></PrefixList>
      <RoutePolicyName></RoutePolicyName>
      <Tag></Tag>
      <NoSID></NoSID>
    </LeakRouteLevel2ToLevel1>
  </LeakRouteLevel2ToLevel1s>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	LeakRouteLevel2ToLevel1s
Table type	Multi-instance table
Row name	LeakRouteLevel2ToLevel1
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before merge or create type. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
PolicyType	Route filtering policy type.	N/A	Enumeration: • 1—ACL. • 2—Prefix list. • 3—Route policy.	N/A
AclNumber	The number of ACL.	N/A	Unsigned integer. Value range: 2000 to 3999.	This column can be specified only when the PolicyType value is 1.
PrefixList	Name of prefix list.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 2.
RoutePolicyName	Name of routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	This column can be specified only when the PolicyType value is 3.
Tag	Tag value.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
NoSID	Whether to exclude SID when importing routes.	N/A	Boolean: • true—Exclude SID when importing routes. • false—Do not exclude SID when importing routes.	This column can be specified only when the FamilyType is IPv4 unicast.

ISIS/Algorithms

This table contains IS-IS algorithm information.

XML structure

```
<ISIS>
  <Algorithms>
    <Algorithm>
```

```
      <Name></Name>
      <AlgoId></AlgoId>
      <Advertise></Advertise>
      <Priority></Priority>
      <FrrEnable></FrrEnable>
      <ExcludeAny></ExcludeAny>
      <IncludeAll></IncludeAll>
      <IncludeAny></IncludeAny>
      <MetricType></MetricType>
      <FrrTiLfaEnable></FrrTiLfaEnable>
      <FrrMaEnable></FrrMaEnable>
      <FrrMaDelay>
        <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
        <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
      </FrrMaDelay>
      <FrrTiebreaker>
        <LowestCostPrefLevel1></LowestCostPrefLevel1>
        <LowestCostPrefLevel2></LowestCostPrefLevel2>
        <NodeProtectPrefLevel1></NodeProtectPrefLevel1>
        <NodeProtectPrefLevel2></NodeProtectPrefLevel2>
      </FrrTiebreaker>
      <TrustLevelEnable></TrustLevelEnable>
      <SrlgExclude></SrlgExclude>
      <SrMicroloopAvoidEnable></SrMicroloopAvoidEnable>
      <SrMaStrictSidEnable></SrMaStrictSidEnable>
      <SrMicroloopAvoidDelay>
        <RibUpdateDelayLevel1></RibUpdateDelayLevel1>
        <RibUpdateDelayLevel2></RibUpdateDelayLevel2>
      </SrMicroloopAvoidDelay>
    </Algorithm>
  </Algorithms>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Algorithms
Table type	Multi-instance table
Row name	Algorithm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
AlgoId	Algorithm value.	Index	Unsigned integer. Value range: 128 to 255.	N/A
Advertise	Whether to advertise local algorithm.	N/A	Boolean: • **true**—Advertise local algorithm. • **false**—Does not advertise local algorithm.	N/A
Priority	Priority value.	N/A	Unsigned integer. • Value range: 0 to 255.	N/A
FrrEnable	Whether to enable fast-reroute.	N/A	Boolean: • **true**—Enable fast-reroute. • **false**—Does not enable fast-reroute.	N/A
ExcludeAny	Exclude-all affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of ExcludeAny AffinityNames.	N/A
IncludeAll	Include-all affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of IncludeAll AffinityNames.	N/A
IncludeAny	Include-any affinity rules on the algorithm calculation.	N/A	String. It is a comma-separated list of IncludeAny AffinityNames.	N/A
MetricType	Type of metric to be used during the algorithm calculation.	N/A	Enumeration: • **0**—IGP metric. • **1**—Minimum unidirectional link delay. • **2**—TE default metric.	N/A
FrrTiLfaEnable	Whether to enable TI-LFA.	N/A	Boolean: • **true**—Enable TI-LFA. • **false**—Disable TI-LFA.	N/A
FrrMaEnable	Whether to enable microloop avoidance.	N/A	Boolean: • **true**—Enable microloop avoidance. • **false**—Disable microloop avoidance.	N/A
FrrMaDelay	Microloop avoidance configuration for algorithm.	Data structure	Members include: • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RibUpdateDelayLevel1	Microloop avoidance RIB-update-delay time in Level-1.	N/A	Unsigned integer. Value range 1 to 60000.	N/A
RibUpdateDelayLevel2	Microloop avoidance RIB-update-delay time in Level-2.	N/A	Unsigned integer. Value range 1 to 60000.	N/A
FrrTiebreaker	Tiebreaker for an FRR protection mode.	Data structure	Members include: • LowestCostPrefLevel1. • LowestCostPrefLevel2. • NodeProtectPrefLevel1. • NodeProtectPrefLevel2.	N/A
LowestCostPrefLevel1	Preference of link protection in Level-1.	N/A	Unsigned integer. Value range 1 to 255.	N/A
LowestCostPrefLevel2	Preference of link protection in Level-2.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NodeProtectPrefLevel1	Preference of node protection in Level-1.	N/A	Unsigned integer. Value range 1 to 255.	N/A
NodeProtectPrefLevel2	Preference of node protection in Level-2.	N/A	Unsigned integer. Value range 1 to 255.	N/A
TrustLevelEnable	Whether to enable trust-level mapping.	N/A	Boolean: • **true**—Enable trust-level mapping. • **false**—Disable trust-level mapping.	N/A
SrlgExclude	Exclude srlg rules on the algorithm calculation.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SrMicroloopAvoidEnable	Enable SR microloop-avoidance for algorithm	N/A	Enumeration: • **0**—Disable SR microloop avoidance. • **1**—Enable SR microloop avoidance.	N/A
SrMaStrictSidEnabl	Whether to enable segment routing microloop avoidance strict SIDs only.	N/A	Boolean: • **0**—Disable segment routing microloop avoidance strict SIDs only. • **1**—Enable segment routing microloop avoidance strict SIDs only.	N/A
SrMicroloopAvoidDelay	SR Microloop avoidance configuration for	Data structure	Members include: • RibUpdateDelayLevel1. • RibUpdateDelayLevel2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm.			
RibUpdateDelayLevel1	The SR microloop-avoidance RIB-update-delay time for IS-IS SR level-1.	N/A	Unsigned integer. Value range 1 to 60000.	N/A
RibUpdateDelayLevel2	The SR microloop-avoidance RIB-update-delay time for IS-IS SR level-2.	N/A	Unsigned integer. Value range 1 to 60000.	N/A

ISIS/AffinityMaps

This table contains IS-IS AffinityMaps information.

XML structure

```
<ISIS>
  <AffinityMaps>
    <AffinityMap>
      <Name></Name>
      <AttributeName></AttributeName>
      <BitPosition></BitPosition>
    </AffinityMap>
  </AffinityMaps>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	AffinityMaps
Table type	Multi-instance table
Row name	AffinityMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
AttributeName	Name of attribute.	Index	String. Length: 1 to 32 characters.	N/A
BitPosition	Bitposion of attribute	N/A	Unsigned integer. Value range: 0 to 255.	N/A

ISIS/IfAffinitys

This table contains IS-IS IfAffinitys information.

XML structure

```
<ISIS>
  <IfAffinitys>
    <IfAffinity>
      <IfIndex></IfIndex>
      <Name></Name>
      <AffinityName></AffinityName>
      <IfName></IfName>
    </IfAffinity>
  </IfAffinitys>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	IfAffinitys
Table type	Multi-instance table
Row name	IfAffinity
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Name	Instance name	Index	String. Length: 1 to 31 characters	It must be an unsigned integer in the range of 1 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				65535.
AffinityName	Set affinity attribute on the interface	N/A	String. It is a comma-separated list of AffinityNames.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

ISIS/PrefixSidV4

This table contains IS-IS PrefixSid information.

XML structure

```
<ISIS>
  <PrefixSidV4>
    <PrefixSid>
      <IfIndex></IfIndex>
      <FlexAlgo></FlexAlgo>
      <SidType></SidType>
      <Sid></Sid>
      <ExplicitNull></ExplicitNull>
      <PHP></PHP>
      <NFlagClear></NFlagClear>
      <IfName></IfName>
    </PrefixSid>
  </PrefixSidV4>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	PrefixSidV4
Table type	Multi-instance table
Row name	PrefixSid
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
FlexAlgo	Algorithm value	Index	Unsigned integer.. Value range:0, 128 to 255.	N/A
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: • **true**—The upstream neighbor replaces the prefix SID with an explicit null label. • **false—**The upstream neighbor does not replace the prefix SID with an explicit null label.	N/A
PHP	Penultimate hop popping flag	N/A	Boolean: • **true**—Pops the penulimate hop. • **false**—Does not pop the penulimate hop.	N/A
NFlagClear	Clear the N-flag	N/A	Boolean: • **true**—Clears the N-flag for the prefix SID. • **false**—Does not clear the N-flag for the prefix SID.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

ISIS/RedistBiers

This table contains IS-IS redistributed BIER information.

XML structure

```
<ISIS>
  <RedistBiers>
    <RedistBier>
```

```
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </RedistBier>
  </RedistBiers>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	RedistBiers
Table type	Multi-instance table
Row name	RedistBier
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • **1**—IPv4 unicast. • **2**—IPv6 unicast.	Only IPv6 unicast is supported now.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • **1**—BGP.	Only BGP is supported now.
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be “all” or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.

ISIS/Summaries

This table contains IS-IS Summaries information.

XML structure

```
<ISIS>
  <Summaries>
    <Summary>
      <Name></Name>
      <FamilyType></FamilyType>
      <TopoId></TopoId>
      <Prefix></Prefix>
      <PrefixLen></PrefixLen>
      <AvoidFeedback></AvoidFeedback>
      <GenerateNull0></GenerateNull0>
      <Level></Level>
      <Tag></Tag>
      <AlgoId></AlgoId>
      <Explicit></Explicit>
    </Summary>
  </Summaries>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	Summaries
Table type	Multi-instance table
Row name	Summary
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				65535.
FamilyType	Address Family Identifier.	Index	Enumeration: • 1—IPv4 unicast. • 2—IPv6 unicast.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	Only 0 is supported now.
Prefix	Summary address.	Index	String,IPv4 address or IPv6 address.	N/A
PrefixLen	Summary address prefix length.	Index	Unsigned integer. Value range: 0 to 32(IPv4),0 to 128(IPv6).	The maximum length of IPv4 is 32. The maximum length of IPv6 is 32.
AvoidFeedback	Avoid learning this summary route through SPF.	N/A	Boolean: • **true**—Avoid learning this summary route through SPF. • **false**—Do not Avoid learning this summary route through SPF.	N/A
GenerateNull0	Generate the discard route for preventing route loops.	N/A	Boolean: • **true**—Generate the discard route for preventing route loops. • **false**—Do not Generate the discard route for preventing route loops.	N/A
Level	Aggregating routes level.	N/A	Enumeration: • 1—Level-1. • 2—Level-2. • 3—Level-1-2.	N/A
Tag	Set tag for summarized routes.	N/A	Unsigned integer. Value range: 1 to 4294967295.	It can only be set as an unsigned integer in the range of 1 to 4294967295.
AlgoId	Flexible algorithm ID.	N/A	Unsigned integer. Value range: 0,128 to 255.	N/A
Explicit	Configure summary the same algorithms.	N/A	Boolean: • **true**—Configure summary the same algorithms. • **false**—Do not Configure summary the same algorithms.	This column can be specified only when the AlgoId is in the range of 128 to 255.

Contents

ISIS 2
ISIS/ Interfaces 2
ISIS/VRFs 3
ISIS/Familys 5
ISIS/ Instances 7
ISIS/ AdjSids 8
ISIS/ Redistributes 8
ISIS/ LeakRouteLevel1ToLevel2s 9
ISIS/ LeakRouteLevel2ToLevel1s 10
ISIS/ Algorithms 10
ISIS/AffinityMaps 10
ISIS/IfAffinitys 11
ISIS/ PrefixSidV4 11
ISIS/ RedistBiers 11
ISIS/ Summaries 12

ISIS

ISIS/ Interfaces

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn't start. Isis进程未启动。
The specified IS-IS process does not exist. 指定IS-IS进程不存在。	The specified IS-IS process does not exist. 指定IS-IS进程不存在。
The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。	The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。
Cannot configure the IS-IS process. The IS-IS process is performing NSR. IS-IS进程正在进行NSR操作，无法配置该IS-IS进程。	Cannot configure the IS-IS process. The IS-IS process is performing NSR. IS-IS进程正在进行NSR操作，无法配置该IS-IS进程。
The interface isn't a loopback interface. 接口不是loopback口。	The interface isn't a loopback interface. 接口不是loopback口。
The command is only supported on broadcast interfaces. 仅广播类型的接口支持该配置。	The command is only supported on broadcast interfaces. 仅广播类型的接口支持该配置。
No traditional IS-IS is enabled on the interface. 当前接口未使能传统IS-IS。	No traditional IS-IS is enabled on the interface. 当前接口未使能传统IS-IS。
You must specify EnableNameV4. 需要指定EnableNameV4属性列。	You must specify EnableNameV4. 需要指定EnableNameV4属性列。
You must specify EnableNameV6. 需要指定EnableNameV6属性列。	You must specify EnableNameV6. 需要指定EnableNameV6属性列。
You must specify EnableNameV4 or EnableNameV6. 需要指定EnableNameV4或EnableNameV6属性列。	You must specify EnableNameV4 or EnableNameV6. 需要指定EnableNameV4或EnableNameV6属性列。
The maximum value must be greater than the minimum value. 时延参数的最大值必须大于最小值。	The maximum value must be greater than the minimum value. 时延参数的最大值必须大于最小值。
Maximum value and minimum value must be issued simultaneously minimum value. 时延参数的最大值和最小值必须同时下发。	Maximum value and minimum value must be issued simultaneously minimum value. 时延参数的最大值和最小值必须同时下发。
You cannot set the BfdEnableV4 and BfdExcludeV4 columns to true at the same time. BfdEnableV4 与 BfdExcludeV4 属性列不能同时配置为 true。	You cannot set the BfdEnableV4 and BfdExcludeV4 columns to true at the same time. BfdEnableV4 与 BfdExcludeV4 属性列不能同时配置为 true。
You cannot set the BfdEnableV6	You cannot set the BfdEnableV6

and BfdExcludeV6 columns to true at the same time. BfdEnableV6 与 BfdExcludeV6 属性列不能同时配置为 true。	and BfdExcludeV6 columns to true at the same time. BfdEnableV6 与 BfdExcludeV6 属性列不能同时配置为 true。
Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when Metric-link-loss is enabled for IS-IS. 当进程使能Metric-link-loss时，Cost style必须是wide、compatible或wide-compatible。	Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when Metric-link-loss is enabled for IS-IS. 当进程使能Metric-link-loss时，Cost style必须是wide、compatible或wide-compatible。
When the suppression function of the Metric-link-loss is configured,Time ThresholdPercent ThresholdAbsolute must be issued simultaneously. 丢包率发布抑制定时器、丢包率变化率的抑制阈值、丢包率变化绝对值的抑制阈值必须同时下发。	When the suppression function of the Metric-link-loss is configured,Time ThresholdPercent ThresholdAbsolute must be issued simultaneously. 丢包率发布抑制定时器、丢包率变化率的抑制阈值、丢包率变化绝对值的抑制阈值必须同时下发。
You must specify the Interval column. 需要指定 Interval 属性列。	You must specify the Interval column. 需要指定 Interval 属性列。
The Offset value must be smaller than the Interval value. Offset 属性列的值必须小于 Interval 属性列的值。	The Offset value must be smaller than the Interval value. Offset 属性列的值必须小于 Interval 属性列的值。

ISIS/VRFs

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn’t start. Isis进程未启动。
The maximum value must be greater than the minimum value. 最大值小于等于最小值。	The maximum value must be greater than the minimum value. 最大值小于等于最小值。
Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when MPLS SR is enabled for IS-IS. 当进程使能SR MPLS时，Cost style 必须是wide、compatible或wide-compatible。	Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when MPLS SR is enabled for IS-IS. 当进程使能SR MPLS时，Cost style 必须是wide、compatible或wide-compatible。
The SRGB is invalid. It must contain the configured prefix SIDs. 已配置的prefix-SID值不在目前配置的SRGB范围内。	The SRGB is invalid. It must contain the configured prefix SIDs. 已配置的prefix-SID值不在目前配置的SRGB范围内。
IS-IS进程已存在网络实体名称，无法修改系统ID。 The IS-IS process is already configured with a NET. Cannot change the system ID.	IS-IS进程已存在网络实体名称，无法修改系统ID。 The IS-IS process is already configured with a NET. Cannot change the system ID.
A maximum of three NETs with different area IDs and the same system ID can be configured. 最多允许配置三个区域ID不同、系统ID相同的网络实体名称。	A maximum of three NETs with different area IDs and the same system ID can be configured. 最多允许配置三个区域ID不同、系统ID相同的网络实体名称。

Can't enable MPLS TE for IS-IS when the cost style isn't WIDE,COMPATIBLE,or WIDE-COMPATIBLE. 当进程使能MPLS TE时，Cost style 必须是wide、compatible或wide-compatible。	Can't enable MPLS TE for IS-IS when the cost style isn't WIDE,COMPATIBLE,or WIDE-COMPATIBLE. 当进程使能MPLS TE时，Cost style 必须是wide、compatible或wide-compatible。
The TE feature is not configured. 未配置TE。	The TE feature is not configured. 未配置TE。
When the SetType property is specified as 1, this property column is not allowed to be configured. 当SetType属性指定为1时，不允许配置此属性列。	When the SetType attribute is specified as 1, only the AllowInterLevel, AllowExternal attribute column can be carried. 当SetType属性指定为1时，只能携带AllowInter和AllowExternal属性列。
This property column is not allowed to be configured when the SetType attribute is specified as 2 or 4. 当SetType属性指定为2或4时，不允许配置此属性列。	When the SetType attribute is specified as 2 or 4, only AllowInterLevel, AllowExternal, and Timeout attribute columns can be carried. 当SetType属性指定为2或4时，只能携带AllowInterLevel , AllowExternal, Timeout属性列。
When the SetType attribute of SetOverload is specified as 3, the NbrSystemId attribute must be carried. 当SetOverload的SetType属性指定为3时，必须携带NbrSystemId属性。	When the SetType attribute of SetOverload is specified as 3, the NbrSystemId attribute must be carried. 当SetOverload的SetType属性指定为3时，必须携带NbrSystemId属性。
When the SetType property is specified as 0, this property column is not allowed to be configured. 当SetOverload的SetType属性指定为0时，只能携带SetOverload组下的SetType属性列。	When the SetType attribute is specified as 0, only the SetType column can be carried. 当SetOverload的SetType属性指定为0时，只能携带SetOverload组下的SetType属性列。
The member of SetType must be specified.When set the SetOverload. 配置SetOverload时，必须携带SetType属性列。	The member of SetType must be specified.When set the SetOverload. 当配置SetOverload时,这个SetType属性列必须携带。
When the AdjustCost property is specified as 0 or 1, this property column is not allowed to be configured. 当AdjustCost的值配置为0或1时，不允许携带此属性列。	When the AdjustCost property is specified as 0 or 1, this AdjustCostValue column is not allowed to be configured. 当AdjustCost的值配置为0或1时，不允许携带AdjustCostValue属性列。
You must carry the AdjustCostValue attribute column when the value of the AdjustCost is configured to 2. 当AdjustCost的值配置为2时，必须携带AdjustCostValue属性列。	You must carry the AdjustCostValue attribute column when the value of the AdjustCost is configured to 2. 当AdjustCost的值配置为2时，必须携带AdjustCostValue属性列。
Deleting NbrSystemId attributes alone is not supported. 不支持单独删除NbrSystemId属性。	Deleting NbrSystemId attributes alone is not supported. 不支持单独删除NbrSystemId属性。
Configuring the AdjustCostValue attribute alone is not supported. 不支持单独配置AdjustCostValue属性列。	Configuring the AdjustCostValue attribute alone is not supported. 不支持单独配置AdjustCostValue属性列。
Time ThresholdPercent ThresholdAbsolute must be issued simultaneously. 时延发布抑制定时器、时延变化率的抑制阈值、时延变化绝对值的抑制阈值必须同时下发。	Time ThresholdPercent ThresholdAbsolute must be issued simultaneously. 时延发布抑制定时器、时延变化率的抑制阈值、时延变化绝对值的抑制阈值必须同时下发。
Cost style must be wide, compatible or wide-compatible.	When you distribute some configurations, you must first issue the cost style as wide, compatible or wide compatible.

配置网络性能参数时，链路开销值类型必须为wide、compatible或wide-compatible。	当下发网络性能参数的配置时，必须首先下发Cost style为wide、compatible或wide-compatible的配置。
BIER can be enabled for only one IS-IS process. 只支持在一个IS-IS进程上使能BIER。	BIER can be enabled for only one IS-IS process. 只支持在一个IS-IS进程上使能BIER。
BIER is supported only in the public network. 只支持在公网IS-IS进程中使能BIER。	BIER is supported only in the public network. 只支持在公网IS-IS进程中使能BIER。
Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when BIER is enabled for IS-IS. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。	Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when BIER is enabled for IS-IS. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。
BIER is available for only the WIDE, COMPATIBLE or WIDE-COMPATIBLE cost styles. 当进程使能BIER时，Cost style 必须是wide、compatible或wide-compatible	BIER is available for only the WIDE, COMPATIBLE or WIDE-COMPATIBLE cost styles. 当进程使能BIER时，Cost style 必须是wide、compatible或wide-compatible。
Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when Srv6AdvertisEnable is not configured as default(Disable Advertise). 已经存在Srv6AdvertisEnable的非默认配置，不允许将Cost style修改为wide、compatible或wide-compatible之外的类型。	Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when Srv6AdvertisEnable is not configured as default(Disable Advertise). 已经存在Srv6AdvertisEnable的非默认配置，不允许将Cost style修改为wide、compatible或wide-compatible之外的类型。

ISIS/Familys

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn’t start. Isis进程未启动。
Can't enable MPLS SR for IS-IS when the cost style isn't WIDE, COMPATIBLE, or WIDE-COMPATIBLE. cost style未配置为wide、compatible或wide-compatible。	Can't enable MPLS SR for IS-IS when the cost style isn't WIDE, COMPATIBLE, or WIDE-COMPATIBLE. cost style未配置为wide、compatible或wide-compatible。
The command only supports the IPv4 address family. 该配置仅支持IPv4地址族。	The command only supports the IPv4 address family. 该配置仅支持IPv4地址族。
The enable, ecmpType, and policy attributes of LFA cannot coexist. LFA的enable、ecmpType和policy属性不能共存。	The enable, ecmpType, and policy attributes of LFA cannot coexist. LFA的enable、ecmpType和policy属性不能共存。
The host and policy attributes of TI-LFA cannot coexist. TI-LFA的host属性不能与policy共存。	The host and policy attributes of TI-LFA cannot coexist. TI-LFA的host属性不能与policy共存。
SRLSP is not configured. 未配置SRLSP。	SRLSP is not configured. 未配置SRLSP。
TI-LFA is not configured. 未配置TI-LFA功能。	TI-LFA is not configured. 未配置TI-LFA功能。

When the SetType property is specified as 1, this property column is not allowed to be configured. 当SetType属性指定为1时，不允许配置此属性列。	When the SetType attribute is specified as 1, only the AllowInterLevel, AllowExternal attribute column can be carried. 当SetType属性指定为1时，只能携带AllowInterLevel和AllowExternal属性列。
This property column is not allowed to be configured when the SetType attribute is specified as 2 or 4. 当SetType属性指定为2或4时，不允许配置此属性列。	When the SetType attribute is specified as 2 or 4, only AllowInterLevel, AllowExternal, and Timeout attribute columns can be carried. 当SetType属性指定为2或4时，只能携带AllowInterLevel、AllowExternal或Timeout属性列。
When the SetType attribute of SetOverload is specified as 3, the NbrSystemId attribute must be carried. 当SetOverload的SetType属性指定为3时，必须携带NbrSystemId属性。	When the SetType attribute of SetOverload is specified as 3, the NbrSystemId attribute must be carried. 当SetOverload的SetType属性指定为3时，必须携带NbrSystemId属性。
The command only supports the Ipv6 address family. 仅IPv6地址族下支持此配置。	The command only supports the Ipv6 address family. 仅IPv6地址族下支持此配置。
When the SetType property is specified as 0, this property column is not allowed to be configured. 当SetOverload的SetType属性指定为0时，只能携带SetOverload组下的SetType属性列。	When the SetType attribute is specified as 0, only the SetType column can be carried. 当SetOverload的SetType属性指定为0时，只能携带SetOverload组下的SetType属性列。
The member of SetType must be specified.When set the SetOverload. 配置SetOverload时，必须携带SetType属性列。	The member of SetType must be specified.When set the SetOverload. 当配置SetOverload时，必须携带SetType属性列。
When the AdjustCost property is specified as 0 or 1, this property column is not allowed to be configured. 当AdjustCost的值配置为0或1时，不允许携带此属性列。	When the AdjustCost property is specified as 0 or 1, this AdjustCostValue column is not allowed to be configured. 当AdjustCost的值配置为0或1时，不允许携带AdjustCostValue属性列。
You must carry the AdjustCostValue attribute column when the value of the AdjustCost is configured to 2. 当AdjustCost的值配置为2时，必须携带AdjustCostValue属性列。	You must carry the AdjustCostValue attribute column when the value of the AdjustCost is configured to 2. 当AdjustCost的值配置为2时，必须携带AdjustCostValue属性列。
Deleting NbrSystemId attributes alone is not supported. 不支持单独删除NbrSystemId属性。	Deleting NbrSystemId attributes alone is not supported. 不支持单独删除NbrSystemId属性。
Configuring the AdjustCostValue attribute alone is not supported. 不支持单独配置AdjustCostValue属性列。	Configuring the AdjustCostValue attribute alone is not supported. 不支持单独配置AdjustCostValue属性列。
The command only supports the IPv6 address family. 该配置仅支持IPv6地址族。	The command only supports the IPv6 address family. 该配置仅支持IPv6地址族。
Invalid IPv6 address. 无效的IPv6地址。	Invalid IPv6 address. 无效的IPv6地址。
Cost style must be wide, compatible or wide-compatible. 配置网络性能参数时，链路开销值类型必须为wide、compatible或wide-compatible。	When you distribute some configurations, you must first issue the cost style as wide, compatible or wide compatible. 当下发网络性能参数的配置时，必须首先下发Cost style为wide、

	compatible或wide-compatible的配置。
The SuppressOldTE column cannot be configured when the AdvertiseTE column is not specified or is specified as FALSE. AdvertiseTE属性列未指定或指定为FALSE时，不允许配置SuppressOldTE属性列。	The SuppressOldTE column cannot be configured when the AdvertiseTE column is not specified or is specified as FALSE. AdvertiseTE属性列未指定或指定为FALSE时，不允许配置SuppressOldTE属性列。
The SuppressOldSRLG column cannot be configured when the AdvertiseSRLG column is not specified or is specified as FALSE. AdvertiseSRLG属性列未指定或指定为FALSE时，不允许配置SuppressOldSRLG属性列。	The SuppressOldSRLG column cannot be configured when the AdvertiseSRLG column is not specified or is specified as FALSE. AdvertiseSRLG属性列未指定或指定为FALSE时，不允许配置SuppressOldSRLG属性列。
The LevelTilfaPrefer column cannot be configured when the LevelTilfaEnable column is not specified or is specified as FALSE. LevelTilfaEnable属性列未指定或指定为FALSE时，不允许配置LevelTilfaPrefer属性列。	The LevelTilfaPrefer column cannot be configured when the LevelTilfaEnable column is not specified or is specified as FALSE. LevelTilfaEnable属性列未指定或指定为FALSE时，不允许配置LevelTilfaPrefer属性列。
The Srv6AdvertisEnable configuration is not supported in VPN IS-IS process. 属于VPN实例的IS-IS进程下，不支持配置Srv6AdvertisEnable属性列。	The Srv6AdvertisEnable configuration is not supported in VPN IS-IS process. 属于VPN实例的IS-IS 进程下，不支持配置Srv6AdvertisEnable属性列。
To config Srv6AdvertisEnable column,Cost style must be wide, compatible or wide-compatible. Cost style必须是wide、compatible或wide-compatible时，才能配置Srv6AdvertisEnable属性列。	To config Srv6AdvertisEnable column,Cost style must be wide, compatible or wide-compatible. Cost style必须是wide、compatible或wide-compatible时，才能配置Srv6AdvertisEnable属性列。
You must specify the Interval column. 需要指定 Interval 属性列。	You must specify the Interval column. 需要指定 Interval 属性列。
The Offset value must be smaller than the Interval value. Offset 属性列的值必须小于 Interval 属性列的值。	The Offset value must be smaller than the Interval value. Offset 属性列的值必须小于 Interval 属性列的值。

ISIS/ Instances

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn’t start. Isis进程未启动。
The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。	The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。
The IS-IS process has already been attached to another VPN instance. 已为IS-IS进程指定其所属的VPN。	The IS-IS process has already been attached to another VPN instance. 已为IS-IS进程指定其所属的VPN。
Lite IS-IS process cannot be modified to a normal IS-IS process. 轻量级IS-IS进程不能修改为普通IS-IS进程。	The lite IS-IS process already exists，the process cannot be modified to a normal IS-IS process. 轻量级进程已存在，不能配置为普通进程。

Normal IS-IS process cannot be modified to a lite IS-IS process. 普通IS-IS进程不能修改为轻量级IS-IS进程。	The normal IS-IS process already exists，the process cannot be modified to a lite IS-IS process. 普通进程已存在，不能重复配置轻量级进程。

ISIS/ AdjSids

Message	Explanation
The next hop address is required on a broadcast interface. 广播网类型接口需要配置下一跳地址。	The next hop address is required on a broadcast interface. 广播网类型接口需要配置下一跳地址。
Invalid next hop address. 下一跳无效。	Invalid next hop address. 下一跳无效。
The next hop address is not allowed on a P2P interface. P2P类型接口不能配置下一跳地址。	The next hop address is not allowed on a P2P interface. P2P类型接口不能配置下一跳地址。
The specified adjacency SID has already assigned. 该邻接标签已分配。	The specified adjacency SID has already assigned. 该邻接标签已分配。
Please delete the IS-IS adjacency SID configurations before setting the network type of the interface. 配置接口类型需要先删除IS-IS Adjacency SID邻接标签配置。	Please delete the IS-IS adjacency SID configurations before setting the network type of the interface. 配置接口类型需要先删除IS-IS Adjacency SID邻接标签配置。
Segment routing configuration is not supported. 不支持SR相关配置。	Segment routing configuration is not supported. 不支持SR相关配置。

ISIS/ Redistributes

Message	Explanation
The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is BGP. 对于BGP协议，redist-name列的值必须为all或者1到4294967295之间的整数。	The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is BGP. 对于BGP协议，redist-name列的值必须为'all'或者1到4294967295之间的整数。
The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 65535 when the value of protocol column is ISIS, OSPF or RIP. 对于IS-IS、OSPF和RIPng协议，redist-name列的值必须为'all'或者1到65535之间的整数。	The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 65535 when the value of protocol column is ISIS, OSPF or RIP. 对于IS-IS、OSPF和RIPng协议，redist-name列的值必须为'all'或者1到65535之间的整数。
The redist-name column must be empty when the value of protocol column is direct, static, or unr. 对于直连路由、静态路由和UNR路由，redist-name列必须为空。	The redist-name column must be empty when the value of protocol column is direct, static, or unr. 对于直连路由、静态路由和UNR路由，redist-name列必须为空。
The redist-name column is required when the value of protocol column is BGP, ISIS, OSPF or RIP. 对于BGP、IS-IS、OSPF和RIPng协议，redist-name	The redist-name column is required when the value of protocol column is BGP, ISIS, OSPF or RIP. 对于BGP、IS-IS、OSPF和RIPng协议，redist-name列不能为空。

列不能为空。	
Import isn't allowed within the same instance. 不能从相同的进程引入路由。	Import isn't allowed within the same instance. 不能从相同的进程引入路由。
Cannot configure inherit-cost and config metric at the same time. 使用引入路由的原有开销值时，不能再为其设置开销值。反之亦然。	Cannot configure inherit-cost and config metric at the same time. 使用引入路由的原有开销值时，不能再为其设置开销值。反之亦然。。
This column can be specified only when the protocol is BGP. 只有协议为BGP时，才能配置该属性列。	This column can be specified only when the protocol is BGP. 只有协议为BGP时，才能配置该属性列。
This column can be specified only when the protocol is RIP,OSPF,ISIS or EIGRP. 只有协议为RIP、OSPF、IS-IS或EIGRP时，才能配置该属性列。	This column can be specified only when the protocol is RIP ,OSPF,ISIS or EIGRP. 配置该属性列时协议必须是RIP,OSPF,ISIS或者EIGRP。
This column can be specified only when the protocol is OSPF or ISIS, and the FimalyType is IPv4 unicast. 只有协议为OSPF或IS-IS，且在协议的IPv4地址族下时，才能配置该属性列。	This column can be specified only when the protocol is OSPF or ISIS, and the FimalyType is IPv4 unicast. 只有协议为OSPF或IS-IS，且在协议的IPv4地址族下时，才能配置该属性列。
The Protocol Guard is not supported now. 暂不支持Guard协议。	The Protocol Guard is not supported now. 暂不支持Guard协议。
Only 0 is supported by TopoID now. 当前仅支持值为0的拓扑序号。	Only 0 is supported by TopoID now. 当前仅支持值为0的拓扑序号。
Can not config redist-name column as 'all',while the FimalyType is IPv6 unicast. 在IPv6地址族下，不能将redist-name列配置为all。	Can not config redist-name column as 'all',while the FimalyType is IPv6 unicast. 在IPv6地址族下，不能将redist-name列配置为all。

ISIS/ LeakRouteLevel1ToLevel2s

Message	Explanation
Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。	Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。
The Policytype must be matched with PrefixList, RoutePolicyName or AclNumber. Policytype与输入的策略类型不匹配。	The Policytype must be matched with PrefixList, RoutePolicyName or AclNumber. Policytype与输入的策略类型不匹配。
This column can be specified only when the LeakEnalbeFlag is true. 只有将LeakEnalbeFlag置为1，才能配置该属性列。	This column can be specified only when the LeakEnalbeFlag is true. 只有将LeakEnalbeFlag置为1，才能配置该属性列。
Only when LeakEnalbeFlag is specified at the same time can this column be configured. 只有指定了LeakEnalbeFlag，才能配置该属性列。	Only when LeakEnalbeFlag is specified at the same time can this column be configured. 只有指定了LeakEnalbeFlag，才能配置该属性列。

ISIS/ LeakRouteLevel2ToLevel1s

Message	Explanation
Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。	Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。
The Policytype must be matched with PrefixList, RoutePolicyName or AclNumber. Policytype与输入的策略类型不匹配。	The Policytype must be matched with PrefixList, RoutePolicyName or AclNumber. Policytype与输入的策略类型不匹配。

ISIS/ Algorithms

Message	Explanation
Cost style must be wide, compatible or wide-compatible. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。	Cost style must be wide, compatible or wide-compatible. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。
Affinity map does not exist 未配置affinity-map。	Affinity map does not exist 未配置affinity-map。
The specified affinity attribute name includes more than 32 characters. 配置的单个亲和属性值长度超过32个字符。	An affinity attribute name can include a maximum of 32 characters. 单个亲和属性值的最大长度为32个字符。
The number of specified affinity attributes has exceeded 32. 配置的亲和属性的个数超过32个。	You can specify a maximum of 32 affinity attributes. 最多支持配置32个亲和属性。
Affinity attribute duplication exists. 重复的亲和属性值。	You cannot specify an affinity attribute twice. 不允许配置重复的亲和属性值。
Invalid SRLG number. 无效的SRLG值。	Invalid SRLG number. 无效的SRLG值。
The number of specified SRLGs has exceeded 32. 配置的SRLG值超过32个。	You can specify a maximum of 32 SRLG numbers. 最多支持配置32个SRLG值。
SRLG number duplication exists. 重复的SRLG值。	You cannot specify an SRLG number twice. 不允许配置重复的SRLG值。

ISIS/AffinityMaps

Message	Explanation
Cost style must be wide, compatible or wide-compatible. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。	Cost style must be wide, compatible or wide-compatible. Cost style 必须是wide、compatible或wide-compatible才能执行该配置。

Can't delete Affinity-map when it is configured for flex-algo. Flex-algo下使用了Affinity-map，不能删除	Can't delete Affinity-map when it is configured for flex-algo. Flex-algo下使用了Affinity-map，不能删除
Can't delete Affinity-map when it is configured for interface. 接口下使用了Affinity-map，不能删除	Can't delete Affinity-map when it is configured for interface. 接口下使用了Affinity-map，不能删除
Different affinity attribute names cannot be mapped to the same bit position. Affinity-map 比特映射冲突	Different affinity attribute names cannot be mapped to the same bit position. Affinity-map 比特映射冲突
BitPosition attribute column is required. 需要补齐BitPosition属性列。	BitPosition attribute column is required. 需要补齐BitPosition属性列。

ISIS/IfAffinitys

Message	Explanation
Affinity map does not exist 未配置affinity-map。	Affinity map does not exist 未配置affinity-map。
AffinityName attribute column is required. 需要补齐AffinityName属性列。	AffinityName attribute column is required. 需要补齐AffinityName属性列。

ISIS/ PrefixSidV4

Message	Explanation
The interface isn't a loopback interface. 接口不是loopback口。	The interface isn't a loopback interface. 接口不是loopback口。
The prefix SID already exists. 该SID已配置。	The prefix SID already exists. 该SID已配置。
The prefix SID is out of the SRGB range. 该prefix SID 超出SRGB范围。	The prefix SID is out of the SRGB range. 该prefix SID 超出SRGB范围。
If you set the Explicit-null value to 1, you cannot set the PHP column value to 0. 指定Explicit-null属性列为1时，不能将PHP属性列指定为0。	If you set the Explicit-null value to 1, you cannot set the PHP column value to 0. 指定Explicit-null属性列为1时，不能将PHP属性列指定为0。
No traditional IS-IS is enabled on the interface. 当前接口未使能传统IS-IS。	No traditional IS-IS is enabled on the interface. 当前接口未使能传统IS-IS。

ISIS/ RedistBiers

Message	Explanation
The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 4294967295	The value of redist-name column must be 'all' or an unsigned integer in the range of 1 to 4294967295 when the value of

when the value of protocol column is BGP. 对于BGP协议，redist-name列的值必须为all，或者1到4294967295之间的整数。	protocol column is BGP. 对于BGP协议，redist-name列的值必须为all，或者1到4294967295之间的整数。
The redist-name column is required. redist-name列不能为空。	The redist-name column is required. redist-name列不能为空。
Only IPv6 address family is supported now. 当前仅支持IPv6地址族。	Only IPv6 address family is supported now. 当前仅支持IPv6地址族。
Only 0 is supported by TopoID now. 当前仅支持值为0的拓扑序号。	Only 0 is supported by TopoID now. 当前仅支持值为0的拓扑序号。

ISIS/ Summaries

Message	Explanation
Incorrect network address : invalid address configured. 错误的IP地址：配置的地址为无效地址。	Incorrect network address : invalid address configured. 错误的IP地址：配置的地址为无效地址。
Incorrect network address : loopback address configured. 错误的IP地址：配置的地址为内部环回地址。	Incorrect network address : loopback address configured. 错误的IP地址：配置的地址为内部环回地址。
Incorrect network address : multicast address configured. 错误的IP地址：配置的地址为组播地址。	Incorrect network address : multicast address configured. 错误的IP地址：配置的地址为组播地址。
Incorrect network address : e class address configured. 错误的IP地址：配置的地址为E类地址。	Incorrect network address : e class address configured. 错误的IP地址：配置的地址为E类地址。
Incorrect network address : link local address configured. 错误的IP地址：配置的地址为链路本地地址。	Incorrect network address : link local address configured. 错误的IP地址：配置的地址为链路本地地址。
Incorrect network address : site local address configured. 错误的IP地址：配置的地址为站点本地地址。	Incorrect network address : site local address configured. 错误的IP地址：配置的地址为站点本地地址。
AlgoId must be 128 to 255 when Explicit is configured. 配置Explicit属性列时，AlgoId必须为128～255。	AlgoId must be 128 to 255 when Explicit is configured. 要配置Explicit属性列，AlgoId必须为128～255。
IPv4 mask length configuration is too long, the longest is 32. 配置的掩码长度超长，最长为32。	IPv4 mask length configuration is too long, the longest is 32. 配置的掩码长度配置超长，最长为32。
Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。	Invalid TopoID and only 0 is supported now. 无效的拓扑ID，当前只支持值为0的拓扑ID。

Contents

ISIS event stream 1
ISIS peer state event 1
XML structure for event subscription 1
XML structure for event report 1

ISIS event stream

ISIS stream description.

ISIS peer state event

This event is used to report ISIS peer state information.

XML structure for event subscription

```
<ISISPeerStateEvent>
</ISISPeerStateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ISIS_STREAM</stream>
    <filter type="subtree">
      <ISISPeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/ISIS:1.0">
      </ISISPeerStateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ISIS
Event name	ISISEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ISIS:1.0
Support for extended query	No

XML structure for event report

```
<ISISPeerStateEvent>
  <ISISPeerState>
    <ProcId></ProcId>
    <IfIndex></IfIndex>
    <Level></Level>
    <NeighborSysID></NeighborSysID>
    <CircuitID></CircuitID>
    <State></State>
    <HoldTime></HoldTime>
    <NeighborPriority></NeighborPriority>
    <NeighborAreaAddress></NeighborAreaAddress>
    <NeighborUpTime></NeighborUpTime>
    <IfName></IfName>
```

```
    <SNPAAddress></SNPAAddress>
    <NeighborIpv4Address></NeighborIpv4Address>
    <LinkLocalAddress> </LinkLocalAddress>
    <GlobalUnicastAddress></GlobalUnicastAddress>
    <Sequence></Sequence>
  </ISISPeerState>
</ISISPeerStateEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-09-29T09:10:51</eventTime>
  <ISISPeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/ISIS:1.0">
    <ISISPeerState>
      <ProcId>1</ProcId>
      <IfIndex>285</IfIndex>
      <level>1</Level>
      <NeighborSysID>0000.0000.0001</NeighborSysID>
      <CircuitID>1</CircuitID>
      <State>Up</State>
      <HoldTime>27</HoldTime>
      <NeighborPriority>2</NeighborPriority>
      <NeighborAreaAddress></NeighborAreaAddress>
      <NeighborUpTime>00:12:22</NeighborUpTime>
      <IfName>GigabitEthernet2/0/2</IfName>
      <SNPAAddress>78bb-1d80-0217</SNPAAddress>
      <NeighborIpv4Address>10.1.1.1</NeighborIpv4Address>
      <LinkLocalAddress>FE80::7ABB:1DFF:FE80:217</LinkLocalAddress>
      <GlobalUnicastAddress>2001::2</GlobalUnicastAddress>
      <Sequence>16</Sequence>
    </ISISPeerState>
  </ISISPeerStateEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
ProcId	Process ID	String. Length: 0 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Ifindex	Interface index.	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Level	The level of the peer	Enumeration: • Level-1. • Level-2. • Level-1-2.	N/A

NeighborSysID	The system ID of the peer	String. Length: 1 to 82 characters Format: XXXX.XXXX.XXXX	N/A
CircuitID	The circuit ID of the peer	String. Length: 0 to 259 characters.	N/A
State	The state of peer	Enumeration: • Down. • Init. • Up.	N/A
HoldTime	The remaining lifetime of peer	Unsigned integer.	N/A
NeighborPriority	The priority of peer for DIS elect.	Unsigned integer. Value range 0 to 127.	Only supported on broadcast network.
NeighborAreaAddress	The area address of neighbor.	String,	N/A
NeighborUpTime	The time after neighor up.	String. Format: hh:mm:ss	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SNPAAddress	SNPA address of the neighbor.	String	N/A
NeighborIpv4Address	The IPv4 Address of neighbor.	String	N/A
LinkLocalAddress	The LinkLocal address of neighbor.	String	N/A
GlobalUnicastAddress	The IPv6 global address of neighbor.	String	N/A
Sequence	Sequence	Unsigned integer. Value range: 1 to 4294967295.	N/A

Contents

KDNS 1
KDNS/ClearDNSCaches 1
XML structure 1
Table description 1
Columns 1
KDNS/ClearAllDNSCaches 1
XML structure 2
Table description 2
Columns 2
KDNS/ClearVPNDNSCaches 2
XML structure 2
Table description 3
Columns 3

KDNS

KDNS/ClearDNSCaches

This table is used to clear the specified DNS cache.

XML structure

```
<KDNS>
  <ClearDNSCaches>
    <ClearDNSCache>
      <DomainName></DomainName>
      <Clear></Clear>
    </ClearDNSCache>
  </ClearDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearDNSCaches
Table type	Single-instance table
Row name	ClearDNSCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Clear	Action of clearing the specified DNS cache.	N/A	This column must be empty.	N/A

KDNS/ClearAllDNSCaches

This table is used to clear all DNS caches.

XML structure

```
<KDNS>
  <ClearAllDNSCaches>
    <Clear></Clear>
  </ClearAllDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearAllDNSCaches
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS caches.	N/A	This column must be empty.	N/A

KDNS/ClearVPNDNSCaches

This table is used to clear DNS cache of the specified VPN.

XML structure

```
<KDNS>
  <ClearVPNDNSCaches>
    <ClearVPNDNSCache>
      <VPN></VPN>
      <DomainName></DomainName>
      <Clear></Clear>
    </ClearVPNDNSCache>
  </ClearVPNDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearVPNDNSCaches
Table type	Single-instance table
Row name	ClearVPNDNSCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VPN	VPN name.	Index	String, Length: 0 to 31 characters.	N/A
DomainName	Domain name.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Clear	Action of clearing DNS cache of the specified VPN.	N/A	This column must be empty.	N/A

Contents

KDNS 1
KDNS/DNSCaches 1
XML structure 1
Table description 1
Columns 1
KDNS/VPNDNSCaches 2
XML structure 2
Table description 3
Columns 3

KDNS

KDNS/DNSCaches

This table contains information about DNS cache.

XML structure

```
<KDNS>
  <DNSCaches>
    <DNSCache>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DomainName></DomainName>
      <Index></Index>
      <DataType></DataType>
      <DataLength></DataLength>
      <DataValue></DataValue>
      <Lifetime></Lifetime>    </DNSCache>
  </DNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	DNSCaches
Table type	Multi-instance table
Row name	DNSCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the card.		Value range: 0 to 255.	
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Index	Index of the DNS cache.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataType	Type of data.	N/A	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
DataLength	Length of data.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DataValue	Data value.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
Lifetime	Lifetime of DNS cache items.	N/A	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

KDNS/VPNDNSCaches

This table contains information about VPN DNS cache.

XML structure

```
<KDNS>
  <VPNDNSCaches>
    <VPNDNSCache>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DomainName></DomainName>
      <Index></Index>
      <DataType></DataType>
      <VPN></VPN>
      <DataLength></DataLength>
      <DataValue></DataValue>
      <Lifetime></Lifetime>
    </VPNDNSCache>
  </VPNDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	VPNDNSCaches
Table type	Multi-instance table
Row name	VPNDNSCaches
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Index	Index of the DNS cache.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataType	Type of data.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
VPN	VPN name.	Index	String, Length: 0 to 31 characters.	N/A
DataLength	Length of data.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DataValue	Data value.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
Lifetime	Lifetime of DNS cache items.	N/A	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

Contents

L2MAD 1
L2MAD/L2MADEnable 1
XML structure 1
Table description 1
Columns 1

L2MAD

L2MAD/L2MADEnable

This table contains ARP MAD and ND MAD configuration information.

XML structure

```
<L2MAD>
  <L2MADEnable>
    <Enable>
      <IfIndex></IfIndex>
      <MADARPEnable></MADARPEnable>
      <MADNDEnable></MADNDEnable>
    </Enable>
  </L2MADEnable>
</L2MAD>
```

Table description

Item	Description
Feature name	L2MAD
Table name	L2MADEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	This table supports interface types: VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only VLAN interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
MADARPEnable	Whether the ARP MAD function is enable.	N/A	Boolean: • **true** • **false** (default)	You can use ARP MAD with BFD MAD and ND MAD, but not with LACP MAD. Do not configure ARP MAD on VLAN-interface 1.
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: • **true** • **false** (default)	You can use ND MAD with BFD MAD and ARP MAD, but not with LACP MAD. Do not configure ND MAD on VLAN-interface 1.

Contents

L2MAD 1
L2MAD/L2MADEnable 1
XML structure 1
Table description 1
Columns 1

L2MAD

L2MAD/L2MADEnable

This table contains ARP MAD and ND MAD configuration information.

XML structure

```
<L2MAD>
  <L2MADEnable>
    <Enable>
      <IfIndex></IfIndex>
      <MADARPEnable></MADARPEnable>
      <MADNDEnable></MADNDEnable>
    </Enable>
  </L2MADEnable>
</L2MAD>
```

Table description

Item	Description
Feature name	L2MAD
Table name	L2MADEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	This table supports interface types: VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only VLAN interfaces are supported.
MADARPEnable	Whether the ARP MAD function is enable.	N/A	Boolean: • **true** • **false**	N/A
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: • **true** • **false**	N/A

Contents

L2TPV2 1
L2TPV2/L2TPV2TunnelInfoClear/Table 1
XML structure 1
Table description 1
Columns 1

L2TPV2

L2TPV2/L2TPV2TunnelInfoClear/Table

This table is used to clear tunnel information.

XML structure

```
<L2TPV2>
  <L2TPV2TunnelInfoClear>
    <TunnelInfoClear>
      <TunnelID></TunnelID>
      <RemoteName></RemoteName>
      <LocalAddress></LocalAddress>
    </TunnelInfoClear>
  </L2TPV2TunnelInfoClear>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2TPV2TunnelInfoClear
Table type	Multi-instance table
Row name	TunnelInfoClear
Restrictions	The TunnelID or the LocalAddress can't be set together with the RemoteName

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel id	N/A	Unsigned integer. Value range: 1 to 65535	N/A
RemoteName	Tunnel peer name	N/A	String, case-sensitive. Length: 1 to 31 characters	N/A
LocalAddress	Tunnel local IP address	N/A	String, dotted decimal notation.	N/A

Contents

L2TPV2 1
L2TPV2/L2tpAutoClient 1
XML structure 1
Table description 1
Columns 1
L2TPV2/L2tpv2LacSrcIP 2
XML structure 2
Table description 2
Columns 3
L2TPV2/L2tpVaPool 3
XML structure 3
Table description 3
Columns 4
L2TPV2/L2tpGlobal 4
XML structure 4
Table description 4
Columns 5
L2TPV2/L2tpv2Group 5
XML structure 5
Table description 6
Columns 6
L2TPV2/L2tpv2LacUPSrcIP 8
XML structure 8
Table description 8
Columns 9
L2TPV2/L2tpUPGlobal 9
XML structure 9
Table description 9
Columns 10

L2TPV2

L2TPV2/L2tpAutoClient

This table contains the information about auto client.

XML structure

```
<L2TPV2>
  <L2tpAutoClient>
    <AutoClient>
      <IfIndex></IfIndex>
      <GroupID></GroupID>
    </AutoClient>
  </L2tpAutoClient>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpAutoClient
Table type	Multi-instance table
Row name	AutoClient
Restrictions	This table supports interface types: virtual-ppp interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	The LAC uses tunnel parameters of the L2TP group to establish the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535	The L2TP group specified must be an existing one in LAC mode.

L2TPV2/L2tpv2LacSrcIP

This table contains the information about L2TP tunnel source IP addresses.

XML structure

```
<L2TPV2>
  <L2tpv2LacSrcIP>
    <LacSrcIP>
      <IfIndex></IfIndex>
      <IPaddress></IPaddress>
    </LacSrcIP>
  </L2tpv2LacSrcIP>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacSrcIP
Table type	Multi-instance table
Row name	LacSrcIP
Restrictions	This table supports interface types: vsi interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPaddress	Tunnel local IP address	N/A	String, dotted decimal notation.	N/A

L2TPV2/L2tpVaPool

This table contains the information about using L2TPV2 va-pool.

XML structure

```
<L2TPV2>
  <L2tpVaPool>
    <VaPool>
      <L2tpVTNum></L2tpVTNum>
      <L2tpVANum></L2tpVANum>
    </VaPool>
  </L2tpVaPool>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpVaPool
Table type	Multi-instance table
Row name	VaPool
Restrictions	VT interface must be exist
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpVTNum	Template-number	Index	Unsigned integer. Value range: 1 to 2047	Specifies an existing VT interface by its number to use the VA pool. The value range for this argument varies by device model.
L2tpVANum	*Va-volume*	N/A	Unsigned integer. Value range: 1 to 65534	Specifies the maximum number of VA interfaces contained in the VA pool.

L2TPV2/L2tpGlobal

This table contains the information about global configuration of l2tp.

XML structure

```
<L2TPV2>
  <L2tpGlobal>
    <L2tpEnable></L2tpEnable>
    <IcrqLimit></IcrqLimit>
    <SccrqMinLimit></SccrqMinLimit>
    <SccrqLimit></SccrqLimit>
    <SessionLimit></SessionLimit>
    <TunnelLimit></TunnelLimit>
  </L2tpGlobal>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpGlobal
Table type	Single instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpEnable	Whether the function of L2TP is enabled.	N/A	Boolean: • **true** • **false(default)**	N/A
IcrqLimit	Maximum number of ICRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 60000. Default: 0	N/A
SccrqMinLimit	Minimum number of SCCRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 10000. Default: 0	N/A
SccrqLimit	Maximum number of SCCRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 10000. Default: 0	N/A
TunnelLimit	Maximum number of L2TP tunnels that can be set up per UP id	N/A	Unsigned integer. Value range: 1 to 65535.	Only support CTRL VM and BRAS VM mode
SessionLimit	Maximum number of L2TP sessions that can be set up per UP id	N/A	Unsigned integer. Value range: 1 to 4294967295.	Only support CTRL VM and BRAS VM mode

L2TPV2/L2tpv2Group

This table contains L2TP group configuration information.

XML structure

```
<L2TPV2>
  <L2tpv2Group>
    <Group>
      <GroupNum></GroupNum>
      <Mode></Mode>
      <AllowVTNum></AllowVTNum>
      <AllowRtmName></AllowRtmName>
      <LnsIP></LnsIP>
      <LnsName></LnsName>
      <UserType></UserType>
```

```
      <UserName></UserName>
      <TunnelName></TunnelName>
      <Password></Password>
      <AuthEnable></AuthEnable>
      <MChapEnable></MChapEnable>
      <MLcpEnable></MLcpEnable>
      <AvpHiddenEnable></AvpHiddenEnable>
      <FlowControlEnable></FlowControlEnable>
      <HelloTime></HelloTime>
      <VPNInstance></VPNInstance>
    </Group>
  </L2tpv2Group>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2Group
Table type	Multi-instance table
Row name	Group
Restrictions	N/A
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	Group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Group mode.	N/A	Enumeration: • **0**—lac. • **1**—lns	N/A
AllowVTNum	Specifies a VT interface by its number.	N/A	Unsigned integer.	It can only be configured when Mode is lns. The value range depended on device.
AllowRtmName	Specifies the name of the tunnel peer (LAC) initiating tunneling requests	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be configured when Mode is lns.

Column name	Column description	Column type	Data type and restrictions	Remarks
LnsIP	Specifies LNS IP addresses.	N/A	String, case-sensitive. Length: 1 to 79 characters.	It can only be configured when Mode is lac. Separated by space if there are multiple addresses. Specifies a space-separated list of up to five addresses Example: 1.1.1.1 2.2.2.2 3.3.3.3.
LnsName	LNS DNS name	N/A	String, case-insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.), for example, aabbcc.com. The DNS name suffix can include a maximum of 253 characters, and each separated string includes no more than 63 characters.
UserType	To configure the condition for the LAC to initiate tunneling requests	N/A	Enumeration: • **0**—domain name • **1**—full user name	It can only be configured when Mode is lac.
UserName	user name.	N/A	String, case-sensitive. Length: 1 to 255 characters.	It can only be configured when Mode is lac.
TunnelName	Local tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be set when the group exists or the value of Mode is valid.
PassWord	password.	N/A	String, case-sensitive. Length: 1 to 16 characters.	It can only be set when the group exists or the value of Mode is valid.
AuthEnable	L2TP tunnel authentication.	N/A	Boolean: • **true(default)** • **false**	It can only be set when the group exists or the value of Mode is valid.
MChapEnable	To force the LNS to perform CHAP authentication for users.	N/A	Boolean: • **true** • **false(default)**	It can only be configured when Mode is lns.
MLcpEnable	To force an LNS to perform LCP negotiation with users.	N/A	Boolean: • **true** • **false(default)**	It can only be configured when Mode is lns.

Column name	Column description	Column type	Data type and restrictions	Remarks
AvpHiddenEnable	To enable transferring AVP data in hidden mode.	N/A	Boolean: • **true** • **false(default)**	It can only be set when the group exists or the value of Mode is valid.
FlowControlEnable	To enable L2TP session flow control.	N/A	Boolean: • **true** • **false(default)**	It can only be set when the group exists or the value of Mode is valid.
HelloTime	Hello interval.	N/A	Unsigned integer. Value range: 60 to 1000. Default: 60	It can only be set when the group exists or the value of Mode is valid.
VPNInstance	VPN instance	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be set when the group exists or the value of Mode is valid.

L2TPV2/L2tpv2LacUPSrcIP

This table contains the information about configuring the L2TPv2 LAC UP source IP.

XML structure

```
<L2TPV2>
  <L2tpv2LacUPSrcIP>
    <LacUPSrcIP>
      <GroupNum></GroupNum>
      <UPlists>
        <UPlist>
          <UPid></UPid>
          <IPaddress></IPaddress>
        </UPlist>
      </UPlists>
    </LacUPSrcIP>
  </L2tpv2LacUPSrcIP>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacUPSrcIP
Table type	Multi-instance table
Row name	LacUPSrcIP

Restrictions	UPlist only supports one UP
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	L2TP group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
UPid	UP ID.	Index	Unsigned integer. 1024 to 2047.	N/A
IPaddress	Tunnel local IP address.	N/A	String, dotted decimal notation.	N/A

L2TPV2/L2tpUPGlobal

This table contains the information about L2TP configuration of UP.

XML structure

```
<L2TPV2>
  <L2tpUPGlobal>
    <UP>
      <UpId></UpId>
      <TunnelIDRange>
        <Start></Start>
        <End></End>
      </TunnelIDRange>
      <IcrqLimit></IcqLimit>
      <TunnelLimit></TunnelLimit>
      <SessionLimit></SessionLimit>
    </UP>
  </L2tpUPGlobal>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpUPGlobal

Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	Index	Unsigned integer. 1024 to 2047.	Only for CP
TunnelIDRange	Tunnel ID range information	N/A	Members include: • Start • End	N/A
Start	Minimum number of tunnle id	N/A	Unsigned integer. Value range: 1 to 65535	End attribute must be configured
End	Maximum number of tunnle id	N/A	Unsigned integer. Value range: 1 to 65535	Start attribute must be configured
IcrqLimit	Maximum number of ICRQ packets processed per second	N/A	Unsigned integer. Value range: 1 to 60000.	N/A
TunnelLimit	Maximum number of L2TP tunnels that can be set up per UP id	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SessionLimit	Maximum number of L2TP sessions that can be set up per UP id	N/A	Unsigned integer. Value range: 1 to 4294836225.	N/A

Contents

L2TPV2 1
L2TPV2/L2tpAutoClient 1
XML structure 1
Table description 1
Columns 1
L2TPV2/L2tpv2LacSrcIP 2
XML structure 2
Table description 2
Columns 3
L2TPV2/L2tpVaPool 3
XML structure 3
Table description 3
Columns 4
L2TPV2/L2tpGlobal 4
XML structure 4
Table description 4
Columns 5
L2TPV2/L2TPV2TunnelInfo 5
XML structure 5
Table description 6
Columns 6
L2TPV2/L2TPV2TunnelExtendInfo 7
XML structure 7
Table description 7
Columns 8
L2TPV2/L2tpv2Group 9
XML structure 9
Table description 9
Columns 10
L2TPV2/L2tpv2LacUPSrcIP 11
XML structure 11
Table description 12
Columns 12
L2TPV2/SessionStatics 12
XML structure 12
Table description 13
Columns 13
L2TPV2/TunnelStatics 13
XML structure 14
Table description 14
Columns 14
L2TPV2/Sessions 15
Xml structure 15
Table description 15
Columns 16
L2TPV2/Groups 17
XML structure 17
Table description 18

Columns 18
L2TPV2/Tunnels 20
XML structure 20
Table description 21
Columns 21
L2TPV2/L2tpUPGlobal 23
XML structure 23
Table description 24
Columns 24

L2TPV2

L2TPV2/L2tpAutoClient

This table contains the information about auto client.

XML structure

```
<L2TPV2>
  <L2tpAutoClient>
    <AutoClient>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <GroupID></GroupID>
    </AutoClient>
  </L2tpAutoClient>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpAutoClient
Table type	Multi-instance table
Row name	AutoClient
Restrictions	This table supports interface types: virtual-ppp interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	The LAC uses tunnel parameters of the L2TP group to establish the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

L2TPV2/L2tpv2LacSrcIP

This table contains the information about L2TP tunnel source IP addresses.

XML structure

```
<L2TPV2>
  <L2tpv2LacSrcIP>
    <LacSrcIP>
      <IfIndex></IfIndex>
      <IPaddress></IPaddress>
    </LacSrcIP>
  </L2tpv2LacSrcIP>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacSrcIP
Table type	Multi-instance table
Row name	LacSrcIP
Restrictions	This table supports interface types: vsi interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IPaddress	Tunnel local IP address.	N/A	String, dotted decimal notation.	N/A

L2TPV2/L2tpVaPool

This table contains the information about L2TPV2 va-pool.

XML structure

```
<L2TPV2>
  <L2tpVaPool>
    <VaPool>
      <L2tpVTNum></L2tpVTNum>
      <L2tpVANum></L2tpVANum>
    </VaPool>
  </L2tpVaPool>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	PPPUserPap
Table type	Multi-instance table
Row name	VaPool
Restrictions	VT interface must be exist

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpVTNum	Template-number	Index	Unsigned integer. Value range: 1 to 2047	Specifies an existing VT interface by its number to use the VA pool. The value range for this argument varies by device model.
L2tpVANum	*Va-volume*	N/A	Unsigned integer. Value range: 1 to 65534	N/A

L2TPV2/L2tpGlobal

This table contains the information about global configuration of l2tp.

XML structure

```
<L2TPV2>
  <L2tpGlobal>
    <L2tpEnable></L2tpEnable>
    <IcrqLimit></IcrqLimit>
    <SccrqMinLimit></SccrqMinLimit>
    <SccrqLimit></SccrqLimit>
    <SessionLimit></SessionLimit>
    <TunnelLimit></TunnelLimit>
  </L2tpGlobal>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpGlobal
Table type	Single instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpEnable	Whether the function of L2TP is enabled.	N/A	Boolean: • **true** • false	N/A
IcrqLimit	Maximum number of ICRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 60000.	N/A
SccrqMinLimit	Minimum number of SCCRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
SccrqLimit	Maximum number of SCCRQ packets processed per second.	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
TunnelLimit	Maximum number of L2TP tunnels that can be set up per UP id	N/A	Unsigned integer. • Value range: 1 to 65535.	Only support CTRL VM and BRAS VM mode
SessionLimit	Maximum number of L2TP sessions that can be set up per UP id	N/A	Unsigned integer. Value range: 1 to 4294967295.	Only support CTRL VM and BRAS VM mode

L2TPV2/L2TPV2TunnelInfo

This table contains the information about using display l2tp tunnel to display information about L2TP tunnels.

XML structure

```
<L2TPV2>
  <L2TPV2TunnelInfo>
    <TunnelInfo>
      <LocalTIDIndex></LocalTIDIndex>
      <RemoteTID></RemoteTID>
      <State></State>
      <Sessions></Sessions>
      <RemoteAddr></RemoteAddr>
      <RemotePort></RemotePort>
      <RemoteName></RemoteName>
```

```
      <ModeType></ModeType>
    </TunnelInfo>
  </L2TPV2TunnelInfo>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2TPV2TunnelInfo
Table type	Multi-instance table
Row name	TunnelInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalTIDIndex	Local tunnel ID.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteTID	Remote tunnel ID.	N/A	Unsigned integer. • Value range: 1 to 65535.	N/A
State	Tunnel state.	N/A	Enumeration: • **0—Idle (default)** • **1—Wait-reply** • **2—Wait-connect** • **3—Established** • **4—Stopping**	Session state: Idle. Wait-tunnel—Waits for the tunnel to be established. Wait-reply—Waits for an ICRP message indicating the call is accepted. Wait-connect—Waits for an ICCN message. Established—Establishes the tunnel successfully. Stopping—Is being offline.
Sessions	Number of sessions within the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteAddr	IP address of the peer.	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RemotePort	UDP port number of the peer.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RemoteName	Name of the tunnel peer.	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
ModeType	TunnelModeType.	N/A	Enumeration: • **0—LAC** • **1—LNS**	N/A

L2TPV2/L2TPV2TunnelExtendInfo

This table contains the information about using display l2tp tunnel to display information about L2TP tunnels for extension.

XML structure

```
<L2TPV2>
  <L2TPV2TunnelExtendInfo>
    <TunnelExtendInfo>
      <LocalAddrIndex></LocalAddrIndex>
      <LocalTIDIndex></LocalTIDIndex>
      <RemoteTID></RemoteTID>
      <State></State>
      <Sessions></Sessions>
      <RemoteAddr></RemoteAddr>
      <RemotePort></RemotePort>
      <RemoteName></RemoteName>
      <ModeType></ModeType>
    </TunnelExtendInfo>
  </L2TPV2TunnelExtendInfo>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2TPV2TunnelExtendInfo
Table type	Multi-instance table
Row name	TunnelExtendInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalAddrIndex	Local tunnel IP address.	Index	String, dotted decimal notation.	N/A
LocalTIDIndex	Local tunnel ID.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteTID	Remote tunnel ID.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
State	Tunnel state.	N/A	Enumeration: • **0**—Idle (default) • **1**—Wait-reply • **2**—Wait-connect • **3**—Established • **4**—Stopping	Session state: • **Idle**. • **Wait-tunnel**—Waits for the tunnel to be established. • **Wait-reply**—Waits for an ICRP message indicating the call is accepted. • **Wait-connect**—Waits for an ICCN message. • **Established**—Establishes the tunnel successfully. • **Stopping**—Is being offline.
Sessions	Number of sessions within the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteAddr	IP address of the peer.	N/A	String, dotted decimal notation.	N/A
RemotePort	UDP port number of the peer.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RemoteName	Name of the tunnel peer.	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
ModeType	Tunnel mode.	N/A	Enumeration: • **0—LAC** • **1—LNS**	N/A

L2TPV2/L2tpv2Group

This table contains L2TP group configuration information.

XML structure

```
<L2TPV2>
  <L2tpv2Group>
    <Group>
      <GroupNum></GroupNum>
      <Mode></Mode>
      <AllowVTNum></AllowVTNum>
      <AllowRtmName></AllowRtmName>
      <LnsIP></LnsIP>
      <LnsName></LnsName>
      <UserType></UserType>
      <UserName></UserName>
      <TunnelName></TunnelName>
      <Password></Password>
      <AuthEnable></AuthEnable>
      <MChapEnable></MChapEnable>
      <MLcpEnable></MLcpEnable>
      <AvpHiddenEnable></AvpHiddenEnable>
      <FlowControlEnable></FlowControlEnable>
      <HelloTime></HelloTime>
      <VPNInstance></VPNInstance>
    </Group>
  </L2tpv2Group>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2Group
Table type	Multi-instance table
Row name	Group
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	Group number.	Index	Unsigned integer. • Value range: 1 to 65535.	N/A
Mode	Group mode.	N/A	Enumeration: • **0—lac** • **1—lns**	N/A
AllowVTNum	Specifies a VT interface by its number.	N/A	Unsigned integer.	It can only be visible when Mode is lns. The value range depended on device.
AllowRtmName	Specifies the name of the tunnel peer (LAC) initiating tunneling requests	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be visible when Mode is lns.
LnsIP	Specifies LNS IP addresses.	N/A	String, case-sensitive. Length: 1 to 79 characters.	It can only be visible when Mode is lac. Separated by space if there are multiple addresses. Specifies a space-separated list of up to five addresses Example: 1.1.1.1 2.2.2.2 3.3.3.3.
LnsName	LNS DNS name	N/A	String, case-insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.), for example, aabbcc.com. The DNS name suffix can include a maximum of 253 characters, and each separated string includes no more than 63 characters.
UserType	To configure the condition for the LAC to initiate tunneling requests	N/A	Enumeration: • **0—domain name** • **1—full user name**	It can only be visible when Mode is lac.
UserName	user name.	N/A	String, case-sensitive. Length: 1 to 255 characters.	It can only be visible when Mode is lac.

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelName	Local tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be set when the group exists or the value of Mode is valid.
PassWord	password.	N/A	String, case-sensitive. Length: 1 to 16 characters.	It can only be set when the group exists or the value of Mode is valid.
AuthEnable	L2TP tunnel authentication.	N/A	Boolean: • **true** • **false**	It can only be set when the group exists or the value of Mode is valid.
MChapEnable	To force the LNS to perform CHAP authentication for users.	N/A	Boolean: • **true** • **false**	It can only be visible when Mode is lns.
MLcpEnable	To force an LNS to perform LCP negotiation with users.	N/A	Boolean: • **true** • **false**	It can only be visible when Mode is lns.
AvpHiddenEnable	To enable transferring AVP data in hidden mode.	N/A	Boolean: • **true** • **false**	It can only be set when the group exists or the value of Mode is valid.
FlowControlEnable	To enable L2TP session flow control.	N/A	Boolean: • **true** • **false**	It can only be set when the group exists or the value of Mode is valid.
HelloTime	Hello interval.	N/A	Unsigned integer. Value range: 60 to 1000.	It can only be set when the group exists or the value of Mode is valid.
VPNInstance	VPN instance	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be set when the group exists or the value of Mode is valid.

L2TPV2/L2tpv2LacUPSrcIP

This table contains the information about configuring the L2TPv2 LAC UP source IP.

XML structure

```
<L2TPV2>
  <L2tpv2LacUPSrcIP>
    <LacUPSrcIP>
      <GroupNum></GroupNum>
      <UPlists>
        <UPlist>
```

```
        <UPid></UPid>
        <IPaddress></IPaddress>
      </UPlist>
    </UPlists>
  </LacUPSrcIP>
 </L2tpv2LacUPSrcIP>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacUPSrcIP
Table type	Multi-instance table
Row name	LacUPSrcIP
Restrictions	UPlist only supports one UP

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	L2TP group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
UPid	UP ID.	Index	• Unsigned integer. • 1024 to 2047.	N/A
IPaddress	Tunnel local IP address.	N/A	String, dotted decimal notation.	N/A

L2TPV2/SessionStatics

This table contains the information about SessionStatics of L2TPV2.

XML structure

```
<L2TPV2>
  <SessionStatics>
    <UpId></UpId>
    <TunnelID></TunnelID>
    <LocalSID></LocalSID>
    <LocalAddr></LocalAddr>
    <RemoteAddr></RemoteAddr>
    <Mode></Mode>
```

```
    <UserName></UserName>
    <Statistics></Statistics>
  </SessionStatics>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	SessionStatics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP.
TunnleID	Local tunnel ID.	N/A	Unsigned short.	This field can be used for filtering.
LocalSID	Local session ID.	N/A	Unsigned short.	This field can be used for filtering.
LocalAddr	Local IP address.	N/A	String, dotted decimal notation.	This field can be used for filtering.
RemoteAddr	Remote IP address	N/A	String, dotted decimal notation.	This field can be used for filtering.
Mode	Session mode	N/A	Enumeration: • **0—LAC.** • **1—LNS**	This field can be used for filtering.
UserName	User name of session	N/A	String, length: 1~80.	This field can be used for filtering.
Statistics	Total number of sessions	N/A	Unsigned integer.	N/A

L2TPV2/TunnelStatics

This table contains the information about TunnelStatics of L2TPV2.

XML structure

```
<L2TPV2>
  <TunnelStatics>
    <UpId></UpId>
    <TunnelID></TunnelID>
    <LocalAddr></LocalAddr>
    <RemoteAddr></RemoteAddr>
    <Mode></Mode>
    <GroupName></GroupName>
    <GroupNum></GroupNum>
    <RemoteTName></RemoteTName><Statistics></Statistics>
  </TunnelStatics>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	TunnelStatics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP. This field can be used for filtering.
TunnleID	Local tunnel ID.	N/A	Unsigned short.	This field can be used for filtering.
LocalAddr	Local IP address.	N/A	String, dotted decimal notation.	This field can be used for filtering.
RemoteAddr	Remote IP address.	N/A	String, dotted decimal notation.	This field can be used for filtering.
Mode	Session mode.	N/A	Enumeration: • **0—LAC.** • **1—LNS.**	This field can be used for filtering.
GroupName	L2TP group name.	N/A	String, case-sensitive. Length: 1 to 32 characters.	This field can be used for filtering.
GroupNum	L2TP group number.	N/A	Unsigned short Value range: 1 to 65535.	This field can be used for filtering.

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteTName	Remote tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	This field can be used for filtering.
Statistics	Total number of tunnels	N/A	Unsigned integer.	N/A

L2TPV2/Sessions

This table displays L2TP session configuration information.

Xml structure

```
<L2TPV2>
  <Sessions>
    <Session>
      <TunnelID></TunnelID>
      <LocalSID></LocalSID>
      <LocalAddr></LocalAddr>
      <UpId></UpId>
      <RemoteSID></RemoteSID>
      <RemoteAddr></RemoteAddr>
      <Mode></Mode>
      <UserName></UserName>
      <State></State>
      <PPPIndex></PPPIndex>
      <CallNumber></CallNumber>
      <FlowControl></FlowControl>
      <LACAutoInit></LACAutoInit>
      <AgeFlag></AgeFlag>
      <PhyInterface></PhyInterface>
      <BasInterface></BasInterface>
      <TraceSwith></TraceSwith>
      <LipAddr></LipAddr>
    </Session>
  </Sessions>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	Sessions

Item	Description
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnleID	Local tunnel ID.	Index	• Unsigned short.	• N/A
LocalSID	Local session ID.	Index	• Unsigned short.	N/A
LocalAddr	Local IP address.	Index	String, dotted decimal notation.	N/A
UpId	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP. This field can be used for filtering.
RemoteSID	Remote session ID	N/A	• Unsigned short.	This field can be used for filtering.
RemoteAddr	Remote IP address	N/A	String, dotted decimal notation.	This field can be used for filtering.
Mode	Session mode	N/A	Enumeration: • **0—LAC.** • **1—LNS.**	This field can be used for filtering.
UserName	User name of session	N/A	String, length: 1~80.	This field can be used for filtering.
State	State of session	N/A	Enumeration: • **0—Idle.** • **1—Wait-tunnel.** • **2—Wait-reply.** • **3—Wait-connect.** • **4—Established.**	N/A
PPPIndex	PPP session index	N/A	Unsigned integer. • Value range: 0 to 2^{64}-1.	N/A
CallNumber	L2TP call serial number	N/A	• Unsigned integer.	N/A
FlowControl	L2TP flow control function	N/A	Enumeration: • **0—Disabled.** • **1—Enabled.**	N/A
LACAutoInit	L2TP mode is LAC-Auto-Initiated or not.	N/A	Enumeration: • **0—No** • **1—Yes..**	N/A
AgeFlag	Age flag when session establish failed	N/A	• Unsigned char.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PhyInterface	The physical inbound interface	N/A	• String.	N/A
BasInterface	The bas inbound interface	N/A	String.	Only for LNS
TraceSwith	User trace switch	N/A	Enumeration: • **0—Disabled.** • **1—Enabled.**	N/A
LipAddr	Lip Address	N/A	Unsigned short.	N/A

L2TPV2/Groups

This table displays the information about L2TPv2 Group.

XML structure

```
<L2TPV2>
  <Groups>
    <Group>
      <GroupNum></GroupNum>
      <UpId></UpId>
      <GroupName></GroupName>
      <Tunnels></Tunnels>
      <Sessions></Sessions>
      <Mode></Mode>
      <TunnelAuth></TunnelAuth>
      <LocalTName></LocalTName>
      <RecvWin></RecvWin>
      <SendWin></SendWin>
      <AVPHidden></AVPHidden>
      <HelloInterval></HelloInterval>
      <IPDSCP></IPDSCP>
      <FlowCtl></FlowCtl>
      <VPNInstance></VPNInstance>
      <WorkMode></WorkMode>
      <SourceIP></SourceIP>
      <TPerUser></TPerUser>
      <TriType></TriType>
      <TriUserName></TriUserName>
      <VSRPSIP></VSRPSIP>
      <VSRPInstance></VSRPInstance>
      <VTNumber></VTNumber>
```

```
      <LocalIPAddr></LocalIPAddr>
      <RemoteTName></RemoteTName>
      <MandatoryCHAP></MandatoryCHAP>
      <MandatoryLCP></MandatoryLCP>
      <LnsIpSum></LnsIpSum>
      <LNSIPs>
        <LNSIP>
          <IPAddr></IPAddr>
          <Weight></Weight>
        </LNSIP>
      </LNSIPs>
    </Group>
  </Groups>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	L2TP group number	Index	Unsigned short. 1~65535	N/A
GroupName	L2TP group name	N/A	• String, length: 1~32.	N/A
UpId	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP. This field can be used for filtering.
Mode	Tunnels mode	N/A	Enumeration: • **0—LAC** • **1—LNS**	This field can be used for filtering.
Tunnels	Tunnel number of group	N/A	Unsigned short.	This field can be used for filtering.
Sessions	Session number of group	N/A	Unsigned short.	N/A
TunnelAuth	Tunnel auth	N/A	Enumeration: • **0—Disabled** • **1—Enabled**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalTName	Local tunnel name	N/A	String, length: 1~31	N/A
RecvWin	The size of tunnel receive window	N/A	Unsigned short.	N/A
SendWin	The size of tunnel send window	N/A	Unsigned short.	N/A
AVPHidden	Use cipher-text to transform AVP data	N/A	Enumeration: • **0—No** • **1—Yes**	N/A
HelloInterval	The interval of transform hello packet	N/A	Unsigned short.	Uint: seconds.
IPDSCP	IP DSCP	N/A	Unsigned char.	N/A
FlowCtl	Flow control function	N/A	Enumeration: • **0—Disabled** • **1—Enabled**	N/A
VPNInstance	VPN instance	N/A	Length: 1 to 31 characters.	N/A
WorkMode	Working mode of LAC	N/A	Enumeration: • **0—Master-backup** • **1—Load-sharing**	N/A
SourceIP	Source IP	N/A	String, dotted decimal notation.	N/A
TPerUser	Tunnel only for one user	N/A	Enumeration: • **0—No** • **1—Yes**	N/A
TriType	LAC trigger type	N/A	Enumeration: • 0—**FullUserName** • 1—**Domain**	N/A
TriUserName	LAC trigger user name	N/A	String, length: 1~255	N/A
VSRPSIP	VSRP source IP	N/A	String, dotted decimal notation	N/A
VSRPInstance	VSRP instance	N/A	Length: 1 to 31 characters.	N/A
VTNumber	VT number used to establish tunnel	N/A	Unsigned short	N/A
LocalIPAddr	Local IP address	N/A	String, dotted decimal notation.	N/A
RemoteTName	Remote tunnel name	N/A	Length: 1 to 31 characters.	N/A
MandatoryCHAP	Mandatory user to CHAP	N/A	Enumeration: • **0—No** • **1—Yes**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MandatoryLCP	Mandatory user to LCP	N/A	Enumeration: • **0—No** • **1—Yes**	N/A
LnsIpSum	Sum of lnsip	N/A	Unsigned integer.	N/A
IPAddr	LNS IP address	Index	String, dotted decimal notation.	N/A
Weight	The weight of LNS IP address	N/A	Unsigned short.	N/A

L2TPV2/Tunnels

This table contains the information about using display l2tp tunnel to display information about L2TP tunnels for extension.

XML structure

```
<L2TPV2>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <LocalAddr></LocalAddr>
      <UpId></UpId>
      <RemoteAddr></RemoteAddr>
      <RemoteTName></RemoteTName>
      <Mode></Mode>
      <GroupName></GroupName>
      <GroupNum></GroupNum>
      <State></State>
      <RemoteTID></RemoteTID>
      <Sessions></Sessions>
      <RemotePort></RemotePort>
      <TunnelType></TunnelType>
      <SendWinsize></SendWinsize>
      <SendWinLlimit></SendWinLlimit>
      <SendWinUlimit></SendWinUlimit>
      <RecvWinSize></RecvWinSize>
      <CtlMsgNr></CtlMsgNr>
      <LatestHelloNs></LatestHelloNs>
      <RcvSameHello></RcvSameHello>
      <AckTimeout></AckTimeout>
      <RemoteFramCap></RemoteFramCap>
      <RemoteBearerCap></RemoteBearerCap>
      <RemoteProVer></RemoteProVer>
```

```
      <RemoteVendorName></RemoteVendorName>
      <TunnelAuth></TunnelAuth>
      <AssignmentID></AssignmentID>
      <DisconCause></DisconCause>
      <CauseCode></CauseCode>
    </Tunnel>
  </Tunnels>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Local tunnel ID.	Index	Unsigned short. Value range: 1 to 65535	N/A
LocalAddr	Local IP address.	Index	String, dotted decimal notation.	N/A
UpId	UP ID.	N/A	Unsigned integer. 1024~8192	Only for CP. This field can be used for filtering.
RemoteAddr	Remote IP address.	N/A	String, dotted decimal notation.	This field can be used for filtering.
RemoteTName	Remote tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	This field can be used for filtering.
Mode	Tunnels mode	N/A	Enumeration: • **0—LAC.** • **1—LNS.**	This field can be used for filtering.
GroupName	L2TP group name	N/A	String, case-sensitive. Length: 1 to 32 characters.	This field can be used for filtering.
GroupNum	L2TP group number	N/A	Unsigned short Value range: 1 to 65535	This field can be used for filtering.

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Tunnel state.	N/A	Enumeration: • **0—Idle** • **1—Wait-reply** • **2—Wait-connect** • **3—Established** • **4—Stopping**	Tunnel state: Idle. Wait-tunnel—Waits for the tunnel to be established. Wait-reply—Waits for an ICRP message indicating the call is accepted. Wait-connect—Waits for an ICCN message. Established—Establishes the tunnel successfully. Stopping—Is being offline.
RemoteTID	Remote tunnel ID	N/A	Unsigned short.	N/A
Sessions	Number of sessions within the tunnel.	N/A	Unsigned short.	N/A
RemotePort	UDP port number of the peer.	N/A	Unsigned short.	N/A
TunnelType	Tunnel type	N/A	Enumeration: • **0—Group.** • **1—Radius.**	N/A
SendWinsize	Send window size	N/A	Unsigned short.	N/A
SendWinLlimit	Send win lower-limit	N/A	Unsigned short.	N/A
SendWinUlimit	Send win upper-limit	N/A	Unsigned short.	N/A
RecvWinSize	Recv window size	N/A	Unsigned short.	N/A
CtlMsgNr	Control message Nr	N/A	Unsigned short.	N/A
LatestHelloNs	Latest hello packet Ns	N/A	Unsigned short.	N/A
RcvSameHello	Recv same hello times.	N/A	Unsigned short.	N/A
AckTimeout	Ack timeout times	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
RemoteFramCap	Remote framing cap	N/A	Enumeration: • **1—Sync.** • **2—Async.** • 3—**Both..**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteBearerCap	Remote bearer cap	N/A	Enumeration: • **1**—Digital. • **2**—Analog. • 3—**Both.**.	N/A
RemoteProVer	Remote protocol ver	N/A	Unsigned short.	N/A
RemoteVendorName	Remote vendor name	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
TunnelAuth	Tunnel auth	N/A	Enumeration: • **1—Enabled.** • **2—Disabled.**	N/A
AssignmentID	Assignment ID	N/A	String, case-sensitive. Length: 1 to 252 characters.	N/A
DisconCause	Disconnection cause	N/A	String, case-sensitive. Length: 1 to 31 characters.	Displays only if the tunnel connection is disconnected. Disconnection cause: L2TP fail：Negotiation fails L2TP cut command：The side clearance L2TP peer clear：Triggers local cleanup on the opposite end L2TP no response：No response to end N/A：The tunnel connection was disconnected for other unknown reasons
CauseCode	Cause Code	N/A	Unsigned short.	N/A

L2TPV2/L2tpUPGlobal

This table contains the information about L2TP configuration of UP.

XML structure

```
<L2TPV2>
  <L2tpUPGlobal>
```

```
    <UP>
      <UpId></UpId>
      <TunnelIDRange>
        <Start></Start>
        <End></End>
      </TunnelIDRange>
      <IcrqLimit></IcrqLimit>
      <TunnelLimit></TunnelLimit>
      <SessionLimit></SessionLimit>
    </UP>
  </L2tpUPGlobal>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpUPGlobal
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	Index	• Unsigned integer. 1024~2047.	Only for CP
TunnelIDRange	Tunnel ID range information	N/A	Members include: • Start • End	N/A
Start	Minimum number of tunnle id	N/A	• Unsigned integer. • Value range: 1 to 65535	N/A
End	Maximum number of tunnle id	N/A	• Unsigned integer. • Value range: 1 to 65535	N/A
IcrqLimit	Maximum number of ICRQ packets processed per second	N/A	• Unsigned integer. • Value range: 1 to 60000.	N/A
TunnelLimit	Maximum number of L2TP tunnels that can be set up per UP id	N/A	• Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLimit	Maximum number of L2TP sessions that can be set up per UP id	N/A	• Unsigned integer. • Value range: 1 to 1 to 4294836225.	N/A

Contents

Comware 7 L2TPV2 NETCONF XML API Error Message Reference 1
L2TPV2/L2tpAutoClient 1
L2TPV2/L2tpGlobal 1
L2TPV2/L2TPV2TunnelInfoClear 1
L2TPV2/L2tpv2Group 1
L2TPV2/L2tpv2LacSrcIP 3

Comware 7 L2TPV2 NETCONF XML API Error Message Reference

L2TPV2/L2tpAutoClient

Message	Explanation
Failed to process. 处理失败。	The operation failed 操作失败。

L2TPV2/L2tpGlobal

Message	Explanation
Failed to process.. 处理失败。	The operation failed 操作失败。
The maximum number must be greater than or equal to the minimum number. 每秒能处理SCCRQ的报文数最大值不能小于最小值。	The operation failed 操作失败。

L2TPV2/L2TPV2TunnelInfoClear

Message	Explanation
The configuration doesn't meet the requirements. 配置不符合要求。	The configuration parameter is incomplete. 配置参数不全。
Failed to process. 操作失败。	The operation failed 操作失败。
Invalid IP address. 非法IP地址。	Invalid IP address. 非法IP地址。

L2TPV2/L2tpv2Group

Message	Explanation
The configuration doesn't meet the requirements. 配置不符合要求。	The configuration parameter is incomplete. 配置参数不全。
Duplicate IP address.	Duplicate IP address.

IP地址重复。	IP地址重复。
Failed to process. 操作失败。	The operation failed 操作失败。
The L2TP group already exists, and its mode is LAC. 该L2TP组已存在，其模式为LAC。	The L2TP group already exists, and its mode is LAC. 该L2TP组已存在，其模式为LAC。
The L2TP group already exists, and its mode is LNS. 该L2TP组已存在，其模式为LNS。	The L2TP group already exists, and its mode is LNS. 该L2TP组已存在，其模式为LNS。
The number of L2TP groups has reached the maximum. L2TP组个数已达上限。	The number of L2TP groups has reached the maximum. L2TP组个数已达上限。
This LAC is already specified for L2TP group x. 该LAC已被L2TP组x使用。	This LAC is already specified for L2TP group x. 该LAC已被L2TP组x使用。
The value is out of range. 参数值超出范围。	The specified VT interface is out of range. VT口参数超出范围。
The specified VT interface doesn't exist. 指定的VT口不存在。	The specified VT interface doesn't exist. 指定的VT口不存在。
The local IP address or tunnel peer name is inconsistent with the configured local IP address or tunnel peer name. 本地IP地址或对端隧道名与配置的IP地址或对端隧道名有冲突。	The local IP address or tunnel peer name is inconsistent with the configured local IP address or tunnel peer name. 本端隧道名或IP和对端隧道名或IP冲突。
L2TP group x is already configured to provide service for users who use this name. L2TP组x已经配置为使用这个名字的用户提供服务。	The user who use this name has been used by L2TP group x. 该用户名已被L2TP组x使用。
L2TP group x is already configured to provide service for users in this domain. L2TP组x已经配置为该域的用户提供服务。	The domain has been used by L2TP group x. 该域已被L2TP组x使用。
Invalid IP address. 非法IP地址。	Invalid IP address. 非法IP地址。
The object does not support the specified configuration. 对象不支持指定配置。	The configuration can’t be applied to this object. 配置不能应用在这个对象上。
Invalid LNS DNS name or IP address. 非法LNS域名名称或IP地址。	Invalid LNS DNS name or IP address. 非法LNS域名名称或IP地址。
Duplicate LNS DNS name or IP address. LNS域名名称或IP地址重复。	Duplicate LNS DNS name or IP address. LNS域名名称或IP地址重复。
VPN-Instance does not exist. VPN实例不存在。	VPN-Instance does not exist. VPN实例不存在。

L2TPV2/L2tpv2LacSrcIP

Message	Explanation
Invalid IP address. 非法IP地址。	Invalid IP address. 非法IP地址。
The object does not support the specified configuration. 对象不支持指定配置。	The configuration can't be applied to this object. 配置不能应用在这个对象上。

Contents

L2VPN 1

L2VPN/ClearVSIStatistics 1
XML structure 1
Table description 1
Columns 1
L2VPN/ClearAllVSIStatistics 1
XML structure 2
Table description 2
Columns 2
L2VPN/ClearACStatistics 2
XML structure 2
Table description 3
Columns 3
L2VPN/ClearAllACStatistics 3
XML structure 3
Table description 4
Columns 4
L2VPN/SwitchoverPW 4
XML structure 4
Table description 4
Columns 5
L2VPN/ClearVSIMAC 5
XML structure 5
Table description 5
Columns 5
L2VPN/ClearAllMAC 6
XML structure 6
Table description 6
Columns 6
L2VPN/ClearAllPWStatistics 6
XML structure 6
Table description 6
Columns 7
L2VPN/ClearVSIPWStatistics 7
XML structure 7
Table description 7
Columns 7
L2VPN/ClearXCGPWStatistics 8
XML structure 8
Table description 8
Columns 8

L2VPN

L2VPN/ClearVSIStatistics

This table is used to clear traffic statistics of the VSI.

XML structure

```
<L2VPN>
  <ClearVSIStatistics>
    <VSIStatistics>
      <VsiName></VsiName>
      <Clear></Clear>
    </VSIStatistics>
  </ClearVSIStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIStatistics
Table type	Multi-instance table
Row name	VSIStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Clear	Clear VSI traffic statistics.	N/A	This column must be empty.	Clear

L2VPN/ClearAllVSIStatistics

This table is used to clear traffic statistics of all VSI.

XML structure

```
<L2VPN>
  <ClearAllVSIStatistics>
    <Clear></Clear>
  </ClearAllVSIStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllVSIStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all VSIs.	N/A	This column must be empty.

L2VPN/ClearACStatistics

This table is used to clear traffic statistics of an AC. Currently, the AC can only be an Ethernet service instance.

XML structure

```
<L2VPN>
  <ClearACStatistics>
    <ACStatistics>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Clear></Clear>
    </ACStatistics>
  </ClearACStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearACStatistics
Table type	Multi-instance table
Row name	ACStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Clear	Clear traffic statistics.	N/A	This column must be empty.	Clear

L2VPN/ClearAllACStatistics

This table is used to clear traffic statistics of all ACs. Currently, an AC can only be an Ethernet service instance.

XML structure

```
<L2VPN>
  <ClearAllACStatistics>
    <Clear></Clear>
  </ClearAllACStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllACStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all ACs.	N/A	This column must be empty.

L2VPN/SwitchoverPW

This table is used to switch traffic from the specified PW to its backup PW.

XML structure

```
<L2VPN>
  <SwitchoverPW>
    <PeerAddr></PeerAddr>
    <PWID></PWID>
    <Switch></Switch>
  </SwitchoverPW>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SwitchoverPW
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	LSR ID of the peer PE	N/A	String, dotted decimal notation.	N/A
PWID	PW ID of the PW	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Switch	Switch to backup PW	N/A	This column must be empty.	N/A

L2VPN/ClearVSIMAC

This table is used to reset learned MAC address for the specified VSI.

XML structure

```
<L2VPN>
  <ClearVSIMAC>
    <VSI>
      <VsiName></VsiName>
      <Clear></Clear>
    </VSI>
  </ClearVSIMAC>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIMAC
Table type	Multi-instance table
Row name	VSI
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Clear	Clear learned MAC address for the VSI.	N/A	This column must be empty.	N/A

L2VPN/ClearAllMAC

This table is used to reset all learned MAC address.

XML structure

```
<L2VPN>
  <ClearAllMAC>
    <Clear></Clear>
  </ClearAllMAC>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllMAC
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all learned MAC address	N/A	This column must be empty.	N/.A

L2VPN/ClearAllPWStatistics

This table is used to clear all PW statistics.

XML structure

```
<L2VPN>
  <ClearAllPWStatistics>
    <Clear></Clear>
  </ClearAllPWStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN

Table name	ClearAllPWStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all PW statistics	N/A	This column must be empty.	N/A

L2VPN/ClearVSIPWStatistics

This table is used to clear specific PW related to the specific VSI.

XML structure

```
<L2VPN>
  <ClearVSIPWStatistics>
    <ClearVSIPWStatistic>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Clear></Clear>
    </ClearVSIPWStatistic>
  </ClearVSIPWStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIPWStatistics
Table type	Multi-instance table
Row name	ClearVSIPWStatistic
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
PeerAddr	LSR ID of the peer PE	N/A	String, dotted decimal notation.	This column must be specified together with PWID.
PWID	PW ID of the PW	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column must be specified together with PeerAddr.
Clear	Clear specific PW statistics	N/A	This column must be empty.	N/A

L2VPN/ClearXCGPWStatistics

This table is used to clear PW statistics related to the specific XCG.

XML structure

```
<L2VPN>
  <ClearXCGPWStatistics>
    <ClearXCGPWStatistic>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Clear></Clear>
    </ClearXCGPWStatistic>
  </ClearXCGPWStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearXCGPWStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	N/A
Clear	Clear specific PW statistics	N/A	This column must be empty.	N/A

Contents

L2VPN 1

L2VPN/Base 1
XML structure 1
Table description 1
Columns 1
L2VPN/VSIs 2
XML structure 2
Table description 3
Columns 4
L2VPN/VSIs/SecondaryVsis 8
XML structure 8
Table description 8
Columns 9
L2VPN/PWClasses 9
XML structure 9
Table description 9
Columns 10
L2VPN/SRVs 10
XML structure 11
Table description 11
Columns 11
L2VPN/ACs 12
XML structure 13
Table description 13
Columns 13
L2VPN/L3Interfaces 15
XML structure 15
Table description 16
Columns 16
L2VPN/L3Interfaces/AcMacLimit 17
XML structure 17
Table description 18
Columns 18
L2VPN/FloodingMACs 18
XML structure 19
Table description 19
Columns 19
L2VPN/LocalMACs 19
XML structure 19
Table description 20
Columns 20
L2VPN/VSIInterfaces 20
XML structure 20
Table description 21
Columns 21
L2VPN/VSIIpv4Subnets 21
XML structure 22
Table description 22
Columns 22
L2VPN/VSIIpv6Subnets 22
XML structure 22
Table description 23
Columns 23
L2VPN/InterfaceConfigs 23
XML structure 23
Table description 24
Columns 24

L2VPN/SrvRewrites ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 27
L2VPN/L3Rewrites ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
L2VPN/CEMClasses ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 30
L2VPN/Cems ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
L2VPN/Drni ····· 31
XML structure ····· 32
Table description ····· 32
Columns ····· 32

L2VPN

L2VPN/Base

This table contains global L2VPN information.

XML structure

```
<L2VPN>
  <Base>
    <Enable></Enable>
    <StatisticsInterval></StatisticsInterval>
    <DrniPeerLinkVxlanMappingQinq></DrniPeerLinkVxlanMappingQinq>
    <IgnoreACState></IgnoreACState>
    <IgnoreACStateEncapsulation></IgnoreACStateEncapsulation>
    <BandWidthSharing></BandWidthSharing>
    <Log></Log>
  </Base>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations and does not support rollback.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether L2VPN feature is enabled globally	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	This column doesn`t support combing ‘merge’ and ‘delete’ operations with other columns.
StatisticsInterval	Interval for collecting packets statistics	N/A	Unsigned integer • **Value range:** 30 to 65535. • **Unit:** seconds.	N/A

DrniPeerLinkVxlanMappingQinq	Dynamic AC encapsulation type	N/A	Boolean: • **true—**VXLAN Mapping Type. • **false—**Static AC Mapping Type (default).	The VXLAN ID must not be greater than 16000000
IgnoreACState	Whether to ignore the state of ACs	N/A	Boolean: • **true** • **false** (default).	N/A
IgnoreACStateEncapsulation	IgnoreACState Encapsulation	N/A	Enumeration: • 0—ALL. • 1—VPLS. • 2—VPWS	N/A
BandWidthSharing	BandWidth sharing settings	N/A	Boolean: • **True** • **false** (default).	N/A
Log	L2vpn log	N/A	Boolean: • **True**(default) • **false**	N/A

L2VPN/VSIs

This table contains information about VSIs.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <HubSpoke></HubSpoke>
      <ArpSuppression></ArpSuppression>
      <NdSuppression></NdSuppression>
      <MacLearning></MacLearning>
      <MacLimit></MacLimit>
      <AlarmEnable></AlarmEnable>
      <Flooding></Flooding>
      <FloodType></FloodType>
      <VsiInterfaceID></VsiInterfaceID>
      <Statistics></Statistics>
      <StatisticsOverlayTunnel></StatisticsOverlayTunnel>
      <Description></Description>
      <Bandwidth></Bandwidth>
      <BroadcastRestrain></BroadcastRestrain>
      <MulticastRestrain></MulticastRestrain>
      <UnknownUnicastRestrain></UnknownUnicastRestrain>
      <AdminStatus></AdminStatus>
      <Dscp></Dscp>
```

```
      <ServiceClass></ServiceClass>
      <DualReceive></DualReceive>
      <DiffServMode>
        <IngressMode></IngressMode>
        <ServiceClass></ServiceClass>
        <EgressMode></EgressMode>
        <TrustType></TrustType>
      </DiffServMode>
      <PrivateVsi></PrivateVsi>
      <SecondaryVsis></SecondaryVsis>
      <StraightForwardingtoAc></StraightForwardingtoAc>
      <MacLearningRate></MacLearningRate>
      <MacLimitDropUnknow></MacLimitDropUnknow>
      <EvpnBinding>
        <Encapsulation></Encapsulation>
        <Instance></Instance>
        <VsiTag></VsiTag>
      </EvpnBinding>
      <DefaultPwId></DefaultPwId>
      <Etree>
       <EtreeType></EtreeType>
       <EtreeVlan>
          <RootVlanID></RootVlanID>
          <LeafVlanID></LeafVlanID>
       </EtreeVlan>
      </Etree>
      <EsMode></EsMode>
      <Esi></Esi>
    </VSI>
  </VSIs>
</L2VPN>
```


Table description

Item	Description
Feature name	L2VPN
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
HubSpoke	Support for hub spoke capability.	N/A	Boolean: • true—Supported. • false—Not supported(default).	Support for this column depends on the device model. This column cannot be modified.
ArpSuppression	ARP flooding suppression	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Need confirm by products .
NdSuppression	ND flooding suppression	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Need confirm by products .
MacLearning	MAC address learning	N/A	Boolean: • true—Enabled(default). • false—Disabled.	Support for this column depends on the device model.
MacLimit	MAC table limit	N/A	Unsigned integer. Value range: The value range varies by device model.	Support for this column depends on the device model.
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
Flooding	Flooding for all destination-un known frames	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A
FloodType	Flood type	N/A	Enumeration: • 1—Broadcast • 2—Unknown unicast • 4—Unknown multicast • 3—Broadcast and unknown unicast. • 5—Broadcast and unknown multicast. • 6—Unknown unicast and unknown multicast. • 7—Broadcast, unknown unicast, and unknown multicast. • 9—Broadcast DCI • 10—Unknown unicast DCI • 11—Broadcast and unknown unicast on DCI	The value is always 7 when Flooding is enabled. The value must be set when flooding set to disabled.

			tunnels. • 12—Unknown multicast DCI • 13—Broadcast and unknown multicast on DCI tunnels. • 14—Unknown unicast and unknown multicast on DCI tunnels. • 15—Broadcast, unknown unicast, and unknown multicast on DCI tunnels. • 17—Broadcast all-direction • 18—Unknown unicast all-direction • 20—Unknown multicast all-direction • 19—Broadcast and unknown unicast in all directions. • 21—Broadcast and unknown multicast in all directions. • 22—Unknown unicast and unknown multicast in all directions. • 23—Broadcast, unknown unicast, and unknown multicast in all directions. Default: 7	
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	The range of VsiInterfaceID is reference in table of Base which in Data API.
Statistics	VSI statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
StatisticsOverlayTunnel	Overlay Tunnel statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
Description	description for the VSI	N/A	String. Length: 1 to 80 characters.	N/A
Bandwidth	VSI bandwidth	N/A	Unsigned integer Value range: The minimum value is 64 kbps. The maximum value (in kbps) varies by device model.	Support for this column depends on the device model.
BroadcastRestrain	Broadcast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The default value and maximum value vary by device model.	Support for this column depends on the device model. The default value of BroadcastRestrai

				n is the value of VSIBroadcastRestrainDefault in the Base table of Data API.
MulticastRestrain	Multicast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The default value and maximum value vary by device model.	Support for this column depends on the device model. The default value of MulticastRestrain is the value of VSIMulticastRestrainDefault in the Base table of Data API.
UnknownUnicastRestrain	Unknown-unicast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The default value and maximum value vary by device model.	Support for this column depends on the device model. The default value of UnknownUnicast Restrain is the value of VSIUnUnicastRestrainDefault in the Base table of Data API.
AdminStatus	Administratively status	N/A	Enumeration: • 1—Administratively up(default). • 2—Administratively down.	N/A
Dscp	DSCP value	N/A	Unsigned integer Value range: 0 to 63.	Support for this column depends on the device model.
ServiceClass	Service class value	N/A	Unsigned integer Value range: The value range varies by device model.	Support for this column depends on the device model. The maximum value for this column is defined in the Base table of Data API.
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this column depends on the device model.
DiffServMode	DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode • TrustType	N/A
IngressMode	DiffServ mode	N/A	Enumeration:	If the value for

	in the inbound direction		• 1—Uniform. • 2—Pipe. • 3—Short-pipe.	IngressMode is set to Uniform, the ServiceClass column cannot be configured. When you remove or delete the DiffServ mode, you must and only need to specify this column and you do not need to specify the ServiceClass, EgressMode, or TrustType column.
ServiceClass	Service class value	N/A	Enumeration: • 0—be • 1—af1. • 2—af2. • 3—af3. • 4—af4. • 5—ef. • 6—cs6. • 7—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
TrustType	Trusted protocol type	N/A	Enumeration: • 2—Inner-dot1p. • 3—DSCP.	Use this column only when the value for the EgressMode column is 3.
PrivateVsi	Private Vsi type	N/A	Enumeration: • 0—**not** privated • 1—primary • 2—community • 3—isolated	N/A
SecondaryVsis	SecondaryVsi List	Sublist	N/A	N/A
StraightForwardingtoAc	VSI straight forwarding to ac	N/A	Boolean: • **true**—Enabled. • **false—**Disabled	N/A
MacLearningRate	Mac learning rate	N/A	Unsigned integer Value range: 0 to 1000.	N/A
MacLimitDropUnknow	Mac-table limit drop-unknow	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
EvpnBinding	EvpnBinding configuration	Data structure	Members include: • Encapsulation • Instance	N/A

			VsiTag	
Encapsulation	Encapsulation mode	N/A	Enumeration: • 1—Vxlan • 3—MPLS • 4—SRv6	N/A
Instance	Evpn instance name	N/A	String. Length: 1 to 31 characters.	N/A
VsiTag	Vsitag id	N/A	Unsigned integer Value range: 1 to 4094.	N/A
DefaultPwId	Default PW id	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column cannot be modified.
Etree	E-tree	Sublist	N/A	N/A
EsMode	EVPN redundancy mode	N/A	Enumeration: • 0—All-active (default). • 1—Single-active	N/A
Esi	Ethernet segment identifier	N/A	String. Length: 9 to 24 characters.	N/A

L2VPN/VSIs/SecondaryVsis

This table is a sublist of VSIs. This table contains Secondary Vsi information.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <SecondaryVsis>
        <SecondaryVsi>
          <SecondaryVsiName></SecondaryVsiName>
        </SecondaryVsi>
      </SecondaryVsis>
    </VSI>
  </VSIs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SecondaryVsis
Table type	Single-instance table
Row name	SecondaryVsi

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecondaryVsiName	SecondaryVsi Name	Index	String. Length: 1 to 31 characters.	N/A

L2VPN/PWClasses

This table contains PW class information.

XML structure

```
<L2VPN>
  <PWClasses>
    <PWClass>
      <PWClassName></PWClassName>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <SequencingBoth></SequencingBoth>
      <SRv6PWType></SRv6PWType>
      <VccvCc></VccvCc>
      <VccvBfd></VccvBfd>
      <VccvBfdRawBfd></VccvBfdRawBfd>
      <VccvBfdTemplate></VccvBfdTemplate>
      <FlowLabel></FlowLabel>
      <Static></Static>
    </PWClass>
  </PWClasses>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	PWClasses
Table type	Multi-instance table
Row name	PWClass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PWClassName	PW class name	Index	String. Length: 1 to 19 characters.	N/A
ControlWord	control word for MPLS PWs	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
PWType	PW type for MPLS PWs	N/A	Enumeration: • 1—VLAN(default). • 2—Ethernet.	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this column depends on the device model.
SRv6PWType	PW type for SRv6 PWs	N/A	Enumeration: • 0—None(default). • 1—VLAN. 2—Ethernet.	N/A
VccvCc	Vccv cc	N/A	Enumeration: • 1—control-word. • 2—router-alert. • 3—ttl.	N/A
VccvBfd	Configure Bidirectional Forwarding Detection (BFD) for PWs	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
VccvBfdRawBfd	PW-ACH Encapsulation for BFD	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Only Support when Vccv cc is control-word
VccvBfdTemplate	BFD template name	N/A	String. Length: 1 to 63 characters.	N/A
FlowLabel	Enable L2VPN flow label	N/A	Enumeration: • 1—send. • 2—receive. • 3—both.	N/A
Static	Enable static flow label	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

L2VPN/SRVs

This table contains information about service instances of layer 2 ethernet interfaces.

XML structure

```
<L2VPN>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Encap></Encap>
      <SVlanRange></SVlanRange>
      <CVlanRange></CVlanRange>
    </SRV>
  </SRVs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports only layer 2 Ethernet interfaces. You must follow these restrictions: • Specify SVlanRange and not CVlanRange when the value of Encap is SvlanId or SvlanIdOnlyTagged or SvlanList or SvlanListOnlyTagged; • Specify both SVlanRange and CVlanRange when the value of Encap is SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll; the value of CVlanRange must is 1-4094 when the value of Encap is SvlanIdCvlanAll. • Specify CVlanRange and not SVlanRange when the value of Encap is CvlanId or CvlanList; • Don't specify SVlanRange and CVlanRange when the value of Encap is Default or Untagged or Tagged.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Encap	Encapsulation type	N/A	Enumeration: • **1**—Default. • 2—Untagged. • 3—Tagged • 4—SvlanId • 5—SvlanIdOnlyTagged • 6—SvlanIdCvlanId • 7—CvlanId • 8—CvlanList • 9—SvlanIdCvlanList • 10—SvlanIdCvlanAll • 11—SvlanList • 12—SvlanListOnlyTagged • 13—SvlanListCvlanList	Can not be modified after creation. You must and only need specify this column when you remove or delete the encapsulation, and the **SVlanRange** column or **CVlanRange** column is ignored.
SVlanRange	A outer VLAN ID or a list of outer VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must is larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The value must be different in different VLAN ID ranges. If this column is required, you must also specify the **Encap** column.
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must be larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The value must be different in different VLAN ID ranges. If this column is required, you must also specify the **Encap** column.

L2VPN/ACs

This table contains information about ACs.

XML structure

```
<L2VPN>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
      <Statistics></Statistics>
      <Bandwidth></Bandwidth>
      <LearningMode></LearningMode>
      <Flooding></Flooding>
      <FloodType></FloodType>
      <ForwardingMode></ForwardingMode>
      <TrackEntryNumber></TrackEntryNumber>
      <MicrosegmentID></MicrosegmentID>
      <OnDemand></OnDemand>
      <Leaf></Leaf>
      <UMRPreferred></UMRPreferred>
    </AC>
  </ACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

				information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	The access mode of this AC	N/A	Enumeration: • **1**—Vlan. • **2**—Ethernet.	Can not be modified after creation. By default, the value is 1.
Hub	Hub spoke attribute for the Link.	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first create the VSI with the hub-spoke capability. Can not be modified after creation.
Statistics	Whether statistics function is enabled	N/A	Boolean: • true. • false (default).	N/A
Bandwidth	AC bandwidth	N/A	Unsigned integer Value range: The minimum value is 64 kbps. The maximum value (in kbps) varies by device model.	Support for this column depends on the device model.
LearningMode	MAC learning mode of this AC	N/A	Enumeration: • 0—MAC mode. • 1—SVID only. • 2—Double VIDs. • 3—Learning disabled	By Default,the value is 0 (MAC mode). Support for this column depends on the device.
Flooding	Enabling status of flooding	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A
FloodType	Flooding type	N/A	Enumeration:	The value must be

			• 1—All ports. • 2—Source port.	set when flooding set to disabled.
ForwardingMode	Forwarding mode of this AC	N/A	Enumeration: • 0—MAC mode (default). • 1—SVID only. • 2—Double VIDs.	Support for this column depends on the device model.
TrackEntryNumber	Track entry number list	N/A	Number string: It is a comma-separated list of up to three Track entry numbers. The string must end with a number.	Example: 1,2,3 A Track entry number list cannot contain duplicate Track entry numbers.
MicrosegmentID	Microsegment ID.	N/A	Unsigned integer. Value range: 1 to 65535.	Can not be modified after creation. Support for this column depends on the device model.
OnDemand	Whether download AC on-demand.	N/A	Boolean: • true. • false(default).	Can not be modified after creation. By default, the value is false. Support for this column depends on the device model.
Leaf	Leaf role	N/A	Boolean: • true. • false(default).	N/A
UMRPreferred	UMR Preferred	N/A	Boolean: • true. • false(default).	N/A

L2VPN/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```
<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
      <TrackEntryNumber></TrackEntryNumber>
```

```
      <AcStatistics></AcStatistics>
      <Leaf></Leaf>
      <UMRPreferred></UMRPreferred>
      <AcMacLimit>
      </AcMacLimit>
    </L3Interface>
  </L3Interfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.

AccessMode	Access mode of the AC	N/A	Enumeration: • **1**—VLAN. • **2**—Ethernet.	Cannot be modified after creation. By default, the value is 2.
Hub	Hub spoke attribute for the Link.	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first create the VSI with the hub-spoke capability. Can not be modified after creation.
TrackEntryNumber	Track entry number	N/A	Number string: It is a comma-separated list of up to three Track entry numbers. The string must end with a number.	Example: 1,2,3 A Track entry number list cannot contain duplicate Track entry numbers.
AcStatistics	Whether statistics function is enabled	N/A	Boolean: • true. • false (default).	Deleting or removing VsiName will delete this member
Leaf	Leaf role	N/A	Boolean: • true. • false(default).	N/A
UMRPreferred	UMR Preferred	N/A	Boolean: • true. • false(default).	N/A
AcMacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

L2VPN/L3Interfaces/AcMacLimit

This table contains information about AcMacLimit for Layer 3 Ethernet interfaces.

XML structure

```
<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <AcMacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </AcMacLimit>
    </L3Interface>
```

```
  </L3Interfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	AcMacLimit
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only layer 3 Ethernet interfaces. Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ForwardAction	Action mode	N/A	Enumeration: • **0**—Forward(default) • **1**—Discard	Deleting or removing VsiName will delete this member
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	Deleting or removing VsiName will delete this member
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	Deleting or removing VsiName will delete this member

L2VPN/FloodingMACs

This table contains information about MAC address which which can be selectively flooded.

XML structure

```
<L2VPN>
  <FloodingMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
    </MAC>
  </FloodingMACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	FloodingMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value can't be broadcast address.	Example: 00-0c-af-e3-5d-c0. Some versions only support unicast address or all 0s.

L2VPN/LocalMACs

This table contains information about setting static local MAC addresses for each VSI.

XML structure

```
<L2VPN>
  <LocalMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
```

```
      <IfIndex></IfIndex>
      <SrvID></SrvID>
    </MAC>
  </LocalMACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	LocalMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI first.
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. IfIndex cannot be modified after creation.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	SrvID cannot be modified after creation.

L2VPN/VSIInterfaces

This table is used to create or delete VSI interfaces

XML structure

```
<L2VPN>
  <VSIInterfaces>
    <Interface>
```

```
      <ID></ID>
      <LocalEnable></LocalEnable>
      <L3VNI></L3VNI>
      <ArpSendRate></ArpSendRate>
      <PrefixRouteGenerate></PrefixRouteGenerate>
    </Interface>
  </VSIInterfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VSI interface ID	Index	Unsigned integer	The range of VsiInterfaceID is reference in table of Base which in Data API.
LocalEnable	Local distributed gateway	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
L3VNI	L3 VNI for the tenant	N/A	Unsigned integer	N/A
ArpSendRate	ARP packet sending rate limit	N/A	Unsigned integer Value range: 0 to 500.	By default, the value is 0 for no limit.
PrefixRouteGenerate	Whether EVPN route advertisement is enabled.	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	N/A

L2VPN/VSIIpv4Subnets

This table contains information about IPv4 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIpv4Subnets>
    <Ipv4Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <WildCardMask></WildCardMask>
    </Ipv4Subnet>
  </VSIIpv4Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIpv4Subnets
Table type	Multi-instance table
Row name	Ipv4Subnet
Restrictions	You must specify a gateway interface for the VSI at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv4 address	Index	String, dotted decimal notation.	N/A
WildCardMask	Wildcard mask	Index	String, dotted decimal notation.	N/A

L2VPN/VSIIpv6Subnets

This table contains information about IPv6 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIpv6Subnets>
    <Ipv6Subnet>
      <VsiName></VsiName>
```

```
      <SubnetAddress></SubnetAddress>
      <PrefixLength></PrefixLength>
    </Ipv6Subnet>
  </VSIIpv6Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIpv6Subnets
Table type	Multi-instance table
Row name	Ipv6Subnet
Restrictions	You must specify a gateway interface for the VSI at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: ABCD:EF01::1
PrefixLength	Prefix length of the IPv6 address	Index	Unsigned integer. • Value range: 1- 128.	N/A

L2VPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```
<L2VPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <SoftwareLearning></SoftwareLearning>
      <Dci></Dci>
      <VxlanOverVxlan></VxlanOverVxlan>
      <MacBasedAc></MacBasedAc>
      <LearningMode></LearningMode>
      <ForwardingMode></ForwardingMode>
      <Esi></Esi>
```

```
      <EsMode></EsMode>
      <EvpnTrackBfd></EvpnTrackBfd>
      <VtepAccess></VtepAccess>
      <TrackState></TrackState>
    </InterfaceConfig>
  </InterfaceConfigs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	InterfaceConfigs
Table type	Single-instance table
Row name	InterfaceConfig
Restrictions	You must first enable the L2VPN feature globally.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SoftwareLearning	Whether learning MAC addresses through software function is enabled	N/A	Boolean: • true • false (default)	If the default value is used, the get or get-bulk operation cannot obtain this column.
Dci	Whether Dci is enabled	N/A	Boolean: • true • false (default)	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.

VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: • true • false (default)	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: • true • false (default)	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
LearningMode	MAC learning mode	N/A	Enumeration: • 0—MAC mode (default). • 1—SVID only. • 2—Double VIDs. • 3—Learning disabled.	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
ForwardingMode	Forwarding mode	N/A	Enumeration: • 0—MAC mode (default). • 1—SVID only. • 2—Double VIDs.	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
Esi	Ethernet segment identifier	N/A	String. Length: 9 to 24 characters.	N/A
EsMode	EVPN redundancy mode	N/A	Enumeration: • 1—All-active (default). • 2—Single-active	If the default value is used, the get or get-bulk operation cannot obtain this column.
EvpnTrackBfd	Static BFD session on the AC-side interface for fast DF/BDF switchover	N/A	String. Length: 1 to 15 characters.	Can’t configure on the sub-interface.
VtepAccess	Whether the interface is a VTEP access port	N/A	Boolean: • true • false (default)	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
TrackState	Track PW state, and	N/A	HexBinary.	If the default value

	specify the encapslution type of the PWs to be tracked		Value range: 0 to 1.	is used, the get or get-bulk operation cannot obtain this column.

L2VPN/SrvRewrites

This table contains information about VLAN tag rewrite capability of service instances.

XML structure

```
<L2VPN>
  <SrvRewrites>
    <SrvRewrite>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Inbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
        <Symmetric></Symmetric>
      </Inbound>
      <Outbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
      </Outbound>
    </SrvRewrite>
  </SrvRewrites>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvRewrites
Table type	Multi-instance table
Row name	SrvRewrite
Restrictions	You must first enable the L2VPN feature globally.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance before you merge, replace or create SrvRewrites.
Inbound	Inbound direction of packets	N/A	Members include: • RewriteType • SvlanID • CvlanID • Symmetric	RewriteType must be specified.
Outbound	Outbound direction of packets	N/A	Members include: • RewriteType • SvlanID • CvlanID	The members of RewriteType must be specified.
RewriteType	Rewrite type	N/A	Unsigned integer. Value: • 1: NEST • 2: REMARK_ONE • 3: REMARK_TWO • 4: STRIP_SVLAN • 5: STRIP_CVLAN • 6: STRIP_BOTH	N/A
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Applies the opposite VLAN tag processing rule to outgoing traffic	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	By default, the value is false.

L2VPN/L3Rewrites

This table contains information about rewrite capability of ac interface.

XML structure

```
<L2VPN>
  <L3Rewrites>
    <L3Rewrite>
      <IfIndex></IfIndex>
      <RewriteType></RewriteType>
      <SVlanID></SVlanID>
      <CVlanID></CVlanID>
      <Symmetric></Symmetric>
    </L3Rewrite>
  </L3Rewrites>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Rewrites
Table type	Multi-instance table
Row name	L3Rewrite
Restrictions	You must enable L2VPN feature globally at first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
RewriteType	RewriteType	N/A	Unsigned integer.	

			Value: • 1: NEST_S • 2: NEST_C • 3: NEST_SC • 4: STRIP_S • 5: STRIP_C • 6: STRIP_SC • 7: REMARK_1TO1 • 8: REMARK_1TO2 • 9: REMARK_2TO1 • 10: REMARK_2TO2 • 11: SWAP • 12: REMARK_OFFSET_INCREASE • 13: REMARK_OFFSET_DECREASE	
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Symmetric	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	By default, the value is false.

L2VPN/CEMClasses

This table contains CEM class information.

XML structure

```
<L2VPN>
  <CEMClasses>
    <CEMClass>
      <CEMClassName></CEMClassName>
      <IdleCode></IdleCode>
      <JitterBuffer></JitterBuffer>
      <PayLoadFrame></PayLoadFrame>
      <RtpHeader></RtpHeader>
    </CEMClass>
  </CEMClasses>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN

Table name	CEMClasses
Table type	Multi-instance table
Row name	CEMClass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CEMClassName	CEM class name	Index	String. Length: 1 to 19 characters.	N/A
IdleCode	Idle-code	N/A	HexBinary. The range is 0 to 2	A null set (all bits set to zero) automatically passes.
JitterBuffer	Jitter-buffer	N/A	Unsigned integer Value range: 1 to 500	N/A
PayLoadFrame	Payload frame	N/A	Unsigned integer Number of frames in a packet,which must be 8,16,24,32,40,48	N/A
RtpHeader	Rtp-header Enable	N/A	Boolean: • true—Supported. • false—Not supported(default).	N/A

L2VPN/Cems

This table contains information about Cems.

XML structure

```
<L2VPN>
   <Cems>
    <IfIndex></IfIndex>
    <ClassAttach></ClassAttach>
    <JitterBuffer></JitterBuffer>
    <ClockRecover></ClockRecover>
    <SignalingCas></SignalingCas>
  </Cems>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Cems
Table type	Multi-instance table
Row name	Cem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ClassAttach	Cem Class-attach	N/A	String. Length: 1 to 19 characters.	N/A
ClockRecover	Cem Clock Recover	N/A	Unsigned integer. Value: • 1: ACR • 2: DCR	N/A
ClockTransmit	Cem Clock Transmit Differential	N/A	Boolean: • true—Differential. • false—Notdifferential(default).	N/A
SignalingCas	Cem Signaling Cas	N/A	Boolean: • true—Supported. • false—Notsupported(default).	N/A

L2VPN/Drni

This table contains information about Drni Peer Link information.

XML structure

```
<L2VPN>
   <Drni>
    <EthIPLTnlSourceIpAddr></EthIPLTnlSourceIpAddr>
    <EthIPLTnlDestinationIpAddr></EthIPLTnlDestinationIpAddr>
  </Drni>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Drni
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EthIPLTnlSourceIpAddr	Source Ip Address	N/A	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
EthIPLTnlDestinationIpAddr	Destination Ip Address	N/A	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.

Contents

L2VPN 1

L2VPN/Base 1
XML structure 1
Table description 2
Columns 2
L2VPN/SrvEncapCapabilities 5
XML structure 5
Table description 5
Columns 5
L2VPN/VSIs 6
XML structure 6
Table description 8
Columns 8
L2VPN/VSIs/SecondaryVsis 12
XML structure 12
Table description 12
Columns 13
L2VPN/MACInfos 13
XML structure 13
Table description 13
Columns 14
L2VPN/PWClasses 14
XML structure 14
Table description 14
Columns 15
L2VPN/SRVs 16
XML structure 16
Table description 16
Columns 16
L2VPN/ACs 17
XML structure 17
Table description 18
Columns 18
L2VPN/L3Interfaces 20
XML structure 20
Table description 21
Columns 21
L2VPN/L3Interfaces/AcMacLimit 23
XML structure 23
Table description 23
Columns 23
L2VPN/FloodingMACs 24
XML structure 24
Table description 24
Columns 25
L2VPN/LocalMACs 25
XML structure 25
Table description 25
Columns 25
L2VPN/VSIStatistics 26
XML structure 26
Table description 27
Columns 27
L2VPN/AvailableVSIInterfaceID 28
XML structure 28
Table description 28
Columns 29

L2VPN/VSIInterfaces ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 30
L2VPN/VSIIpv4Subnets ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
L2VPN/VSIIpv6Subnets ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
L2VPN/InterfaceConfigs ····· 32
XML structure ····· 32
Table description ····· 33
Columns ····· 33
L2VPN/SrvRewrites ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 35
L2VPN/L3Rewrites ····· 36
XML structure ····· 37
Table description ····· 37
Columns ····· 37
L2VPN/Links ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 39
L2VPN/CEMClasses ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 40
L2VPN/Cems ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
L2VPN/Drni ····· 41
XML structure ····· 41
Table description ····· 42
Columns ····· 42

L2VPN

L2VPN/Base

This table contains global L2VPN information.

XML structure

```
<L2VPN>
  <Base>
    <Enable></Enable>
    <SupportVsiInterface></SupportVsiInterface>
    <VsiInterfaceMinID></VsiInterfaceMinID>
    <VsiInterfaceMaxID></VsiInterfaceMaxID>
    <SupportSRV></SupportSRV>
    <SupportControlWord></SupportControlWord>
    <SupportVPLSHubSpoke></SupportVPLSHubSpoke>
    <SupportVPLSMACLimit></SupportVPLSMACLimit>
    <MACLimitMAX></MACLimitMAX>
    <SupportVPWSInterworking></SupportVPWSInterworking>
    <SupportVPWSDualReceive></SupportVPWSDualReceive>
    <SupportVPLSDualReceive></SupportVPLSDualReceive>
    <SupportVSIStatistics></SupportVSIStatistics>
    <SupportPWStatistics></SupportPWStatistics>
    <SupportVSIBandwidth></SupportVSIBandwidth>
    <SupportVSIBroadcastRestrain></SupportVSIBroadcastRestrain>
    <VSIBroadcastRestrainDefault></VSIBroadcastRestrainDefault>
    <SupportVSIMulticastRestrain></SupportVSIMulticastRestrain>
    <VSIMulticastRestrainDefault></VSIMulticastRestrainDefault>
    <SupportVSIUnUnicastRestrain></SupportVSIUnUnicastRestrain>
    <VSIUnUnicastRestrainDefault></VSIUnUnicastRestrainDefault>
    <SupportACBandwidth></SupportACBandwidth>
    <SupportVxlanOverVxlan></SupportVxlanOverVxlan>
    <SupportDscp></SupportDscp>
    <SupportServiceClass></SupportServiceClass>
    <ServiceClassValueMax></ServiceClassValueMax>
    <StatisticsInterval></StatisticsInterval>
    <SupportOverlayTunnelStatistics></SupportOverlayTunnelStatistics>
    <SupportVPLSDualReceive></SupportVPLSDualReceive>
    <DrniPeerLinkVxlanMappingQinq></DrniPeerLinkVxlanMappingQinq>
    <IgnoreACState></IgnoreACState>
    <IgnoreACStateEncapsulation></IgnoreACStateEncapsulation>
    <BandWidthSharing></BandWidthSharing>
    <Log></Log>
  </Base>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether L2VPN feature is enabled globally	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SupportVsiInterface	Whether VSI interface feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
VsiInterfaceMinID	Minimum VSI interface ID.	N/A	Unsigned integer.	N/A
VsiInterfaceMaxID	Maximum VIS interface ID.	N/A	Unsigned integer.	N/A
SupportSRV	Whether SRV feature is supported	N/A	Boolean: • **true**—Supported. • **false—**Not supported.	N/A
SupportControlWord	Whether control word feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVPLSHubSpoke	Whether VPLS hub-spoke feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVPLSMACLimit	Whether VPLS MAC limit feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
MACLimitMAX	Maximum VPLS MAC limit	N/A	Unsigned interger	N/A
SupportVPWSInterworking	Whether VPWS interworking feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A

SupportVPWSDualReceive	Whether VPWS dualreceive feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVPLSDualReceive	Whether VPLS dualreceive feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVSIStatistics	Whether VSI statistics feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportPWStatistics	Whether PW statistics feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVSIBandwidth	Whether VSI bandwidth feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVSIBroadcastRestrain	Whether VSI broadcast suppression feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
VSIBroadcastRestrainDefault	The default value of broadcast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportVSIMulticastRestrain	Whether VSI multicast suppression feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
VSIMulticastRestrainDefault	The default value of multicast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportVSIUnUnicastRestrain	Whether VSI Unknown-unicast suppression feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
VSIUnUnicastRestrainDefault	The default value of Unknown-unicast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportACBa	Whether AC	N/A	Boolean:	N/A

ndwidth	bandwidth feature is supported		• **true**—Supported. • **false**—Not supported.	
SupportVxlanOverVxlan	Whether VXLAN over VXLAN is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportDscp	Whether the DSCP feature is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportServiceClass	Whether the service class feature is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
ServiceClassValueMax	Maximum service class value.	N/A	Unsigned integer.	N/A
StatisticsInterval	Interval for collecting packets statistics	N/A	Unsigned integer Value range: 30 to 65535. Unit: seconds.	N/A
SupportOverlayTunnelStatistics	Whether the Overlay Tunnel statistics feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportVPLSDualReceive	Whether VPLS dual receive feature is supported	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
DrniPeerLinkVxlanMappingQinq	Dynamic AC encapsulation type	N/A	Boolean: • **true—**VXLAN Mapping Type. • **false—**Static AC Mapping Type .	N/A
IgnoreACState	Whether to ignore the state of ACs	N/A	Boolean: • **true** • **false** (default).	N/A
IgnoreACStateEncapsulation	IgnoreACState Encapsulation	N/A	Enumeration: • 0—ALL. • 1—VPLS. • 2—VPWS	N/A
BandWidthSharing	BandWidth sharing settings	N/A	Boolean: • **True** • **false** (default).	N/A
Log	L2vpn log	N/A	Boolean: • **True**(default). • **false**	N/A

L2VPN/SrvEncapCapabilities

This table contains the encapsulation capabilities of service instance.

XML structure

```
<L2VPN>
  <SrvEncapCapabilities>
    <Default></Default>
    <Untagged></Untagged>
    <Tagged></Tagged>
    <SvlanId></SvlanId>
    <SvlanIdOnlyTagged></SvlanIdOnlyTagged>
    <SvlanIdCvlanId></SvlanIdCvlanId>
    <CvlanId></CvlanId>
    <CvlanList></CvlanList>
    <SvlanIdCvlanList></SvlanIdCvlanList>
    <SvlanIdCvlanAll></SvlanIdCvlanAll>
    <SvlanList></SvlanList>
    <SvlanListOnlyTagged></SvlanListOnlyTagged>
    <SvlanListCvlanList></SvlanListCvlanList>
  </SrvEncapCapabilities>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvEncapCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Default	Support for matching packets by the default criteria which matches packets that do not match any other service instance.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Untagged	Support for matching untagged packets.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

Tagged	Support for matching all tagged packets.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanId	Support for matching packets by a SVLAN ID.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanIdOnlyTagged	Support for matching only tagged packets by a SVLAN ID.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanIdCvlanId	Support for matching packets by a SVLAN ID and a CVLAN ID.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
CvlanId	Support for matching packets by a CVLAN ID.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
CvlanList	Support for matching packets by CVLAN ID list.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanIdCvlanList	Support for matching packets by a SVLAN ID and CVLAN ID list.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanIdCvlanAll	Support for matching packets by a SVLAN ID and all CVLAN ID.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanList	Support for matching packets by SVLAN ID list	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanListOnlyTagged	Support for matching only tagged packets by SVLAN ID list.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
SvlanListCvlanList	Support for matching packets by SVLAN ID list and CVLAN ID list.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

L2VPN/VSIs

This table contains information about VSIs.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <HubSpoke></HubSpoke>
      <VsiIndex></VsiIndex>
```

```
<VxlanID></VxlanID>
<NvgreID></NvgreID>
<ArpSuppression></ArpSuppression>
<NdSuppression></NdSuppression>
<MacLearning></MacLearning>
<MacLimit></MacLimit>
<AlarmEnable></AlarmEnable>
<Flooding></Flooding>
<FloodType></FloodType>
<VsiInterfaceID></VsiInterfaceID>
<Statistics></Statistics>
<StatisticsOverlayTunnel></StatisticsOverlayTunnel>
<Description></Description>
<Bandwidth></Bandwidth>
<BroadcastRestrain></BroadcastRestrain>
<MulticastRestrain></MulticastRestrain>
<UnknownUnicastRestrain></UnknownUnicastRestrain>
<AdminStatus></AdminStatus>
<Status></Status>
<LocMacCnt></LocMacCnt>
<Dscp></Dscp>
<ServiceClass></ServiceClass>
<IsL3VNI></IsL3VNI>
<DualReceive></DualReceive>
<DiffServMode>
  <IngressMode></IngressMode>
  <ServiceClass></ServiceClass>
  <EgressMode></EgressMode>
  <TrustType></TrustType>
</DiffServMode>
<PrivateVsi></PrivateVsi>
<SecondaryVsis></SecondaryVsis>
<StraightForwardingtoAc></StraightForwardingtoAc>
<MacLearningRate></MacLearningRate>
<MacLimitDropUnknow></MacLimitDropUnknow>
<EvpnBinding>
  <Encapsulation></Encapsulation>
  <Instance></Instance>
  <VsiTag></VsiTag>
</EvpnBinding>
<DefaultPwId></DefaultPwId>
<Etree>
  <EtreeType></EtreeType>
  <EtreeVlan>
    <RootVlanID></RootVlanID>
    <LeafVlanID></LeafVlanID>
  </EtreeVlan>
</Etree>
```

```
      <EsMode></EsMode>
      <Esi></Esi>
    </VSI>
  </VSIs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	When the number of VSIs is large, it is recommended to use the <get-bulk> operation instead of the <get> operation that may cost a lot of time and cause the UI to get stuck.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
HubSpoke	Support for hub spoke capability	N/A	Boolean: • true—Supported. • false—Not supported.	This column cannot be modified.Support for this column depends on the device model.
VsiIndex	VSI index	N/A	Unsigned integer.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
NvgreID	NVGRE ID	N/A	Unsigned integer, Value range: 4096-16777214.	N/A
ArpSuppression	ARP flooding suppression	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
NdSuppression	ND flooding suppression	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
MacLearning	MAC address learning	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
MacLimit	MAC table limit	N/A	Unsigned integer. Value range:	Support for this column depends on the device

			The value range varies by device model.	model.
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Flooding	Flooding for all destination-unknown frames	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
FloodType	Flood type	N/A	Enumeration: • 1—Broadcast • 2—Unknown unicast • 4—Unknown multicast • 3—Broadcast and unknown unicast. • 5—Broadcast and unknown multicast. • 6—Unknown unicast and unknown multicast. • 7—Broadcast, unknown unicast, and unknown multicast. • 9—Broadcast DCI • 10—Unknown unicast DCI • 12—Unknown multicast DCI • 11—Broadcast and unknown unicast on DCI tunnels. • 13—Broadcast and unknown multicast on DCI tunnels. • 14—Unknown unicast and unknown multicast on DCI tunnels. • 15—Broadcast, unknown unicast, and unknown multicast on DCI tunnels. • 17—Broadcast all-direction • 18—Unknown unicast all-direction • 20—Unknown multicast all-direction • 19—Broadcast and unknown unicast in all directions. • 21—Broadcast and unknown multicast in all directions. • 22—Unknown unicast and unknown multicast in all directions. • 23—Broadcast, unknown unicast, and unknown multicast in all directions.	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer.	N/A

Statistics	VSI statistics	N/A	Boolean: • **true**—Enabled. • **false—**Disabled	N/A
StatisticsOverlayTunnel	Overlay Tunnel statistics	N/A	Boolean: • **true**—Enabled. • **false—**Disabled	N/A
Description	Description for the VSI	N/A	String. Length: 1 to 80 characters.	N/A
Bandwidth	VSI bandwidth	N/A	Unsigned integer Value range: The minimum value is 64 kbps. The maximum value (in kbps) varies by device model.	N/A
BroadcastRestrain	Broadcast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The maximum value varies by device model.	N/A
MulticastRestrain	Multicast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The maximum value varies by device model.	N/A
UnknownUnicastRestrain	Unknown-unicast suppression bandwidth threshold	N/A	Unsigned integer. Value range: 0, 64 to the maximum, in kbps. The maximum value varies by device model.	N/A
AdminStatus	Administratively status	N/A	Enumeration: • **1**—Administratively up. • **2**—Administratively down.	N/A
Status	VSI status	N/A	Enumeration: • **1**—Up. • **2**—Down.	N/A
LocMacCnt	The count of local MAC addresses	N/A	Unsigned integer.	The value is always zero when the mode of VSI is not VXLAN. The value may be not zero when the mode of VSI is VXLAN.
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0-63.	Support for this column depends on the device
ServiceClass	Service class value	N/A	Unsigned integer. Value range: The value range varies by device model.	Support for this column depends on the device
IsL3VNI	L3-VNI status	N/A	Boolean:	N/A

			• **true**—Enabled. • **false—**Disabled	
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this column depends on the device model.
DiffServMode	DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode • TrustType	N/A
IngressMode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
ServiceClass	Service class value	N/A	Enumeration: • 0—be • 1—af1. • 2—af2. • 3—af3. • 4—af4. • 5—ef. • 6—cs6. • 7—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
TrustType	Trusted protocol type	N/A	Enumeration: • 2—Inner-dot1p. • 3—DSCP.	Use this column only when the value for the EgressMode column is 3.
PrivateVsi	Private Vsi type	N/A	Enumeration: • 0—not privated • 1—primary • 2—community • 3—isolated	N/A
SecondaryVsis	Secondary Vsi List	Sublist	N/A	N/A
StraightForwardingtoAc	VSI straight forwarding to ac	N/A	Boolean: • **true**—Enabled. • **false—**Disabled	N/A
MacLearningRate	Mac learning rate	N/A	Unsigned integer Value range: 0 to 1000.	N/A
MacLimitDropUnknow	Mac-table limit drop-unknow	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
EvpnBinding	EvpnBinding	Data	Members include:	N/A

	configuration	structure	• Encapsulation • Instance VsiTag	
Encapsulation	Encapsulation mode	N/A	Enumeration: • 1—Vxlan • 3—MPLS • 4—SRv6	N/A
Instance	Evpn instance name	N/A	String. Length: 1 to 31 characters.	N/A
VsiTag	Vsitag id	N/A	Unsigned integer Value range: 1 to 4094.	N/A
DefaultPwId	Default PW id	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column cannot be modified.
Etree	E-tree	Sublist	N/A	N/A
EsMode	EVPN redundancy mode	N/A	Enumeration: • 0—All-active (default). • 1—Single-active	N/A
Esi	Ethernet segment identifier	N/A	String. Length: 9 to 24 characters.	N/A

L2VPN/VSIs/SecondaryVsis

This table is a sublist of VSIs. This table contains Secondary Vsi information.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <SecondaryVsis>
        <SecondaryVsi>
          <SecondaryVsiName></SecondaryVsiName>
        </SecondaryVsi>
      </SecondaryVsis>
    </VSI>
  </VSIs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SecondaryVsis

Table type	Single-instance table
Row name	SecondaryVsi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecondaryVsiName	Secondary Vsi Name	Index	String. Length: 1 to 31 characters.	N/A

L2VPN/MACInfos

This table contains global L2VPN MAC information.

XML structure

```
<L2VPN>
  <MACInfos>
    <MACInfo>
      <VsiName></VsiName>
      <MACCount></MACCount>
      <MAC></MAC>
      <MACState></MACState>
      <Aging></Aging>
    </MACInfo>
  </MACInfos>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	MACInfos
Table type	Multi-instance table
Row name	MACInfo
Restrictions	This table supports only global configurations and does not support rollback.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. • Length: 1 to 31 characters.	N/A
MACCount	The number of MAC	N/A	Unsigned integer	N/A
MAC	MAC address	N/A	String, dotted decimal notation.	N/A
MACState	MAC state	N/A	Boolean: • **true** • **false** (default).	N/A
Aging	Aging time	N/A	Unsigned integer.	

L2VPN/PWClasses

This table contains PW class information.

XML structure

```
<L2VPN>
  <PWClasses>
    <PWClass>
      <PWClassName></PWClassName>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <SequencingBoth></SequencingBoth>
      <SRv6PWType></SRv6PWType>
      <VccvCc></VccvCc>
      <VccvBfd></VccvBfd>
      <VccvBfdRawBfd></VccvBfdRawBfd>
      <VccvBfdTemplate></VccvBfdTemplate>
      <FlowLabel></FlowLabel>
      <Static></Static>
    </PWClass>
  </PWClasses>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	PWClasses
Table type	Multi-instance table
Row name	PWClass

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PWClassName	PW class name	Index	String. Length: 1 to 19 characters.	N/A
ControlWord	Control word for MPLS PWs	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
PWType	PW type for MPLS PWs	N/A	Enumeration: • 1—VLAN. • 2—Ethernet.	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: • true—Enabled. • false—Disabled.	Support for this column depends on the device model.
SRv6PWType	PW type for SRv6 PWs	N/A	Enumeration: • 0—None. • 1—VLAN. • 2—Ethernet.	N/A
VccvCc	Vccv cc	N/A	Enumeration: • 1—control-word. • 2—router-alert. • 3—ttl.	N/A
VccvBfd	Configure Bidirectional Forwarding Detection (BFD) for PWs	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
VccvBfdRawBfd	PW-ACH Encapsulation for BFD	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Only Support when Vccv cc is control-word
VccvBfdTemplate	BFD template name	N/A	String. Length: 1 to 63 characters.	N/A
FlowLabel	Enable L2VPN flow label	N/A	Enumeration: • 1—send. • 2—receive. • 3—both.	N/A
Static	Enable static flow label	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

L2VPN/SRVs

This table contains information about service instances of layer 2 ethernet interfaces.

XML structure

```
<L2VPN>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <SrvID></SrvID>
      <Encap></Encap>
      <SVlanRange></SVlanRange>
      <CVlanRange></CVlanRange>
    </SRV>
  </SRVs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports only layer 2 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an	N/A	String.	

	interface		Length: 2 to 47 characters.	
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Encap	Encapsulation type	N/A	Enumeration: • **1**—Default. • 2—Untagged. • 3—Tagged • 4—SvlanId • 5—SvlanIdOnlyTagged • 6—SvlanIdCvlanId • 7—CvlanId • 8—CvlanList • 9—SvlanIdCvlanList • 10—SvlanIdCvlanAll • 11—SvlanList • 12—SvlanListOnlyTagged • 13—SvlanListCvlanList	N/A
SVlanRange	A outer VLAN ID or a list of outer VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must is larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available when the value of Encap is SvlanId or SvlanIdOnlyTagged or SvlanList or SvlanListOnlyTagged or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must is larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available when the value of Encap is CvlanId or CvlanList or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.

L2VPN/ACs

This table contains information about ACs.

XML structure

```
<L2VPN>
  <ACs>
```

```
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
      <Statistics></Statistics>
      <Bandwidth></Bandwidth>
      <LearningMode></LearningMode>
      <InPkts></InPkts>
      <InOctets></InOctets>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <Flooding></Flooding>
      <FloodType></FloodType>
      <ForwardingMode></ForwardingMode>
      <TrackEntryNumber></TrackEntryNumber>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
      <OutOctetsRate></OutOctetsRate>
      <MicrosegmentID></MicrosegmentID>
      <OnDemand></OnDemand>
      <Leaf></Leaf>
      <UMRPreferred></UMRPreferred>
    </AC>
  </ACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For

				relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
AccessMode	The access mode of this AC	N/A	Enumeration: • **1**—Vlan. • **2**—Ethernet.	N/A
Hub	Hub spoke attribute for the Link.	N/A	Boolean: • true—Hub. • false—Spoke.	Only exists when the VSI supports hub-spoke capability.
Statistics	Whether statistics function is enabled	N/A	Boolean: • true. • false.	N/A
Bandwidth	AC bandwidth	N/A	Unsigned integer Value range: The minimum value is 64 kbps. The maximum value (in kbps) varies by device model.	N/A
LearningMode	MAC learning mode of the AC	N/A	Enumeration: • 0—MAC mode. • 1—SVID only. • 2—Double VIDs. • 3—Learning disabled	By Default,the value is 0 (MAC mode). Support for this column depends on the device.
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of Outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of Outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
Flooding	Enabling status of flooding	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

FloodType	Flooding type	N/A	Enumeration: • 1—All ports. • 2—Source port.	N/A
ForwardingMode	Forwarding mode of this AC	N/A	Enumeration: • 0—MAC mode. • 1—SVID only. • 2—Double VIDs.	Support for this column depends on the device.
TrackEntryNumber	Track entry number list	N/A	Number string: It is a comma-separated list of up to three Track entry numbers. The string must end with a number.	Example: 1,2,3
InPktsRate	Rate of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
MicrosegmentID	Microsegment ID.	N/A	Unsigned integer. Value range: 1 to 65535.	Support for this column depends on the device.
OnDemand	Whether download AC on-demand.	N/A	Boolean: • true. • false.	Support for this column depends on the device.
Leaf	Leaf role	N/A	Boolean: • true. • false.	N/A
UMRPreferred	UMR Preferred	N/A	Boolean: • true. • false	N/A

L2VPN/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```
<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VsiName></VsiName>
```

```
      <AccessMode></AccessMode>
      <Hub></Hub>
      <TrackEntryNumber></TrackEntryNumber>
      <InPkts></InPkts>
      <InOctets></InOctets>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
      <OutOctetsRate></OutOctetsRate>
      <AcStatistics></AcStatistics>
      <Leaf></Leaf>
      <UMRPreferred></UMRPreferred>
      <AcMacLimit>
      </AcMacLimit>
    </L3Interface>
  </L3Interfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	This table supports only layer 3 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs.
AccessMode	Access mode of the AC	N/A	Enumeration: • **1**—VLAN. • **2**—Ethernet.	N/A
Hub	Hub spoke attribute for the Link.	N/A	Boolean: • true—Hub. • false—Spoke.	Only exists when the VSI supports hub-spoke capability.
TrackEntryNumber	Track entry number list	N/A	Number string: It is a comma-separated list of up to three Track entry numbers. The string must end with a number.	Example: 1,2,3
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InPktsRate	Rate of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcStatistics	Whether statistics function is enabled	N/A	Boolean: • true. • false.	Deleting or removing VsiName will delete this member
Leaf	Leaf role	N/A	Boolean: • true. • false.	N/A
UMRPreferre	UMR Preferred	N/A	Boolean:	N/A

d			• true. • false.	
AcMacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

L2VPN/L3Interfaces/AcMacLimit

This table contains information about AcMacLimit for Layer 3 Ethernet interfaces.

XML structure

```
<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <AcMacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </AcMacLimit>
    </L3Interface>
  </L3Interfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	AcMacLimit
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only layer 3 Ethernet interfaces. Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

				information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ForwardAction	Action mode	N/A	Enumeration: • **0**—Forward(default) • **1**—Discard	Deleting or removing VsiName will delete this member
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	Deleting or removing VsiName will delete this member
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	Deleting or removing VsiName will delete this member

L2VPN/FloodingMACs

This table contains information about MAC addresses which can be selectively flooded.

XML structure

```
<L2VPN>
  <FloodingMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
    </MAC>
  </FloodingMACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	FloodingMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

L2VPN/LocalMACs

This table contains information about local MAC addresses of each VSI.

XML structure

```
<L2VPN>
  <LocalMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <SrvID></SrvID>
      <Type></Type>
    </MAC>
  </LocalMACs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	LocalMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	Only supported when the mode of VSI is VXLAN.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A

MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
Type	Type of local MAC address	N/A	Enumeration: • 0—Dynamic • 1—Static	N/A

L2VPN/VSIStatistics

This table contains VSI traffic statistics.

XML structure

```
<L2VPN>
  <VSIStatistics>
    <Statistics>
      <VsiName></VsiName>
      <InPkts></InPkts>
      <InOctets></InOctets>
      <InErrors></InErrors>
      <InDiscards></InDiscards>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <OutErrors></OutErrors>
      <OutDiscards></OutDiscards>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
      <OutOctetsRate></OutOctetsRate>
      <AcInPkts></AcInPkts>
      <AcInOctets></AcInOctets>
      <AcOutPkts></AcOutPkts>
```

```
      <AcOutOctets></AcOutOctets>
      <AcInPktsRate></AcInPktsRate>
      <AcInOctetsRate></AcInOctetsRate>
      <AcOutPktsRate></AcOutPktsRate>
      <AcOutOctetsRate></AcOutOctetsRate>
    </Statistics>
  </VSIStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InErrors	Number of inbound error packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InDiscards	Number of inbound discard packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of Outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of Outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutErrors	Number of Outbound error packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutDiscards	Number of Outbound discard packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InPktsRate	Rate of inbound	N/A	Unsigned integer64.	N/A

	packets		Value range: 0 to 2^{64} - 1.	
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcInPkts	Number of AC inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcInOctets	Number of AC inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcOutPkts	Number of AC outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcOutOctets	Number of AC outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcInPktsRate	Rate of AC inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcInOctetsRate	Rate of AC inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcOutPktsRate	Rate of AC outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
AcOutOctetsRate	Rate of AC outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A

L2VPN/AvailableVSIInterfaceID

This table contains the available VSI interface ID.

XML structure

```
<L2VPN>
  <AvailableVSIInterfaceID>
    <ID></ID>
  </AvailableVSIInterfaceID>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	AvailableVSIInterfaceID

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Available VSI interface ID	N/A	Unsigned integer.	The range of VsiInterfaceID is reference in table of Base which in Data API.

L2VPN/VSIInterfaces

This table contains information about VSI interfaces.

XML structure

```
<L2VPN>
  <VSIInterfaces>
    <Interface>
      <ID></ID>
      <IfIndex></IfIndex>
      <Name></Name>
      <LocalEnable></LocalEnable>
      <L3VNI></L3VNI>
      <ArpSendRate></ArpSendRate>
      <PrefixRouteGenerate></PrefixRouteGenerate>
    </Interface>
  </VSIInterfaces>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VSI interface ID	Index	Unsigned integer.	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
LocalEnable	Local distributed gateway	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
L3VNI	L3 VNI for the tenant	N/A	Unsigned integer	N/A
ArpSendRate	ARP packet sending rate limit	N/A	Unsigned integer.	0 for no limit.
PrefixRouteGenerate	Whether EVPN route advertisement is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

L2VPN/VSIIpv4Subnets

This table contains information about IPv4 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIpv4Subnets>
    <Ipv4Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <WildCardMask></WildCardMask>
      <VsiInterfaceID></VsiInterfaceID>
    </Ipv4Subnet>
  </VSIIpv4Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIpv4Subnets
Table type	Multi-instance table
Row name	Ipv4Subnet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv4 address	Index	String, dotted decimal notation.	N/A
WildCardMask	Wildcard mask	Index	String, dotted decimal notation.	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	N/A

L2VPN/VSIIpv6Subnets

This table contains information about IPv6 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIpv6Subnets>
    <Ipv6Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <PrefixLength></PrefixLength>
      <VsiInterfaceID></VsiInterfaceID>
    </Ipv6Subnet>
  </VSIIpv6Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIpv6Subnets
Table type	Multi-instance table
Row name	Ipv6Subnet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: ABCD:EF01::1
PrefixLength	Prefix length of the IPv6 address	N/A	Unsigned integer. Value range: 1- 128.	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	N/A

L2VPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```
<L2VPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <SoftwareLearning></SoftwareLearning>
      <Dci></Dci>
      <VxlanOverVxlan></VxlanOverVxlan>
      <MacBasedAc></MacBasedAc>
      <LearningMode></LearningMode>
      <ForwardingMode></ForwardingMode>
      <Esi></Esi>
      <EsMode></EsMode>
      <EvpnTrackBfd></EvpnTrackBfd>
      <VtepAccess></VtepAccess>
      <TrackState></TrackState>
```

```
    </InterfaceConfig>
  </InterfaceConfigs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	InterfaceConfigs
Table type	Single-instance table
Row name	InterfaceConfig
Restrictions	You must first enable the L2VPN feature globally. You must first carete the interface.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
SoftwareLearning	Whether learning MAC addresses through software function is enabled	N/A	Boolean: • true • false	N/A
Dci	Whether Dci is enabled	N/A	Boolean: • true • false	N/A
VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: • true • false	N/A
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: • true • false	Support for this column depends on the device model.

LearningMode	MAC learning mode	N/A	Enumeration: • 0—MAC mode (default). • 1—SVID only. • 2—Double VIDs. • 3—Learning disabled.	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
ForwardingMode	Forwarding mode	N/A	Enumeration: • 0—MAC mode (default). • 1—SVID only. • 2—Double VIDs.	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
Esi	Ethernet segment identifier	N/A	String. Length: 9 to 24 characters.	N/A
EsMode	EVPN redundancy mode	N/A	Enumeration: • 1—All-active(default). • 2—Single-active.	If the default value is used, the get or get-bulk operation cannot obtain this column.
EvpnTrackBfd	Static BFD session on the AC-side interface for fast DF/BDF switchover	N/A	String. Length: 1 to 15 characters.	Can’t configure on the sub-interface.
VtepAccess	Whether the interface is a VTEP access port	N/A	Boolean: • true • false (default)	Support for this column depends on the device model. If the default value is used, the get or get-bulk operation cannot obtain this column.
TrackState	Track PW state, and specify the encapslution type of the PWs to be tracked	N/A	HexBinary. Value range: 0 to 1.	Specify the PW encapsulation type in bits. Only the SRv6 type is supported at present. Non-supported bits will be ignored. 0x0 represents to disable tracking PW state (default). 0x00000001 represents to track the state of PWs encapsulated by SRv6. If the default value is used, the get or get-bulk operation

				cannot obtain this column.

L2VPN/SrvRewrites

This table contains information about VLAN tag rewrite capability of service instances.

XML structure

```
<L2VPN>
  <SrvRewrites>
    <SrvRewrite>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
      <Inbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
        <Symmetric></Symmetric>
      </Inbound>
      <Outbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
      </Outbound>
    </SrvRewrite>
  </SrvRewrites>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvRewrites
Table type	Multi-instance table
Row name	SrvRewrite
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface

				name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Inbound	Inbound direction of packets	N/A	Members include: • RewriteType • SvlanID • CvlanID • Symmetric	NA
Outbound	Outbound direction of packets	N/A	Members include: • RewriteType • SvlanID • CvlanID	N/A
RewriteType	Rewrite type	N/A	Unsigned integer. Value: • 1: NEST • 2: REMARK_ONE • 3: REMARK_TWO • 4: STRIP_SVLAN • 5: STRIP_CVLAN • 6: STRIP_BOTH	N/A
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Whether opposite VLAN tag processing is enabled for outgoing traffic	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	By default, the value is false.

L2VPN/L3Rewrites

This table contains information about rewrite capability of ac interface.

XML structure

```
<L2VPN>
  <L3Rewrites>
    <L3Rewrite>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <RewriteType></RewriteType>
      <SVlanID></SVlanID>
      <CVlanID></CVlanID>
      <Symmetric></Symmetric>
    </L3Rewrite>
  </L3Rewrites>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Rewrites
Table type	Multi-instance table
Row name	L3Rewrite
Restrictions	You must enable L2VPN feature globally at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
RewriteType	RewriteType	N/A	Unsigned integer. Value: • 1: NEST_S	

			• 2: NEST_C • 3: NEST_SC • 4: STRIP_S • 5: STRIP_C • 6: STRIP_SC • 7: REMARK_1TO1 • 8: REMARK_1TO2 • 9: REMARK_2TO1 • 10: REMARK_2TO2 • 11: SWAP • 12: REMARK_OFFSET_INCREASE • 13: REMARK_OFFSET_DECREASE	
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Symmetric	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A.

L2VPN/Links

This table contains information about link.

XML structure

```
<L2VPN>
  <Links>
    <Link>
      <VsiIndex></VsiIndex>
      <LinkID></LinkID>
      <LinkType></LinkType>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <TunnelID></TunnelID>
    </Link>
  </Links>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Links

Table type	Multi-instance table
Row name	Link
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIndex	VSI index	Index	Unsigned integer.	N/A
LinkID	RewriteType	N/A	Unsigned integer	N/A
LinkType	Link type	N/A	Unsigned integer.	N/A
IfIndex	Interface index	N/A	Unsigned integer.	N/A
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
TunnelID	Tunnel id	N/A	Unsigned integer.	N/A

L2VPN/CEMClasses

This table contains CEM class information.

XML structure

```
<L2VPN>
  <CEMClasses>
    <CEMClass>
      <CEMClassName></CEMClassName>S
      <IdleCode></IdleCode>
      <JitterBuffer></JitterBuffer>
      <PayLoadFrame></PayLoadFrame>
      <RtpHeader></RtpHeader>
    </CEMClass>
  </CEMClasses>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	CEMClasses
Table type	Multi-instance table
Row name	CEMClass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CEMClassNam e	CEM class name	Index	String. Length: 1 to 19 characters.	N/A
IdleCode	Idle-code	N/A	HexBinary. • The range is 0 to 2	A null set (all bits set to zero) automatically passes.
JitterBuffer	Jitter-buffer	N/A	Unsigned integer Value range: 1 to 500	N/A
PayLoadFrame	Payload frame	N/A	Unsigned integer Number of frames in a packet,which must be 8,16,24,32,40,48	N/A
RtpHeader	Rtp-header Enable	N/A	Boolean: • true—Supported. • false—Notsupported(default).	N/A

L2VPN/Cems

This table contains information about Cems.

XML structure

```
<L2VPN>
   <Cems>
    <IfIndex></IfIndex>
    <ClassAttach></ClassAttach>
    <JitterBuffer></JitterBuffer>
    <ClockRecover></ClockRecover>
    <SignalingCas></SignalingCas>
  </Cems>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Cems
Table type	Multi-instance table

Row name	Cem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ClassAttach	Cem Class-attach	N/A	String. Length: 1 to 19 characters.	N/A
ClockRecover	Cem Clock Recover	N/A	Unsigned integer. Value: • 1: ACR • 2: DCR	N/A
ClockTransmit	Cem Clock Transmit Differential	N/A	Boolean: • true—Differential. • false—Notdifferential(default).	N/A
SignalingCas	Cem Signaling Cas	N/A	Boolean: • true—Supported. • false—Notsupported(default).	N/A

L2VPN/Drni

This table contains information about Drni Peer Link information.

XML structure

```
<L2VPN>
   <Drni>
    <EthIPLTnlSourceIpAddr></EthIPLTnlSourceIpAddr>
    <EthIPLTnlDestinationIpAddr></EthIPLTnlDestinationIpAddr>
  </Drni>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Drni
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EthIPLTnlSourceIpAddr	Source Ip Address	N/A	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
EthIPLTnlDestinationIpAddr	Destination Ip Address	N/A	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.

Contents

L2VPN 2
L2VPN/BASE 2
L2VPN/VSI 2
L2VPN/PWCLASSES 2
L2VPN/SRV 3
L2VPN/L3INTERFACES 4
L2VPN/AC 4
L2VPN/FLOODINGMAC 5
L2VPN/LOCALMAC 5
L2VPN/CLEARVSISTATISTICS 6
L2VPN/CLEARALLVSISTATISTICS 6
L2VPN/VSISTATISTICS 7
L2VPN/AVAILABLE INTERFACE ID 7
L2VPN/INTERFACE ID 7
L2VPN/VSIIPV4SUBNETS 8
L2VPN/VSIIPV6SUBNETS 8
L2VPN/CLEARALLPWSTATISTICS 9
L2VPN/CLEARVSIPWSTATISTICS 9
L2VPN/CLEARVSIXCGSTATISTICS 9
L2VPN/CLEARVSIMACTAB 9
L2VPN/IFCFG 10
L2VPN/CLEAR AC STATISTICS 10
L2VPN/CLEAR ALL AC STATISTICS 11
L2VPN/REWRITE 11
L2VPN/VBRECIDS 12

L2VPN

L2VPN/BASE

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Parameters don’t exist. 参数不存在。	When the spare board is not prepared,the parameters don’t exist. 备板未准备，参数不存在。

L2VPN/VSI

Message	Explanation
When set is operated, the set value doesn’t meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value doesn’t meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executing the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

L2VPN/PWCLASSES

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。

Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Parameters don’t exist. 参数不存在。	The MOR value of the column doesn’t exist. 列的MOR值不存在。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1. Edit is not allowed. 2.No support for message sorting,the variable can’t be modified. 1.不允许编辑。 2.不支持消息排序，变量不允许修改。
Failure to apply for resources. 申请资源失败。	Failure to apply for resources.Such as failure in memory applications. 申请资源失败，比如申请内存失败。

L2VPN/SRV

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 3.Encap does not support. 1.非二层接口无 AC 数据。 2.当前接口不是以太接口和聚合接口。 3.不支持 Encap。
Parameters don’t exist. 参数不存在。	Invaild service instance ID. 无效的服务实例ID。
Configration information does not meet module requirements.	Configration information does not meet module requirements.

配置信息不符合模块要求。	

L2VPN/L3INTERFACES

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Interface does not support L3AC. 2.Hub-spoke function is not supported. 3.The user has the attribute column label,but there is no Vsiname tag at the same time. 1.接口不支持 L3AC。 2.不支持 hub-spoke 功能。 3.用户具有属性列标签，同时没有 Vsiname 标签。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.For example,set MTU=1 in the Ethernet SNAO format. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。例如在以太网SNAO格式中设置MTU=1。
Parameters don’t exist. 参数不存在。	Delete failure due to unconfigtured AC. 由于未配置AC删除失败。

L2VPN/AC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向	1.Access a no-access node. 2.Send/receive data timeout.

服务器发起连接失败。	3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 3.Interface does not support AC statistics. 4.Interface does not support AC bandwidth. 5.Hub-spoke function is not supported. 1.非二层接口无AC数据。 2.当前接口不是以太接口和聚合接口。 3.接口不支持AC统计。 4.接口不支持AC带宽。 5.不支持Encap。
When you delete the operation,you bring the AC mode or hub tag,but there is no VSI name tag. 删除操作时，若带了ACmode或Hub标签，但是没有带VsiName标签，报错，不允许修改。	When you delete the operation,you bring the AC mode or hub tag,but there is no VSI name tag. 删除操作时，若带了ACmode或Hub标签，但是没有带VsiName标签，报错，不允许修改。

L2VPN/FLOODINGMAC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

L2VPN/LOCALMAC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。

的情况。	
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Parameters don’t exist. 参数不存在。	VSI index doesn’t exist.. VSI索引不存在。

L2VPN/CLEARVSISTATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Interface does not support VSI statistics. 接口不支持 VSI 统计。

L2VPN/CLEARALLVSISTATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Interface does not support VSI statistics. 接口不支持 VSI 统计。

L2VPN/VSISTATISTICS

Message	Explanation
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Invaild configuration messages. 无效的配置信息。

L2VPN/AVAILABLE INTERFACE ID

Message	Explanation
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

L2VPN/INTERFACE ID

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无 RBAC 权限。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	Unauthorized VSIIFID. 未经授权的 VSIIFID。
Parameters don’t exist. 参数不存在。	1.VSIIFID doesn’t exist. 2.Invalid VXLAN-ID. 1.VSIIFID 不存在。

	2.无效的 VXLAN-ID。

L2VPN/VSIIPV4SUBNETS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Vsiif is not supported. 不支持 VSIIF。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	Invalid subnet address. 无效的子网地址。

L2VPN/VSIIPV6SUBNETS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Invalid VSI index. 无效的 VSI 索引。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	Invalid subnet address. 无效的子网地址。

L2VPN/CLEARALLPWSTATISTICS

Message	Explanation
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	PW statistics are not supported. 不支持 PW 统计。

L2VPN/CLEARVSIPWSTATISTICS

Message	Explanation
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	PW statistics are not supported. 不支持 PW 统计。

L2VPN/CLEARVSIXCGSTATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	PW statistics are not supported. 不支持 PW 统计。

L2VPN/CLEARVSIMACTAB

Message	Explanation
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

L2VPN/IFCFG

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Do not support Mac software learning. 2.The sub interface cannot configure the DCI. 1.不支持Mac软件学习。 2.子接口未配置DCI。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。
Can’t configure on the sub-interface. 子接口不可配置。	The sub interface cannot configure the EVPN TRACK BFD. 1.子接口不支持evpn track bfd。

L2VPN/CLEAR AC STATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Executed the set commamd, the variable exists but	1.Non-two-layer interface has no AC data.

can not be modified. 执行SET命令，变量存在但不能被修改。	2.The current interface is not a Ethernet interface and aggregate interface. 3.Interface does not support AC statistics. 1.非二层接口无AC数据。 2.当前接口不是以太接口和聚合接口。 3.接口不支持AC统计。
Parameters don't exist. 参数不存在。	The instance number of the configured message does not exist. 配置消息的实例编号不存在。

L2VPN/CLEAR ALL AC STATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Interface does not support AC statistics. 接口不支持AC统计。

L2VPN/REWRITE

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Non-two-layer interfaces have no SRV data. 2.The current interface is not a stack interface. 3.SRV rewrite is not supported. 4.When there is a symmetric attribute,inbound can only be configured. 5.The property does not configure inbound or outbound. 6.The rewriting direction is not consistent with the configuration information. 7.Illegal labels. 8.Delete rows are not supported. 1.非二层接口无 SRV 数据。 2.当前接口无栈接口。 3.不支持 SRV 重写。 4.当有对称属性是，只能配置 inbound。 5.未配置 inbound 或 outbound 属性。 6.重写方向与配置信息不一致。

	7.非法的标签。 8.不支持删除行。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无 RBAC 权限。
Parameters don’t exist. 参数不存在。	The rewrite information of the specified object does not exist. 指定对象的重写信息不存在。
When *set* is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When *set* is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。

L2VPN/VBRECIDS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
When *set* is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When *set* is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。

Contents

L2VPN event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1

L2VPN event

This event is used to report L2VPN AC download errors .

XML structure for event subscription

```
<L2VPNInterfaceNoResourceEvent>
  <L2VPNReportInterfaceNoResource>
  </L2VPNReportInterfaceNoResource>
</L2VPNInterfaceNoResourceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>L2VPN</stream>
    <filter type="subtree">
      <L2VPNInterfaceNoResourceEvent
xmlns="http://www.h3c.com/netconf/event:1.0/L2VPNReportInterfaceNoResource:1.0">
        <L2VPNReportInterfaceNoResource>
        </L2VPNReportInterfaceNoResource>
      </L2VPNInterfaceNoResourceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	L2VPNReportInterfaceNoResource
Event name	L2VPNInterfaceNoResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ L2VPNReportInterfaceNoResource:1.0
Support for extended query	No

XML structure for event report

```
<L2VPNInterfaceNoResourceEvent>
  <L2VPNReportInterfaceNoResource>
    <Operation></Operation >
    <SrvId></SrvId>
    <IfIndex></IfIndex>
    <ChassisId></ChassisId>
    <SlotId></SlotId>
    <IfName></IfName>
  </L2VPNReportInterfaceNoResource>
```

```
</L2VPNInterfaceNoResourceEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <L2VPNInterfaceNoResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/
L2VPNReportInterfaceNoResource:1.0">
   <L2VPNReportInterfaceNoResource>
    <Operation>0</Operation >
    <SrvId>1</SrvId>
    <IfIndex>1</IfIndex>
    <ChassisId>1</ChassisId>
    <SlotId>0</SlotId>
    <IfName>GigabitEthernet0/0/1</IfName>
  </L2VPNReportInterfaceNoResource>
</L2VPNInterfaceNoResourceEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Operation	AC Operation	Enumeration: • **0**—L2VPN_INTERFACE_NORES_OPERATIONTYPE_CREATE • **1**—L2VPN_INTERFACE_NORES_OPERATIONTYPE_REWRITE_INBOUND, • 2—L2VPN_INTERFACE_NORES_OPERATIONTYPE_REWRITE_OUTBOUND, • 3—L2VPN_INTERFACE_NORES_OPERATIONTYPE_REWRITE_BOTH, • **4**—L2VPN_INTERFACE_NORES_OPERATIONTYPE_STATISTICS • **5**—L2VPN_INTERFACE_NORES_OPERATIONTYPE_BUTT	No
SrvId	Ethernet service instance ID	Unsigned integer. Value range: 1 to 4096.	No
IfIndex	Interface index	Unsigned integer.	No
ChassisId	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No
SlotId	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No

Column name	Column description	Data type and restrictions	Support for extended queries
IfName	Full name of an interface	String. Length: 2 to 47 characters.	No

Contents

ietf-network-instance 1
ietf-network-instance/network-instances 1
XML structure 1
Table description 1
Columns 1
ietf-network-instance/network-instances/vrf-root 2
XML structure 2
Table description 2
Example 2

ietf-network-instance

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-network-instance".

The Example on the end of the module sets an instance that the module can't be under top node.

ietf-network-instance/network-instances

This table contains network-instances information.

XML structure

```
<ietf-network-instance>
  <network-instances>
    <network-instance>
      <name></name>
      <vrf-root>
      </vrf-root>
    </network-instance>
  </network-instances>
</ietf-network-instance>
```

Table description

Item	Description
Feature name	ietf-network-instance
Table name	network-instances
Table type	Multi-instance table
Row name	network-instance
Restrictions	The table is not supported in VSYS.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	VRF name	Index	String. Length: 1 to 31 characters.	After an instance is created, its VRF cannot be modified

Column name	Column description	Column type	Data type and restrictions	Remarks
vrf-root	Information of the vrf-root	Sublist	The details of the sublist refer to vrf-root table.	N/A

ietf-network-instance/network-instances/vrf-root

This table contains vrf-root information.

XML structure

Please refer to the XML Structure of ietf-network-instance/network-instances.

Table description

Item	Description
Feature name	ietf-network-instance
Table name	Vrf-root
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Example

```
配置一个 vpn 为 a 的 ospfv3 实例，并在该实例下创建一个 area
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:network-instances
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-network-instance">
        <v:network-instance xc:operation="merge">
          <v:name>a</v:name>
          <v:vrf-root>
            <v:routing>
              <v:control-plane-protocols>
                <v:control-plane-protocol>
```

```
                        <v:type>ospfv3</v:type>
                        <v:name>12</v:name>
                        <v:mode>0</v:mode>
                        <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
                           <b:instance>
                              <b:af>ipv6</b:af>
                              <b:areas>
                                 <b:area>
                                    <b:area-id>255.255.255.255</b:area-id>
                                 </b:area>
                              </b:areas>
                           </b:instance>
                        </b:ospfv3>
                     </v:control-plane-protocol>
                  </v:control-plane-protocols>
               </v:routing>
            </v:vrf-root>
         </v:network-instance>
      </v:network-instances>
   </config>
</edit-config>
</rpc>
```

Contents

ietf-network-instance 1
ietf-network-instance/network-instances 1
XML structure 1
Table description 1
Columns 1
ietf-network-instance/network-instances/vrf-root 2
XML structure 2
Table description 2
Example 2

ietf-network-instance

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-network-instance".

The Example on the end of the module sets an instance that the module can't be under top node.

ietf-network-instance/network-instances

This table contains network-instances information.

XML structure

```
<ietf-network-instance>
  <network-instances>
    <network-instance>
      <name></name>
      <vrf-root>
      </vrf-root>
    </network-instance>
  </network-instances>
</ietf-network-instance>
```

Table description

Item	Description
Feature name	ietf-network-instance
Table name	network-instances
Table type	Multi-instance table
Row name	network-instance
Restrictions	The table is not supported in VSYS.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	VRF name.	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
vrf-root	Information of the vrf-root.	Sublist	The details of the sublist refer to vrf-root table.	N/A

ietf-network-instance/network-instances/vrf-root

This table contains vrf-root information.

XML structure

Please refer to the XML Structure of ietf-network-instance/network-instances.

Table description

Item	Description
Feature name	ietf-network-instance
Table name	vrf-root
Table type	Single-instance table
Row name	None
Restrictions	None

Example

获取指定 vpn 下的 ospfv3 实例信息

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get-bulk>
    <filter type="subtree">
      <v:network-instances
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-network-instance">
        <v:network-instance>
          <v:name>a</v:name>
          <v:vrf-root>
            <v:routing>
              <v:control-plane-protocols>
                <v:control-plane-protocol>
                  <v:type>ospfv3</v:type>
                  <v:name>2</v:name>
                  <v:mode>0</v:mode>
                  <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
                    <b:instance>
                      <b:af>ipv6</b:af>
```

```
                                <b:explicit-router-id/>
                                <b:areas>
                                  <b:area>
                                    <b:area-id/>
                                    <b:area-type/>
                                    <b:interfaces>
                                      <b:interface>
                                        <b:name>5</b:name>
                                        <b:instance-id/>
                                      </b:interface>
                                    </b:interfaces>
                                  </b:area>
                                </b:areas>
                              </b:instance>
                            </b:ospfv3>
                          </v:control-plane-protocol>
                        </v:control-plane-protocols>
                      </v:routing>
                    </v:vrf-root>
                  </v:network-instance>
                </v:network-instances>
              </filter>
            </get-bulk>
          </rpc>
```

Contents

ietf-network-instance 1
ietf-network-instance/network-instances/vrf-root/routing/ 1

ietf-network-instance

ietf-network-instance/network-instances/vrf-root/routing/

Message	Explanation
Invalid router ID. 无效的router ID。	The router ID is invalid.
The value does not match the enumeration. 输入的值与枚举值不匹配。	The value does not match the enumeration.
The VPN instance has already been bound with VSYS. VPN实例已经与其他VSYS绑定。	Please specify another VPN instance.

Contents

L3vpn 1

L3vpn/L3vpnVRF 1
XML structure 1
Table description 2
Columns 2
L3vpn/L3vpnIf 6
XML structure 6
Table description 6
Columns 6
L3vpn/L3vpnRT 7
XML structure 7
Table description 7
Columns 7
L3vpn/L3vpnPeer 8
XML structure 8
Table description 8
Columns 8
L3vpn/L3vpnRep 9
XML structure 9
Table description 9
Columns 9
L3vpn/L3vpnReflector 10
XML structure 10
Table description 11
Columns 11
L3vpn/Global 11
XML structure 11
Table description 12
Columns 12
L3vpn/L3vpnDefaultColor 12
XML structure 12
Table description 13
Columns 13

L3vpn

L3vpn/L3vpnVRF

This table contains basic information of L3VPN VPN instances.

XML structure

```
<L3vpn>
  <L3vpnVRF>
    <VRF>
      <VRF></VRF>
      <Description></Description>
      <RD></RD>
      <IPv4RD></IPv4RD>
      <IPv6RD></IPv6RD>
      <FlowSpecRD></FlowSpecRD>
      <IPv6FlowSpecRD></IPv6FlowSpecRD>
      <Ipv4RoutingLimit>
        <Ipv4MaxRoutes></Ipv4MaxRoutes>
        <Ipv4RouteThreshold></Ipv4RouteThreshold>
        <Ipv4SimplyAlert></Ipv4SimplyAlert>
      </Ipv4RoutingLimit>
      <Ipv6RoutingLimit>
        <Ipv6MaxRoutes></Ipv6MaxRoutes>
        <Ipv6RouteThreshold></Ipv6RouteThreshold>
        <Ipv6SimplyAlert></Ipv6SimplyAlert>
      </Ipv6RoutingLimit>
      <TtlMode></TtlMode>
      <ExportRoutePolicy></ExportRoutePolicy>
      <EVPNExportRoutePolicy></EVPNExportRoutePolicy>
      <Ipv4ExportRoutePolicy></Ipv4ExportRoutePolicy>
      <Ipv6ExportRoutePolicy></Ipv6ExportRoutePolicy>
      <ImportRoutePolicy></ImportRoutePolicy>
      <EVPNImportRoutePolicy></EVPNImportRoutePolicy>
      <Ipv4ImportRoutePolicy></Ipv4ImportRoutePolicy>
      <Ipv6ImportRoutePolicy></Ipv6ImportRoutePolicy>
      <TunnelPolicy></TunnelPolicy>
      <Ipv4TunnelPolicy></Ipv4TunnelPolicy>
      <Ipv6TunnelPolicy></Ipv6TunnelPolicy>
      <Ipv4VrfLabel>
        <Ipv4VrfLabelMode></Ipv4VrfLabelMode>
        <Ipv4VrfLabelValue></Ipv4VrfLabelValue>
      </Ipv4VrfLabel>
      <Ipv6VrfLabel>
        <Ipv6VrfLabelMode></Ipv6VrfLabelMode>
```

```
          <Ipv6VrfLabelValue></Ipv6VrfLabelValue>
        </Ipv6VrfLabel>
        <SnmpContextName></SnmpContextName>
        <VpnId></VpnId>
       <Ipv4EvpnMplsRouting></Ipv4EvpnMplsRouting>
       <Ipv6EvpnMplsRouting></Ipv6EvpnMplsRouting>
       <DiffServMode>
         <IngressMode></IngressMode>
         <ServiceClass></ServiceClass>
         <EgressMode></EgressMode>
       </DiffServMode>
       <SdwanVnId></SdwanVnId>
       <RedirectPublic></RedirectPublic>
     </VRF>
   </L3vpnVRF>
</L3vpn>
```


Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnVRF
Table type	Multi-instance table
Row name	VRF
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
Description	VPN instance description.	N/A	String, case-sensitive. Length: 1 to 79 characters.	Public instance doesn't support the column.
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	The VRF RD must be the same as the RD of address family.
IPv4RD	IPv4 address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or	Public instance doesn't support the column.

			IP_address:nn.	
IPv6RD	IPv6 address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
FlowSpecRD	IPv4 FlowSpec address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
IPv6FlowSpecRD	IPv6 FlowSpec address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
Ipv4RoutingLimit	The maximum number of active routes limit of ipv4 address family view.	Data structure	Members include: • `Ipv4MaxRoutes` • `Ipv4RouteThreshold` • `Ipv4SimplyAlert`.	N/A
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family view.	N/A	Unsigned integer.	N/A
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutually exclusive with Ipv4SimplyAlert.
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	Mutually exclusive with Ipv4RouteThreshold.
Ipv6RoutingLimit	The maximum number of active routes limit of ipv6 address family view.	Data structure	Members include: • `Ipv6MaxRoutes` • `Ipv6RouteThreshold` • `Ipv6SimplyAlert`.	N/A
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer.	N/A
Ipv6RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutually exclusive with Ipv6SimplyAlert.
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	Mutually exclusive with Ipv6RouteThreshold.
TtlMode	TTL processing mode	N/A	Enumeration: • 1—Pipe. • 2—Uniform.	N/A
ExportRoutePolicy	The export route policy in VPN	N/A	String.	N/A

	view.		Length: 1 to 63 characters.	
EVPNExportRoutePolicy	The export route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ExportRoutePolicy	The export route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6ExportRoutePolicy	The export route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
ImportRoutePolicy	The import route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	N/A
EVPNImportRoutePolicy	The import route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ImportRoutePolicy	The import route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6ImportRoutePolicy	The import route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
TunnelPolicy	The tunnel policy in VPN instance view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv4TunnelPolicy	The tunnel policy in IPv4 address family view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv6TunnelPolicy	The tunnel policy in IPv6 address family view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv4VrfLabel	Method of distributing labels to VPN instance routes.	Data structure	Members include: • Ipv4VrfLabelMode. • Ipv4VrfLabelValue.	Public instance doesn't support the column.
Ipv4VrfLabelMode	Label allocation mode for the VPN instance routes.	N/A	Enumeration: • **1**—PerInstance. • **2**—PerRoute. • **3**—PerNextHop (default).	N/A
Ipv4VrfLabelValue	Static label value for the VPN instance routes.	N/A	Unsigned integer. Value range: 16 to the device-specific upper limit.	Only the PerInstance mode supports the column.
Ipv6VrfLabel	Method of distributing labels to VPN instance routes.	Data structure	Members include: • Ipv6VrfLabelMode. • Ipv6VrfLabelValue.	Public instance doesn't support the column.

Ipv6VrfLabelMode	Label allocation mode for the VPN instance routes.	N/A	Enumeration: • **1**—PerInstance. • **2**—PerRoute. • **3**—PerNextHop (default).	N/A
Ipv6VrfLabelValue	Static label value for the VPN instance routes.	N/A	Unsigned integer. Value range: 16 to the device-specific upper limit.	Only the PerInstance mode supports the column.
SnmpContextName	SNMP context name	N/A	String. Length: 1 to 32 characters.	N/A
VpnId	ID of VPN instance	N/A	String. The format is OUI<0-FFFFFF>:index<0-FFFFFFFF>	Example: 20:1
Ipv4EvpnMplsRouting	IPv4 EVPN MPLS routing function	N/A	Enumeration: • 0—Disable.(default) • 1—MPLS • 2—SDWAN	N/A
Ipv6EvpnMplsRouting	IPv6 EVPN MPLS routing function	N/A	Enumeration: • 0—Disable.(default) • 1—MPLS • 2—SDWAN	N/A
DiffServMode	MPLS DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode	N/A
IngressMode	DiffServ mode in the inbound direction	N/A	Enumeration: • **1**—Uniform. • **2**—Pipe. • **3**—Short-pipe.	N/A
ServiceClass	Service class value	N/A	Enumeration: • **0**—be • **1**—af1. • **2**—af2. • **3**—af3. • **4**—af4. • **5**—ef. • **6**—cs6. • **7**—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • **1**—Uniform. • **2**—Pipe. • **3**—Short-pipe.	N/A
SdwanVnId	SDWAN virtual network ID.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
RedirectPublic	Perform route lookup in the public routing	N/A	Enumeration: • **0**—Disable (default).	N/A

	table when VPN route lookup fails		• **1**—Enable.	

L3vpn/L3vpnIf

This table contains information about VPN instance-to-interface bindings.

XML structure

```
<L3vpn>
  <L3vpnIf>
    <Bind>
      <VRF></VRF>
      <IfIndex></IfIndex>
    </Bind>
  </L3vpnIf>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnIf
Table type	Multi-instance table
Row name	Bind
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public instance doesn't support the column.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. Public instance doesn't support the column.

L3vpn/L3vpnRT

This table contains L3VPN route target information.

XML structure

```
<L3vpn>
  <L3vpnRT>
    <RT>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </RT>
  </L3vpnRT>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnRT
Table type	Multi-instance table
Row name	RT
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
AddressFamily	Address family.	Index	Enumeration. • **1**—IPv4 unicast • **2**—IPv6 unicast • **3**—VPN • **4**—EVPN • **5**—IPv4 flowspec • **6**—IPv6 flowspec	N/A
RTType	RT type.	Index	Enumeration. • **1**—Import • **2**—Export	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1:1.

L3vpn/L3vpnPeer

This table contains L3VPN peer information.

XML structure

```
<L3vpn>
  <L3vpnPeer>
    <Peer>
      <PeerName></PeerName>
      <PeerId></PeerId>
      <UserProfile></UserProfile>
    </Peer>
  </L3vpnPeer>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnPeer
Table type	Multi-instance table
Row name	Peer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	VPN peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
PeerId	Peer ID	N/A	Unsigned integer. Value range: 1 to 134217727	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfile	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	A user profile name can contain alphabets, digits, and underlines, and it must begin with an alphabet.

L3vpn/L3vpnRep

This table contains L3VPN route replication configuration.

XML structure

```
<L3vpn>
  <L3vpnRep>
    <Replicate>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RepVRF></RepVRF>
      <Protocol></Protocol>
      <ProtocolID></ProtocolID>
      <Advertise></Advertise>
      <RoutePolicyName></RoutePolicyName>
    </Replicate>
  </L3vpnRep>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnRep
Table type	Multi-instance table
Row name	Replicate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
AddressFamily	Address family	Index	Enumeration.	N/A

			• **1**—IPv4 unicast • **2**—IPv6 unicast • **3**—VPN (currently not supported) • **4**—EVPN (currently not supported)	
RepVRF	Source VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
Protocol	Protocol name	Index	Enumeration. • **1—**Direct • **2**—Static • **3**—RIP • **4**—OSPF • **5**—IS-IS • **6**—EIGRP (IPv6 currently not supported) • **7**—BGP • **8**—UNR • **9**—Vlink-Direct	N/A
Protocol ID	Process ID or autonomous System number	Index	Unsigned integer. Value range: • 1 to 65535 for IGP protocol and EIGPR process ID. • 1 to 4294967295 for BGP AS number. • 0 for direct and static routes.	N/A
Advertise	Advertise the replicated routes to routing protocols	N/A	Enumeration. • 0—Not advertise. • 1—Advertise.	N/A
RoutePolicyNam e	Name of the routing policy applied to replicated routes	N/A	String. Length: 1 to 63 characters.	A null string indicates no routing policy is applied to replicated routes.

L3vpn/L3vpnReflector

This table contains L3VPN reflector information.

XML structure

```
<L3vpn>
  <L3vpnReflector>
    <Reflector>
      <VRF></VRF>
      <IpAddress></IpAddress>
      <SrcPort></SrcPort>
      <DestPort></DestPort>
```

```
    </Reflector>
  </L3vpnReflector>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnReflector
Table type	Multi-instance table
Row name	Reflector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
IpAddress	Destination ip of packet waiting to reflect.	N/A	IPv4 address string .	Example: 1.1.1.1. Get result contains IpAddress column indicates the reflector under the vrf exists.
SrcPort	UDP source port number of packet waiting to reflect.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 49184	N/A
DestPort	UDP destination port number of packet waiting to reflect.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 7	N/A

L3vpn/Global

This table contains L3VPN global information.

XML structure

```
<L3vpn>
  <Global>
```

```
    <IPv6RouterId></IPv6RouterId>
    <AsNotation></AsNotation>
  </Global>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6RouterId	Destination TE IPv6 router ID.	N/A	IPv6: hexadecimal string, colon-separated.	N/A
ASNotation	AsNumber Notation Type	N/A	Boolean: • true—dot. • false—plain	N/A

L3vpn/L3vpnDefaultColor

This table contains L3VPN default color information.

XML structure

```
<L3vpn>
  <L3vpnDefaultColor>
    <DefaultColor>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <Color></Color>
      <EvpnColor></EvpnColor>
    </DefaultColor>
  </L3vpnDefaultColor>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnDefaultColor
Table type	Multi-instance table
Row name	DefaultColor
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
AddressFamily	Address family.	Index	Enumeration. • 1—IPv4 unicast • 2—IPv6 unicast • 3—VPN (currently not supported) • 4—EVPN (currently not supported)	N/A
Color	Default color.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EvpnColor	EVPN default color.	N/A	Unsigned integer. Value range: 0 to 4294967295.	Public instance doesn't support the column.

Contents

L3vpn 1
L3vpn/L3vpnVRF 1
XML structure 1
Table description 2
Columns 2
L3vpn/L3vpnIf 6
XML structure 6
Table description 6
Columns 7
L3vpn/L3vpnRT 7
XML structure 7
Table description 7
Columns 8
L3vpn/L3vpnPeer 8
XML structure 8
Table description 9
Columns 9
L3vpn/L3vpnRep 9
XML structure 9
Table description 10
Columns 10
L3vpn/ Global 11
XML structure 11
Table description 11
Columns 11
L3vpn/L3vpnDefaultColor 11
XML structure 12
Table description 12
Columns 12
Appendix 13

L3vpn

L3vpn/L3vpnVRF

This table contains basic information of L3VPN VPN instances.

XML structure

```
<L3vpn>
  <L3vpnVRF>
    <VRF>
      <VRF></VRF>
      <VrfIndex></VrfIndex>
      <Description></Description>
      <RD></RD>
      <IPv4RD></IPv4RD>
      <IPv6RD></IPv6RD>
      <FlowSpecRD></FlowSpecRD>
      <IPv6FlowSpecRD></IPv6FlowSpecRD>
      <CreationTime></CreationTime>
      <AssociatedInterfaceCount></AssociatedInterfaceCount>
      <Ipv4RoutingLimit>
        <Ipv4MaxRoutes></Ipv4MaxRoutes>
        <Ipv4RouteThreshold></Ipv4RouteThreshold>
        <Ipv4SimplyAlert></Ipv4SimplyAlert>
      </Ipv4RoutingLimit>
      <Ipv6RoutingLimit>
        <Ipv6MaxRoutes></Ipv6MaxRoutes>
        <Ipv6RouteThreshold></Ipv6RouteThreshold>
        <Ipv6SimplyAlert></Ipv6SimplyAlert>
      </Ipv6RoutingLimit>
      <TtlMode></TtlMode>
      <ExportRoutePolicy></ExportRoutePolicy>
      <EVPNExportRoutePolicy></EVPNExportRoutePolicy>
      <Ipv4ExportRoutePolicy></Ipv4ExportRoutePolicy>
      <Ipv6ExportRoutePolicy></Ipv6ExportRoutePolicy>
      <ImportRoutePolicy></ImportRoutePolicy>
      <Ipv4ImportRoutePolicy></Ipv4ImportRoutePolicy>
      <EVPNImportRoutePolicy></EVPNImportRoutePolicy>
      <Ipv6ImportRoutePolicy></Ipv6ImportRoutePolicy>
      <TunnelPolicy></TunnelPolicy>
      <Ipv4TunnelPolicy></Ipv4TunnelPolicy>
      <Ipv6TunnelPolicy></Ipv6TunnelPolicy>
      <Ipv4VrfLabel>
        <Ipv4VrfLabelMode></Ipv4VrfLabelMode>
        <Ipv4VrfLabelValue></Ipv4VrfLabelValue>
```

```
        </Ipv4VrfLabel>
        <Ipv6VrfLabel>
           <Ipv6VrfLabelMode></Ipv6VrfLabelMode>
           <Ipv6VrfLabelValue></Ipv6VrfLabelValue>
        </Ipv6VrfLabel>
        <SnmpContextName></SnmpContextName>
        <VpnId></VpnId>
        <Ipv4VrfStatus></Ipv4VrfStatus>
        <Ipv6VrfStatus></Ipv6VrfStatus>
       <Ipv4EvpnMplsRouting></Ipv4EvpnMplsRouting>
       <Ipv6EvpnMplsRouting></Ipv6EvpnMplsRouting>
       <DiffServMode>
         <IngressMode></IngressMode>
         <ServiceClass></ServiceClass>
         <EgressMode></EgressMode>
       </DiffServMode>
       <SdwanVnId></SdwanVnId>
       <RedirectPublic></RedirectPublic>
     </VRF>
   </L3vpnVRF>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnVRF
Table type	Multi-instance table
Row name	VRF
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
VrfIndex	VPN instance index.	N/A	Unsigned integer. Value range: 0 to 4294967295.	For information about the string type, see "**错误! 未找到引用源。**.
Description	VPN instance description.	N/A	String, case-sensitive. Length: 1 to 79 characters.	Public instance doesn't support the column.

Column name	Column description	Column type	Data type and restrictions	Remarks
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	The VRF RD must be the same as the RD of address family.
IPv4RD	IPv4 address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
IPv6RD	IPv6 address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
FlowSpecRD	IPv4 FlowSpec address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
IPv6FlowSpecRD	IPv6 FlowSpec address family route distinguisher.	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	Public instance doesn't support the column.
CreationTime	Creation time.	N/A	String. The format is YYYY-MM-DDTHH:MM:SS.	N/A
AssociatedInterfaceCount	The number of interfaces that are binded with this VRF.	N/A	Unsigned integer.	N/A
Ipv4RoutingLimit	The maximum number of active routes limit of ipv4 address family view.	Data structure	Members include: • `Ipv4MaxRoutes` • `Ipv4RouteThreshold` • `Ipv4SimplyAlert`.	N/A
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family view.	N/A	Unsigned integer.	N/A
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutually exclusive with Ipv4SimplyAlert.
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	Mutually exclusive with Ipv4RouteThreshold.
Ipv6RoutingLimit	The maximum number of active routes limit of ipv6 address family view.	Data structure	Members include: • `Ipv6MaxRoutes` • `Ipv6RouteThreshold` • `Ipv6SimplyAlert`.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer.	N/A
Ipv6RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutually exclusive with Ipv6SimplyAlert.
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	Mutually exclusive with Ipv6RouteThreshold.
TtlMode	TTL processing mode	N/A	Enumeration: • 1—Pipe. • 2—Uniform.	N/A
ExportRoutePolicy	The export route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	N/A
EVPNExportRoutePolicy	The export route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ExportRoutePolicy	The export route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6ExportRoutePolicy	The export route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
ImportRoutePolicy	The import route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	N/A
EVPNImportRoutePolicy	The import route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ImportRoutePolicy	The import route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6ImportRoutePolicy	The import route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	N/A
TunnelPolicy	The tunnel policy in VPN instance view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv4TunnelPolicy	The tunnel policy in IPv4 address family view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv6TunnelPolicy	The tunnel policy in IPv6 address family view.	N/A	String. Length: 1 to 126 characters.	Public instance doesn't support the column.
Ipv4VrfLabel	Method of distributing labels to VPN instance routes.	Data structure	Members include: • Ipv4VrfLabelMode • Ipv4VrfLabelValue	Public instance doesn't support the column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4VrfLabelMode	Label allocation mode for the VPN instance routes.	N/A	Enumeration: • **1**—PerInstance. • **2**—PerRoute. • **3**—PerNextHop.	N/A
Ipv4VrfLabelValue	Static label value for the VPN instance routes.	N/A	Unsigned integer. Value range: 16 to the device-specific upper limit.	Only the PerInstance mode supports the column.
Ipv6VrfLabel	Method of distributing labels to VPN instance routes.	Data structure	Members include: • Ipv6VrfLabelMode • Ipv6VrfLabelValue	Public instance doesn't support the column.
Ipv6VrfLabelMode	Label allocation mode for the VPN instance routes.	N/A	Enumeration: • **1**—PerInstance. • **2**—PerRoute. • **3**—PerNextHop.	N/A
Ipv6VrfLabelValue	Static label value for the VPN instance routes.	N/A	Unsigned integer. Value range: 16 to the device-specific upper limit.	Only the PerInstance mode supports the column.
SnmpContextName	SNMP context name	N/A	String. Length: 1 to 32 characters.	N/A
VpnId	ID of VPN instance	N/A	String. The format is OUI<0-FFFFFF>:index<0-FFFFFFFF>	Example: 20:1
Ipv4VrfStatus	IPv4 VPN instance status	N/A	Enumeration. • **0**—Down. • **1**—Up.	N/A
Ipv6VrfStatus	IPv6 VPN instance status	N/A	Enumeration. • **0**—Down. • **1**—**Up**.	N/A
Ipv4EvpnMplsRouting	IPv4 EVPN MPLS routing.	N/A	Enumeration: • 0—Disable.(default) • 1—MPLS. • 2—SDWAN.	N/A
Ipv6EvpnMplsRouting	IPv6 EVPN MPLS routing.	N/A	Enumeration: • 0—Disable.(default) • 1—MPLS. • 2—SDWAN.	N/A
DiffServMode	MPLS DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode	N/A
IngressMode	DiffServ mode in the inbound direction	N/A	Enumeration: • **1**—Uniform. • **2**—Pipe.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Short-pipe.	
ServiceClass	Service class value	N/A	Enumeration: • **0**—be • **1**—af1. • **2**—af2. • **3**—af3. • **4**—af4. • **5**—ef. • **6**—cs6. • **7**—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • **1**—Uniform. • **2**—Pipe. • **3**—Short-pipe.	N/A
SdwanVnId	SDWAN virtual network ID.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
RedirectPublic	Perform route lookup in the public routing table when VPN route lookup fails	N/A	Enumeration: • **0**—Disabled. • **1—**Enabled.	N/A

L3vpn/L3vpnIf

This table contains information about VPN instance-to-interface bindings.

XML structure

```
<L3vpn>
  <L3vpnIf>
    <Bind>
      <VRF></VRF>
      <IfIndex></IfIndex>
      <Name></Name>
    </Bind>
  </L3vpnIf>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnIf
Table type	Multi-instance table
Row name	Bind

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public instance doesn't support the column.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. Public instance doesn't support the column.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

L3vpn/L3vpnRT

This table contains L3VPN Route target information.

XML structure

```
<L3vpn>
  <L3vpnRT>
    <RT>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </RT>
  </L3vpnRT>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn

Item	Description
Table name	L3vpnRT
Table type	Multi-instance table
Row name	RT
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
AddressFamily	Address family.	Index	Enumeration. • **1**—IPv4 unicast • **2**—IPv6 unicast • **3**—VPN • **4**—EVPN • **5**—IPv4 flowspec • **6**—IPv6 flowspec	N/A
RTType	RT type.	Index	Enumeration. • **1**—Import • **2**—Export	N/A
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. • The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1:1.

L3vpn/L3vpnPeer

This table contains L3VPN peer information.

XML structure

```
<L3vpn>
  <L3vpnPeer>
    <Peer>
      <PeerName></PeerName>
      <PeerId></PeerId>
      <UserProfile></UserProfile>
    </Peer>
  </L3vpnPeer>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnPeer
Table type	Multi-instance table
Row name	Peer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	VPN peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
PeerId	Peer ID	N/A	Unsigned integer. Value range: 1 to 134217727	N/A
UserProfile	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	A user profile name can contain alphabets, digits, and underlines, and it must begin with an alphabet.

L3vpn/L3vpnRep

This table contains L3VPN route replication information.

XML structure

```
<L3vpn>
  <L3vpnRep>
    <Replicate>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RepVRF></RepVRF>
      <Protocol></Protocol>
      <ProtocolID></ProtocolID>
      <Advertise></Advertise>
      <RoutePolicyName></RoutePolicyName>
    </Replicate>
  </L3vpnRep>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnRep
Table type	Multi-instance table
Row name	Rep
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
AddressFamily	Address family.	Index	Enumeration. • **1**—IPv4 unicast • **2**—IPv6 unicast • **3**—VPN (currently not supported) • **4**—EVPN(currently not supported)	N/A
RepVRF	Source VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
Protocol	Protocol.	Index	Enumeration. • **1—**Direct • **2**—Static • **3**—Rip • **4**—OSPF • **5**—ISIS • **6**—EIGRP（ipv6 currently not supported） • **7**—BGP • **8**—UNR • **9**—Vlink-Direct	N/A
Protocol ID	Process ID/ Autonomous System number	Index	Unsigned integer. Value range: 1 to 65535,or 1 to 4294967295,or 0	For IGP Protocol and EIGRP Protocol,This is 1 to 65535. For BGP Protocol ,This is 1 to 4294967295. For Direct Protocol and Static Protocol,This is

				0.
Advertise	The routes can be advertised to routing protocols	N/A	**Enumeration.** • **0**—Not advertise • **1**—Advertise	N/A
RoutePolicyName	Specify a routing policy	N/A	String. Length: 1 to 63 characters.	A null string indicates without specify a routing policy

L3vpn/ Global

This table contains L3VPN global information.

XML structure

```
<L3vpn>
  <Global>
    <IPv6RouterId></IPv6RouterId>
    <AsNotation></AsNotation>
  </Global>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6RouterId	Destination TE IPv6 router ID.	N/A	IPv6: hexadecimal string, colon-separated.	N/A
ASNotation	AsNumber Notation Type	N/A	Boolean: • true—dot. • false—plain	N/A

L3vpn/L3vpnDefaultColor

This table contains L3VPN default color information.

XML structure

```
<L3vpn>
  <L3vpnDefaultColor>
    <DefaultColor>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <Color></Color>
      <EvpnColor></EvpnColor>
    </DefaultColor>
  </L3vpnDefaultColor>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnDefaultColor
Table type	Multi-instance table
Row name	DefaultColor
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
AddressFamily	Address family.	Index	Enumeration. • 1—IPv4 unicast • 2—IPv6 unicast • 3—VPN (currently not supported) • 4—EVPN (currently not supported)	N/A
Color	Default color.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EvpnColor	EVPN default color.	N/A	Unsigned integer. Value range: 0 to 4294967295.	Public instance doesn't support the column.

Appendix

- A string contains only one VRF name.

  Example: vpn1,vpn2 (name with comma)

  It is going to find the information of the VRF whose name is “vpn1,vpn2”, rather than ”vpn1” and “vpn2”.

  Example: vpn1 vpn2 (name with space)

  It is going to find the information of the VRF whose name is “vpn1 vpn2”, rather than ”vpn1” and “vpn2”.

- When a VRF’s name is the same as another VRF’s index, name is used prior to index.

  Example: VRF-1’s name is vpn and index is 1; VRF-2's name is 1 and index is 2;

  When the VrfIndex is assigned to 1, it is considered as VRF-2’s name rather than VRF-1's index.

Contents

L3vpn 2
L3vpn/L3vpnVRF 2
L3vpn/L3vpnIf 4
L3vpn/L3vpnRT 4
L3vpn/L3vpnPeer 4
L3vpn/L3vpnRep 5
L3vpn/L3vpnDefaultColor 5

L3vpn

L3vpn/L3vpnVRF

Message	Explanation
The VRF instance is being deleted. 该VRF正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance already has an RD. 该VRF已经配置RD。	Configuration already exists, when set new configuration.
RouteThreshold and SimplyAlert can’t both be null. 请输入RouteThreshold或者SimplyAlert选项。	Invalid configuration.
Can’t connect to an L3VPN process. 连接不上L3VPN进程。	Operation failed when L3VPN process has not been started.
IPv4 route limit is exceeded. IPv4路由门限超过最大值。	Invalid configuration, please modify configuration under the guidance.
IPv6 route limit is exceeded. IPv6路由门限超过最大值。	Invalid configuration, please modify configuration under the guidance.
The IPv4 route limit cannot be 0. IPv4路由门限不能为0。	Invalid configuration, please modify configuration under the guidance.
The IPv6 route limit cannot be 0. IPv6路由门限不能为0。	Invalid configuration, please modify configuration under the guidance.
Route distinguisher format error. 路由标识格式错误。	Invalid configuration, please modify configuration under the guidance.
The IPv4 route distinguisher format error. IPv4路由标识格式错误。	Invalid configuration, please modify configuration under the guidance.
The IPv6 route distinguisher format error. IPv6路由标识格式错误。	Invalid configuration, please modify configuration under the guidance.
The FlowSpec route distinguisher format error. FlowSpec路由标识格式错误。	Invalid configuration, please modify configuration under the guidance.
The VRF RD is inconsistent with IPv4 RD. 全局RD与IPv4的RD不一致。	Invalid configuration.
The VRF RD is inconsistent with IPv6 RD. 全局RD与IPv6的RD不一致。	Invalid configuration.
The VRF RD is inconsistent with FlowSpec RD. 全局RD与FlowSpec的RD不一致。	Invalid configuration.
The label allocation mode must be ‘PerInstance’. 这个标签值的申请模式必须是每实例。	Invalid configuration. Please modify configuration under the guidance.
The static label is already allocated to another VPN instance. Please specify another label.	Invalid configuration. Please modify configuration under the guidance.

这个静态标签值已经被其他VRF占用，请重新指定标签值。	
Not enough resources to allocate the static label. 系统资源不足导致标签申请未成功。	No enough resource. Please check your device.
The static label is already allocated to the current VPN instance. Please specify another label. 这个静态标签值已经被当前VRF占用，请重新指定标签值。	Invalid configuration. Please modify configuration under the guidance.
The static label is already used by another module. Please specify another label. 这个静态标签值已经被其他模块占用，请重新指定标签值。	Invalid configuration. Please modify configuration under the guidance.
The VPN ID must be unique. 不同VPN实例的VPN ID不能相同。	Invalid configuration, please modify configuration under the guidance.
Public instance does not support description. 公网实例下不支持描述信息。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support VRF label. 公网实例下不支持VRF标签。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support EVPN routing policy. 公网实例下不支持EVPN路由策略。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support tunnel policy. 公网实例下不支持隧道策略。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support snmp context-name. 公网实例下不支持SNMP上下文。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support VPN ID. 公网实例下不支持VPN ID。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support to enable EVPN to advertise the routes of a VPN instance. 公网实例下不支持开启EVPN通告VPN路由功能。	Invalid configuration. Please modify configuration under the guidance.
Public instance does not support TTL MODE. 公网实例下不支持TTL MODE。	Invalid configuration. Please modify configuration under the guidance.
ServiceClass must exist when IngressMode is pipe or short-pipe. 仅当IngressMode为pipe或short-pipe时serviceclass才能配置。	Invalid configuration. Please modify configuration under the guidance.
ServiceClass must not exist when IngressMode is uniform. 当IngressMode为uniform时serviceclass不能配置。	Invalid configuration. Please modify configuration under the guidance.
IngressMode and EgressMode must both exist or both not exist. 必须同时配置或删除IngressMode和EgressMode。	Invalid configuration. Please modify configuration under the guidance.
DiffSerMode must be empty when IngressMode is empty.	Invalid configuration. Please modify configuration under the guidance.

IngressMode为空时DiffSerMode必须为空。	
RouteThreshold and SimplyAlert cant't both be configured. RouteThreshold和SimplyAlert选项不能同时配置。	Invalid configuration.
RedirectPublic not supported. 不支持RedirectPublic。	Invalid configuration.

L3vpn/L3vpnIf

Message	Explanation
The interface is already bound to another VRF instance. 该接口已经和其他VRF绑定。	The specified configuration is already existed, when creating a new configuration.
The interface doesn't exist. 接口不存在。	The specified interface is not existed.
Failed to allocate memory. 内存不足。	No enough resource, please check your device.
Configurations on the interface ware already removed. 接口下配置已删除。	When configurations take effect, some other configurations on the interface will be removed.
The interface is not supported. 接口不支持。	The specified interface is not supported.
The SDWAN VN-ID has already been used by another VPN instance. 该SDWAN VN-ID已被其他VPN实例使用。	Invalid configuration. Please edit the configuration by following the guidance.

L3vpn/L3vpnRT

Message	Explanation
NULL	NULL

L3vpn/L3vpnPeer

Message	Explanation
The VPN peer does not exist. VPN peer不存在。	The specified VPN peer does not exist, when deleting or removing.
The VPN peer ID cannot be modified. VPN peer ID不能被修改。	The specified VPN peer ID cannot be modified.
The VPN peer ID has been used. VPN peer ID已经被使用。	The specified VPN peer ID has been used.

VPN peer ID and profile-name do not have default value, must be empty. VPN peer ID和profile-name无默认值，必须下刷空列。	The specified configuration must be empty, when deleting or removing.
The VPN peer not supported. 不支持L3vpnPeer。	Invalid configuration.

L3vpn/L3vpnRep

Message	Explanation
The IPv6 address family doesn't support the EIGRP protocol. IPv6地址族下不支持配置EIGRP。	The IPv6 address family doesn't support the EIGRP protocol.
ProtocolID must be a number between 1 to 65535 if Protocol is IGP or EIGRP. 对于IGP和EIGRP，ProtocolID字段取值范围为1-65535。	The value of ProtocolID must be a number between 1 to 65535 if the protocol is IGP or EIGRP.
ProtocolID must be 0 if Protocol is direct, static, or vlink-direct. 对于Direct,Static和Vlink-Direct，ProtocolID字段必须为0。	The value of ProtocolID must be 0 if the protocol is direct, static, or vlink-direct.
Advertise must be 0 if Protocol is BGP. BGP协议中Advertise字段必须为0	The value of Advertise must be 0 if the protocol is BGP.

L3vpn/L3vpnDefaultColor

Message	Explanation
Public instance does not support EvpnColor. 在公网实例下不支持配置 EvpnColor	Public instance does not support EvpnColor. 在公网实例下不支持配置 EvpnColor

Contents

LAGG 1
LAGG/ClearMemberStatistics 1
XML structure 1
</LAGG>Table description 1
Columns 1
LAGG/SwitchOverPortRoles 1
XML structure 1
Table description 2
Columns 2

LAGG

LAGG/ClearMemberStatistics

The ClearMemberStatistics table is used to clear statistics from aggregation member ports.

XML structure

```
<LAGG>
  <ClearMemberStatistics>
      <ifIndex></ifIndex>
      <Clear></Clear>
  </ClearMemberStatistics>
```

</LAGG>Table description

Item	Description
Feature name	LAGG
Table name	ClearMemberStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Member port index	N/A	Unsigned integer.	N/A
Clear	Clear statistics from the aggregation member port	N/A	This column must be empty.	N/A

LAGG/SwitchOverPortRoles

The SwitchOverPortRoles table is used to switch over the roles of member ports.

XML structure

```
<LAGG>
  <SwitchOverPortRoles>
    <GroupId></GroupId>
```

```
    <SwitchOver></SwitchOver>
  </SwitchOverPortRoles>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	SwitchOverPortRoles
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Aggregation group ID	N/A	Unsigned integer. • Value range: Layer 3 aggregation group: 16385 to 32768.	N/A
SwitchOverPortRoles	Switch over primary and secondary member ports	NA	This column must be empty.	N/A

Contents

LAGG 1
LAGG/Base 1
XML structure 1
Table description 1
Columns 1
LAGG/LAGGGroups 3
XML structure 3
Table description 4
Columns 4
LAGG/LAGGMembers 7
XML structure 7
Table description 7
Columns 8

LAGG

LAGG/Base

This table contains global LAGG information.

XML structure

```
<LAGG>
  <Base>
    <SystemMac></SystemMac>
    <SystemNum></SystemNum>
    <SystemPriority></SystemPriority>
    <LoadSharingMode></LoadSharingMode>
    <ManagementVlanList></ManagementVlanList>
    <AutoAggregationEnable></AutoAggregationEnable>
    <Capability>
      <MaxGroupNum></MaxGroupNum>
      <MaxSelectPortNum></MaxSelectPortNum>
    </Capability>
    <LoadSharingAlgorithm></LoadSharingAlgorithm>
    <DefaultSelectedPortEnable></DefaultSelectedPortEnable>
    <LacpTrafficRedirectEnable></LacpTrafficRedirectEnable>
    <LocalFirstHashEnable></LocalFirstHashEnable>
  </Base>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMac	LACP system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0..

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column does not support a multicast, all-zero, or all-F MAC address.
SystemNum	LACP system number	N/A	Unsigned integer. Value range:1 to 3.	N/A
SystemPriority	Priority assigned to the local system	N/A	Unsigned integer Value range: 0 to 65535. Default: 32768.	The smaller the value, the higher the system LACP priority.
LoadSharingMode	Global link-aggregation load sharing mode.	N/A	Each bit represents a LoadSharing Mode As follows: • 1—Ingress Port • 2—Destination MAC • 4—Source MAC • 8—Destination IP • 16—Source IP • 32—VLAN ID • 64—Layer 4 destination-port • 128—Layer 4 source-port • 256—IP Protocol • 512—MPLS Label1 • 1024—MPLS Labe2 • 2048—MPLS Labe3 • 4096—Packet type-based sharing • 8192—Per-packet Default: 0	Examples: • 32—Mode is VLAN ID. • 37—Mode are VLAN ID, Source MAC and Ingress Port. Not configured for S-channel bundle group.
ManagementVlanList	Management VLAN	N/A	Bitmap. Using Base64 encoding mode.	N/A
AutoAggregationEnable	Automatic aggregation.	N/A	Boolean: • true—Enable. • false—Disable(default).	N/A
Capability	System capability of link aggregation	Data structure	Members include: • MaxGroupNum. • MaxSelectPortNum.	N/A
MaxGroupNum	The maximum number of aggregation groups that the system can create.	N/A	Unsigned integer. Length:32bits.	N/A
MaxSelectPortNum	The maximum number of Selected ports per aggregation group.	N/A	Unsigned integer. Length:32bits.	N/A
LoadSharing	Global	N/A	Unsigned integer64.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Algorithm	link-aggregation load sharing algorithm.		Default: 0.	
DefaultSelectedPortEnable	Aggregation member ports are selected by default.	N/A	Boolean: • true—Enable (default). • false—Disable.	N/A
LacpTrafficRedirectEnable	Aggregation traffic redirection.	N/A	Boolean: • true—Enable. • false—Disable (default).	N/A
LocalFirstHashEnable	Local-first link aggregation load sharing.	N/A	Boolean: • true—Enable (default). • false—Disable.	N/A

LAGG/LAGGGroups

This table contains information about link aggregation groups.

XML structure

```
<LAGG>
  <LAGGGroups>
    <LAGGGroup>
      <GroupId></GroupId>
      <LinkMode></LinkMode>
      <LacpEdgeEnable></LacpEdgeEnable>
      <LoadSharingMode></LoadSharingMode>
      <IrfSelectMode></IrfSelectMode>
      <DynamicLoadSharing>
        <Mode></Mode>
        <FlowletGapTime></FlowletGapTime>
      </DynamicLoadSharing>
      <SMLAGGroupId></SMLAGGroupId>
      <IgnoreSpeedEnable></IgnoreSpeedEnable>
      <LacpTrafficRedirectEnable></LacpTrafficRedirectEnable>
      <MaxSelected>
        <PortNum></PortNum>
        <LacpSync></LacpSync>
      </MaxSelected>
      <MinSelected>
        <PortNum></PortNum>
        <PortPercentage></PortPercentage>
      </MinSelected>
      <MadEnable></MadEnable>
      <BfdIpv4>
        <SourceIp></SourceIp>
```

```
      <DestinationIp></DestinationIp>
    </BfdIpv4>
    <BfdIpv6>
      <SourceIp></SourceIp>
      <DestinationIp></DestinationIp>
    </BfdIpv6>     <BfdCompatible></BfdCompatible>
    <SecondaryDown></SecondaryDown>
    <ReversionDelay></ReversionDelay>
  </LAGGGroup>
 </LAGGGroups>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGGroups
Table type	Multi-instance table
Row name	LAGGGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Aggregation group ID	Index	Unsigned integer. Value range: • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation group: 16385 to 32768. • Blade aggregation group: 32769 to 36864. • S-channel bundle group: 36865 to 40960.	You can specify an aggregation group name, for example: • Bridge-Aggregation1. • Route-Aggregation1. • Blade-Aggregation1. • Schannel-Bundle1.
LinkMode	Link aggregation mode	N/A	Enumeration: • 1—Static(default). • 2—Dynamic. • 3—Static backup.	Not configured for blade aggregation group.
LacpEdgeEnable	Edge aggregate interface feature	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Not configured for blade aggregation group.
LoadSharing Mode	Link-aggregation load sharing mode	N/A	Each bit represents a LoadSharing Mode As follows:	Examples: • 32—Mode is VLAN ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Ingress Port • 2—Destination MAC • 4—Source MAC • 8—Destination IP • 16—Source IP • 32—VLAN ID • 64—Layer 4 destination-port • 128—Layer 4 source-port • 256—IP Protocol • 512—MPLS Label1 • 1024—MPLS Labe2 • 2048—MPLS Labe3 • 4096—Packet type-based sharing • 8192—Per-packet Default: 0	• 37—Mode are VLAN ID, Source MAC and Ingress Port. Not configured for S-channel bundle group.
IrfSelectMode	Irf device select mode	N/A	Enmeration: • 0—None (default). • 1—Master-first. • 2—Bandwidth-first.	Not configured for S-channel bundle group.
Mode	Dynamic load sharing mode of link aggregation	N/A	Enmeration: • 0—None (default). • 1—Spray. • 2—Fixed. • 4—Eligible.	N/A
FlowletGapTime	Flowlet gap time of dynamic load sharing	N/A	Unsigned integer Value range: 16 to 65535 Default: 1000.	N/A
SMLAGGroupId	S-MLAG group ID.	N/A	Unsigned integer. Value range: 1 to 1024. Default: The aggregate interface is not assigned to any S-MLAG group.	Only support the bridge aggregation group.
IgnoreSpeedEnable	Ignore the port speed in setting the aggregation states of member ports.	N/A	Boolean: • true—Enable. • false—Disable (default).	Not configured for S-channel bundle group
LacpTrafficRedirectEnable	Aggregation traffic redirection.	N/A	Boolean: • true—Enable. • false—Disable (default).	Not configured for S-channel bundle group
MaxSelected	The maximum number of Selected ports.	Data structure	Members include: • PortNum. • LacpSync.	This configuration will not take effect in the following situations: • On a DR interface • The interface has been assigned to a smart trunk.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• The interface has been assigned to an S-MLAG group. Not configured for blade aggregation group.
PortNum	The maximum number of Selected ports in an aggregation group.	N/A	Unsigned integer.	N/A
LacpSync	Use LACPDUs to synchronize the maximum number of Selected ports.	N/A	Boolean: • true. • false (default).	N/A
MinSelected	The minimum number of Selected ports.	Data structure	Members include: • PortNum. • PortPercentage.	This configuration will not take effect in the following situations: • On a DR interface • The interface has been assigned to a smart trunk. • The interface has been assigned to an S-MLAG group. Not configured for blade aggregation group.
PortNum	The minimum number of Selected ports in the aggregation group.	N/A	Unsigned integer.	N/A
PortPercentage	The minimum percentage of Selected ports in the aggregation group.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
MadEnable	LACP MAD detection.	N/A	Boolean: • true—Enable. • false—Disable (default).	Not configured for S-channel bundle group
BfdIpv4	Link aggregation IPv4 BFD.	Data structure	Members include: • SourceIp. • DestinationIp.	Not configured for S-channel bundle group
SourceIp	Source IPv4 address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	N/A
DestinationIp	Destination IPv4 address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	N/A
BfdIpv6	Link aggregation IPv6 BFD.	Data structure	Members include: • SourceIp. • DestinationIp.	Not configured for S-channel bundle group

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIp	Source IPv6 address of the BFD session.	N/A	String.	N/A
DestinationIp	Destination IPv6 address of the BFD session.	N/A	String.	N/A
BfdCompatible	BFD compatible mode.	N/A	Boolean: • true—Enable. • false—Disable (default).	Not configured for S-channel bundle group
SecondaryDown	Secondary member port State.	N/A	Boolean: • true—Down. • false—UP (default).	Only support the route aggregation group.
ReversionDelay	Reversion delay.	N/A	Unsigned integer Value range 1 to 65535	The unit is second. Only support the route aggregation group.

LAGG/LAGGMembers

This table contains information about link aggregation members.

XML structure

```
<LAGG>
  <LAGGMembers>
    <LAGGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
      <BindMode></BindMode>
      <LacpMode></LacpMode>
      <LacpShortPeriodEnable></LacpShortPeriodEnable>
      <ActorPortPriority></ActorPortPriority>
      <ManagementPortEnable></ManagementPortEnable>
      <LacpTransparentEnable></LacpTransparentEnable>
      <PrimaryPort></PrimaryPort>
    </LAGGMember>
  </LAGGMembers>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGMembers
Table type	Multi-instance table

Item	Description
Row name	LAGGMember
Restrictions	This table supports only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Member port index	Index	Unsigned integer. Length: 32 bits.	N/A
GroupId	Aggregation group ID	N/A	Unsigned integer. Value range: • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation group: 16385 to 32768. • S-channel bundle group: 36865 to 40960. Default: 0. Not assigned to any link aggreagation group.	You can specify an aggregation group name, for example: • Bridge-Aggregation1. • Route-Aggregation1. • Blade-Aggregation1. • Schannel-Bundle1.
BindMode	Binding mode	N/A	Enumeration: • 1—Normal. Not check aggregation group configuration • 2—Force. Synchronize aggregation group configuration (Layer 3 Ethernet interfaces do not support Force to join aggregation groups) • 3—check. Check aggregation group configuration	N/A
LacpMode	LACP mode of a member port	N/A	Enumeration: • 1—Active (default). • 2—Passive.	N/A
LacpShortPeriodEnable	LACP short period function	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
ActorPortPriority	Priority assigned to this local port	N/A	Unsigned integer Value range: 0 to 65535 Default: 32768.	The smaller the value, the higher the system LACP priority.
ManagementPortEnable	Enable the management port feature	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
LacpTranspar	LACP	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
entEnable	transparent function		• true—Enabled. • false—Disabled (default).	
PrimaryPort	Whether the primary role is assigned to this local port.	N/A	Boolean: • true—Primary. • false—None (default).	N/A

Contents

LAGG 1
LAGG/Capabilities 1
XML structure 1
Table description 1
Columns 1
LAGG/LoadSharing 2
XML structure 2
Table description 2
Columns 2
LAGG/Base 4
XML structure 4
Table description 4
Columns 5
LAGG/LAGGGroups 7
XML structure 7
Table description 8
Columns 8
LAGG/LAGGMembers 12
XML structure 12
Table description 12
Columns 13
LAGG/CustomizedCapacity 18
XML structure 18
Table description 18
Columns 18

LAGG

LAGG/Capabilities

This table contains link aggregation capability information.

XML structure

```
<LAGG>
  <Capabilities>
    <Capability>
      <MaxGroup></MaxGroup>
      <MaxSelectPortList></MaxSelectPortList>
    </Capability>
  </Capabilities>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	Capabilities
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroup	Maximum number of aggregation groups.	Index	Unsigned integer. Length:32bits.	N/A
MaxSelectPortList	Supported maximum number of Selected ports per aggregation group.	N/A	Number string. It is a comma-separated list of maximum Selected port numbers. The string cannot end with a comma or hyphen, or include any whitespace characters.	For example: 8,4,2.

LAGG/LoadSharing

This table contains link aggregation LoadSharing information.

XML structure

```
<LAGG>
  <LoadSharing>
    <GroupId></GroupId>
    <Ingress-port></Ingress-port>
    <Forwarding></Forwarding>
    <Destination-ip></Destination-ip>
    <Destination-ipv6></Destination-ipv6>
    <Source-ip></Source-ip>
    <Source-ipv6></Source-ipv6>
    <Destination-mac></Destination-mac>
    <Destination-port></Destination-port>
    <Ethernet-type></Ethernet-type>
    <Ip-protocol></Ip-protocol>
    <Source-mac></Source-mac>
    <Source-port></Source-port>
    <Vlan></Vlan>
    <Mpls-label-number></Mpls-label-number>
    <Egress-Port></Egress-Port>
  </LoadSharing>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LoadSharing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Aggregation group ID	Index	Unsigned integer. • 0: Not assigned to any link aggreagation group. • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			group: 16385 to 32768. • Blade aggregation group: 32769 to 36864. • S-channel bundle group: 36865 to 40960.	
Ingress-port	Message ingress port	Index	Unsigned integer. Length: 32 bits.	N/A
Forwarding	Forwarding mode	N/A	Unsigned integer. Length: 32 bits.	N/A
Destination-ip	Destination ip address	N/A	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.	N/A
Destination-ipv6	Destination ipv6 address	N/A	Base64 Binary. Length: 1 to 31 octets.	The format of data depends on the management address subtype.
Source-ip	Source ip address	N/A	Base64 Binary. Length: 1 to 31 octets.	The format of data depends on the management address subtype.
Source-ipv6	Source ipv6 address	N/A	Base64 Binary. Length: 1 to 31 octets.	The format of data depends on the management address subtype.
Destination-mac	Destination mac	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Destination-port	Destination port	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Ethernet-type	Ethernet type	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Ip-protocol	Ip protocol	N/A	Unsigned integer. Length: 32 bits.	N/A
Source-mac	Source mac	N/A	Example: 00-0c-af-e3-5d-c0.	N/A
Source-port	Source port	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Vlan	VLAN ID	N/A	Unsigned integer. Length: 32 bits.	N/A
Mpls-label-number	Mpls label number	N/A	Unsigned integer. Length: 32 bits.	N/A
Egress-Port	Egress port	N/A	Unsigned integer. Length: 32 bits.	N/A

LAGG/Base

This table contains global LAGG information.

XML structure

```
<LAGG>
  <Base>
    <SystemID></SystemID>
    <SystemMac></SystemMac>
    <SystemNum></SystemNum>
    <SystemPriority></SystemPriority>
    <LoadSharingMode></LoadSharingMode>
    <ManagementVlanList></ManagementVlanList>
    <AutoAggregationEnable></AutoAggregationEnable>
    <Capability>
      <MaxGroupNum></MaxGroupNum>
      <MaxSelectPortNum></MaxSelectPortNum>
    </Capability>
    <LoadSharingAlgorithm></LoadSharingAlgorithm>
    <DefaultSelectedPortEnable></DefaultSelectedPortEnable>
    <LacpTrafficRedirectEnable></LacpTrafficRedirectEnable>
    <LocalFirstHashEnable></LocalFirstHashEnable>
    <DefaultCapability>
      <MaxGroup></MaxGroup>
      <MaxSelectPortNum></MaxSelectPortNum>
    </DefaultCapability>
    <CurrentCapability>
      <MaxGroup></MaxGroup>
      <MaxSelectPortNum></MaxSelectPortNum>
    </CurrentCapability>
    <NextRebootCapability>
      <MaxGroup></MaxGroup>
      <MaxSelectPortNum></MaxSelectPortNum>
    </NextRebootCapability>
  </Base>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemID	The Actor's System ID	N/A	A 6-octet MAC address value.	N/A
SystemMac	LACP system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.. This column does not support a multicast, all-zero, or all-F MAC address.
SystemNum	LACP system number	N/A	Unsigned integer. Value range:1 to 3.	N/A
SystemPriority	The priority assigned to the Actor System	N/A	Unsigned integer: 0 to 65535. The smaller the value, the higher the system LACP priority.	N/A
LoadSharing Mode	Global link-aggregation load sharing mode.	N/A	Each bit represents a LoadSharing Mode As follows: • 1—Ingress Port • 2—Destination MAC • 4—Source MAC • 8—Destination IP • 16—Source IP • 32—VLAN ID • 64—Layer 4 destination-port • 128—Layer 4 source-port • 256—IP Protocol • 512—MPLS Label1 • 1024—MPLS Labe2 • 2048—MPLS Labe3 • 4096—Packet type-based sharing • 8192—Per-packet	Examples: • 32—Mode is VLAN ID. • 37—Mode are VLAN ID, Source MAC and Ingress Port. 0 represent for nothing configured.
Management VlanList	Management VLAN	N/A	Bitmap. Using Base64 encoding mode	N/A
AutoAggregationEnable	Automatic aggregation	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Capability	System capability of link aggregation	Data structure	Members include: • MaxGroupNum. • MaxSelectPortNum.	N/A
MaxGroupNum	The maximum number of aggregation groups that the system can	N/A	Unsigned integer. Length:32bits.	This value will take effect at the next reboot when you first configured. 0 represent for nothing

Column name	Column description	Column type	Data type and restrictions	Remarks
	create.			configured.
MaxSelectPortNum	The maximum number of Selected ports per aggregation group.	N/A	Unsigned integer. Length:32bits.	This value will take effect at the next reboot when you first configured. 0 represent for nothing configured.
LoadSharingAlgorithm	Global link-aggregation load sharing algorithm.	N/A	Unsigned integer64. Length: 64 bits.	N/A
DefaultSelectedPortEnable	Aggregation member ports are selected by default.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
LacpTrafficRedirectEnable	Aggregation traffic redirection.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
LocalFirstHashEnable	Local-first link aggregation load sharing.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
DefaultCapability	Default link aggregation capability.	Data structure	Members include: • MaxGroupNum. • MaxSelectPortNum.	N/A
MaxGroupNum	Maximum number of aggregation groups supported by default.	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not configured.
MaxSelectPortNum	The maximum number of Selected ports per aggregation group by default.	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not configured.
CurrentCapability	Current link aggregation capability.	Data structure	Members include: • MaxGroupNum. • MaxSelectPortNum.	N/A
MaxGroupNum	Effective supported maximum number of aggregation groups.	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not configured.
MaxSelectPortNum	Effective supported maximum number of Selected ports per aggregation	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.			configured.
NextRebootCapability	Link aggregation capability at the next reboot.	Data structure	Members include: • MaxGroupNum. • MaxSelectPortNum.	N/A
MaxGroupNum	Supported maximum number of aggregation groups at the next reboot.	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not configured.
MaxSelectPortNum	Supported maximum number of Selected ports per aggregation group at the next reboot.	N/A	Unsigned integer. Length: 32 bits.	This value will take effect at the next reboot if you first configure it. 0 represents that this column is not configured.

LAGG/LAGGGroups

This table contains link aggregation group information.

XML structure

```
<LAGG>
  <LAGGGroups>
    <LAGGGroup>
      <GroupId></GroupId>
      <LinkMode></LinkMode>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <MemberList></MemberList>
      <MemberListEx>
        <MemberPortName></MemberPortName>
      </MemberListEx>
      <SelectedMemberList></SelectedMemberList>
      <LacpEdgeEnable></LacpEdgeEnable>
      <LoadSharingMode></LoadSharingMode>
      <PartnerSystemID></PartnerSystemID>
      <PartnerSystemPriority></PartnerSystemPriority>
      <ManagementPort></ManagementPort>
      <IrfSelectMode></IrfSelectMode>
      <DynamicLoadSharing>
        <Mode></Mode>
        <FlowletGapTime></FlowletGapTime>
      </DynamicLoadSharing>
      <SMLAGGroupId></SMLAGGroupId>
```

```
      <IgnoreSpeedEnable></IgnoreSpeedEnable>
      <LacpTrafficRedirectEnable></LacpTrafficRedirectEnable>
      <MaxSelected>
        <PortNum></PortNum>
        <LacpSync></LacpSync>
      </MaxSelected>
      <MinSelected>
        <PortNum></PortNum>
        <PortPercentage></PortPercentage>
      </MinSelected>
      <MadEnable></MadEnable>
      <BfdIpv4>
        <SourceIp></SourceIp>
        <DestinationIp></DestinationIp>
      </BfdIpv4>
      <BfdIpv6>
        <SourceIp></SourceIp>
        <DestinationIp></DestinationIp>
      </BfdIpv6>
      <BfdCompatible></BfdCompatible>
      <SecondaryDown></SecondaryDown>
      <ReversionDelay></ReversionDelay>
    </LAGGGroup>
  </LAGGGroups>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGGroups
Table type	Multi-instance table
Row name	LAGGGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Aggregation group ID	Index	Unsigned integer. • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation group: 16385 to 32768. • Blade aggregation group: 32769 to 36864. • S-channel bundle group:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			36865 to 40960.	
LinkMode	Link aggregation mode	N/A	Enumeration: • **1**—Static. • **2**—Dynamic. • **3**—Static backup.	N/A
IfIndex	Aggregate interface index	N/A	Unsigned integer.	N/A
IfName	Aggregate interface name	N/A	String Length: 2 to 47 characters	N/A
MemberList	Member list	N/A	Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Thus, each port of the bridge is represented by a single bit within the value of this object. If that bit has a value of '1' then that port is included in the set of ports; the port is not included if its bit has a value of '0'.	N/A
MemberListEx	Member list	Data structure	Members include MemberPortName	N/A
MemberPortName	Member port name	N/A	String Length: 2 to 47 characters	N/A
SelectedMemberList	Selected member list	N/A	Bitmap. No length restrictions.	Same **restriction with** MemberList.
LacpEdgeEnable	Edge aggregate interface feature	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
LoadSharingMode	Link-aggregation load sharing mode	N/A	Each bit represents a LoadSharing Mode As follows: • 1—Ingress Port • 2—Destination MAC • 4—Source MAC • 8—Destination IP • 16—Source IP • 32—VLAN ID • 64—Layer 4 destination-port • 128—Layer 4 source-port	Examples: • 32—Mode is VLAN ID. • 37—Mode are VLAN ID, Source MAC and Ingress Port.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 256—IP Protocol • 512—MPLS Label1 • 1024—MPLS Labe2 • 2048—MPLS Labe3 • 4096—Packet type-based sharing • 8192—Per-packet	
PartnerSystemID	The Partner's System ID	N/A	A 6-octet MAC address value. A value of zero indicates that there is no known Partner or the aggregation is static mode.	N/A
PartnerSystemPriority	The priority assigned to the Partner System	N/A	Unsigned integer: 0 to 65535	The smaller the value, the higher the system LACP priority.
Management Port	Management port	N/A	Interface Index ID	N/A
IrfSelectMode	Irf device select mode	N/A	Enumeration: • 0—None. • 1—Master-first. • 2—Bandwidth-first.	N/A
Mode	Dynamic load sharing mode of link aggregation	N/A	Enmeration: • 0—None. • 1—Spray. • 2—Fixed. • 4—Eligible.	N/A
FlowletGapTime	Flowlet gap time of dynamic load sharing	N/A	Unsigned integer Value range: 16 to 65535	N/A
SMLAGGroupId	S-MLAG group ID.	N/A	Unsigned integer. Value range:1to 1024. Default: The aggregate interface is not assigned to any S-MLAG group.	N/A
IgnoreSpeedEnable	Ignore the port speed in setting the aggregation states of member ports.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
LacpTrafficRedirectEnable	Aggregation traffic redirection.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
MaxSelected	The maximum number of Selected ports.	Data structure	Members include: • PortNum. • LacpSync.	N/A
PortNum	The maximum number of Selected ports in an aggregation group.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LacpSync	Use LACPDUs to synchronize the maximum number of Selected ports.	N/A	Boolean: • true. • false.	N/A
MinSelected	The minimum number of Selected ports.	Data structure	Members include: • PortNum. • PortPercentage.	N/A
PortNum	The minimum number of Selected ports in the aggregation group.	N/A	Unsigned integer.	N/A
PortPercentage	The minimum percentage of Selected ports in the aggregation group.	N/A	Unsigned integer. Value range:1to 100.	N/A
MadEnable	LACP MAD detection.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
BfdIpv4	Link aggregation IPv4 BFD.	Data structure	Members include: • SourceIp. • DestinationIp.	N/A
SourceIp	Source IPv4 address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestinationIp	Destination IPv4 address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
BfdIpv6	Link aggregation IPv6 BFD.	Data structure	Members include: • SourceIp. • DestinationIp.	N/A
SourceIp	Source IPv6 address of the BFD session.	N/A	IPv6: Hexadecimal string, colon-separated.	IPv6 example: 1:2:3:4:5:6:7:8.
DestinationIp	Destination IPv6 address of the BFD session.	N/A	IPv6: Hexadecimal string, colon-separated.	IPv6 example: 1:2:3:4:5:6:7:8.
BfdCompatible	BFD compatible mode.	N/A	Boolean: • true—Enable. • false—Disable.	N/A
SecondaryDown	Secondary member port State.	N/A	Boolean: • true—Down. • false—UP.	N/A
ReversionDelay	Reversion delay.	N/A	Unsigned integer Value range 1 to 65535	The unit is second

LAGG/LAGGMembers

The description information of current XML table should be inserted here.

XML structure

```
<LAGG>
  <LAGGMembers>
    <LAGGMember>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <GroupId></GroupId>
      <IfAggName></IfAggName>
      <SelectedStatus></SelectedStatus>
      <UnSelectedReason></UnSelectedReason>
      <LacpEnable></LacpEnable>
      <LacpMode></LacpMode>
      <LacpShortPeriodEnable></LacpShortPeriodEnable>
      <ActorPortPriority></ActorPortPriority>
      <ActorState></ActorState>
      <ActorOperKey></ActorOperKey>
      <ActorPort></ActorPort>
      <PartnerSystemID></PartnerSystemID>
      <PartnerSystemPriority></PartnerSystemPriority>
      <PartnerPortPriority></PartnerPortPriority>
      <PartnerState></PartnerState>
      <PartnerOperKey></PartnerOperKey>
      <PartnerPort></PartnerPort>
      <ManagementPortEnable></ManagementPortEnable>
      <LacpTransparentEnable></LacpTransparentEnable>
      <PrimaryPort></PrimaryPort>
      <Packets>
        <Received></Received>
        <Sent></Sent>
        <Illegal></Illegal>
      </Packets>
    </LAGGMember>
  </LAGGMembers>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGMembers
Table type	Multi-instance table

Item	Description
Row name	LAGGMember
Restrictions	This table supports only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Member port index	Index	Unsigned integer.	N/A
IfName	Member port name	N/A	String Length: 2 to 47 characters	N/A
GroupId	Aggregation group ID	N/A	Unsigned integer. • 0: Not assigned to any link aggreagation group. • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation group: 16385 to 32768. • Blade aggregation group: 32769 to 36864. • S-channel bundle group: 36865 to 40960.	N/A
IfAggName	Aggregation group name	N/A	String Length: 2 to 47 characters	N/A
SelectedStatus	Selected status of a member port	N/A	Enumeration: • 1—Selected. • 2—Unselected. • 3—Individual.	N/A
UnSelectedReason	Unselected reason of a member port	N/A	Enumeration: • 0—The port is attached to this aggregator. Indicate that selected status of a member port is Selected or Individual. • 1—The number of Selected ports had reached the upper limit. • 2—Hardware resources were not enough. • 3—The link aggregation configuration of the port was incorrect • 4—The link aggregation configuration of its peer port was incorrect. • 5—The number of Selected ports was below the lower limit. • 6—The physical or line protocol state of the port was down.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 7—The port is not selected for an aggregator. • 8—The port's hardware restriction prevented it for being Selected. • 9—The speed configuration of the port was different from that of the reference port. • 10—The duplex mode of the port was different from that of the reference port. • 11—The port and the aggregate interface had different attribute configurations. • 12—The port was in secondary state in a redundancy group. • 13—The BFD session state of the port was down. • 14—No LACPDU was received by the reference port. • 15—The reference port received its own LACPDUs. • 16—The link of the port was not aggregatable. • 17—The link of the peer port was not aggregatable. • 18—The card that hosts the port was absent. • 19—The port’s operational key was invalid. • 20—Link-aggregation traffic redirection was triggered on the local port. • 21—The port had not received LACPDUs. • 22—The operational key of the peer port was different from that of the reference port. • 23—Link-aggregation traffic redirection was triggered on the peer port. • 24—The system MAC address of the peer port was different from that of the peer port for the reference port. • 25—The peer port did not have the Synchronization	

Column name	Column description	Column type	Data type and restrictions	Remarks
			flag. • 26—The port was in Standby state. • 27—Other reason. • 28—The port was secondary member port in the aggregation group in 1+1 backup mode. • 29—The member port has low link quality. • 30—The operational key of the peer port was different than the other peer ports for the DR group to which this aggregate interface belongs. • 31—The system MAC address of the peer port was different than the other peer ports for the DR group to which this aggregate interface belongs. • 32—The system priority of the peer port was different than the other peer ports for the DR group to which this aggregate interface belongs. • 33—The speed of the port was different than the member ports of the peer DR interface. • 34—The link-aggregation lacp isolate setting had been configured • 35—The role of the aggregate interface is secondary in a smart trunk	
LacpEnable	LACP enable flag of a member port	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
LacpMode	LACP mode of a member port	N/A	Enumeration: • 1—Active. • 2—Passive.	N/A
LacpShortPeriodEnable	LACP short period function	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
ActorPortPriority	The priority assigned to this port by the Actor	N/A	Unsigned integer Value eange: 0 to 65535 The smaller the value, the higher the system LACP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			priority.	
ActorState	The Actor's state variables for the port	N/A	Encoded as individual bits within a single octet • LACP_Activity is encoded in bit 0. This flag indicates the Activity control value with regard to this link. Active LACP is encoded as a 1; Passive LACP is encoded as a 0. • LACP_Timeout is encoded in bit 1. This flag indicates the Timeout control value with regard to this link. Short Timeout is encoded as a 1; Long Timeout is encoded as a 0. • Aggregation is encoded in bit 2. If TRUE (encoded as a 1), this flag indicates that the System considers this link to be Aggregatable. If FALSE (encoded as a 0), the link is considered to be Individual. • Synchronization is encoded in bit 3. If TRUE (encoded as a 1), the System considers this link to be IN_SYNC. If FALSE (encoded as a 0), then this link is currently OUT_OF_SYNC. • Collecting is encoded in bit 4. TRUE (encoded as a 1) means collection of incoming frames on this link is definitely enabled. Its value is otherwise FALSE (encoded as a 0). • Distributing is encoded in bit 5. FALSE (encoded as a 0) means distribution of outgoing frames on this link is definitely disabled. Its value is otherwise TRUE (encoded as a 1). • Defaulted is encoded in bit 6. If TRUE (encoded as a 1), this flag indicates that the Actor's Receive machine is using Defaulted operational Partner information, administratively configured for the Partner. If FALSE (encoded as a 0), the operational Partner	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			information in use has been received in a LACPDU; • Expired is encoded in bit 7. If TRUE (encoded as a 1), this flag indicates that the Actor's Receive machine is in the EXPIRED state; if FALSE (encoded as a 0), this flag indicates that the Actor's Receive machine is not in the EXPIRED state.	
ActorOperKey	The operational Key value assigned to the port by the Actor	N/A	Unsigned integer	
ActorPort	The port number assigned to the port by the Actor	N/A	Unsigned integer	
PartnerSystemID	The Partner's System ID	N/A	A 6-octet MAC address value. A value of zero indicates that there is no known Partner or the aggregation is static mode.	
PartnerSystemPriority	The priority assigned to the Partner System	N/A	Unsigned integer Value eange: 0 to 65535	The smaller the value, the higher the system LACP priority.
PartnerPortPriority	The priority assigned to this port by the Partner	N/A	Unsigned integer Value eange: 0 to 65535	The smaller the value, the higher the system LACP priority.
PartnerState	The Partner's state variables for the port	N/A	Encoded as individual bits within a single octet.	Encoded meaning in every bits relate to **ActorState**.
PartnerOperKey	The operational Key value assigned to the port by the Partner	N/A	Unsigned integer.	N/A
PartnerPort	The port number assigned to the port by the Partner	N/A	Unsigned integer.	N/A
ManagementPortEnable	Enable the management port feature	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
LacpTransparentEnable	LACP transparent function	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
PrimaryPort	Whether the primary role is assigned to this local port	N/A	Boolean: • true—Primary. • false—None.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Packets	Packet state	Data structure	Members include: • Received. • Sent. • Illegal.	N/A
Received	Total number of received LACPDUs.	N/A	Unsigned integer.	N/A
Sent	Total number of sent LACPDUs.	N/A	Unsigned integer.	N/A
Illegal	Total number of illegal messages.	N/A	Unsigned integer.	N/A

LAGG/CustomizedCapacity

This table contains link aggregation customized information.

XML structure

```
<LAGG>
  <CustomizedCapacity>
    <MaxLoadSharingAlgorithm></MaxLoadSharingAlgorithm>
  </CustomizedCapacity>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	CustomizedCapacity
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global get operation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxLoadSharingAlgorithm	Maximum load sharing algorithm	N/A	Unsigned integer. Length: 32 bits.	N/A

Contents

LAGG 1
LAGG/Base 1
LAGG/LAGGGroups 1
LAGG/LAGGMembers 3
LAGG/SwitchOverPortRoles 4

LAGG

LAGG/Base

Message	Explanation
The MAC address cannot be a multicast address,broadcast address,or all-zero address. MAC地址不能为多播、广播或者全0地址。	The MAC address cannot be a multicast address,broadcast address,or all-zero address. MAC地址不能为多播、广播或者全0地址。

LAGG/LAGGGroups

Message	Explanation
The link aggregation group doesn't exist. 指定的聚合组不存在。	The link aggregation group doesn't exist. 指定的聚合组不存在。
Failed to create the link aggregation group. 聚合组创建失败。	Failed to create the link aggregation group. 聚合组创建失败。
Failed to set the hash key mode, because the mode is not supported. 设置负载分担模式失败，因为设备不支持指定的模式。	Failed to set the hash key mode, because the mode is not supported. 设置负载分担模式失败，因为设备不支持指定的模式。
The load-sharing mode of flexible can not be configurated with others. 负载分担flexible模式不能和其他模式同时配置	The load-sharing mode of flexible can not be configurated with others. 负载分担flexible模式不能和其他模式同时配置
The load-sharing mode of per-packet can not be configurated with others. 负载分担per-packet模式不能和其他模式同时配置	The load-sharing mode of per-packet can not be configurated with others. 负载分担per-packet模式不能和其他模式同时配置
Failed to set the dynamic hash key mode, because the mode is not supported. 设置动态负载分担模式失败，因为设备不支持指定的模式。	Failed to set the dynamic hash key mode, because the mode is not supported. 设置动态负载分担模式失败，因为设备不支持指定的模式。
The load-sharing dynamic mode of spray can not be configurated with others. 动态负载分担Spray模式不能和其他模式同时配置。	The load-sharing dynamic mode of spray can not be configurated with others. 动态负载分担Spray模式不能和其他模式同时配置。
The load-sharing dynamic mode of fixed can not be configurated with others. 动态负载分担Fixed模式不能和其他模式同时配置。	The load-sharing dynamic mode of fixed can not be configurated with others. 动态负载分担Fixed模式不能和其他模式同时配置。
The load-sharing dynamic mode of eligible can not be configurated with others. 动态负载分担Eligible模式不能和其他模式同时配置。	The load-sharing dynamic mode of eligible can not be configurated with others. 动态负载分担Eligible模式不能和其他模式同时配置。
Failed to set the dynamic hash time, because the time is out of range. 设置时间间隔失败，超出定制范围。	Failed to set the dynamic hash time, because the time is out of range. 设置时间间隔失败，超出定制范围。

Failed to set the dynamic hash time, because only eligible mode can configure FlowletGapTime. 设置时间间隔失败，只有Eligible模式可以配置FlowletGapTime。	Failed to set the dynamic hash time, because only eligible mode can configure FlowletGapTime. 设置时间间隔失败，只有Eligible模式可以配置FlowletGapTime。
Failed to delete the dynamic hash time, because the FlowletGapTime unable to configure separately. 删除时间间隔失败，无法单独删除时间间隔配置。	Failed to delete the dynamic hash time, because the FlowletGapTime unable to configure separately. 删除时间间隔失败，无法单独删除时间间隔配置。
The minimum number of Selected ports must be equal to or smaller than the maximum number of Selected ports. 最小选中端口数必须小于等于最大选中端口数。。	The minimum number of Selected ports must be equal to or smaller than the maximum number of Selected ports. 最小选中端口数必须小于等于最大选中端口数。
The maximum number of Selected ports must be equal to or larger than the minimum number of Selected ports. 最大选中端口数必须大于等于最小选中端口数。	The maximum number of Selected ports must be equal to or larger than the minimum number of Selected ports. 最大选中端口数必须大于等于最小选中端口数。
Invalid source or destination address. BFD检测功能，配置的IP参数错误。	Invalid source or destination address. BFD检测功能，配置的IP参数错误。
Not support BFD. BFD进程启动失败。	Not support BFD. BFD进程启动失败。
The number of Selected ports exceeded the upper limit. 选中端口数的配置超过上限。	The number of Selected ports exceeded the upper limit. 选中端口数的配置超过上限。
Only Layer 3 aggregate interfaces support static backup. 仅三层聚合口可以工作在1+1主备模式。	Only Layer 3 aggregate interfaces support static backup. 仅三层聚合口可以工作在1+1主备模式。
An aggregate interface has been assigned to the S-MLAG group. 其他聚合组已经加入该S-MLAG组。	An aggregate interface has been assigned to the S-MLAG group. 其他聚合组已经加入该S-MLAG组。
Can't assign the interface to an S-MLAG group because the interface is a member of DRNI. 加入S-MLAG组失败，因为该端口是DR接口的成员端口。	Can't assign the interface to an S-MLAG group because the interface is a member of DRNI. 加入S-MLAG组失败，因为该端口是DR接口的成员端口。
Can't assign the interface to an S-MLAG group because the interface is a member of a smart trunk. 加入S-MLAG组失败，因为该端口是S-Trunk组的成员口。	Can't assign the interface to an S-MLAG group because the interface is a member of a smart trunk. 加入S-MLAG组失败，因为该端口是S-Trunk组的成员口。
Failed to set static 1+1 backup mode because the number of member ports in the aggregation group exceeds two. 聚合组成员端口数量超过两个，配置静态1 + 1主备模式失败。	Failed to set static 1+1 backup mode because the number of member ports in the aggregation group exceeds two. 聚合组成员端口数量超过两个，配置静态1 + 1主备模式失败。
The aggregate interface has a member port or an aggregate subinterface. 存在聚合子接口或者成员端口的聚合接口无法删除。	The aggregate interface has a member port or an aggregate subinterface. 存在聚合子接口或者成员端口的聚合接口无法删除。

LAGG/LAGGMembers

Message	Explanation
%s has been assigned to another aggregation group. %s已经加入其他聚合组。	%s has been assigned to another aggregation group. %s已经加入其他聚合组。
Can't assign %s to a link aggregation group because the interface has subinterfaces.. 加入聚合组失败，因为该端口包含子接口。	Can't assign %s to a link aggregation group because the interface has subinterfaces.. 加入聚合组失败，因为该端口包含子接口。
Can't assign the L2VPN-enabled interface %s to a link aggregation group. 加入聚合组失败，因为该端使能了L2VPN业务	Can't assign the L2VPN-enabled interface %s to a link aggregation group. 加入聚合组失败，因为该端使能了L2VPN业务
Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. 加入聚合组失败，因为该端口使能了端口安全、MAC认证或者802.1X认证。	Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. 加入聚合组失败，因为该端口使能了端口安全、MAC认证或者802.1X认证。
Can't assign the subinterface %s to a link aggregation group. 加入聚合组失败，因为该端口是子接口。	Can't assign the subinterface %s to a link aggregation group. 加入聚合组失败，因为该端口是子接口。
Can't assign %s to a link aggregation group because the interface is shared by multiple contexts. 加入聚合组失败，因为该端口已被多个context共享。	Can't assign %s to a link aggregation group because the interface is shared by multiple contexts. 加入聚合组失败，因为该端口已被多个context共享。
Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.'t assign the port to the aggregation group because its attribute configurations are different than the aggregate interface. 接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。	Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.'t assign the port to the aggregation group because its attribute configurations are different than the aggregate interface. 接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。
The aggregation group of this interface already has a primary member port. 此接口的聚合组已经有一个主端口。"	The aggregation group of this interface already has a primary member port. 此接口的聚合组已经有一个主端口。"
Failed to assign this interface to the aggregation group in 1+1 backup mode because it already has two member ports. 由于该接口已经有两个成员端口，因此无法在1 + 1备份模式下将该接口分配给聚合组。	Failed to assign this interface to the aggregation group in 1+1 backup mode because it already has two member ports. 由于该接口已经有两个成员端口，因此无法在1 + 1备份模式下将该接口分配给聚合组。
The interface is not a member port of an aggregation group opearting in 1+1 backup mode. 该接口不是以1 + 1备份模式运行的聚合组的成员端口。	The interface is not a member port of an aggregation group opearting in 1+1 backup mode. 该接口不是以1 + 1备份模式运行的聚合组的成员端口。

LAGG/SwitchOverPortRoles

Message	Explanation
Switchover failed because the aggregation group is not in 1+1 backup mode 切换失败，因为聚合组未处于1 + 1备份模式。	Switchover failed because the aggregation group is not in 1+1 backup mode 切换失败，因为聚合组未处于1 + 1备份模式。
Switchover failed because the primary member port has been specified. 切换失败，因为已指定了主端口。	Switchover failed because the primary member port has been specified. 切换失败，因为已指定了主端口。
Switchover failed because the aggregation group must contain one Selected port and one Unselected port 切换失败，因为聚合组必须包含一个选定端口和一个未选定端口。	Switchover failed because the aggregation group must contain one Selected port and one Unselected port 切换失败，因为聚合组必须包含一个选定端口和一个未选定端口。
Switchover failed because the secondary member port cannot be placed in Selected state. 切换失败，因为备份端口无法处于“选定”状态。	Switchover failed because the secondary member port cannot be placed in Selected state. 切换失败，因为备份端口无法处于“选定”状态。
Switchover failed because another user is performing a switchover on the aggregation group. 切换失败，因为另一个用户正在聚合组上执行切换。	Switchover failed because another user is performing a switchover on the aggregation group. 切换失败，因为另一个用户正在聚合组上执行切换。

Contents

LAGG event stream 1
MemberEvent event 1
XML structure for event subscription 1
XML structure for event report 1

LAGG event stream

LAGG event stream description.

MemberEvent event

This event is used to report interface-specific aggregation actions.

XML structure for event subscription

```
<MemberEvent>
</MemberEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LAGG</stream>
      <filter type="subtree">
      <MemberEvent xmlns="http://www.h3c.com/netconf/event:1.0/LAGG:1.0">
      </MemberEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LAGG
Event name	MemberEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LAGG:1.0
Support for extended query	No

XML structure for event report

```
<MemberEvent>
  <MemberInfo>
    <IfName></IfName>
    <IfAggName></IfAggName>
    <State></State>
  </MemberInfo>
</MemberEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-01-24T15:28:49</eventTime>
  <MemberEvent xmlns="LAGG:1.0">
```

```
    <MemberInfo>
      <IfName>GigabitEthernet2/0/1</IfName>
      <IfAggName>Bridge-Aggregation1</IfAggName>
      <State>1</State>
    </MemberInfo>
  </MemberEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
IfAggName	Aggregation interface name	String. Length: 0 to 47 characters.	N/A
State	Interface state in aggregation	Enumeration: • 0—Unspec • 1—Join aggregation. • 2—Leave aggregation.	N/A

Contents

LB 1

LB/ClearVirtualServerStats 1
XML structure 1
Table description 1
Columns 1
LB/ClearAllVirtualServerStats 1
XML structure 2
Table description 2
Columns 2
LB/ClearRealServerStats 2
XML structure 2
Table description 3
Columns 3
LB/ClearAllRealServerStats 3
XML structure 3
Table description 3
Columns 4
LB/DelIpv4Proximities 4
XML structure 4
Table description 4
Columns 4
LB/DelAllIPv4Proximities 5
XML structure 5
Table description 5
Columns 5
LB/DelIpv6Proximities 5
XML structure 5
Table description 6
Columns 6
LB/DelAllIpv6Proximities 6
XML structure 6
Table description 6
Columns 7
LB/TestIpv4Routes 7
XML structure 7
Responsed XML structure 7
Table description 8
Columns 8
Responsed columns 9
LB/TestIpv6Routes 11
XML structure 11
Responsed XML structure 11
Table description 12
Columns 12
Responsed columns 13
LB/DelVRFProximities 15
XML structure 15
Table description 15
Columns 16
LB/ClearLinkStatistics 16
XML structure 16
Table description 16
Columns 16
LB/ClearAllLinkStatistics 17
XML structure 17
Table description 17
Columns 17

LB/ClearDNSListenerStats 17
XML structure 17
Table description 18
Columns 18
LB/ClearAllDNSListenerStats 18
XML structure 18
Table description 18
Columns 19
LB/ClearDNSServerStats 19
XML structure 19
Table description 19
Columns 19
LB/ClearAllDNSServerStats 20
XML structure 20
Table description 20
Columns 20
LB/ClearDNSProxyStats 20
XML structure 20
Table description 21
Columns 21
LB/ClearAllDNSProxyStats 21
XML structure 21
Table description 21
Columns 22
LB/ClearClassCounter 22
XML structure 22
Table description 22
Columns 23
LB/ClearAllClassCounter 23
XML structure 23
Table description 23
Columns 23
LB/ClearIpv4ProximityCounter 23
XML structure 24
Table description 24
Columns 24
LB/ClearAllIpv4ProximityCounter 24
XML structure 24
Table description 25
Columns 25
LB/ClearIpv6ProximityCounter 25
XML structure 25
Table description 25
Columns 26
LB/ClearAllIpv6ProximityCounter 26
XML structure 26
Table description 26
Columns 26
LB/ClearServerFarmMemberStats 27
XML structure 27
Table description 27
Columns 27
LB/ClearLinkGroupMemberStats 28
XML structure 28
Table description 28
Columns 28
LB/ClearDNSServerPoolMemberStats 28
XML structure 28
Table description 29
Columns 29
LB/ReloadHTTPResponses 29
XML structure 29

Table description 30
Columns 30
LB/ReloadAllHTTPResponses 30
XML structure 30
Table description 31
Columns 31
LB/ResetSNATPools 31
XML structure 31
Table description 31
Columns 32
LB/ClearServerFarmMemberAutoShutdown 32
XML structure 32
Table description 32
Columns 32
LB/ClearAllFiveMinVirtualServerStats 33
XML structure 33
Table description 33
Columns 33

LB

LB/ClearVirtualServerStats

This table is used to clear the statistics of the virtual server.

XML structure

```
<LB>
  <ClearVirtualServerStats>
    <ClearVirtualServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearVirtualServerStat>
  </ClearVirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearVirtualServerStats
Table type	Multi-instance table
Row name	ClearVirtualServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified virtual server.	N/A	This column must be empty.	• N/A

LB/ClearAllVirtualServerStats

This table is used to clear all virtual servers' statistics.

XML structure

```
<LB>
  <ClearAllVirtualServerStats>
    <Clear></Clear>
  </ClearAllVirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllVirtualServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all virtual servers' statistics.	N/A	This column must be empty.	• N/A

LB/ClearRealServerStats

This table is used to clear the statistics of the real server.

XML structure

```
<LB>
  <ClearRealServerStats>
    <ClearRealServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearRealServerStat>
  </ClearRealServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearRealServerStats
Table type	Multi-instance table
Row name	ClearRealServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified real server.	N/A	This column must be empty.	• N/A

LB/ClearAllRealServerStats

This table is used to clear all real servers' statistics.

XML structure

```
<LB>
  <ClearAllRealServerStats>
    <Clear></Clear>
  </ClearAllRealServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllRealServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all real servers' statistics.	N/A	This column must be empty.	• N/A

LB/DelIpv4Proximities

This table is used to delete IPv4 proximity which belongs to the specified VPN.

XML structure

```
<LB>
  <DelIpv4Proximities>
    <DelIpv4Proximity>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Delete></Delete>
    </DelIpv4Proximity>
  </DelIpv4Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelIpv4Proximities
Table type	Multi-instance table
Row name	DelIpv4Proximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. • Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Delete	Action of deleting the specified IPv4 proximity.	N/A	This column must be empty.	N/A

LB/DelAllIPv4Proximities

This table is used to delete all IPv4 proximities.

XML structure

```
<LB>
  <DelAllIpv4Proximities>
    <Delete></Delete>
  </DelAllIpv4Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelAllIpv4Proximities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting all IPv4 proximities.	N/A	This column must be empty.	N/A

LB/DelIpv6Proximities

This table is used to delete IPv6 proximity which belongs to the specified VPN.

XML structure

```
<LB>
  <DelIpv6Proximities>
    <DelIpv6Proximity>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Delete></Delete>
    </DelIpv6Proximity>
  </DelIpv6Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelIpv6Proximities
Table type	Multi-instance table
Row name	DelIpv6Proximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Delete	Action of deleting the specified IPv6 proximity.	N/A	This column must be empty.	N/A

LB/DelAllIpv6Proximities

This table is used to delete all IPv6 proximities.

XML structure

```
<LB>
  <DelAllIpv6Proximities>
    <Delete></Delete>
  </DelAllIpv6Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelAllIpv6Proximities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting all IPv6 proximities.	N/A	This column must be empty.	N/A

LB/TestIpv4Routes

This table is used to test IPv4 route in the specified VPN.

XML structure

```
<LB>
  <TestIpv4Routes>
    <TestIpv4Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv4Address></DstIpv4Address>
      <SrcIpv4Address></SrcIpv4Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv4Route>
  </TestIpv4Routes>
</LB>
```

Responsed XML structure

```
<LB>
  <TestIpv4Routes>
    <TestIpv4Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv4Address></DstIpv4Address>
      <SrcIpv4Address></SrcIpv4Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VirtualServer></VirtualServer>
      <ZoneType></ZoneType>
      <Class></Class>
```

```
      <ForwardType></ForwardType>
      <DropType></DropType>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <ScheduleType></ScheduleType>
    </TestIpv4Route>
  </TestIpv4Routes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TestIpv4Routes
Table type	Multi-instance table
Row name	TestIpv4Route
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv4 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv4Address	IPv4 destination address.	Index	String. Dotted decimal notation.	N/A
SrcIpv4Address	IPv4 source address.	Index	String. Dotted decimal notation.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 255.	
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv4 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv4Address	IPv4 destination address.	Index	String. Dotted decimal notation.	N/A
SrcIpv4Address	IPv4 source address.	Index	String. Dotted decimal notation.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ZoneType	Zone type of the result.	N/A	Enumeration: • 0—Class. • 1—Default class. • 2—Default server farm. • 3—Default link group.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the result.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—Server farm. • 4—Address of LB device. • 5—Match HTTP virtual server. • 6—No matched virtual server. • 7—Link group. • 8—Waiting.	N/A
DropType	Drop reason of the result	N/A	Enumeration: • 1—Action drop. • 2—Virtual server limited. • 3—No real server. • 4—No class or server farm. • 5—Match sticky but real server limited. • 6—No server farm in action. • 7—No link. • 8—No class or link group. • 9—Match sticky but link limited. • 10—No link group in action. • 11—Server farm busy. • 12—Queue overflow.	N/A
ServerFarm	Name of the sever farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RealServer	Name of the real server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ScheduleType	The method of selecting real server.	N/A	Enumeration: • 0—Algorithm. • 1—Sticky. • 2—Proximity.	N/A

LB/TestIpv6Routes

This table is used to test IPv6 route in the specified VPN.

XML structure

```
<LB>
  <TestIpv6Routes>
    <TestIpv6Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv6Address></DstIpv6Address>
      <SrcIpv6Address></SrcIpv6Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv6Route>
  </TestIpv6Routes>
</LB>
```

Responsed XML structure

```
<LB>
  <TestIpv6Routes>
    <TestIpv6Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv6Address></DstIpv6Address>
      <SrcIpv6Address></SrcIpv6Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
```

```
      <VirtualServer></VirtualServer>
      <ZoneType></ZoneType>
      <Class></Class>
      <ForwardType></ForwardType>
      <DropType></DropType>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <ScheduleType></ScheduleType>
    </TestIpv6Route>
  </TestIpv6Routes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TestIpv6Routes
Table type	Multi-instance table
Row name	TestIpv6Route
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv6 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv6Address	IPv6 destination address.	Index	Hexadecimal string, colon-separated.	N/A
SrcIpv6Address	IPv6 source address.	Index	Hexadecimal string, colon-separated.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn’t TCP (6) or UDP (17), this column must be zero.
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn’t TCP (6) or UDP (17), this column must be zero.
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 255.	
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv6 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv6Address	IPv6 destination address.	Index	Hexadecimal string, colon-separated.	N/A
SrcIpv6Address	IPv6 source address.	Index	Hexadecimal string, colon-separated.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ZoneType	Zone type of the result.	N/A	Enumeration: • 0—Class. • 1—Default class.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Default server farm. • 3—Default link group.	
Class	Name of the class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the result.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—Server farm. • 4—Address of LB device. • 5—Match HTTP virtual server. • 6—No matched virtual servers. • 7—Link group. • 8—Waiting.	N/A
DropType	Drop reason of the result	N/A	Enumeration: • 1—Action drop. • 2—Virtual server limited. • 3—No real server. • 4—No class or server farm. • 5—Match sticky but real server limited. • 6—No server farm in action. • 7—No link. • 8—No class or link group. • 9—Match sticky but link limited. • 10—No link group in action. • 11—Server farm busy. • 12—Queue overflow.	N/A
ServerFarm	Name of the sever farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RealServer	Name of the real server.	N/A	String, case-insensitive.	The null string indicates the label is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	configured.
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Link	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ScheduleType	The method of selecting real server.	N/A	Enumeration: • 0—Algorithm. • 1—Sticky. • 2—Proximity.	N/A

LB/DelVRFProximities

This table is used to delete all proximities which belong to the specified VPN.

XML structure

```
<LB>
  <DelVRFProximities>
    <DelVRFProximity>
      <VRF></VRF>
      <AF></AF>
      <Delete></Delete>
    </DelVRFProximity>
  </DelVRFProximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelVRFProximities
Table type	Multi-instance table
Row name	DelVRFProximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. • Length: 0 to 31 characters.	The null string indicates public network.
AF	Address family.	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—All.	N/A
Delete	Action of deleting the specified VPN proximities.	N/A	This column must be empty.	N/A

LB/ClearLinkStatistics

This table is used to clear the statistics of the link.

XML structure

```
<LB>
  <ClearLinkStatistics>
    <ClearLinkStatistic>
      <Name></Name>
      <Clear></Clear>
    </ClearLinkStatistic>
  </ClearLinkStatistics>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearLinkStatistics
Table type	Multi-instance table
Row name	ClearLinkStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Length: 1 to 63 characters.	
Clear	Action of clearing the specified link.	N/A	This column must be empty.	• N/A

LB/ClearAllLinkStatistics

This table is used to clear all links statistics.

XML structure

```
<LB>
  <ClearAllLinkStatistics>
    <Clear></Clear>
  </ClearAllLinkStatistics>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllLinkStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all links statistics.	N/A	This column must be empty.	• N/A

LB/ClearDNSListenerStats

This table is used to clear the statistics of the DNS listener.

XML structure

```
<LB>
  <ClearDNSListenerStats>
    <ClearDNSListenerStat>
      <Name></Name>
```

```
      <Clear></Clear>
    </ClearDNSListenerStat>
  </ClearDNSListenerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSListenerStats
Table type	Multi-instance table
Row name	ClearDNSListenerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS listener.	N/A	This column must be empty.	• N/A

LB/ClearAllDNSListenerStats

This table is used to clear all DNS listener' statistics.

XML structure

```
<LB>
  <ClearAllDNSListenerStats>
    <Clear></Clear>
  </ClearAllDNSListenerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSListenerStats
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS listener' statistics.	N/A	This column must be empty.	• N/A

LB/ClearDNSServerStats

This table is used to clear the statistics of the DNS server.

XML structure

```
<LB>
  <ClearDNSServerStats>
    <ClearDNSServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearDNSServerStat>
  </ClearDNSServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSServerStats
Table type	Multi-instance table
Row name	ClearDNSServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the specified DNS server.	N/A	This column must be empty.	• N/A

LB/ClearAllDNSServerStats

This table is used to clear all DNS servers' statistics.

XML structure

```
<LB>
  <ClearAllDNSServerStats>
    <Clear></Clear>
  </ClearAllDNSServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS servers' statistics.	N/A	This column must be empty.	• N/A

LB/ClearDNSProxyStats

This table is used to clear the statistics of the DNS proxy.

XML structure

```
<LB>
  <ClearDNSProxyStats>
    <ClearDNSProxyStat>
```

```
      <Name></Name>
      <Clear></Clear>
    </ClearDNSProxyStat>
  </ClearDNSProxyStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSProxyStats
Table type	Multi-instance table
Row name	ClearDNSProxyStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS proxy.	N/A	This column must be empty.	• N/A

LB/ClearAllDNSProxyStats

This table is used to clear all DNS proxies' statistics.

XML structure

```
<LB>
  <ClearAllDNSProxyStats>
    <Clear></Clear>
  </ClearAllDNSProxyStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSProxyStats
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS proxies' statistics.	N/A	This column must be empty.	• N/A

LB/ClearClassCounter

This table is used to clear all rule match counter statistics of a class.

XML structure

```
<LB>
  <ClearClassCounters>
    <ClearClassCounter>
      <ClassName></ClassName>
      <Clear></Clear>
    </ClearClassCounter>
  </ClearClassCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearClassCounters
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Name of the class proxy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	•
Clear	Action of clearing rule match counter statistics.	N/A	This column must be empty.	• N/A

LB/ClearAllClassCounter

This table is used to clear rule match counter statistics of all classes.

XML structure

```
<LB>
  <ClearAllClassCounters>
    <Clear></Clear>
  </ClearAllClassCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllClassCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear rule match counter statistics of all classe.	N/A	This column must be empty.	N/A

LB/ClearIpv4ProximityCounter

This table is used to clear the used counter statistics for the IPv4 proximity of a VPN instance.

XML structure

```
<LB>
  <ClearIpv4ProximityCounters>
    <ClearIpv4ProximityCounter>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Clear></Clear>
    </ClearIpv4ProximityCounter>
  </ClearIpv4ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearIpv4ProximityCounters
Table type	Multi-instance table
Row name	ClearIpv4ProximityCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. • Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. • Dotted decimal notation.	N/A
Clear	Action of clearing the count of the specified IPv4 proximity.	N/A	This column must be empty.	N/A

LB/ClearAllIpv4ProximityCounter

This table is used to clear the used counter statistics of all IPv4 proximities.

XML structure

```
<LB>
  <ClearAllIpv4ProximityCounters>
    <Clear></Clear>
  </ClearAllIpv4ProximityCounters>
```

```
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllIpv4ProximityCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the count of all IPv4 proximities.	N/A	This column must be empty.	N/A

LB/ClearIpv6ProximityCounter

This table is used to clear the used counter statistics for the IPv6 proximity of a VPN instance.

XML structure

```
<LB>
  <ClearIpv6ProximityCounters>
    <ClearIpv6ProximityCounter>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Clear></Clear>
    </ClearIpv6ProximityCounter>
  </ClearIpv6ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearIpv6ProximityCounters
Table type	Multi-instance table
Row name	ClearIpv6ProximityCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. • Length: 0 to 31 characters.	The null string indicates the public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Clear	Action of clearing the the count of the specified IPv6 proximity.	N/A	This column must be empty.	N/A

LB/ClearAllIpv6ProximityCounter

This table is used to clear the used counter statistics of all IPv6 proximities.

XML structure

```
<LB>
  <ClearAllIpv6ProximityCounters>
    <Clear></Clear>
  </ClearAllIpv6ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllIpv6ProximityCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the count of all IPv6 proximities.	N/A	This column must be empty.	N/A

LB/ClearServerFarmMemberStats

This table is used to clear the statistics of the server farm member.

XML structure

```
<LB>
  <ClearServerFarmMemberStats>
    <ClearServerFarmMemberStat>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Clear></Clear>
    </ClearServerFarmMemberStat>
  </ClearServerFarmMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearServerFarmMemberStats
Table type	Multi-instance table
Row name	ClearServerFarmMemberStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RealServer	Name of the server farm member.	N/A	String, case-insensitive. • Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Clear	Action of clearing the specified server farm member.	N/A	This column must be empty.	N/A

LB/ClearLinkGroupMemberStats

This table is used to clear the statistics of the link group member.

XML structure

```
<LB>
  <ClearLinkGroupMemberStats>
    <ClearLinkGroupMemberStat>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <Clear></Clear>
    </ClearLinkGroupMemberStat>
  </ClearLinkGroupMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearLinkGroupMemberStats
Table type	Multi-instance table
Row name	ClearLinkGroupMemberStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Link	Name of the link group member.	N/A	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified link group member.	N/A	This column must be empty.	N/A

LB/ClearDNSServerPoolMemberStats

This table is used to clear the statistics of the DNS server pool member.

XML structure

```
<LB>
```

```
  <ClearDNSServerPoolMemberStats>
    <ClearDNSServerPoolMemberStat>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <Clear></Clear>
    </ClearDNSServerPoolMemberStat>
  </ClearDNSServerPoolMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSServerPoolMemberStats
Table type	Multi-instance table
Row name	ClearDNSServerPoolMemberStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServerPool	Name of the DNS server pool.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
DNSServer	Name of the DNS server pool member.	N/A	String, case-insensitive. • Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Clear	Action of clearing the specified DNS server pool member.	N/A	This column must be empty.	N/A

LB/ReloadHTTPResponses

This table is used to reload an HTTP response file.

XML structure

```
<LB>
  <ReloadHTTPResponses>
    <ReloadHTTPResponse>
      <FileName></FileName>
```

```
      <Reload></Reload>
    </ReloadHTTPResponse>
  </ReloadHTTPResponses>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ReloadHTTPResponses
Table type	Multi-instance table
Row name	ReloadHTTPResponse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the file for the response.	Index	String, case-insensitive. • Length: 1 to 255 characters.	
Reload	Action of reloading the response file.	N/A	This column must be empty.	N/A

LB/ReloadAllHTTPResponses

This table is used to reload all HTTP response files.

XML structure

```
<LB>
  <ReloadAllHTTPResponses>
    <ReloadAllHTTPResponse>
      <Reload></Reload>
    </ReloadAllHTTPResponse>
  </ReloadAllHTTPResponses>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ReloadAllHTTPResponses
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reload	Reload all response files.	N/A	This column must be empty.	• N/A

LB/ResetSNATPools

This table is used to reset the dynamic allocation of IP address of the SNAT pool.

XML structure

```
<LB>
  <ResetSNATPools >
    <ResetSNATPool>
      <Name></Name>
      <Reset></Reset>
    </ResetSNATPool>
  </ResetSNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ResetSNATPools
Table type	Multi-instance table
Row name	ResetSNATPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT pool.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Reset	Action of reseting the dynamic allocation of IP address of the specified SNAT pool .	N/A	This column must be empty.	N/A

LB/ClearServerFarmMemberAutoShutdown

This table is used to recover the state of the server farm member from auto-shutdown.

XML structure

```
<LB>
  <ClearServerFarmMemberAutoShutdowns>
    <ClearServerFarmMemberAutoShutdown>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Clear></Clear>
    </ClearServerFarmMemberAutoShutdown>
  </ClearServerFarmMemberAutoShutdowns>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearServerFarmMemberAutoShutdowns
Table type	Multi-instance table
Row name	ClearServerFarmMemberAutoShutdown
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server farm.		• Length: 1 to 63 characters.	
RealServer	Name of the server farm member.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Clear	Action of recovering the specified server farm member.	N/A	This column must be empty.	N/A

LB/ClearAllFiveMinVirtualServerStats

This table clears statistics about all virtual servers.

XML structure

```
<LB>
  <ClearAllFiveMinVirtualServerStats>
     <Clear></Clear>
  </ClearAllFiveMinVirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerStats
Table type	Multi-instance table
Row name	VirtualServerStat
Restrictions	Only stats of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing statistics.	N/A	This column must be empty.	N/A

Contents

LB 1

LB/HTTPVirtualServers 1
XML structure 1
Table description 2
Columns 2
LB/GenericVirtualServers 8
XML structure 8
Table description 9
Columns 9
LB/RADIUSVirtualServers 13
XML structure 14
Table description 14
Columns 15
LB/SIPVirtualServers 18
XML structure 18
Table description 19
Columns 19
LB/MySQLVirtualServers 22
XML structure 22
Table description 23
Columns 23
LB/RealServers 27
XML structure 27
Table description 28
Columns 28
LB/RealServerProbes 32
XML structure 32
Table description 32
Columns 33
LB/ServerFarms 33
XML structure 33
Table description 34
Columns 34
LB/ServerFarmProbes 38
XML structure 38
Table description 39
Columns 39
LB/SNATPools 39
XML structure 39
Table description 40
Columns 40
LB/NewSNATPools 41
XML structure 41
Table description 41
Columns 41
LB/SNATPoolsIpv4Infos 42
XML structure 42
Table description 42
Columns 43
LB/SNATPoolsIpv6Infos 43
XML structure 43
Table description 44
Columns 44
LB/IPParameters 45
XML structure 45
Table description 45
Columns 45

LB/TCPParameters ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 46
LB/TCPAppParameters ····· 48
XML structure ····· 48
Table description ····· 49
Columns ····· 49
LB/HTTPParameters ····· 49
XML structure ····· 49
Table description ····· 50
Columns ····· 50
LB/HTTPCompressionParameters ····· 52
XML structure ····· 52
Table description ····· 53
Columns ····· 53
LB/HTTPStatisticsParameters ····· 54
XML structure ····· 54
Table description ····· 54
Columns ····· 55
LB/OneConnectParameters ····· 55
XML structure ····· 55
Table description ····· 55
Columns ····· 56
LB/MySQLParameters ····· 56
XML structure ····· 56
Table description ····· 57
Columns ····· 57
LB/HTTPCompressionParameterRules ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 58
LB/AddressPortStickyGroups ····· 59
XML structure ····· 59
Table description ····· 59
Columns ····· 60
LB/RADIUSStickyGroups ····· 61
XML structure ····· 61
Table description ····· 61
Columns ····· 62
LB/PayloadStickyGroups ····· 62
XML structure ····· 62
Table description ····· 63
Columns ····· 63
LB/HTTPContentStickyGroups ····· 64
XML structure ····· 64
Table description ····· 64
Columns ····· 65
LB/HTTPCookieStickyGroups ····· 66
XML structure ····· 66
Table description ····· 66
Columns ····· 67
LB/HTTPHeaderStickyGroups ····· 68
XML structure ····· 68
Table description ····· 69
Columns ····· 69
LB/SSLStickyGroups ····· 70
XML structure ····· 70
Table description ····· 71
Columns ····· 71
LB/SIPStickyGroups ····· 72
XML structure ····· 72

Table description 72
Columns 72
LB/HTTPPassiveStickyGroups 73
XML structure 73
Table description 73
Columns 74
LB/HTTPPassiveStickyMethodGroups 74
XML structure 74
Table description 75
Columns 75
LB/UDPPassiveStickyGroups 76
XML structure 76
Table description 77
Columns 77
LB/TCPPayloadStickyGroups 78
XML structure 78
Table description 79
Columns 79
LB/Policies 80
XML structure 80
Table description 80
Columns 81
LB/ClassActions 81
XML structure 81
Table description 81
Columns 82
LB/GenericActions 82
XML structure 82
Table description 83
Columns 83
LB/RADIUSActions 84
XML structure 84
Table description 84
Columns 84
LB/LinkGenericActions 85
XML structure 85
Table description 86
Columns 86
LB/DNSActions 87
XML structure 87
Table description 87
Columns 88
LB/HTTPActions 88
XML structure 88
Table description 89
Columns 89
LB/HTTPActionResponseFiles 92
XML structure 92
Table description 92
Columns 92
LB/HTTPActionRewriteURLs 93
XML structure 93
Table description 93
Columns 93
LB/HTTPActionSSLURLs 95
XML structure 95
Table description 95
Columns 96
LB/HTTPActionHeaders 96
XML structure 96
Table description 97
Columns 97

LB/Classes 100
XML structure 100
Table description 100
Columns 101
LB/GenericMatchRules 101
XML structure 101
Table description 102
Columns 102
LB/LinkGenericMatchRules 104
XML structure 104
Table description 105
Columns 105
LB/DNSMatchRules 107
XML structure 108
Table description 108
Columns 108
LB/HTTPMatchRules 111
XML structure 111
Table description 112
Columns 112
LB/RADIUSMatchRules 114
XML structure 114
Table description 115
Columns 115
LB/MySQLMatchRules 116
XML structure 117
Table description 117
Columns 117
LB/ISPs 119
XML structure 119
Table description 119
Columns 119
LB/ISPFile 120
XML structure 120
Table description 120
Columns 120
LB/FlowMode 120
XML structure 120
Table description 121
Columns 121
LB/Ipv4ISPAddressGroups 121
XML structure 121
Table description 121
Columns 122
LB/Ipv6ISPAddressGroups 122
XML structure 122
Table description 122
Columns 123
LB/ProximityParameters 123
XML structure 123
Table description 123
Columns 124
LB/VRFProximityParameters 125
XML structure 125
Table description 125
Columns 126
LB/ProximityProbeRules 127
XML structure 127
Table description 127
Columns 128
LB/VRFProximityProbeRules 128
XML structure 128

Table description 128
Columns 129
LB/ALG 129
XML structure 129
Table description 130
Columns 130
LB/LimitPolicies 131
XML structure 131
Table description 132
Columns 132
LB/LimitRules 132
XML structure 132
Table description 133
Columns 133
LB/Links 134
XML structure 134
Table description 135
Columns 135
LB/LinkProbes 138
XML structure 138
Table description 139
Columns 139
LB/LinkGroups 139
XML structure 139
Table description 140
Columns 140
LB/LinkGroupProbes 142
XML structure 142
Table description 143
Columns 143
LB/Regions 143
XML structure 143
Table description 144
Columns 144
LB/RegionISPs 144
XML structure 144
Table description 144
Columns 145
LB/TopolgyRegions 145
XML structure 145
Table description 145
Columns 146
LB/TopolgyRegionIPv4s 146
XML structure 146
Table description 147
Columns 147
LB/TopolgyRegionIPv6s 147
XML structure 147
Table description 148
Columns 148
LB/DNSListeners 148
XML structure 148
Table description 149
Columns 149
LB/DNSProxies 150
XML structure 150
Table description 151
Columns 151
LB/DNSServers 152
XML structure 152
Table description 153
Columns 153

LB/DNSServerProbes ····· 155
XML structure ····· 155
Table description ····· 155
Columns ····· 155
LB/DNSServerPools ····· 155
XML structure ····· 155
Table description ····· 156
Columns ····· 156
LB/DNSServerPoolProbes ····· 157
XML structure ····· 157
Table description ····· 158
Columns ····· 158
LB/Log ····· 158
XML structure ····· 158
Table description ····· 158
Columns ····· 159
LB/ServerFarmMembers ····· 159
XML structure ····· 159
Table description ····· 160
Columns ····· 160
LB/LinkGroupMembers ····· 162
XML structure ····· 162
Table description ····· 163
Columns ····· 163
LB/DNSServerPoolMembers ····· 164
XML structure ····· 164
Table description ····· 165
Columns ····· 165
LB/SnatArpInterfaces ····· 166
XML structure ····· 166
Table description ····· 166
Columns ····· 167
LB/VServerArpInterfaces ····· 167
XML structure ····· 167
Table description ····· 167
Columns ····· 168
LB/ISPWhoisMntners ····· 168
XML structure ····· 168
Table description ····· 168
Columns ····· 169
LB/ISPUpdate ····· 169
XML structure ····· 169
Table description ····· 169
Columns ····· 170
LB/DNSCachesGlobalCfg ····· 170
XML structure ····· 170
Table description ····· 170
Columns ····· 171
LB/RSTProbeTemplate ····· 171
XML structure ····· 171
Table description ····· 171
Columns ····· 172
LB/ZeroWindowProbeTemplate ····· 172
XML structure ····· 172
Table description ····· 173
Columns ····· 173
LB/ProbeTemplate ····· 174
XML structure ····· 174
Table description ····· 174
Columns ····· 175
LB/HTTPPassiveProbeTemplate ····· 175
XML structure ····· 175

Table description 176
Columns 176
LB/ExternalScript 177
XML structure 177
Table description 177
Columns 177
LB/ExternalMonitor 178
XML structure 178
Table description 178
Columns 178
LB/ExternalMonitorProcessParameter 179
XML structure 179
Table description 179
Columns 180
LB/HTTPStatsParameterObjectGroups 180
XML structure 180
Table description 180
Columns 181
LB/HTTPStatsParameterNodes 181
XML structure 181
Table description 181
Columns 181
LB/HTTPStatsParameterNodeRules 182
XML structure 182
Table description 182
Columns 182
LB/HTTPStatsParameterNodeRuleLists 183
XML structure 183
Table description 183
Columns 184
LB/TCPParameterOptions 184
XML structure 184
Table description 185
Columns 185
LB/GlobalSNATs 185
XML structure 185
Table description 186
Columns 186

LB

LB/HTTPVirtualServers

This table contains information about HTTP and fast HTTP virtual servers.

XML structure

```
<LB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <HTTPParameter></HTTPParameter>
      <CookieSticky></CookieSticky>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <HTTPStatsParameter></HTTPStatsParameter>
      <OneConnectParameter></OneConnectParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
      <RedirectRelocation></RedirectRelocation>
      <RedirectReturnCode></RedirectReturnCode>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
```

```
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <HttpLogFormat></HttpLogFormat>
      <CachePolicy></CachePolicy>
      <AppProfile></AppProfile>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <ExtLinkRewriteEnable></ExtLinkRewriteEnable>
      <ExtLinkInjectURI></ExtLinkInjectURI>
      <ExtLinkDomainSuffix></ExtLinkDomainSuffix>
      <ExtLinkSNATPool></ExtLinkSNATPool>
      <TrustedAccessController></TrustedAccessController>
      <TrustedAccessControllerType></TrustedAccessControllerType>
      <TrustedAccessAction></TrustedAccessAction>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP and FASTHTTP virtual servers can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—HTTP. • 1—FASTHTTP	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual	N/A	String. Length: 0 to 127	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.		characters.	
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 80.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
BackupStickyGroup	Name of the backup sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm and sticky group are not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameterClientSide/TCPParameterServerSide colume,they cannot be confirgured both
CookieSticky	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the type is HTTP (0).
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
HTTPStatsParameter	Parameter whose type is HTTP statistics for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
SSLServerP	Name of the	N/A	String,	This column can be configured only

Column name	Column description	Column type	Data type and restrictions	Remarks
olicy	SSL server policy.		case-insensitive. Length: 0 to 31 characters.	when the type is HTTP (0).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can only be configured when the type is HTTP (0).
RedirectRelocation	Redirection URL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the type is HTTP (0). The column which has two special usages, analyses host and URL from requests. Only three symbols such as ‘p’, ’h’ and ‘%’ can be put behind ‘%’. Two ‘%’ are regarded as one ‘%’, process can handle, so the number of ‘%’ must be even. They input below, except ‘%%%p’ and ’%%%h’. ’%p’ and ‘%h’ only have one occurrence in the messages.
RedirectReturnCode	Redirection condition code.	N/A	Enumeration: • 301—The requested resource has been permanently moved. • 302—The requested resource has been temporarily moved (default). • 307—The requested resource has been provisory moved.	This column can only be configured when the type of the virtual server is HTTP (0).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 0 KB/s, which indicates no outbound limit.	
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column can only be configured when the Type is FASTHTTP (1).
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.			
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HttpLogFormat	Specified the format of LB http log.	N/A	String. Length: 1 to 255 characters.	This column can only be configured when the type is HTTP (0).
CachePolicy	Name of the cache policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
ExtLinkRewriteEnable	Enable skylight external link rewrite	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column can only be configured when the Type is HTTP (0)
ExtLinkInjectURI	Skylight external link proxy URI	N/A	String, case-insensitive. Length: 1 to 63 characters.	Example: proxy The string can contain letters, numbers, hyphens (-), and underscores (_). This column can only be configured when the Type is HTTP (0)
ExtLinkDomainSuffix	Skylight external link proxy domain suffix	N/A	String, case-insensitive. Length: 1 to 253 characters.	Example: b.com The string can contain letters, numbers, hyphens (-), underscores (_), and dot (.). This column can only be configured when the Type is HTTP (0)
ExtLinkSNATPool	Skylight external link SNAT pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
TrustedAccessController	Name of the trusted access controller.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TrustedAcce	Type of the	N/A	Enumeration:	When a trusted access controller is

Column name	Column description	Column type	Data type and restrictions	Remarks
ssController Type	trusted access controller		• 0—None(default) • 1—IAM	created, the column must be specified. Once created, this column cannot be changed.
TrustedAccessAction	Action type for the trusted access controller	N/A	Enumeration: • 0—None(default) • 1—APP-AUTH 2—API-AUTH	When a action for trusted access controller is created, the column must be specified. Once created, this column cannot be changed.

LB/GenericVirtualServers

This table contains information about IP, TCP and UDP virtual servers.

XML structure

```
<LB>
  <GenericVirtualServers>
    <GenericVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumber></PortNumber>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <DefaultLinkGroup></DefaultLinkGroup>
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <TCPAppParameter></TCPAppParameter>
      <SSLServerPolicy></SSLServerPolicy>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
```

```
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <ApplicationMode></ApplicationMode>
      <AppProfile></AppProfile>
    </GenericVirtualServer>
  </GenericVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericVirtualServers
Table type	Multi-instance table
Row name	GenericVirtualServer
Restrictions	Only IP, TCP , UDP and LINK-IP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—LINK-IP.	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31	The null string indicates a public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. By default, no VRF is specified.	
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive.	This column cannot be configured if the default server farm is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
DefaultLinkGroup	Name of the default link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupLinkGroup	Name of the backup link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default link group is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is TCP (1).
TCPParameterClientSide	Client-side TCP parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured with the TCPParameter column at the same time.
TCPParameterServerSide	Server-side TCP parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured with the TCPParameter column at the same time.
TCPAppParameter	Parameter profile whose type is TCPApplication for the virtual server	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is TCP (1).
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can be configured only when the Type is TCP (1).
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			no limit.	
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			statistics.	
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	N/A

LB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```
<LB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <RedundancyGroup></RedundancyGroup>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63	This column cannot be configured if the default server farm is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
BackupStickyGroup	Name of the backup sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm and sticky group are not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: cps. By default, the value is 0, which indicates no inbound limit.	
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Enable.	
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A

LB/SIPVirtualServers

This table contains information about SIPUDP and SIPTCP virtual servers.

XML structure

```
<LB>
  <SIPVirtualServers>
    <SIPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
```

```
    </SIPVirtualServer>
  </SIPVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SIPVirtualServers
Table type	Multi-instance table
Row name	SIPVirtualServer
Restrictions	Only SIP-UDP and SIP-TCP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—SIP-UDP • 1—SIP-TCP	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 1 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 5060.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable the UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Enable.	
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics which is used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them

Column name	Column description	Column type	Data type and restrictions	Remarks
				should be set in a single message.
VrrpIfIndex	Interface index of VRRP..	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/MySQLVirtualServers

This table contains information about MySQL virtual servers.

XML structure

```
<LB>
  <MySQLVirtualServers>
    <MySQLVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <MySQLParameter></MySQLParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ServiceEnable></ServiceEnable>
```

```
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></ StickySyncType>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <Version></Version>
      <ReadServerFarm></ReadServerFarm>
      <ReadStickyGroup></ReadStickyGroup>
      <WriteServerFarm></WriteServerFarm>
      <WriteStickyGroup></WriteStickyGroup>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <UserList>
        <UserName></UserName>
        <Password></Password>
        <Type></Type>
      </UserList>
    </MySQLVirtualServer>
  </MySQLVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLVirtualServers
Table type	Multi-instance table
Row name	MySQLVirtualServer
Restrictions	Only MySQL virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 3306.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
MySQLParameter	Parameter profile whose type is MySQL for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Enable.	
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth statistics.	N/A
StickySynEnable	Enable sticky entry synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Version	MySQL version info.	N/A	Enumeration: • 0—5.0. • 1—5.1. • 2—5.5. • 3—5.6. • 4—5.7. By default, 3 is configured.	N/A
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
				VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
UserList	MySQL database user list.	Data structure	Members include: • UserName. • Password.	Max user count is 100.
UserName	MySQL database login username.	N/A	String, Length: 1 to 63 characters.	N/A
PassWord	MySQL database login password.	N/A	String, Length: 1 to 127 characters.	This column cannot be configured if the username is not configured or the password is obtained from the CLI.
Type	Password type.	N/A	Enumeration: • 0—Simple. • 1—No password.	This column cannot be configured if the password is obtained from the CLI.
ReadServer Farm	MySQL read server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReadSticky Group	Name of the sticky group for read server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the read server farm is not configured.
WriteServer Farm	MySQL write server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
WriteSticky Group	Name of the sticky group for write server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the write server farm is not configured.

LB/RealServers

This table contains information about real server.

XML structure

```
<LB>
  <RealServers>
    <RealServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
```

```
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
      <Priority></Priority>
      <ServerFarm></ServerFarm>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <Cost></Cost>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
      <ProbeLog></ProbeLog>
    </RealServer>
  </RealServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServers
Table type	Multi-instance table
Row name	RealServer
Restrictions	Only Real server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	real server.		case-insensitive. Length: 1 to 63 characters.	
Description	Description of the real server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no Ipv4Address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no Ipv6Address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
Weight	Weight of the real server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the real server.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
ServerFarm	Name of the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no server farm is specified.	N/A
Shutdown	Shutdown state for the real server.	N/A	Enumeration: • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps. By default, the value is 0, which indicates the rate is not limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s which indicates no preset limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset outbound limit.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoverRatio	Outbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recoverv rate.	N/A
BandwidthBusyRecoverRatio	Total bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recoverv rate.	N/A
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240. By default, the value is 0 which indicates that cost factor can be ignore when calculate proximities.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBan	Max outbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
dwidth	bandwidth.		Value range: 0 to 2^{32}-1. Unit: KB/s.	
VRF	VRF name	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
InheritVPN	Inherit the VPN of virtual server	N/A	Enumeration: • 0—Disable inherit the VPN (default). • 1—Enable inherit the VPN.	N/A
ProbeLog	Enable logging for health monitoring	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A

LB/RealServerProbes

This table contains information about Real Server Probe that only uses NQA template.

XML structure

```
<LB>
  <RealServerProbes>
    <RealServerProbe>
      <RealServer></RealServer>
      <Probe></Probe>
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </RealServerProbe>
  </RealServerProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServerProbes
Table type	Multi-instance table
Row name	RealServerProbe
Restrictions	Only Real server probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the real server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/ServerFarms

This table contains information about server farm.

XML structure

```
<LB>
  <ServerFarms>
    <ServerFarm>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProximityEnable></ProximityEnable>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <BusyAction></BusyAction>
```

```
      <QueueLength></QueueLength>
      <QueueTimeout></QueueTimeout>
      <RSTProbe></RSTProbe>
      <ZeroWindowProbe></ZeroWindowProbe>
      <RecoverTimeInterval></RecoverTimeInterval>
      <HTTPPassiveProbe></HTTPPassiveProbe>
      <SnatMode></SnatMode>
      <AllServiceDownAction></AllServiceDownAction>
      <ExternalMonitorList>
        <ExternalMonitor></ExternalMonitor>
      </ExternalMonitorList>
    </ServerFarm>
  </ServerFarms>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarms
Table type	Multi-instance table
Row name	ServerFarm
Restrictions	Only server farm can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the server farm.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a real server to serve a client request.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 9—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max outbound bandwidth. • 12—Least time. • 13—Dynamic round-robin. • 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. • 20—Least time member.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash or CARP source address (3/16), hash source port (4/17) and hash destination address (5/18).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column can only be configured when the Predictor hash or CARP source address (3/16), hash source port (4/17) and hash destination address (5/18).
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
SelectServerMaxNumber	Maximum number of the active real server in the	N/A	Unsigned integer. Value range: 1 to 1000.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of

Column name	Column description	Column type	Data type and restrictions	Remarks
	server farm.		By default, the column is not configured.	SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
SlowOnline Enable	Enable the server farm slow online.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	If the column is 0, SlowOnlineStandbyTime and SlowOnlineRampUpTime cannot be configured without default value.
SlowOnline StandbyTim e	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second. By default, the value is 5.	N/A
SlowOnline RampUpTim e	Ramp up time of the slow online.	N/A	Unsigned integer. Value range:3 to 600. Unit: second. By default, the value is 5.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ActivateLow er	The status of main server farm will be changed from in use to backup when the ratio of the available real servers in main server farm becomes smaller than this value.	N/A	Unsigned integer. Value range: 1 to 99. By default, the column is not configured which indicates if one real server is active, the server farm is active.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
ActivateUpp er	The status of main server farm will be changed from backup to in use when the ratio of the available real servers in main server farm reaches or over this value.		Unsigned integer. Value range: 1 to 99. By default, the column is not configured.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FailAction	Specify the action that the	N/A	Enumeration: • 0—Keep	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	LB takes with respect to connections if any real server fails in a server farm.		(default). • 1—Reset. • 2—Reschedule.	
ProbeSuccessCriteria	The condition that real server is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0.	By default, indicates that when real server is available, all results of probes must be success.
ProximityEnable	Enable the proximity.	N/A	Enumeration: • 0—disable (default). • 1—enable.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	The column can only be configured when the Predictor hash source address (14/15).
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	The column can only be configured when the Predictor hash source address (14/15).If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for CARP.	N/A	String. Length: 0 to 127 characters.	The column can only be configured when the Predictor hash source address (14/15).The null string indicates the label is not configured.
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	The column can only be configured when the Predictor hash source address (14/15).The null string indicates the label is not configured.
BusyAction	Busy protection policies for server nodes	N/A	Enumeration: • 0—Drop(default). • 1—Enqueue. • 2—Force.	N/A
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
QueueTimeout	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
RSTProbe	RST type probe	N/A	String, case-insensitive.	Only one template can be configured for each type.

Column name	Column description	Column type	Data type and restrictions	Remarks
	template.		Length: 1 to 32 characters.	
ZeroWindowProbe	Zero-Window type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
HTTPPassiveProbe	HTTP passive probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each probe type.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None(default). • 1—Snat-pool. • 2—Auto-map. • 3—Tcp-option.	N/A
AllServiceDownAction	Specify the action taken when all server farm members become unavailable	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ExternalMonitorList	External monitor list for the server farm.	Data structure	Members include: ExterrnalMonitor.	N/A
ExternalMonitor	External monitor for the server farm.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```
<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
```

```
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </ServerFarmProbe>
  </ServerFarmProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmProbes
Table type	Multi-instance table
Row name	ServerFarmProbe
Restrictions	Only server farm probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the server farm.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/SNATPools

This table contains information about SNAT pool.

XML structure

```
<LB>
  <SNATPools>
    <SNATPool>
      <Name></Name>
      <Description></Description>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
```

```
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SNATPool>
  </SNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	Only SNAT pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT Pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the SNAT Pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4AddressStart	Start IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation. By default, no IPv4 addressStart is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	End IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation. By default, no IPv4 addressEnd is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 255.
Ipv6AddressStart	Start IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 addressStart is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 addressEnd is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.

LB/NewSNATPools

This table contains LB SNAT pool information.

XML structure

```
<LB>
  <NewSNATPools>
    <NewSNATPool>
      <SNATPoolName></SNATPoolName>
      <Description></Description>
      <SNATType></SNATType>
      <VRF></VRF>
    </NewSNATPool>
  </NewSNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	NewSNATPools
Table type	Multi-instance table
Row name	NewSNATPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPoolNa	Name of SNAT	Index	String. Case-insensitive.	N/A.

me	pool		Length: 1 to 63 characters.	
Description	SNAT pool description.	N/A	String: Case-sensitive Length: No more than 127 characters	N/A
SNATType	Type of SNAT pool	N/A	Enumeration: • 0—addr-split (default). • 1—port-split • 2—failover group	When a snat-pool is created, the column must be specified. Once created, this column cannot be changed.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.

LB/SNATPoolsIpv4Infos

This table contains information about IPv4 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv4Infos>
    <SNATPoolsIpv4Info>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <FailoverGroupName></FailoverGroupName>
      <Channel></Channel>
    </SNATPoolsIpv4Info>
  </SNATPoolsIpv4Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv4Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv4Info
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4AddressStart	Start IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	End IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
FailoverGroupName	Name of failover-group	N/A	String. Length: 0 to 63 characters.	N/A
Channel	Channel of the failover group	N/A	Enumeration: • 0—Channel 0 • 1—Channel 1	N/A

LB/SNATPoolsIpv6Infos

This table contains information about IPv6 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv6Infos>
    <SNATPoolsIpv6Info>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <FailoverGroupName></FailoverGroupName>
```

```
      <Channel></Channel>
    </SNATPoolsIpv6Info>
  </SNATPoolsIpv6Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv6Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv6Info
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.
FailoverGroupName	Name of failover-group	N/A	String. Length: 0 to 63 characters.	N/A
Channel	Channel of the failover group	N/A	Enumeration:	N/A

			• 0—Channel 0 • 1—Channel 1	

LB/IPParameters

This table contains information about IP parameter profile.

XML structure

```
<LB>
  <IPParameters>
    <IPParameter>
      <Name></Name>
      <Description></Description>
      <IPToS></IPToS>
    </IPParameter>
  </IPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	IPParameters
Table type	Multi-instance table
Row name	IPParameter
Restrictions	Only IP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
IPToS	ToS number of the IP packet sent to client.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A

LB/TCPParameters

This table contains information about TCP parameter profile.

XML structure

```
<LB>
  <TCPParameters>
    <TCPParameter>
      <Name></Name>
      <Description></Description>
      <ExceedMSS></ExceedMSS>
      <WindowSize></WindowSize>
      <TimeWaitTime></TimeWaitTime>
      <IdleTimeout></IdleTimeout>
      <MSS></MSS>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
      <SrcAddrOptionNum></SrcAddrOptionNum>
      <EncodeType></EncodeType>
    </TCPParameter>
  </TCPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPParameters
Table type	Multi-instance table
Row name	TCPParameter
Restrictions	Only TCP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ExceedMSS	Processing method when segments exceed the maximum segment size of TCP segment.	N/A	Enumeration: • 0—Permit (default). • 1—Drop.	N/A
WindowSize	Starting value of the receive window size.	N/A	Unsigned integer. Value range: 8192 to 65535. By default, 65535 is configured.	N/A
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 2 is configured.	N/A
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second. By default, 10 is configured.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 1800 is configured.	N/A
KeepAliveInterval	Interval time of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 10 is configured.	N/A
KeepAliveC	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ount	times of keep-alive retransmission		Value range: 1 to 65535. By default, 3 is configured.	
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A
SrcAddrOptionNum	The option num for Source ip addresses	N/A	Unsigned integer. Value range: 6 to 254.	N/A
EncodeType	The encode for tcp option.	N/A	Enumeration: • 0—**binary.** (default). • 1—**string.**	N/A

LB/TCPAppParameters

This table contains information about TCP Application parameter profile.

XML structure

```
<LB>
  <TCPAppParameters>
    <TCPAppParameter>
      <Name></Name>
      <Description></Description>
      <MatchBufferSize></MatchBufferSize>
      <MatchBufferEnd></MatchBufferEnd>
      <MatchBufferTime></MatchBufferTime>
    </TCPAppParameter>
  </TCPAppParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPAppParameters
Table type	Multi-instance table
Row name	TCPAppParameter
Restrictions	Only TCP application parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchBuffer Size	The max match size of TCP buffer stream.	N/A	Unsigned integer. Value range: 1 to 4096. • By default, 4096 is configured.	N/A
MatchBuffer End	The match end string of TCP buffer stream.	N/A	String. Length: 0 to 10 characters.	N/A
MatchBuffer Time	The match time of TCP buffer stream	N/A	Unsigned integer. Value range: 1 to 5 Unit: second. By default, 3 is configured.	N/A

LB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```
<LB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>
      <Description></Description>
```

```
      <RebalancePerRequest></RebalancePerRequest>
      <ServerConnectionReuse></ServerConnectionReuse>
      <CaseInsensitive></CaseInsensitive>
      <HeaderModifyPerRequest></HeaderModifyPerRequest>
      <HeaderMaxParseLength></HeaderMaxParseLength>
      <ContentMaxParseLength></ContentMaxParseLength>
      <SecondaryCookieDelimiters></SecondaryCookieDelimiters>
      <SecondaryCookieStart></SecondaryCookieStart>
      <CookieEncryptName></CookieEncryptName>
      <CookieCipherPassword></CookieCipherPassword>
      <CookieSimplePassword></CookieSimplePassword>
      <ExceedLength></ExceedLength>
    </HTTPParameter>
  </HTTPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPParameters
Table type	Multi-instance table
Row name	HTTPParameter
Restrictions	Only HTTP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RebalancePer Request	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ServerConnec tionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CaseInsensitive	Disable case-sensitivity matching for HTTP.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HeaderModifyPerRequest	Enable modify the HTTP header of every HTTP request or response.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535. By default, 4096 is configured.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 4096.	N/A
SecondaryCookieDelimiters	The delimiters used to separate secondary cookies.	N/A	String. Length: 1 to 4 characters. By default: the value is /&#+.	Delimiter characters are defined to be one of the following: "!" """" "#" ";" "<" ">" "?" " [" "\" "]" "^" "`" "|" ":" "@" "&" "$" "+" "*" """ "(" ")" "," "/" can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by &rt;, ' should be transferred meaning by ', " should be transferred meaning by ".
SecondaryCookieStart	Starting character of secondary cookies.	N/A	String. Length: 1 to 2 characters. By default, the value is ?.	Delimiter characters are defined to be one of the following: "!" """" "#" ";" "<" ">" "?" " [" "\" "]" "^" "`"| can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by &rt;, ' should be transferred meaning by ', " should be transferred meaning by ".
CookieEncryptName	Name of the cookie that	N/A	String.Length: 1 to 63 characters.	CookieEncryptName and CookiePassword

Column name	Column description	Column type	Data type and restrictions	Remarks
	excepted to be encrypted.			are mutually dependent and both of them should be set in a single message.
CookieCipher Password	Specify an cookie key in encrypted form.	N/A	String. Length: 1 to 73 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
CookieSimple Password	Specify an cookie key in plaintext form.	N/A	String. Length: 1 to 31 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: • 0—Keep (default). • 1—Drop.	N/A

LB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<LB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
      <MemorySize></MemorySize>
```

```
      <WindowSize></WindowSize>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9 By default, 1 is configured.	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip (default). • 2—Deflate.	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, 1024 is configured.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DeleteAccept Encoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB(default). • 16—16KB. • 32—32KB. • 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB(default). • 32—32KB.	N/A

LB/HTTPStatisticsParameters

This table contains information about HTTP statistics parameter profile.

XML structure

```
<LB>
  <HTTPStatisticsParameters>
    <HTTPStatisticsParameter>
      <Name></Name>
      <Description></Description>
    </HTTPStatisticsParameter>
  </HTTPStatisticsParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatisticsParameters
Table type	Multi-instance table
Row name	HTTPStatisticsParameter
Restrictions	Only HTTP statistics parameter profile can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```
<LB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </OneConnectParameter>
  </OneConnectParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	OneConnectParameters
Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
IPv4Source Mask	IPv4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6Source Prefix	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

LB/MySQLParameters

This table contains information about a MySQL parameter profile.

XML structure

```
<LB>
  <MySQLParameters>
    <MySQLParameter>
      <Name></Name>
      <Description></Description>
      <PoolSize></PoolSize>
      <ServerConnectionReuse></ServerConnectionReuse>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </MySQLParameter>
```

```
  </MySQLParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLParameters
Table type	Multi-instance table
Row name	MySQLParameter
Restrictions	Only MySQL parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
PoolSize	Max cache connection count.	N/A	Unsigned integer. Value range: 1 to 64000. By default, the count is 1024.	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
IPv4SourceMask	IPv4 source mask to determine its	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	eligibility for reuse.		0.	
IPv6Source Prefix	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

LB/HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```
<LB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>
      <Name></Name>
      <ID></ID>
      <Type></Type>
      <FilterType></FilterType>
      <Expression></Expression>
    </HTTPCompressionParameterRule>
  </HTTPCompressionParameterRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parameter.		Length: 1 to 63 characters.	
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: • 0—URL. • 1—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

LB/AddressPortStickyGroups

This table contains information about address-port sticky groups.

XML structure

```
<LB>
  <AddressPortStickyGroups>
    <AddressPortStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Ipv4MethodType></Ipv4MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6MethodType></Ipv6MethodType>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </AddressPortStickyGroup>
  </AddressPortStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	AddressPortStickyGroups

Table type	Multi-instance table
Row name	AddressPortStickyGroup
Restrictions	Only address-port sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
Ipv4MethodType	IPv4 sticky method of the address-port sticky group.	N/A	Enumeration: • 0—None (default). • 1—Source IP stickiness. • 2—Source IP port stickiness. • 3—Destination IP stickiness. • 4—Destination IP port stickiness. • 5—Source IP and destination IP stickiness. • 6—Source IP port and destination IP port stickiness.	N/A
Ipv4PrefixLength	IPv4 mask for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when Ipv4MethodType is not none (0).
Ipv6MethodType	IPv6 sticky method of the address-port sticky group.	N/A	Enumeration: • 0—None (default). • 1—Source IPv6 stickiness. • 2—Source IPv6 port stickiness. • 3—Destination IPv6	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			stickiness. • 4—Destination IPv6 port stickiness. • 5—Source IPv6 and destination IPv6 stickiness. • 6—Source IPv6 port and destination IPv6 port stickiness.	
Ipv6PrefixLength	IPv6 prefix for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when Ipv6MethodType is not none (0).
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/RADIUSStickyGroups

This table contains information about RADIUS sticky groups.

XML structure

```
<LB>
  <RADIUSStickyGroups>
    <RADIUSStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </RADIUSStickyGroup>
  </RADIUSStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSStickyGroups

Table type	Multi-instance table
Row name	RADIUSStickyGroup
Restrictions	Only RADIUS sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
AttributeCode	Code of attribute	N/A	Unsigned integer. Value range: 1 to 255.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/PayloadStickyGroups

This table contains information about payload sticky groups.

XML structure

```
<LB>
  <PayloadStickyGroups>
    <PayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
```

```
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </PayloadStickyGroup>
  </PayloadStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	PayloadStickyGroups
Table type	Multi-instance table
Row name	PayloadStickyGroup
Restrictions	Only HTTP payload sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the payload sticky group.	N/A	Enumeration: • 0—None (default). • 1—Payload stickiness.	Only when the type is payload stickiness (1), configurations of offset, length, start and end can be configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default,60s is configured. 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/HTTPContentStickyGroups

This table contains information about HTTP content sticky groups.

XML structure

```
<LB>
  <HTTPContentStickyGroups>
    <HTTPContentStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPContentStickyGroup>
  </HTTPContentStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	HTTPContentStickyGroups
Table type	Multi-instance table
Row name	HTTPContentStickyGroup
Restrictions	Only HTTP content sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of HTTP content sticky group.	N/A	Enumeration: • 0—None (default). • 1—Content stickiness.	Only when the type is content stickiness (1), configurations of offset, length, start and end can be configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	entries.			
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/HTTPCookieStickyGroups

This table contains information about HTTP cookie sticky groups.

XML structure

```
<LB>
  <HTTPCookieStickyGroups>
    <HTTPCookieStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CookieSecondary></CookieSecondary>
      <CheckAll></CheckAll>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPOnly></HTTPOnly>
      <Secure></Secure>
      <CookieDomain></CookieDomain>
      <CookiePath></CookiePath>
    </HTTPCookieStickyGroup>
  </HTTPCookieStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCookieStickyGroups
Table type	Multi-instance table
Row name	HTTPCookieStickyGroup

Restrictions	Only HTTP cookie sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
Type	Sticky method of HTTP cookie sticky group.	N/A	Enumeration: • 0—None (default). • 1—Cookie insert stickiness. • 2—Cookie rewrite stickiness • 3—Cookie get stickiness	Only when the type is cookie rewrite (3), configurations of offset, length, start and end can be configured.
CookieName	Name of the cookie.	N/A	String. Length: 0 to 63 characters.	When Type is rewrite (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """ "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	stickiness.			
CookieSecondary	Name of the secondary cookie.	N/A	String. Length: 0 to 63 characters.	Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
HTTPOnly	HTTP cookie attribute for HTTP only.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
Secure	HTTP cookie attribute for secure.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
CookieDomain	HTTP cookie attribute for domain.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Cookie insert stickiness(1).
CookiePath	HTTP cookie attribute for path.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is Cookie insert stickiness(1).

LB/HTTPHeaderStickyGroups

This table contains information about HTTP header sticky groups.

XML structure

```
<LB>
  <HTTPHeaderStickyGroups>
    <HTTPHeaderStickyGroup>
```

```
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPHeaderStickyGroup>
  </HTTPHeaderStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPHeaderStickyGroups
Table type	Multi-instance table
Row name	HTTPHeaderStickyGroup
Restrictions	Only HTTP header sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of HTTP	N/A	Enumeration:	Only when the type is URL stickiness (1) or host

Column name	Column description	Column type	Data type and restrictions	Remarks
	header sticky group.		• 0—None (default). • 1—URL stickiness. • 2—Host stickiness • 3—Method stickiness • 4—Version stickiness • 5—Name stickiness	stickiness (2) or name stickiness (5) , configurations of offset, length, start, and end can be configured.
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When Type is method stickiness (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
Offset	Offset to the first byte of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/SSLStickyGroups

This table contains information about SSL sticky groups.

XML structure

```
<LB>
  <SSLStickyGroups>
    <SSLStickyGroup>
      <Name></Name>
```

```
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </SSLStickyGroup>
  </SSLStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SSLStickyGroups
Table type	Multi-instance table
Row name	SSLStickyGroup
Restrictions	Only SSL sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of SSL sticky group.	N/A	Enumeration: • 0—None (default). • 1—SSL Session-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/SIPStickyGroups

This table contains information about SIP sticky groups.

XML structure

```
<LB>
  <SIPStickyGroups>
    <SIPStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </SIPStickyGroup>
  </SIPStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SIPStickyGroups
Table type	Multi-instance table
Row name	SIPStickyGroup
Restrictions	Only SIP sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.			
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of SIP sticky group.	N/A	Enumeration: • 0—None (default). • 1—SIP Call-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/HTTPPassiveStickyGroups

This table contains information about HTTP passive sticky groups.

XML structure

```
<LB>
  <HTTPPassiveStickyGroups>
    <HTTPPassiveStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPPassiveCheckAll></HTTPPassiveCheckAll>
    </HTTPPassiveStickyGroup>
  </HTTPPassiveStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveStickyGroups

Table type	Multi-instance table
Row name	HTTPPassiveStickyGroup
Restrictions	Only HTTP passive sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Stickiness-over-busyness.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
HTTPPassiveCheckAll	Enable checking for all packets for an HTTP passive sticky group.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/HTTPPassiveStickyMethodGroups

This table contains information about HTTP passive sticky methods.

XML structure

```
<LB>
  <HTTPPassiveStickyMethodGroups>
    <HTTPPassiveStickyMethodGroup>
      <Name></Name>
      <PktActionType></PktActionType>
      <ID></ID>
```

```
      <MethodType></MethodType>
      <HeaderType></HeaderType>
      <HeaderName></HeaderName>
      <Length></Length>
      <Start></Start>
      <End></End>
    </HTTPPassiveStickyMethodGroup>
  </HTTPPassiveStickyMethodGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveStickyMethodGroups
Table type	Multi-instance table
Row name	HTTPPassiveStickyMethodGroup
Restrictions	Only HTTP passive sticky group method can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky method group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PktActionType	Action type of.	Index	Enumeration: • 0—None. • 1—Get. • 2—Match.	N/A
ID	ID of method.	Index	Unsigned integer. Value range:0 to 3.	N/A
MethodType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None (default). • 1—Header method. • 2—Content method.	Only when the MethodType is Header method (1), configurations of HeaderType,HeaderName can be configured.
HeaderType	Header type of HTTP passive sticky group.	N/A	Enumeration: • 0—None (default). • 1—URL stickiness. • 2—Name stickiness.	Only when the MethodType is Header method (1), HeaderType and, HeaderName can be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When the PktActionType(2),this column can be 1.
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When MethodType is header method, this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
Length	Length of the HTTP header or content value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is configured, the other cannot be configured.
Start	Beginning pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/UDPPassiveStickyGroups

This table contains information about UDP passive sticky groups.

XML structure

```
<LB>
  <UDPPassiveStickyGroups>
    <UDPPassiveStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Get></Get>
      <GetOffset></GetOffset>
      <GetLength></GetLength>
      <GetStart></GetStart>
      <GetEnd></GetEnd>
      <Match></Match>
      <MatchOffset></MatchOffset>
      <MatchLength></MatchLength>
      <MatchStart></MatchStart>
      <MatchEnd></MatchEnd>
      <OverrideLimit></OverrideLimit>
```

```
    <PriorBusyEnable></PriorBusyEnable>
   </UDPPassiveStickyGroup>
  </UDPPassiveStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	UDPPassiveStickyGroups
Table type	Multi-instance table
Row name	UDPPassiveStickyGroup
Restrictions	Only UDP passive sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
Get	Action type.	N/A	Enumeration: • 0—None (default). • 1—Get.	Only when the Get is not None, configurations of GetOffset,GetLength, GetStart and GetEnd can be configured
GetOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
GetLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is configured, the other cannot be configured.
GetStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
GetEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Match	Action type of packet direction.	N/A	Enumeration: • 0—None (default). • 1—Match.	Only when the Match is not None, configurations of MatchOffset, MatchLength, MatchStart and MatchEnd can be configured
MatchOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
MatchLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is configured, the other cannot be configured.
MatchStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Stickiness-over-busyness.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/TCPPayloadStickyGroups

This table contains information about TCP payload sticky groups.

XML structure

```
<LB>
  <TCPPayloadStickyGroups>
    <TCPPayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
```

```
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </TCPPayloadStickyGroup>
  </TCPPayloadStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPPayloadStickyGroups
Table type	Multi-instance table
Row name	TCPPayloadStickyGroup
Restrictions	Only TCP payload sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the TCP payload sticky group.	N/A	Enumeration: • 0—None (default). • 1—TCP Payload stickiness.	Only when the type is TCP Payload stickiness (1), configurations of offset, length, start and end can be configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default,60s is configured. 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the TCP payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
Length	Length of the TCP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	If one of Length and End is configured, the other cannot be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, 0 is configured.	
Start	Beginning pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
PriorBusyEnable	Stickiness-over-busyness.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

LB/Policies

This table contains information about policies.

XML structure

```
<LB>
  <Policies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <DefaultClassAction></DefaultClassAction>
    </Policy>
  </Policies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	Only policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type for the policy.	N/A	Enumeration: • 0—Generic. • 1—HTTP. • 2—Link-generic. • 3—DNS. • 4—RADIUS. • 5—MySQL.	When this column is configured, the value of this column cannot be modified.
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
DefaultClassAction	Action for the default class of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/ClassActions

This table contains information about policy rules.

XML structure

```
<LB>
  <ClassActions>
    <ClassAction>
      <Policy></Policy>
      <Class></Class>
      <Action></Action>
      <BeforeClass></BeforeClass>
    </ClassAction>
  </ClassActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClassActions
Table type	Multi-instance table
Row name	ClassAction

Restrictions	Only policy rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Name of the action for the class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	When a row is created, the column must be configured.
BeforeClass	Name of the class that the row will be inserted before.	N/A	String, case-insensitive. Length: 0 to 63 characters.	BeforeClass must be an existing class. By default, indicates the row will be inserted at last.

LB/GenericActions

This table contains information about IP, TCP and UDP action.

XML structure

```
<LB>
  <GenericActions>
    <GenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <TCPDropType></TCPDropType>
    </GenericAction>
  </GenericActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericActions
Table type	Multi-instance table
Row name	GenericAction
Restrictions	Only IP, TCP and UDP action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Server farm.	When ForwardType changes from server farm (3) to drop (1) or forward all (2), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next class. • 3—Fin close. • 4—Rst close.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A

LB/RADIUSActions

This table contains information about RADIUS action.

XML structure

```
<LB>
  <RADIUSActions>
    <RADIUSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <IPToS></IPToS>
      <Fallback></Fallback>
    </RADIUSAction>
  </RADIUSActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSActions
Table type	Multi-instance table
Row name	RADIUSAction
Restrictions	Only RADIUS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	action.		Length: 1 to 63 characters.	
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Server farm.	When ForwardType changes from server farm (3) to drop (1) or forward all (2), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
StickyGroup	Name of the sticky group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
BackupSticky Group	Name of the backup sticky group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column cannot be configured when the ServerFarm and StickyGroup are not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next class.	N/A

LB/LinkGenericActions

This table contains information about Link-generic action.

XML structure

```
<LB>
  <LinkGenericActions>
    <LinkGenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <LinkGroup></LinkGroup >
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
```

```
      <IPToS></IPToS>
      <Fallback></Fallback>
      <BusyFallback></BusyFallback>
    </LinkGenericAction>
  </LinkGenericActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericActions
Table type	Multi-instance table
Row name	LinkGenericAction
Restrictions	Only Link-generic action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Server farm.	N/A
LinkGroup	Name of the link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes link group (3).
BackupLinkGroup	Name of the backup link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next class.	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: • 0—Force (default). • 1—Match next class.	N/A

LB/DNSActions

This table contains information about DNS action.

XML structure

```
<LB>
  <DNSActions>
    <DNSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <DNSServerPool></DNSServerPool>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <StickyGroup></StickyGroup>
      <BusyFallback></BusyFallback>
    </DNSAction>
  </DNSActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSActions
Table type	Multi-instance table
Row name	DNSAction
Restrictions	Only DNS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—DNS server pool. • 4—Skip current DNS proxy.	N/A
DNSServerPool	Name of the DNS server pool for the action.	N/A	String, case-insensitive. Length: 1 to 63 characters.	When the column is configured, ForwardType becomes DNS server pool (3).
IPToS	ToS number of IP packet sent to DNS server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when DNS server select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next class.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the DNSServerPool is not configured.
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: • 0—Force (default). • 1—Match next class.	N/A

LB/HTTPActions

This table contains information about HTTP action.

XML structure

```
<LB>
  <HTTPActions>
    <HTTPAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
```

```
      <BackupStickyGroup></BackupStickyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <RewriteValue></RewriteValue>
      <ReplaceValue></ReplaceValue>
      <Redirect></Redirect>
      <ReturnCode></ReturnCode>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <TCPDropType></TCPDropType>
    </HTTPAction>
  </HTTPActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActions
Table type	Multi-instance table
Row name	HTTPAction
Restrictions	Only HTTP action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop (default). • 3—Server farm. • 8—Redirect • 9—Response.	When ForwardType changes from server farm (3) to drop (1) or redirect (8) or response (9), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServer Farm	Name of the backup sever	N/A	String, case-insensitive.	The column cannot be configured when

Column name	Column description	Column type	Data type and restrictions	Remarks
	farm for the action.		Length: 0 to 63 characters.	ServerFarm is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
BackupStickyGroup	Name of the backup sticky group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column cannot be configured when the ServerFarm and StickyGroup are not configured. The null string indicates the label is not configured.
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next class. • 2—Response. • 3—Fin close. • 4—Rst close.	N/A
RewriteValue	Content value need to be replaced in response.	N/A	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message. %pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.

Column name	Column description	Column type	Data type and restrictions	Remarks
Redirect	Redirection URL.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column has two special usages, analyzes host and URL from requests. Only three symbols such as ‘p’, ’h’ and ‘%’ can be put behind ‘%’. Two ‘%’ are regarded as one ‘%’. Process can handle, so the number of ‘%’ must be even. They input below, except ‘%%%p’ and ’%%%h’. ’%p’ and ‘%h’ only have one occurrence in the messages.
ReturnCode	Status code in the returned redirection packets.	N/A	Enumeration: • 301—The requested resource has been permanently deleted. • 302—The requested resource has been temporarily deleted (default). • 307—The requested resource has been provisory deleted.	N/A
ZipFileWorkpath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	If the column is not ‘/’, it must start with /, and cannot end with /. The null string indicates the label is not configured.
ResponseZipFile	Full path and name of the zip file for the response. Example: • flash:/lb/1.html • chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when ZipFileWorkpath is not configured.
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: • flash:/lb/1.html • chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A

LB/HTTPActionResponseFiles

This table contains information about HTTP action response file.

When this table is configured the ForwardType of http action becomes response(9).

XML structure

```
<LB>
  <HTTPActionResponseFiles>
    <HTTPActionResponseFile>
      <Action></Action>
      <URL></URL>
      <FileName></FileName>
    </HTTPActionResponseFile>
  </HTTPActionResponseFiles>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionResponseFiles
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action response file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
URL	URL of file for the action response.	Index	String. Length: 1 to 255 characters.	The column must start with /. When the column is

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured, ForwardType becomes Resposne (9).
FileName	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column must start witch device name.

LB/HTTPActionRewriteURLs

This table contains information about HTTP action rewrite URL.

XML structure

```
<LB>
  <HTTPActionRewriteURLs>
    <HTTPActionRewriteURL>
      <ActionName></ActionName>
      <LocationURL></LocationURL>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionRewriteURL>
  </HTTPActionRewriteURLs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionRewriteURLs
Table type	Multi-instance table
Row name	HTTPActionURL
Restrictions	Only HTTP action rewrite URL can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionName	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocationURL	URL of location	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	value for the HTTP request line.		Length: 0 to 127 characters.	
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	This column only can be configured when LocationURL is configured. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name

Column name	Column description	Column type	Data type and restrictions	Remarks
				%{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. • 2—Base64	

LB/HTTPActionSSLURLs

This table contains information about HTTP action SSLURL.

XML structure

```
<LB>
  <HTTPActionSSLURLs>
    <HTTPActionSSLURL>
      <Name></Name>
      <LocationURL></LocationURL>
      <ClearPort></ClearPort>
      <SSLPort></SSLPort>
    </HTTPActionSSLURL>
  </HTTPActionSSLURLs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionSSLURLs
Table type	Multi-instance table
Row name	HTTPActionSSLURL
Restrictions	Only HTTP action SSL URL can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 1 to 63 characters.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	This column can only be configured when LocationURL is configured.
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	This column can only be configured when LocationURL is configured.

LB/HTTPActionHeaders

This table contains information about HTTP action header.

XML structure

```
<LB>
  <HTTPActionHeaders>
    <HTTPActionHeader>
      <Action></Action>
      <Type></Type>
      <Direction></Direction>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <HeaderExpress></HeaderExpress>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionHeader>
  </HTTPActionHeaders>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionHeaders
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action header can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: • 0—Header Delete. • 1—Header Insert. • 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: • 0—Request and Response. • 1—Request. • 2—Response.	N/A
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 1 to 63 characters.	HeaderName cannot contain any one of characters following: 0 to 31 and 127 to 255 in the ASCII table, character as "(" ")" "<" ">" "@" "," ";" ":" "\" """ "/" "[" "]" "?" "=" "{" "}" SP HT.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	This column has validity in Header Insert process. You cannot configure this column if the type is not Header Insert. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address. %pd: destination port.

Column name	Column description	Column type	Data type and restrictions	Remarks
				%sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.

Column name	Column description	Column type	Data type and restrictions	Remarks
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2).
Replace	Replaced string that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2). Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate

Column name	Column description	Column type	Data type and restrictions	Remarks
				%{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. • 2—Base64	Encode

LB/Classes

This table contains information about classes.

XML structure

```
<LB>
  <Classes>
    <Class>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <MatchCondition></MatchCondition>
    </Class>
  </Classes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Classes
Table type	Multi-instance table
Row name	Class

Restrictions	Only class can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the class.	N/A	Enumeration: • 0—Generic. • 1—HTTP. • 2—Link-generic. • 3—DNS. • 4—RADIUS. • 5—MySQL.	When a class is created, the column must be configured. Once created, this column cannot be changed.
Description	Description of the class.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchCondition	The rule matched class.	N/A	Enumeration: • 0—Match any. • 1—Match all (default).	Once created, this column cannot be changed.

LB/GenericMatchRules

This table contains information about generic match rule.

XML structure

```
<LB>
  <GenericMatchRules>
    <GenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <ISP></ISP>
      <User></User>
      <UserGroup></UserGroup>
```

```
    <IdentityDomain></IdentityDomain>
    <InterfaceName></InterfaceName>
    <PayloadExpression></PayloadExpression>
    <CaseInsensitive></CaseInsensitive>
    <Not></Not>   </GenericMatchRule>
  </GenericMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericMatchRules
Table type	Multi-instance table
Row name	GenericMatchRule
Restrictions	Only generic match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—ISP. • 6—User. • 7—User group. • 8—Interface. • 9—payload.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configuredonly when the type is **Class** (2).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the type is ISP (5).
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no username is specified.	This column can be configured only when the type is user (6).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (7).
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (6 or 7). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters.	This column can be configured only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, no interface name is specified.	type is interface (8).
PayloadExpression	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	This column can be configured only when the type is payload (9).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case sensitive (default) • 1—Case insensitive	This column can be configured only when the type is payload(9).
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	This column can be configured only when the type is payload(9).

LB/LinkGenericMatchRules

This table contains information about link generic match rule.

XML structure

```
<LB>
  <LinkGenericMatchRules>
    <LinkGenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <ISP></ISP>
      <AppGroup></AppGroup>
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <DstDomain></DstDomain>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
```

```
    <InterfaceName></InterfaceName>
  </LinkGenericMatchRule>
 </LinkGenericMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericMatchRules
Table type	Multi-instance table
Row name	LinkGenericMatchRule
Restrictions	Only link generic match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—ISP. • 6—Application group. • 7—Destination IPv4. • 8—Destination IPv6. • 9—Destination domain. • 10—User. • 11—User group. • 12—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4Prefix	Mask length of	N/A	Unsigned integer.	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	the source IPv4 address.		Value range: 0 to 32. By default, the value is 32.	configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the type is Class (2).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the type is ISP (5).
AppGroup	Name of the application group.	N/A	String. Length: 1 to 63 characters. By default, no application group name is specified.	This column can be configured only when the type is application group (6).
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is destination IPv4(7).
DstIpv4PrefixLength	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when destination IPv4 address is configured.
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is destination IPv6 (8).
DstIpv6PrefixLength	Prefix length of the destination	N/A	Unsigned integer.	This column can be configured only when

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 address.		Value range: 0 to 128. By default, the value is 128.	destination IPv6 address is configured.
DstDomain	Match rule of destination domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (10).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (11).
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (10 or 11). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (12).

LB/DNSMatchRules

This table contains information about DNS match rule.

XML structure

```
<LB>
  <DNSMatchRules>
    <DNSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <Domain></Domain>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
    </DNSMatchRule>
  </DNSMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSMatchRules
Table type	Multi-instance table
Row name	DNSMatchRule
Restrictions	Only DNS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Destination IPv4. • 3—Destination IPv6. • 4—Class. • 5—IPv4 ACL. • 6—IPv6 ACL. • 7—Domain name. • 8—User. • 9—User group. • 10—Interface.	N/A
SrcIpv4Address	Match rule of source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is destination IPv4(2).
DstIpv4PrefixLength	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when destination IPv4 address is configured.
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is destination IPv6 (3).
DstIpv6PrefixLength	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when destination IPv6 address is configured.
ReferClass	Name of the	N/A	String, case-insensitive.	This column can be

Column name	Column description referenced class.	Column type	Data type and restrictions Length: 1 to 63 characters.	Remarks configured only when the type is Class (4).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (5) or IPv6 ACL (6).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (5) or IPv6 ACL (6).
Domain	Domain for the DNS match rule	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (8).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (9).

Column name	Column description	Column type	Data type and restrictions	Remarks
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (8 or 9). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (10).

LB/HTTPMatchRules

This table contains information about HTTP match rule.

XML structure

```
<LB>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <CookieName></CookieName>
      <CookieValue></CookieValue>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <Method></Method>
      <ExtType></ExtType>
      <URL></URL>
      <ContentOffset></ContentOffset>
      <ContentExpression></ContentExpression>
      <AclNum></AclNum>
      <AclName></AclName>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
      <Version></Version>
    </HTTPMatchRule>
  </HTTPMatchRules>
```

```
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule
Restrictions	Only HTTP match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—Cookie. • 4—HTTP Header. • 5—Method. • 6—URL. • 7—Content. • 8—IPv4 ACL. • 9—IPv6 ACL. • 11—User. • 12—User group. • 13—Interface. • 14—version.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6(1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is **Class** (2).
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Cookie (3).
CookieValue	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Cookie (3) and the CookieName has been configured.
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is HTTP Header (4).
HeaderValue	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is HTTP Header (4) and the HeaderName has been configured.
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Method (5).When the ExtType is Nonuser-defined (0), Method can only be configured one of these methods: GET, CONNECT, DELETE, HEAD, OPTIONS, TRACE, PUT, AND POST.
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • 0—Nonuser-defined (default). • 1—User-defined.	N/A
URL	Regular expression matched the URL.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is URL (6).
ContentOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	This column can be configured only when the type is Content (7).
ContentExpre	Regular	N/A	String.	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
ssion	expression matched the content.		Length: 0 to 255 characters.	configured only when the type is Content (7).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutuallyexclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (8) or IPv6 ACL (9).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (8) or IPv6 ACL (9).
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (11).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (12).
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (11 or 12). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (13).
Version	The version of HTTP.	N/A	Enumeration: • 0—1.0. • 1—1.1.	N/A

LB/RADIUSMatchRules

This table contains information about RADIUS match rule.

XML structure

```
<LB>
  <RADIUSMatchRules>
```

```
    <RADIUSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <AttributeType></AttributeType>
      <AttributeExpression></AttributeExpression>
    </RADIUSMatchRule>
  </RADIUSMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSMatchRules
Table type	Multi-instance table
Row name	RADIUSMatchRule
Restrictions	Only RADIUS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—RADIUS.	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configuredonly when the type is Class (2).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	This column can be configured only when the type is RADIUS (5).
AttributeExpression	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is RADIUS (5).

LB/MySQLMatchRules

This table contains information about MySQL match rules.

XML structure

```
<LB>
  <MySQLMatchRules>
    <MySQLMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <SqlExpression></SqlExpression>
      <CaseInsensitive></CaseInsensitive>
      <Not></Not>
    </MySQLMatchRule>
  </MySQLMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLMatchRules
Table type	Multi-instance table
Row name	MySQLMatchRule
Restrictions	Only MySQL match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—SQL.	
SrcIpv4Address	Source IPv4 address to match.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Source IPv6 address to match.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configuredonly when the type is **Class** (2).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
SqlExpression	Regular expression used to match the SQL content.	N/A	String. Length: 1 to 255 characters	This column can be configured only when the type is sql(5).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case sensitive (default) • 1—Case insensitive	This column can be configured only when the type is sql(5).
Not	Whether the matching	N/A	Enumeration: • 0—Matching condition	This column can be configured only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
	condition is opposite		is not opposite (default) • 1—Matching condition is opposite	type is sql(5).

LB/ISPs

This table contains information about ISP.

XML structure

```
<LB>
  <ISPs>
    <ISP>
      <Name></Name>
      <Description></Description>
    </ISP>
  </ISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only manual ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	N/A

LB/ISPFile

This table contains information about ISP file.

XML structure

```
<LB>
  <ISPFile>
    <FileName></FileName>
  </ISPFile>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LB/FlowMode

This table contains information about flow mode.

XML structure

```
<LB>
  <FlowMode>
    <ModeType></ModeType>
  </FlowMode>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	FlowMode
Table type	Single-instance table
Row name	N/A
Restrictions	Only flow mode can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Type of flow mode.	N/A	Enumeration: • 0—Disable. • 1—One failover-group. • 2—Share failover-group (default).	N/A

LB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table

Row name	Ipv4ISPAddressGroup
Restrictions	Only manual IPv4 ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range:1 to 32.	N/A

LB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```
<LB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only manual IPv6 ISP can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range:1 to 128.	N/A

LB/ProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
  <ProximityParameters>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbeMode></DefaultProbeMode>
    <DefaultProbe></DefaultProbe>
    <PacketLossRateWeight></PacketLossRateWeight>
  </ProximityParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProximityParameters

Table type	Single-instance table
Row name	N/A
Restrictions	Only proximity parameter can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range:0 to 32. By default, the value is 24.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:1 to 128. By default, the value is 96.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range:60 to 3600. By default, the value is 60.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range:0 to 10000000. By default, the value is 0 which indicates the number of proximity entries is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			unlimited.	
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: • 0—NQA (default). • 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters. By default, no default probe is specified.	N/A
PacketLossRateWeight	The weight of packet loss rate.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 0.	N/A

LB/VRFProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
  <VRFProximityParameters>
    <VRFProximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
      <MaxNumber></MaxNumber>
      <DefaultProbeMode></DefaultProbeMode>
      <DefaultProbe></DefaultProbe>
      <PacketLossRateWeight></PacketLossRateWeight>
    </VRFProximityParameter>
  </VRFProximityParameters>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	VRFProximityParameters
Table type	Multi-instance table
Row name	VRFProximityParameter
Restrictions	Only proximity parameter can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range:0 to 32. By default, the value is 24.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:1 to 128. By default, the value is 96.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range:60 to 3600. By default, the value is 60.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
MaxNumber	Proximity entries upper	N/A	Unsigned integer. Value range:0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit number.		10000000. By default, the value is 0 which indicates the number of proximity entries is unlimited.	
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: • 0—NQA (default). • 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters. By default, no default probe is specified.	N/A
PacketLossRateWeight	The weight of packet loss rate.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 0.	N/A

LB/ProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```
<LB>
  <ProximityProbeRules>
    <ProximityProbeRule>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </ProximityProbeRule>
  </ProximityProbeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProximityProbeRules
Table type	Multi-instance table
Row name	ProximityProbeRule
Restrictions	Only proximity probe can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: • 0—NQA (default). • 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/VRFProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```
<LB>
  <VRFProximityProbeRules>
    <VRFProximityProbeRule>
      <VRF></VRF>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </VRFProximityProbeRule>
  </VRFProximityProbeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityProbeRules
Table type	Multi-instance table
Row name	VRFProximityProbeRule

Restrictions	Only proximity probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: • 0—NQA (default). • 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/ALG

This table contains information about ALG.

XML structure

```
<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PptpEnable></PptpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
```

```
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table
Row name	N/A
Restrictions	Only ALG can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/LimitPolicies

This table contains information about limit policies.

XML structure

```
<LB>
  <LimitPolicies>
    <LimitPolicy>
      <Name></Name>
      <Description></Description>
    </LimitPolicy>
  </LimitPolicies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitPolicies
Table type	Multi-instance table
Row name	LimitPolicy
Restrictions	Only limit policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/LimitRules

This table contains information about limit policy rules.

XML structure

```
<LB>
  <LimitRules>
    <LimitRule>
      <Name></Name>
      <ID></ID>
      <AclVersion></AclVersion>
      <AclNum></AclNum>
      <AclName></AclName>
      <PerDestination></PerDestination>
      <PerSource></PerSource>
      <PerService></PerService>
      <ThresholdHigh></ThresholdHigh>
      <ThresholdLow></ThresholdLow>
    </LimitRule>
  </LimitRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitRules
Table type	Multi-instance table
Row name	LimitRule
Restrictions	Only limit policy rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the limit policy rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AclVersion	Version of ACL	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message.
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message.
PerDestination	Enable the per-destination connection limit.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
PerSource	Enable the per-source connection limit.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
PerService	Enable the per-service connection limit.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

Column name	Column description	Column type	Data type and restrictions	Remarks
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

LB/Links

This table contains information about link.

XML structure

```
<LB>
  <Links>
    <Link>
      <Name></Name>
      <Description></Description>
      <RouterType></RouterType>
      <RouterInterface></RouterInterface>
      <RouterIpv4Address></RouterIpv4Address>
      <RouterIpv6Address></RouterIpv6Address>
      <Weight></Weight>
      <Priority></Priority>
      <Cost></Cost>
      <LinkGroup></LinkGroup>
      <Shutdown></Shutdown>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <InRateLimitBandwidth></InRateLimitBandwidth>
      <OutRateLimitBandwidth></OutRateLimitBandwidth>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
    </Link>
  </Links>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Links
Table type	Multi-instance table
Row name	Link
Restrictions	Only link can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RouterType	The type of router.	N/A	Enumeration: • 0—Configure. • 1—Auto.	N/A
RouterInterface	Name of the router interface.	N/A	String. case-insensitive. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is Auto (1).
RouterIpv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. This column can be configured only when the type is Configure (0).
RouterIpv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported. This column can be configured only when the type is Configure (0).
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255.	A larger value means a higher weight.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 100.	
Priority	Priority of the link.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240. By default, the value is 0 which indicates that cost factor can be ignore when calculate proximities.	N/A
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no link group is specified.	N/A
Shutdown	Shutdown state for the link.	N/A	Enumeration: • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdown.	N/A
ProbeSuccessCriteria	Probe success criteria for the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 0 KB/s which indicates no preset limit.	
InRateLimitBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset inbound limit.	N/A
OutRateLimitBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset outbound limit.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
BandwidthBusyRecoverRatio	Total bound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyReco	Outbandwidth busy recovery	N/A	Unsigned integer. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
verRatio	ratio.		By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
InheritVPN	Inherit the VPN.	N/A	Enumeration: • 0—Disable inherit the VPN. • 1—Enable inherit the VPN (default).	N/A

LB/LinkProbes

This table contains information about link probe that only uses NQA template..

XML structure

```
<LB>
  <LinkProbes>
    <LinkProbe>
      <Link></Link>
      <Probe></Probe>
    </LinkProbe>
  </LinkProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkProbes
Table type	Multi-instance table
Row name	LinkProbe
Restrictions	Only Link probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the link.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/LinkGroups

This table contains information about link group.

XML structure

```
<LB>
  <LinkGroups>
    <LinkGroup>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectLinkMinNumber></SelectLinkMinNumber>
      <SelectLinkMaxNumber></SelectLinkMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
```

```
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProximityEnable></ProximityEnable>
    </LinkGroup>
  </LinkGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroups
Table type	Multi-instance table
Row name	LinkGroup
Restrictions	Only link group can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 9—Max bandwidth. • 10—Max inbound	The Link-quality predictor and ProximityEnable are mutually exclusive

Column name	Column description	Column type	Data type and restrictions	Remarks
			bandwidth. • 11—Max outbound bandwidth. • 21—Link-quality.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash source address (3), hash source port (4) and hash destination address (5).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column can only be configured when the Predictor hash source address (3), hash source port (4) and hash destination address (5).
SelectLinkMinNumber	Minimum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	If one of SelectLinkMinNumber and SelectLinkMaxNumber is not configured, the other cannot be configured. The value of SelectinkMaxNumber must be greater or equal than SelectLinkMinNumber.
SelectLinkMaxNumber	Maximum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured.	If one of SelectLinkMinNumber and SelectLinkMaxNumber is not configured, the other cannot be configured. The value of SelectinkMaxNumber must be greater or equal than SelectLinkMinNumber.
SlowOnlineEnable	Enable the link group slow online.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	If the column is 0, SlowOnlineStandbyTime and SlowOnlineRampUpTime cannot be configured without default value.
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second. By default, the value is 5.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second. By default, the value is 5.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ActivateLower	The status of main link group will be	N/A	Unsigned integer. Value range: 1 to 99.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The

Column name	Column description	Column type	Data type and restrictions	Remarks
	changed from in use to backup when the ratio of the available links in main link group becomes smaller than this value.		By default, the column is not configured which indicates if one real server is active, the server farm is active.	value of ActivateUpper must be greater or equal than ActivateLower.
ActivateUpper	The status of main server farm will be changed from backup to in use when the ratio of the available links in main link group reaches or over this value.		Unsigned integer. Value range: 1 to 99. By default, the column is not configured.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
SNATPool	SNAT pool for the link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any link fails in a link group.	N/A	Enumeration: • 0—Keep (default). • 1—Reset. • 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that link is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0.	By default, indicates that when real server is available, all results of probes must be success.
ProximityEnable	Enable the proximity.	N/A	Enumeration: • 0—disable (default). • 1—enable.	N/A

LB/LinkGroupProbes

This table contains information about Link Group Probe that only uses NQA template.

XML structure

```
<LB>
  <LinkGroupProbes>
    <LinkGroupProbe>
```

```
      <LinkGroup></LinkGroup>
      <Probe></Probe>
    </LinkGroupProbe>
  </LinkGroupProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupProbes
Table type	Multi-instance table
Row name	LinkGroupProbe
Restrictions	Only link group probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the link group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Regions

This table contains information about region.

XML structure

```
<LB>
  <Regions>
    <Region>
      <Name></Name>
    </Region>
  </Regions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Regions
Table type	Multi-instance table
Row name	Region
Restrictions	Only region can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/RegionISPs

This table contains information about region ISP.

XML structure

```
<LB>
  <RegionISPs>
    <RegionISP>
      <Region></Region>
      <ISP></ISP>
    </RegionISP>
  </RegionISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RegionISPs
Table type	Multi-instance table
Row name	RegionISP
Restrictions	Only Region ISP can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Region	Name of the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ISP	ISP for the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/TopolgyRegions

This table contains information about topolgy region.

XML structure

```
<LB>
  <TopolgyRegions>
    <TopolgyRegion>
      <RegionName></RegionName>
      <Ipv4Address></Ipv4Address>
      <Ipv4MaskLength></Ipv4MaskLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Weight></Weight>
    </TopolgyRegion>
  </TopolgyRegions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegions
Table type	Multi-instance table
Row name	TopolgyRegion
Restrictions	Only TopolgyRegion can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topolgy region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Weight	Weight of the topolgy region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopolgyRegionIPv4s

This table contains information about an IPv4 topolgy region.

XML structure

```
<LB>
  <TopolgyRegionIPv4s>
    <TopolgyRegionIPv4>
      <RegionName></RegionName>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Weight></Weight>
    </TopolgyRegionIPv4>
  </TopolgyRegionIPv4s>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegionIPv4s
Table type	Multi-instance table
Row name	TopolgyRegionIPv4
Restrictions	Only TopolgyRegionIPv4 can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topolgy region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
IPv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Weight	Weight of the topolgy region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopolgyRegionIPv6s

This table contains information about an IPv6 topolgy region.

XML structure

```
<LB>
  <TopolgyRegionIPv6s>
    <TopolgyRegionIPv6>
      <RegionName></RegionName>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
      <Weight></Weight>
```

```
    </TopolgyRegionIPv6>
  </TopolgyRegionIPv6s>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegion IPv6s
Table type	Multi-instance table
Row name	TopolgyRegion IPv6
Restrictions	Only TopolgyRegion IPv6 can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topolgy region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.
IPv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Weight	Weight of the topolgy region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/DNSListeners

This table contains information about a DNS listener.

XML structure

```
<LB>
  <DNSListeners>
    <DNSListener>
      <Name></Name>
```

```
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <IPv6PortNumber></IPv6PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </DNSListener>
  </DNSListeners>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSListeners
Table type	Multi-instance table
Row name	DNSListener
Restrictions	Only DNS Listener can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 53.	
IPv6PortNumber	Number of IPv6 port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A
ServiceEnable	Enable the DNS listener.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: • 0—No-response. • 1—Reject(default). • 2—Dns proxy.	N/A

LB/DNSProxies

This table contains information about DNS proxies.

XML structure

```
<LB>
  <DNSProxies>
    <DNSProxy>
      <Name></Name>
      <Type></Type>
      <VRF></VRF>
      <PortNumber></PortNumber>
      <ServiceEnable></ServiceEnable>
      <DefaultDNSServerPool></DefaultDNSServerPool>
      <Policy></Policy>
      <BusyProtectEnable></BusyProtectEnable>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <StickyGroup></StickyGroup>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </DNSProxy>
  </DNSProxies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSProxies
Table type	Multi-instance table
Row name	DNSProxy
Restrictions	Only DNS proxy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Type	Type of the DNS proxy	N/A	Enumeration: • 0—UDP	When a DNS proxy is created, the column must be specified. Once created, this column cannot be changed.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A
ServiceEnable	Enable the DNS proxy.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
DefaultDNSServerPool	Name of the default DNS server pool.	N/A	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Enable.	
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: • 0—Disable (default). 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the DefaultDNSServerPool is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link-local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.

LB/DNSServers

This table contains information about DNS server.

XML structure

```
<LB>
  <DNSServers>
    <DNSServer>
      <Name></Name>
```

```
      <Description></Description>
      <AutoAllocAddress></AutoAllocAddress>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DNSServerPool></DNSServerPool>
      <Link></Link>
      <Weight></Weight>
      <Priority></Priority>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <VRF></VRF>
    </DNSServer>
  </DNSServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServers
Table type	Multi-instance table
Row name	DNSServer
Restrictions	Only DNS server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
AutoAllocAddress	Automatic allocable address for DNS server. Include IPv4 address and IPv6 address.	N/A	numeration: • 0—Disable. • 1—Enable.	This column cannot be configured with Ipv4Address or Ipv6Address at the same time.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column cannot be configured with AutoAllocAddress at the same time.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. This column cannot be configured with AutoAllocAddress at the same time.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
DNSServer Pool	Name of the DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no DNS server pool is specified.	N/A
Link	Name of the Link.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the DNS server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the DNS server.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A aarger value means a higher priority.
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
VRF	VPN instance name..	N/A	String, Length: 0 to 31 characters. By default, no VPN instance is specified.	The null string indicates public network.

LB/DNSServerProbes

This table contains information about DNS server probe that only uses NQA template.

XML structure

```
<LB>
  <DNSServerProbes>
    <DNSServerProbe>
      <DNSServer></DNSServer>
      <Probe></Probe>
    </DNSServerProbe>
  </DNSServerProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerProbes
Table type	Multi-instance table
Row name	DNSServerProbe
Restrictions	Only DNS server probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPools

This table contains information about DNS server pool.

XML structure

```
<LB>
  <DNSServerPools>
    <DNSServerPool>
```

```
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
    </DNSServerPool>
  </DNSServerPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPools
Table type	Multi-instance table
Row name	DNSServerPool
Restrictions	Only DNS server pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server pool.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a DNS server to a DNS request.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Bandwidth. • 3—Inbound bandwidth. • 4—Outbound bandwidth. • 5—Max bandwidth. • 6—Max inbound bandwidth. • 7—Max outbound	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			bandwidth. • 8—Hash source address. • 9—Hash source port. • 10—Hash destination address.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash source address (3), hash source port (4) and hash destination address (5).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to128. By default, the value is 128.	The column can only be configured when the Predictor hash source address (3), hash source port (4) and hash destination address (5).
SelectServerMinNumber	Minimum number of the active DNS server in the DNS server pool.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
SelectServerMaxNumber	Maximum number of the active DNS server in the DNS server pool.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
ProbeSuccessCriteria	The condition that DNS server is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0.	By default, indicates that when DNS server is available, all results of probes must be success.

LB/DNSServerPoolProbes

This table contains information about DNS server pool probe that only uses NQA template.

XML structure

```
<LB>
  <DNSServerPoolProbes>
    <DNSServerPoolProbe>
      <DNSServerPool></DNSServerPool>
      <Probe></Probe>
```

```
    </DNSServerPoolProbe>
  </DNSServerPoolProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolProbes
Table type	Multi-instance table
Row name	DNSServerPoolProbe
Restrictions	Only DNS server pool probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer Pool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Log

This table contains information about LB logs.

XML structure

```
<LB>
  <Log>
    <BaseEnable></BaseEnable>
    <NatEnable></NatEnable>
    <BandwidthBusyEnable></BandwidthBusyEnable>
    <ScheduleEnable></ScheduleEnable>
</Log>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ScheduleEnable	Enable logging for packet types and DNS domain names.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/ServerFarmMembers

This table contains information about server farm member.

XML structure

```
<LB>
  <ServerFarmMembers>
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
```

```
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProbeLog></ProbeLog>
      <ProbeList>
        <Probe></Probe>
        <NQADefaultPortEnable></NQADefaultPortEnable>
      </ProbeList>
      <ExternalMonitorList>
        <ExternalMonitor></ExternalMonitor>
      </ExternalMonitorList>
      <VariableList>
        <VariableName></VariableName>
        <VariableValue></VariableValue>
      </VariableList>
    </ServerFarmMember>
  </ServerFarmMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmMembers
Table type	Multi-instance table
Row name	ServerFarmMember
Restrictions	Only server farm member can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The server farm member must also be created in real server view.
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the server farm member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
Weight	Weight of the server farm member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the server farm member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
Shutdown	Shutdown state for the server farm member.	N/A	Enumeration: • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps. By default, the value is 0, which indicates the rate is not limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
ProbeLog	Enable logging for health monitoring	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
ProbeList	Probe method list for the server farm	Data structure	Members include: • Probe.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.			
Probe	Probe method for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ExternalMonitorList	External monitor list for the server farm member.	Data structure	Members include: • ExternalMonitor.	N/A
ExternalMonitor	External monitor for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VariableList	Variable list for the server farm member.	Data structure	Members include: • VariableName. • VariableValue.	Members in VariableList can be configured repeatedly by group.
VariableName	Variable name associated with the server farm member.	N/A	String. Length: 1 to 63 characters.	N/A
VariableValue	Variable value associated with the server farm member.	N/A	String. Length: 1 to 127 characters.	This column cannot be configured if the variable name is not configured.

LB/LinkGroupMembers

This table contains information about link group member.

XML structure

```
<LB>
  <LinkGroupMembers>
    <LinkGroupMember>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
```

```
      <ProbeList>
        <Probe></Probe>
      </ProbeList>
    </LinkGroupMember>
  </LinkGroupMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMembers
Table type	Multi-instance table
Row name	LinkGroupMember
Restrictions	Only link group member can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Name of the link group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The link group member must also be created in link view.
Description	Description of the link group member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the link group member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the link group member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
Shutdown	Shutdown state for the link group member.	N/A	Enumeration: • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdo	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			wn.	
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
ProbeList	Probe method list for the link group member.	Data structure	Members include: • Probe.	N/A
Probe	Probe method for the link group member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPoolMembers

This table contains information about DNS server pool member.

XML structure

```
<LB>
  <DNSServerPoolMembers>
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProbeList>
        <Probe></Probe>
```

```
      </ProbeList>
    </DNSServerPoolMember>
  </DNSServerPoolMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMembers
Table type	Multi-instance table
Row name	DNSServerPoolMember
Restrictions	Only DNS server pool member can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer Pool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The DNS server pool member must also be created in DNS server view.
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the DNS server pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
ProbeSuccessCriteria	Probe success criteria for the DNS server pool member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 0 which indicates that probe success criteria is all.	
ProbeList	Probe method list for the DNS server pool member.	Data structure	Members include: • Probe.	N/A
Probe	Probe method for the DNS server pool member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```
<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces
Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

LB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```
<LB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
  </VServerArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

LB/ISPWhoisMntners

This table contains information about ISP whois-mntner.

XML structure

```
<LB>
  <ISPWhoisMntners>
    <ISPWhoisMntner>
      <ISPName></ISPName>
      <WhoisMntner></WhoisMntner>
    </ISPWhoisMntner>
  </ISPWhoisMntners>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPWhoisMntner
Table type	Multi-instance table
Row name	ISPWhoisMntner
Restrictions	Only ISP whois-mntner can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ISPName	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhoisMntner	Name of the whois-mntner.	Index	String, case-sensitive. Length: 1 to 63 characters.	Number of mntner objects in the ISP cannot exceed the limit 10. A whois-mntner object only can be configured by one ISP.

LB/ISPUpdate

This table contains information about ISP update.

XML structure

```
<LB>
  <ISPUpdate>
    <Enable></Enable>
    <Frequency></Frequency>
    <Type></Type>
    <Domain></Domain>
    <Ipv4Address></Ipv4Address>
  </ISPUpdate>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPUpdate
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP update can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the ISP update.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Frequency	Frequency of ISP update.	N/A	Enumeration: • 0—Per-day. • 1—Per-week (default). • 2—Per-month.	N/A
Type	Type of the whois server.	N/A	Enumeration: • 0—Domain. • 1—IPv4 address.	N/A
Domain	Domain of the maintainer.	N/A	String, case-insensitive. Length: 1 to 253 characters. By default, no domain is specified.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). This column can be configured only when the type is Domain(0).
Ipv4Address	Address of the maintainer.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x are not supported. This column can be configured only when the type is IPv4 address(1).

LB/DNSCachesGlobalCfg

This table contains information about DNS global configuration.

XML structure

```
<LB>
  <DNSCachesGlobalCfg>
     <Timeout></Timeout>
  </DNSCachesGlobalCfg>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	DNSCachesCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Aging time of DNS cache.	Index	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

LB/RSTProbeTemplate

This table contains information about RST probe template.

XML structure

```
<LB>
  <RSTProbeTemplates>
    <RSTProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <PacketLimit></PacketLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </RSTProbeTemplate>
  </RSTProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RSTProbeTemplates
Table type	Multi-instance table
Row name	RSTProbeTemplate
Restrictions	Only RST probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packet limit of RST probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 1000000.	N/A.
ProtectAction	Protection action of RST probe template.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0	The busy type protection action is valid and value 0 means keep retrying.

LB/ZeroWindowProbeTemplate

This table contains information about Zero Window probe template.

XML structure

```
<LB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
```

```
      <Description></Description>
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the zero window probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window probe template.	N/A	Unsigned integer: Value range: 1 to 100. By default, the value is 40. Unit: %	N/A.
ProtectAction	Protection action of zero window probe.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdo	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
			wn.	
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0	The busy type protection action is valid and value 0 means keep retrying.

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```
<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Frequency></Frequency>
      <Timeout></Timeout>
    </ProbeTemplate>
  </ProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplate
Table type	Multi-instance table
Row name	N/A
Restrictions	Only probe template can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the probe template.	N/A	Enumeration: • 0—ICMP.	When a probe template is created, the column must be specified.
Frequency	Frequency of the probe template.	N/A	Unsigned integer. Value range: 1 to 604800. Unit: second. By default, the value is 300s.	N/A
Timeout	Timeout time of the probe template.	N/A	Unsigned integer. Value range: 1 to 60. Unit: second. By default, the value is 3s.	N/A

LB/HTTPPassiveProbeTemplate

This table contains information about an HTTP passive probe template.

XML structure

```
<LB>
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <URLList>
        <CheckUrl></CheckUrl>
      </URLList>
      <StatusCodeList>
        <StatusCode></StatusCode>
      </StatusCodeList>
    </HTTPPassiveProbeTemplate>
```

```
  </HTTPPassiveProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5. By default, the value is 1. Unit: second.	N/A
URLThreshold	URL threshold of the HTTP passive probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 10000.	N/A.
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
URLList	URL list for the HTTP passive probe template.	Data structure	Members include: URL.	N/A
CheckUrl	URL for the HTTP passive probe	N/A	String, Length: 1 to 255	A URL list can contain a maximum of 10 URLs.

Column name	Column description	Column type	Data type and restrictions	Remarks
	template.		characters.	
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

LB/ExternalScript

This table contains information about external monitor script files.

XML structure

```
<LB>
  <ExternalScripts>
    <ExternalScript>
      <FileName></FileName>
    </ExternalScript>
  </ExternalScripts>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ExternalScripts
Table type	Multi-instance table
Row name	ExternalScript
Restrictions	Only external monitor script file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the external monitor script file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LB/ExternalMonitor

This table contains information about an external monitor.

XML structure

```
<LB>
  <ExternalMonitors>
    <ExternalMonitor>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <Timeout></Timeout>
      <ExternalScript></ExternalScript>
      <Argument></Argument>
      <EnvVariablesList>
        <VariableName></VariableName>
        <VariableValue></VariableValue>
      </EnvVariablesList>
    </ExternalMonitor>
  </ExternalMonitors>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ExternalMonitors
Table type	Multi-instance table
Row name	ExternalMonitor
Restrictions	Only external monitor can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the external monitor.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the external monitor.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInter	Monitor time	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
val	interval.		Value range: 1 to 86400. By default, the value is 5. Unit: second.	
Timeout	Response timeout of the external monitor.	N/A	Unsigned integer. Value range: 1 to 86400. By default, the value is 3. Unit: second.	N/A
ExternalScript	External monitor script of the external monitor.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Argument	Argument for the external monitor	N/A	String, Length: 1 to 255 characters.	N/A
EnvVariablesList	Environment variable list	Data structure	Members include: • VariableName • VariableValue	N/A
VariableName	Environment variable name for external monitor.	N/A	String. Length: 1 to 63 characters.	N/A
VariableValue	Environment variable value for external monitor.	N/A	String, Length: 1 to 255 characters.	N/A

LB/ExternalMonitorProcessParameter

This table contains information about the external monitor process parameter.

XML structure

```
<LB>
  <ExternalMonitorProcessParameter>
    <ProcessLimit></ProcessLimit>
  </ExternalMonitorProcessParameter>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	ExternalMonitorProcessParameter
Table type	Single-instance table
Row name	N/A
Restrictions	Only external monitor process parameter can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessLimit	Maximum number of processes.	N/A	Unsigned integer, Value range:10 to 1000. By default, the value is 100.	N/A

LB/HTTPStatsParameterObjectGroups

This table contains information about object group of HTTP statistics parameter.

XML structure

```
<LB>
  <HTTPStatsParameterObjectGroups>
    <HTTPStatsParameterObjectGroup>
      <ParameterName></ParameterName>
      <ObjectGroupName></ObjectGroupName>
    </HTTPStatsParameterObjectGroup>
  </HTTPStatsParameterObjectGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterObjectGroups
Table type	Multi-instance table
Row name	HTTPStatsParameterObjectGroup
Restrictions	Only object group of HTTP statistics parameter can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ObjectGroupName	Name of the object group.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

LB/HTTPStatsParameterNodes

This table contains information about HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodes>
    <HTTPStatsParameterNode>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <Description></Description>
    </HTTPStatsParameterNode>
  </HTTPStatsParameterNodes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodes
Table type	Multi-instance table
Row name	HTTPStatsParameterNode
Restrictions	Only HTTP statistics parameter node can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A
Description	Description of the node profile.	N/A	String. Length: 0 to 127 characters.	N/A

LB/HTTPStatsParameterNodeRules

This table contains information about match rule of HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodeRules>
    <HTTPStatsParameterNodeRule>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <ID></ID>
      <Type></Type>
      <URL></URL>
    </HTTPStatsParameterNodeRule>
  </HTTPStatsParameterNodeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodeRules
Table type	Multi-instance table
Row name	HTTPStatsParameterNodeRule
Restrictions	Only rule of HTTP statistics parameter node can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the statistics match rule.	Index	Unsigned integer. Value range: 1 to 256.	N/A
Type	Type of the statistics match rule.	N/A	Enumeration: • 0—URL.	N/A
URL	Regular expression used to match URLs.	N/A	String. Length: 1 to 255 characters.	This column can only be configured when the Type is URL(0).

LB/HTTPStatsParameterNodeRuleLists

This table contains batching information about match rules of HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodeRuleLists>
    <HTTPStatsParameterNodeRuleList>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <IsIncrement></IsIncrement>
      <RuleList>
        <ID></ID>
        <Type></Type>
        <URL></URL>
      </RuleList>
    </HTTPStatsParameterNodeRuleList>
  </HTTPStatsParameterNodeRuleLists>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodeRuleLists
Table type	Multi-instance table
Row name	HTTPStatsParameterNodeRuleList
Restrictions	Only rule of HTTP statistics parameter node can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to increment the data.	N/A	Boolean: • true—Yes. • false—No (default).	N/A
RuleList	List of rule.	Data structure	Members include: • ID • Type • URL	N/A
ID	ID of the statistics match rule.	N/A	Unsigned integer. Value range: 1 to 256.	N/A
Type	Type of the statistics match rule.	N/A	Enumeration: • 0—URL.	N/A
URL	Regular expression used to match URLs.	N/A	String. Length: 1 to 255 characters.	This column can only be configured when the Type is URL(0).

LB/TCPParameterOptions

This table contains information about TCP options.

XML structure

```
<LB>
  <TCPParameterOptions>
    <TCPParameterOption>
      <Parameter></Parameter>
      <Number></Number>
      <Type></Type>
      <ValueType></ValueType>
      <EncodeType></EncodeType>
    </TCPParameterOption>
  </TCPParameterOptions>
```

```
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPParameterOptions
Table type	Multi-instance table
Row name	TCPParameterOption
Restrictions	Only TCP parameter option can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Parameter	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Number	Number of the TCP option.	Index	Unsigned integer. Value range: 2 to 254.	Value range is 6、7、9-18、22-254,when the Type is Option Insert.
Type	Type of the option process.	Index	Enumeration: • 0—Option Remove. • 1—Option Insert.	N/A
ValueType	Type of the insert value.	N/A	Enumeration: • 1—Src addr.	This column has validity in Option Insert process. You cannot configure this column if the type is not Option Insert.
EncodeType	The encode for tcp option.	N/A	Enumeration: • **0—binary**. (default). • **1—string**.	N/A

LB/GlobalSNATs

This table contains information about Global SNAT

XML structure

```
<LB>
  <GlobalSNATs>
    <GlobalSNAT>
      <Name></Name>
```

```
      <Description></Description>
      <VRF></VRF>
      <Priority></Priority>
      <SourceipObjGroup></SourceipObjGroup>
      <DestinationipObjGroup></DestinationipObjGroup>
      <ServiceObjGroup></ServiceObjGroup>
      <TranslationMode></TranslationMode>
      <SnatPoolName></SnatPoolName>
      <TranslationEnable></TranslationEnable>
    </GlobalSNAT>
  </GlobalSNATs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GlobalSnats
Table type	Multi-instance table
Row name	GlobalSnat
Restrictions	Only GlobalSnat can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the SNAT global policy	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Priority	Priority of the SNAT global policy.	N/A	Unsigned integer. Value range: 0 to 65535. By default, priority is 0.	N/A
SourceipObj Group	The source-ip object group of SNAT global	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy for matching source IP addresses		Length: 1 to 31 characters.	
DestinationipObjGroup	The destination-ip object group of SNAT global policy for matching destination IP addresses	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ServiceObjGroup	The service object group of SNAT global policy for matching service of traiff	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Translation Mode	Translation mode of SNAT global policy	N/A	Enumeration: • 0—None(default). • 1—Snat-pool. • 2—Auto-map.	N/A
SnatPoolName	Name of snat-pool	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
TranslationEnable	Whether enable the SNAT global policy	N/A	Enumeration: • 0—disable (default). • 1—enable.	N/A

Contents

LB 1

LB/HTTPVirtualServers 1
XML structure 1
Table description 2
Columns 2
LB/GenericVirtualServers 7
XML structure 7
Table description 8
Columns 9
LB/RADIUSVirtualServers 13
XML structure 13
Table description 14
Columns 14
LB/SIPVirtualServers 17
XML structure 17
Table description 18
Columns 18
LB/MySQLVirtualServers 21
XML structure 21
Table description 22
Columns 22
LB/VirtualServerSummaries 26
XML structure 26
Table description 27
Columns 27
LB/VirtualServerStats 28
XML structure 28
Table description 29
Columns 29
LB/RealServers 32
XML structure 32
Table description 33
Columns 33
LB/RealServerProbes 36
XML structure 36
Table description 37
Columns 37
LB/RealServerStats 37
XML structure 37
Table description 38
Columns 38
LB/ServerFarms 41
XML structure 41
Table description 42
Columns 43
LB/ServerFarmProbes 47
XML structure 47
Table description 47
Columns 48
LB/ServerFarmStats 48
XML structure 48
Table description 49
Columns 49
LB/SNATPools 50
XML structure 50
Table description 51
Columns 51

LB/NewSNATPools ····· 51
XML structure ····· 51
Table description ····· 52
Columns ····· 52
LB/SNATPoolsIpv4Infos ····· 52
XML structure ····· 52
Table description ····· 53
Columns ····· 53
LB/SNATPoolsIpv6Infos ····· 53
XML structure ····· 53
Table description ····· 54
Columns ····· 54
LB/IPParameters ····· 54
XML structure ····· 54
Table description ····· 55
Columns ····· 55
LB/TCPParameters ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
LB/TCPAppParameters ····· 58
XML structure ····· 58
Table description ····· 58
Columns ····· 58
LB/HTTPParameters ····· 59
XML structure ····· 59
Table description ····· 59
Columns ····· 60
LB/HTTPCompressionParameters ····· 61
XML structure ····· 62
Table description ····· 62
Columns ····· 62
LB/HTTPStatisticsParameter ····· 63
XML structure ····· 63
Table description ····· 64
Columns ····· 64
LB/OneConnectParameters ····· 64
XML structure ····· 64
Table description ····· 65
Columns ····· 65
LB/MySQLParameters ····· 65
XML structure ····· 66
Table description ····· 66
Columns ····· 66
LB/HTTPCompressionParameterRules ····· 67
XML structure ····· 67
Table description ····· 68
Columns ····· 68
LB/ParameterSummaries ····· 68
XML structure ····· 68
Table description ····· 69
Columns ····· 69
LB/AddressPortStickyGroups ····· 69
XML structure ····· 70
Table description ····· 70
Columns ····· 70
LB/RADIUSStickyGroups ····· 71
XML structure ····· 71
Table description ····· 72
Columns ····· 72
LB/PayloadStickyGroups ····· 73
XML structure ····· 73

Table description 73
Columns 73
LB/HTTPContentStickyGroups 74
XML structure 74
Table description 75
Columns 75
LB/HTTPCookieStickyGroups 76
XML structure 76
Table description 77
Columns 77
LB/HTTPHeaderStickyGroups 78
XML structure 78
Table description 79
Columns 79
LB/SSLStickyGroups 80
XML structure 80
Table description 80
Columns 81
LB/SIPStickyGroups 81
XML structure 81
Table description 82
Columns 82
LB/StickyGroupSummaries 83
XML structure 83
Table description 83
Columns 83
LB/HTTPPassiveStickyGroups 84
XML structure 84
Table description 84
Columns 84
LB/HTTPPassiveStickyMethodGroups 85
XML structure 85
Table description 86
Columns 86
LB/UDPPassiveStickyGroups 87
XML structure 87
Table description 87
Columns 88
LB/TCPPayloadStickyGroups 89
XML structure 89
Table description 89
Columns 90
LB/Policies 90
XML structure 90
Table description 91
Columns 91
LB/ClassActions 91
XML structure 92
Table description 92
Columns 92
LB/GenericActions 92
XML structure 93
Table description 93
Columns 93
LB/RADIUSActions 94
XML structure 94
Table description 95
Columns 95
LB/LinkGenericActions 96
XML structure 96
Table description 96
Columns 97

LB/DNSActions ····· 97
XML structure ····· 97
Table description ····· 98
Columns ····· 98
LB/HTTPActions ····· 99
XML structure ····· 99
Table description ····· 100
Columns ····· 100
LB/HTTPActionResponseFiles ····· 102
XML structure ····· 102
Table description ····· 103
Columns ····· 103
LB/HTTPActionRewriteURLs ····· 103
XML structure ····· 103
Table description ····· 104
Columns ····· 104
LB/HTTPActionSSLURLs ····· 104
XML structure ····· 104
Table description ····· 105
Columns ····· 105
LB/HTTPActionHeaders ····· 105
XML structure ····· 105
Table description ····· 106
Columns ····· 106
LB/ActionSummaries ····· 107
XML structure ····· 107
Table description ····· 107
Columns ····· 107
LB/Classes ····· 108
XML structure ····· 108
Table description ····· 108
Columns ····· 108
LB/GenericMatchRules ····· 109
XML structure ····· 109
Table description ····· 109
Columns ····· 110
LB/LinkGenericMatchRules ····· 111
XML structure ····· 111
Table description ····· 112
Columns ····· 112
LB/DNSMatchRules ····· 114
XML structure ····· 114
Table description ····· 114
Columns ····· 115
LB/HTTPMatchRules ····· 116
XML structure ····· 116
Table description ····· 117
Columns ····· 117
LB/RADIUSMatchRules ····· 119
XML structure ····· 119
Table description ····· 120
Columns ····· 120
LB/MySQLMatchRules ····· 121
XML structure ····· 121
Table description ····· 121
Columns ····· 122
LB/ISPs ····· 123
XML structure ····· 123
Table description ····· 123
Columns ····· 124
LB/ISPFile ····· 124
XML structure ····· 124

Table description 124
Columns 124
LB/FlowMode 125
XML structure 125
Table description 125
Columns 125
LB/Ipv4ISPAddressGroups 125
XML structure 126
Table description 126
Columns 126
LB/Ipv6ISPAddressGroups 127
XML structure 127
Table description 127
Columns 127
LB/ProximityParameters 128
XML structure 128
Table description 128
Columns 128
LB/VRFProximityParameters 129
XML structure 129
Table description 130
Columns 130
LB/ProximityProbeRules 131
XML structure 131
Table description 131
Columns 132
LB/VRFProximityProbeRules 132
XML structure 132
Table description 132
Columns 133
LB/Ipv4ProximityTables 133
XML structure 133
Table description 134
Columns 134
LB/Ipv6ProximityTables 135
XML structure 135
Table description 135
Columns 135
LB/Ipv4ProximityPageTables 136
XML structure 136
Table description 137
Columns 137
LB/Ipv6ProximityPageTables 138
XML structure 138
Table description 139
Columns 139
LB/Ipv4ProximityNodes 140
XML structure 140
Table description 140
Columns 141
LB/Ipv6ProximityNodes 142
XML structure 142
Table description 142
Columns 143
LB/Specifications 143
XML structure 144
Table description 144
Columns 144
LB/ALG 145
XML structure 145
Table description 145
Columns 146

LB/ProximityStats 147
XML structure 147
Table description 147
Columns 148
LB/LimitPolicies 148
XML structure 148
Table description 148
Columns 149
LB/LimitRules 149
XML structure 149
Table description 149
Columns 150
LB/Links 150
XML structure 150
Table description 151
Columns 152
LB/LinkProbes 155
XML structure 155
Table description 155
Columns 155
LB/LinkStats 156
XML structure 156
Table description 157
Columns 157
LB/LinkOutInterfaces 159
XML structure 159
Table description 160
Columns 160
LB/LinkGroups 160
XML structure 160
Table description 161
Columns 161
LB/LinkGroupProbes 163
XML structure 164
Table description 164
Columns 164
LB/LinkGroupStats 164
XML structure 164
Table description 165
Columns 165
LB/Regions 166
XML structure 166
Table description 167
Columns 167
LB/RegionISPs 167
XML structure 167
Table description 167
Columns 168
LB/TopologyRegions 168
XML structure 168
Table description 168
Columns 169
LB/TopologyRegionIPv4s 169
XML structure 169
Table description 170
Columns 170
LB/TopologyRegionIPv6s 170
XML structure 170
Table description 171
Columns 171
LB/DNSListeners 171
XML structure 171

Table description 172
Columns 172
LB/DNSListenerStats 173
XML structure 173
Table description 173
Columns 174
LB/DNSListenerTypeStats 174
XML structure 174
Table description 175
Columns 175
LB/DNSProxies 176
XML structure 176
Table description 177
Columns 177
LB/DNSProxyStats 178
XML structure 178
Table description 179
Columns 179
LB/DNSServers 180
XML structure 180
Table description 181
Columns 181
LB/DNSServerProbes 182
XML structure 182
Table description 182
Columns 183
LB/DNSServerStats 183
XML structure 183
Table description 183
Columns 184
LB/DNSServerPools 184
XML structure 185
Table description 185
Columns 185
LB/DNSServerPoolProbes 187
XML structure 187
Table description 187
Columns 187
LB/DNSServerPoolStats 187
XML structure 187
Table description 188
Columns 188
LB/Log 189
XML structure 189
Table description 189
Columns 190
LB/ServerFarmMembers 190
XML structure 190
Table description 191
Columns 191
LB/LinkGroupMembers 193
XML structure 194
Table description 194
Columns 194
LB/DNSServerPoolMembers 197
XML structure 197
Table description 197
Columns 198
LB/ServerFarmMemberStats 199
XML structure 199
Table description 200
Columns 200

LB/LinkGroupMemberStats 204
XML structure 204
Table description 205
Columns 205
LB/DNSServerPoolMemberStats 208
XML structure 208
Table description 209
Columns 209
LB/SnatArpInterfaces 210
XML structure 210
Table description 210
Columns 211
LB/VServerArpInterfaces 211
XML structure 211
Table description 211
Columns 212
LB/Connections 212
XML structure 212
Table description 213
Columns 213
LB/ISPWhoisMntners 216
XML structure 216
Table description 216
Columns 216
LB/ISPUpdate 217
XML structure 217
Table description 217
Columns 217
LB/DNSCachesGlobalCfg 218
XML structure 218
Table description 218
Columns 219
LB/RSTProbeTemplate 219
XML structure 219
Table description 219
Columns 220
LB/ZeroWindowProbeTemplate 220
XML structure 220
Table description 221
Columns 221
LB/ProbeTemplateSummaries 222
XML structure 222
Table description 222
Columns 222
LB/ProbeTemplate 223
XML structure 223
Table description 223
Columns 223
LB/HTTPPassiveProbeTemplate 224
XML structure 224
Table description 225
Columns 225
LB/ExternalScript 226
XML structure 226
Table description 226
Columns 226
LB/ExternalMonitor 227
XML structure 227
Table description 227
Columns 227
LB/ExternalMonitorProcessParameter 228
XML structure 228

Table description 228
Columns 229
LB/HTTPStatsParameterObjectGroups 229
XML structure 229
Table description 229
Columns 230
LB/HTTPStatsParameterNodes 230
XML structure 230
Table description 230
Columns 230
LB/HTTPStatsParameterNodeRules 231
XML structure 231
Table description 231
Columns 231
LB/HTTPStatsParameterNodeRuleLists 232
XML structure 232
Table description 232
Columns 233
LB/TCPParameterOptions 233
XML structure 233
Table description 234
Columns 234
LB/GlobalSNATs 234
XML structure 234
Table description 235
Columns 235
LB/VRRPInfo 236
XML structure 236
Table description 236
Columns 237
LB/Connections 237
XML structure 237
Table description 238
Columns 238

LB

LB/HTTPVirtualServers

This table contains information about HTTP and fast HTTP virtual servers.

XML structure

```
<LB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <HTTPParameter></HTTPParameter>
      <CookieSticky></CookieSticky>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <HTTPStatsParameter></HTTPStatsParameter>
      <OneConnectParameter></OneConnectParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
      <RedirectRelocation></RedirectRelocation>
      <RedirectReturnCode></RedirectReturnCode>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
```

```
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <HttpLogFormat></HttpLogFormat>
      <CachePolicy></CachePolicy>
      <AppProfile></AppProfile>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <ExtLinkRewriteEnable></ExtLinkRewriteEnable>
      <ExtLinkInjectURI></ExtLinkInjectURI>
      <ExtLinkDomainSuffix></ExtLinkDomainSuffix>
      <ExtLinkSNATPool></ExtLinkSNATPool>
      <TrustedAccessController></TrustedAccessController>
      <TrustedAccessControllerType></TrustedAccessControllerType>
      <TrustedAccessAction></TrustedAccessAction>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</LB>
```


Table description

Item	Description
Feature name	LB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP and FASTHTTP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—HTTP. • 1—FASTHTTP	N/A
Description	Description for	N/A	String.	The null string indicates the label is

Column name	Column description	Column type	Data type and restrictions	Remarks
	the virtual server.		Length: 0 to 127 characters.	not configured.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupStickyGroup	Name of the backup sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
TCPParame	Client-side tcp	N/A	String,	The null string indicates the label is

Column name	Column description	Column type	Data type and restrictions	Remarks
terClientSide	parameter		case-insensitive. Length: 1 to 63 characters.	not configured.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPStatsParameter	Parameter whose type is HTTP statistics for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
CookieSticky	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
RedirectRelocation	Redirection URL.	N/A	String. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RedirectReturnCode	Redirection condition code.	N/A	Enumeration: • 301—The requested resource has	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			been permanently moved. • 302—The requested resource has been temporarily moved. • 307—The requested resource has been provisory moved.	
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics. • 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StickySynEnable	Enable sticky synchronization.	N/A	• Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the Type is HTTP (0).
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HttpLogFormat	Specified the format of LB http log.	N/A	String. Length: 1 to 255 characters.	This column can only be configured when the type is HTTP (0).
CachePolicy	Name of the cache policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPProtec	Name of the	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
tionPolicy	HTTP protection policy		case-insensitive. Length: 1 to 63 characters.	
ExtLinkRewriteEnable	Enable skylight external link rewrite	N/A	Enumeration: • 0—Disable • 1—Enable.	This column can only be configured when the Type is HTTP (0)
ExtLinkInjectURI	Skylight external link proxy URI	N/A	String, case-insensitive. Length: 1 to 63 characters.	Example:proxy This column can only be configured when the Type is HTTP (0)
ExtLinkDomainSuffix	Skylight external link proxy domain suffix	N/A	String, case-insensitive. Length: 1 to 253 characters.	Example:b.com This column can only be configured when the Type is HTTP (0)
ExtLinkSNATPool	Skylight external link SNAT pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
TrustedAccessController	Name of the trusted access controller.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TrustedAccessControllerType	Type of the trusted access controller	N/A	Enumeration: • 0—None • 1—IAM	When a trusted access controller is created, the column must be specified. Once created, this column cannot be changed.
TrustedAccessAction	Action type for the trusted access controller	N/A	Enumeration: • 0—None • 1—APP-AUTH • 2—API-AUTH	When a action for trusted access controller is created, the column must be specified. Once created, this column cannot be changed.

LB/GenericVirtualServers

This table contains information about IP, TCP and UDP virtual servers.

XML structure

```
<LB>
  <GenericVirtualServers>
    <GenericVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
```

```
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumber></PortNumber>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <DefaultLinkGroup></DefaultLinkGroup>
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <TCPAppParameter></TCPAppParameter>
      <SSLServerPolicy></SSLServerPolicy>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <LinkGroupInUse></LinkGroupInUse>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <ApplicationMode></ApplicationMode>
      <AppProfile></AppProfile>
    </GenericVirtualServer>
  </GenericVirtualServers>
</LB>
```


Table description

Item	Description
Feature name	LB

Table name	GenericVirtualServers
Table type	Multi-instance table
Row name	GenericVirtualServer
Restrictions	Only IP, TCP , UDP and LINK-IP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—LINK-IP.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:0 to 128.	N/A
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			hyphen, or include any whitespace characters.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
DefaultLinkGroup	Name of the default link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupLinkGroup	Name of the backup link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPParameterClientSide	Client-side TCP parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured with the TCPParameter column at the same time.
TCPParameterServerSide	Server-side TCP parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured with the TCPParameter column at the same time.
TCPAppParameter	Parameter profile whose type is TCP-Application for the virtual server	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A
LinkGroupInUse	Name of the in use link group.	N/A	Enumeration: • 0—Default link group. • 1—Backup link group. • 2—No link	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			group.	
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics. • 1—Using interface bandwidth.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Application Mode	Enable TCP layer7 load balancing.	N/A	Enumeration: • 0—TCP layer4 (default). • 1—TCP layer7.	N/A
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	The null string indicates the label is not configured.

LB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```
<LB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
```

```
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <RedundancyGroup></RedundancyGroup>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupStickyGroup	Name of the backup sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics. • 1—Using interface bandwidth.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A

LB/SIPVirtualServers

This table contains information about SIPUDP and SIPTCP virtual servers.

XML structure

```
<LB>
  <SIPVirtualServers>
    <SIPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
```

```
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
    </SIPVirtualServer>
  </SIPVirtualServers >
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SIPVirtualServers
Table type	Multi-instance table
Row name	SIPVirtualServer
Restrictions	Only SIP UDP and SIP TCP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—SIP-UDP. • 1—SIP-TCP.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 1 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DefaultServ	Name of the	N/A	String,	The null string indicates the label is

Column name	Column description	Column type	Data type and restrictions	Remarks
erFarm	default server farm.		case-insensitive. Length: 1 to 63 characters.	not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s	N/A
State	State of the virtual server.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Unavailable. • 1—Available.	
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics. • 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
LimitPolicy	Name of the	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit policy.		case-insensitive. Length: 1 to 63 characters.	
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/MySQLVirtualServers

This table contains information about MySQL virtual servers.

XML structure

```
<LB>
  <MySQLVirtualServers>
    <MySQLVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <MySQLParameter></MySQLParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></ StickySyncType>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <Version></Version>
      <ReadServerFarm></ReadServerFarm>
```

```
      <ReadStickyGroup></ReadStickyGroup>
      <WriteServerFarm></WriteServerFarm>
      <WriteStickyGroup></WriteStickyGroup>
      <RedundancyGroup></RedundancyGroup>
      <VrrpVrid></VrrpVrid>
      <VrrpIfIndex></VrrpIfIndex>     <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <UserList>
        <UserName></UserName>
      </UserList>
    </MySQLVirtualServer>
  </MySQLVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLVirtualServers
Table type	Multi-instance table
Row name	MySQLVirtualServer
Restrictions	Only MySQL virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 3306.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
MySQLParameter	Parameter profile whose type is MySQL for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnect	Maximum	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ionLimit	connection limit.		Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: • 0—Using LB bandwidth statistics (default). • 1—Using interface bandwidth	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			statistics.	
StickySynEnable	Enable sticky entry synchronization.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Version	MySQL version info.	N/A	Enumeration: • 0—5.0. • 1—5.1. • 2—5.5. • 3—5.6. • 4—5.7. • By default, 3 is configured.	N/A
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
VrrpIfIndex	Interface index of VRRP.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. VrrpVrid and VrrpIfIndex are mutually dependent and both of them should be set in a single message.
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
ServerFarmI	Name of the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nUse	server farm in use.		• 0—Default sever farm. • 1—Backup server farm. • 2—Read/Write server farm. • 3—No server farm.	
UserList	MySQL database user list.	Data structure	Members include: • UserName. • Password.	Max user info count is 100.
UserName	MySQL database login username.	N/A	String, Length: 1 to 63 characters.	N/A
ReadServer Farm	MySQL read server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReadSticky Group	Name of the sticky group for read server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the read server farm is not configured.
WriteServer Farm	MySQL write server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
WriteSticky Group	Name of the sticky group for write server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the write server farm is not configured.

LB/VirtualServerSummaries

This table contains summary information about virtual server.

XML structure

```
<LB>
  <VirtualServerSummaries>
    <VirtualServerSummary>
      <Name></Name>
      <Type></Type>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
```

```
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumber></PortNumber>
      <ServiceEnable></ServiceEnable>
      <State></State>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
    </VirtualServerSummary>
  </VirtualServerSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerSummaries
Table type	Multi-instance table
Row name	VirtualServerSummary
Restrictions	Only summaries of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—HTTP. • 4—FASTHTTP. • 5—LINK-IP. • 8—SIP-UDP. • 9—SIP-TCP. • 10—MySQL.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
BusyProtectEnable	State of the busy protect.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
RSBandwidthProtectOrigin	Source of the virtual server bandwidth	N/A	Enumeration: • 0—LB. • 0—interface.	N/A

LB/VirtualServerStats

This table contains stat information about virtual server.

XML structure

```
<LB>
  <VirtualServerStats>
    <VirtualServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ClientSidePKTsIn></ClientSidePKTsIn>
      <ClientSidePKTsOut></ClientSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ClientSideBytesIn></ClientSideBytesIn>
```

```
      <ClientSideBytesOut></ClientSideBytesOut>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <ClientSidePKTsPerSecIn></ClientSidePKTsPerSecIn>
      <ClientSidePKTsPerSecOut></ClientSidePKTsPerSecOut>
    </VirtualServerStat>
  </VirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerStats
Table type	Multi-instance table
Row name	VirtualServerStat
Restrictions	Only stats of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ClientSidePKTsIn	Number of packets that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ClientSidePKTsOut	Number of packets that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ClientSideBytesIn	Number of bytes that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ClientSideBytesOut	Number of bytes that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxConnectionsTime	Time when the virtual server received the maximum number of	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	connections.			
MaxConnectionPerSeTime	Time when the virtual server received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ClientSidePKTsPerSecIn	Number of packets per second that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ClientSidePKTsPerSecOut	Number of packets per second that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A

LB/RealServers

This table contains information about real server.

XML structure

```
<LB>
  <RealServers>
    <RealServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
```

```
      <Priority></Priority>
      <ServerFarm></ServerFarm>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <Cost></Cost>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
      <ProbeLog></ProbeLog>
    </RealServer>
  </RealServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServers
Table type	Multi-instance table
Row name	RealServer
Restrictions	Only Real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the real server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Weight	Weight of the real server.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the real server.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
ServerFarm	Name of the server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Shutdown	Shutdown state for the real server.	N/A	Enumeration: • 0—Not configured. • 1—Shutdown. • 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the real server.	N/A	Enumeration: • 0—Unavailable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown.	
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoverRatio	Outbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
BandwidthBusyRecoverRatio	Total bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			rate.	
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
VRF	VRF name	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
InheritVPN	Inherit the VPN of virtual server	N/A	Enumeration: • 0—Disable inherit the VPN. • 1—Enable inherit the VPN.	N/A
ProbeLog	Enable logging for health monitoring	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/RealServerProbes

This table contains information about Real Server Probe that only uses NQA template.

XML structure

```
<LB>
  <RealServerProbes>
    <RealServerProbe>
      <RealServer></RealServer>
      <Probe></Probe>
      <NQADefaultPortEnable></NQADefaultPortEnable>
      <State></State>
    </RealServerProbe>
  </RealServerProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServerProbes
Table type	Multi-instance table
Row name	RealServerProbe
Restrictions	Only Real server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the real server.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
State	State of the real server probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

LB/RealServerStats

This table contains stat information about real server.

XML structure

```
<LB>
  <RealServerStats>
    <RealServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
```

```
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <MaxInBandwidth></MaxInBandwidth>
      <MaxOutBandwidth></MaxOutBandwidth>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <ServerSidePKTsPerSecIn></ServerSidePKTsPerSecIn>
      <ServerSidePKTsPerSecOut></ServerSidePKTsPerSecOut>
    </RealServerStat>
  </RealServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServerStats
Table type	Multi-instance table
Row name	RealServerStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the real server received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the real server sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the real server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSideBytesIn	Number of bytes that the real server received from	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device.		Unit: Byte.	
ServerSideBytesOut	Number of bytes that the real server sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the real server received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the real server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the real server sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the real server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxInBandwidth	Inbound Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxOutBandwidth	Outbound Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxConnectionsTime	Time when the real server	N/A	DateTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received the maximum number of connections.		Format: YYYY-MM-DDTHH:MM:SS.	
MaxConnectionPerSeTime	Time when the real server received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the real server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the real server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the real server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ServerSidePKTsPerSecIn	Number of packets per second that the real server received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ServerSidePKTsPerSecOut	Number of packets per second that the real server sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A

LB/ServerFarms

This table contains information about server farm.

XML structure

```
<LB>
  <ServerFarms>
    <ServerFarm>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
```

```
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalRealServer></TotalRealServer>
      <ActiveRealServer></ActiveRealServer>
      <State></State>
      <ProximityEnable></ProximityEnable>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <BusyAction></BusyAction>
      <QueueLength></QueueLength>
      <QueueTimeout></QueueTimeout>
      <RSTProbe></RSTProbe>
      <ZeroWindowProbe></ZeroWindowProbe>
      <RecoverTimeInterval></RecoverTimeInterval>
      <HTTPPassiveProbe></HTTPPassiveProbe>
      <SnatMode></SnatMode>
      <AllServiceDownAction></AllServiceDownAction>
      <ExternalMonitorList>
        <ExternalMonitor></ExternalMonitor>
      </ExternalMonitorList>
    </ServerFarm>
  </ServerFarms>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarms
Table type	Multi-instance table
Row name	ServerFarm
Restrictions	Only server farm can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the server farm.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a real server to serve a client request.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Least time. • 13—Dynamic round-robin. • 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. • 20—Least time member.	N/A
HashIpv4Pr	Length of IPv4	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
efixLength	address mask for hash or CARP algorithm.		Value range: 0 to 32.	
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to128.	N/A
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectServerMaxNumber	Maximum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SlowOnlineEnable	Enable the server farm slow online.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: • 0—Disable. • 1—Enable	N/A
ActivateLower	The status of main server farm will be changed from in use to backup when the ratio of the available real servers in main server farm becomes smaller than this value.	N/A	Unsigned integer. Value range: 1 to 99.	N/A
ActivateUpper	The status of main server farm will be changed from backup to in use when the ratio of the available real servers in		Unsigned integer. Value range: 1 to 99.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	main server farm reaches or over this value.			
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any real server fails in a server farm.	N/A	Enumeration: • 0—Keep. • 1—Reset. • 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that real server is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
TotalRealServer	Total number of real servers in the server farm.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ActiveRealServer	Active number of real servers in the server farm.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the server farm.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
ProximityEnable	Enable the proximity.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
BusyAction	Busy protection policies for	N/A	Enumeration: • 0—Drop(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server nodes		• 1—Enqueue. • 2—Force.	
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
QueueTimeout	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
RSTProbe	RST type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
ZeroWindowProbe	Zero-Window type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
HTTPPassiveProbe	HTTP passive probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each probe type.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None. • 1—Snat-pool. • 2—Auto-map. • 3—Tcp-option.	N/A
AllServiceD	Specify the	N/A	Enumeration: • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ownAction	action taken when all server farm members become unavailable		• 1—Enable.	
ExternalMonitorList	External monitor list for the server farm.	Data structure	Members include: • ExterrnalMonitor.	N/A
ExternalMonitor	External monitor for the server farm.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```
<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </ServerFarmProbe>
  </ServerFarmProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmProbes
Table type	Multi-instance table
Row name	ServerFarmProbe
Restrictions	Only server farm probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the server farm.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/ServerFarmStats

This table contains stat information about server farm.

XML structure

```
<LB>
  <ServerFarmStats>
    <ServerFarmStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
    </ServerFarmStat>
  </ServerFarmStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServerStats
Table type	Multi-instance table
Row name	RealServerStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the server farm received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the server farm received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the server farm received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the server farm sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPac	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
kets	packets that the server farm dropped.		Value range: 0 to 2^{64}-1.	
ServerSideBytesIn	Number of bytes that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ServerSideBytesOut	Number of bytes that the server farm sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the server farm sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/SNATPools

This table contains information about SNAT pool.

XML structure

```
<LB>
  <SNATPools>
    <SNATPool>
      <Name></Name>
      <Description></Description>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
```

```
    </SNATPool>
  </SNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	Only SNAT pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT Pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the SNAT Pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address Start	Start IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4Address End	End IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address Start	Start IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6Address End	End IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.

LB/NewSNATPools

This table contains LB SNAT pool information.

XML structure

```
<LB>
  <NewSNATPools>
    <NewSNATPool>
```

```
      <SNATPoolName></SNATPoolName>
      <Description></Description>
      <SNATType></SNATType>
      <VRF></VRF>
    </NewSNATPool>
  </NewSNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	NewSNATPools
Table type	Multi-instance table
Row name	NewSNATPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPoolName	Name of SNAT pool.	Index	String. Case-insensitive. Length: 1 to 63 characters.	N/A.
Description	SNAT pool description.	N/A	String: Case-sensitive Length: No more than 127 characters	N/A
SNATType	Type of SNAT pool	N/A	Enumeration: • 0—addr-split (default). • 1—port-split • 2—failover group	When a snat-pool is created, the column must be specified. Once created, this column cannot be changed.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.

LB/SNATPoolsIpv4Infos

This table contains information about IPv4 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv4Infos>
    <SNATPoolsIpv4Info>
```

```
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <FailoverGroupName></FailoverGroupName>
      <Channel></Channel>
    </SNATPoolsIpv4Info>
  </SNATPoolsIpv4Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv4Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv4Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4AddressStart	Start IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4AddressEnd	End IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
FailoverGroupName	Name of failover-group	N/A	String. Length: 0 to 63 characters.	N/A
Channel	Channel of the failover group	N/A	Enumeration: • 0—None • 1—Channel 0 • 2—Channel 1	N/A

LB/SNATPoolsIpv6Infos

This table contains information about IPv6 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv6Infos>
```

```
    <SNATPoolsIpv6Info>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <FailoverGroupName></FailoverGroupName>
      <Channel></Channel>
    </SNATPoolsIpv6Info>
  </SNATPoolsIpv6Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv6Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv6Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.
FailoverGroupName	Name of failover-group	N/A	String. Length: 0 to 63 characters.	N/A
Channel	Channel of the failover group	N/A	Enumeration: • 0—None • 1—Channel 0 • 2—Channel 1	N/A

LB/IPParameters

This table contains information about IP parameter profile.

XML structure

```
<LB>
```

```
  <IPParameters>
    <IPParameter>
      <Name></Name>
      <Description></Description>
      <IPToS></IPToS>
    </IPParameter>
  </IPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	IPParameters
Table type	Multi-instance table
Row name	IPParameter
Restrictions	Only IP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
IPToS	ToS number of the IP packet sent to client.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

LB/TCPParameters

This table contains information about TCP parameter profile.

XML structure

```
<LB>
  <TCPParameters>
    <TCPParameter>
      <Name></Name>
      <Description></Description>
```

```
      <ExceedMSS></ExceedMSS>
      <WindowSize></WindowSize>
      <TimeWaitTime></TimeWaitTime>
      <IdleTimeout></IdleTimeout>
      <MSS></MSS>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
      <SrcAddrOptionNum></SrcAddrOptionNum>
      <EncodeType></EncodeType>
    </TCPParameter>
  </TCPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPParameters
Table type	Multi-instance table
Row name	TCPParameter
Restrictions	Only TCP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ExceedMSS	Processing method when segments exceed the maximum segment size of TCP segment.	N/A	Enumeration: • 0—Permit. • 1—Drop.	N/A
WindowSize	Starting value of the receive	N/A	Unsigned integer. Value range: 8192 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	window size.		65535.	
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
KeepAliveInterval	Interval time of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
KeepAliveCount	Number of times of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
SrcAddrOptionNum	The option num for Source ip addresses	N/A	Unsigned integer. Value range: 6 to 254.	N/A
EncodeType	The encode for tcp option.	N/A	Enumeration: • 0—**binary**. • **1**—string.	N/A

LB/TCPAppParameters

This table contains information about TCP Application parameter profile.

XML structure

```
<LB>
  <TCPAppParameters>
    <TCPAppParameter>
      <Name></Name>
      <Description></Description>
      <MatchBufferSize></MatchBufferSize>
      <MatchBufferEnd></MatchBufferEnd>
      <MatchBufferTime></MatchBufferTime>
    </TCPAppParameter>
  </TCPAppParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPAppParameters
Table type	Multi-instance table
Row name	TCPAppParameter
Restrictions	Only TCP application parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchBuffer Size	The max match size of TCP buffer stream.	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
MatchBuffer End	The match end string of TCP	N/A	String. Length: 0 to 10	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	buffer stream.		characters.	
MatchBuffer Time	The match time of TCP buffer stream	N/A	Unsigned integer. Value range: 1 to 5 Unit: second.	N/A

LB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```
<LB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>
      <Description></Description>
      <RebalancePerRequest></RebalancePerRequest>
      <ServerConnectionReuse></ServerConnectionReuse>
      <CaseInsensitive></CaseInsensitive>
      <HeaderModifyPerRequest></HeaderModifyPerRequest>
      <HeaderMaxParseLength></HeaderMaxParseLength>
      <ContentMaxParseLength></ContentMaxParseLength>
      <SecondaryCookieDelimiters></SecondaryCookieDelimiters>
      <SecondaryCookieStart></SecondaryCookieStart>
      <CookieEncryptName></CookieEncryptName>
      <CookieCipherPassword></CookieCipherPassword>
      <CookieSimplePassword></CookieSimplePassword>
      <ExceedLength></ExceedLength>
    </HTTPParameter>
  </HTTPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPParameters
Table type	Multi-instance table
Row name	HTTPParameter
Restrictions	Only HTTP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
CaseInsensitive	Disable case-sensitivity matching for HTTP.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HeaderModifyPerRequest	Enable modify the HTTP header of every HTTP request or response.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SecondaryCookieDelimiters	The delimiters used to separate secondary cookies.	N/A	String. Length: 1 to 4 characters.	Delimiter characters are defined to be one of the following: "!" """" "#" ";" "<" ">" "?" " [" "\" "]" "^" "`" "|" ":" "@" "&" "$" "+" "*" "'" "(" ")" "," "/" can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by &rt;, ' should be

Column name	Column description	Column type	Data type and restrictions	Remarks
				transferred meaning by ', " should be transferred meaning by ".
SecondaryCookieStart	Starting character of secondary cookies.	N/A	String. Length: 1 to 2 characters.	Delimiter characters are defined to be one of the following: "!" "$" "#" ";" "<" ">" "?" " " [" "\" "]" "^" "`"| can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by &rt;, ' should be transferred meaning by ', " should be transferred meaning by ".
CookieEncryptName	Name of the cookie that excepted to be encrypted.	N/A	String.Length: 1 to 63 characters.	CookieEncryptName and CookiePassword are mutually dependent and both of them should be set in a single message.
CookieCipherPassword	Specify an cookie key in encrypted form.	N/A	String. Length: 1 to 73 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
CookieSimplePassword	Specify an cookie key in plaintext form.	N/A	String. Length: 1 to 31 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: • 0—Keep. • 1—Drop.	N/A

LB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<LB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Deflate	
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB. • 32—32KB. • 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB. • 32—32KB.	N/A

LB/HTTPStatisticsParameter

This table contains information about HTTP statistics parameter profile.

XML structure

```
<LB>
  <HTTPStatisticsParameters>
    <HTTPStatisticsParameter>
      <Name></Name>
      <Description></Description>
```

```
    </HTTPStatisticsParameter>
  </HTTPStatisticsParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatisticsParameters
Table type	Multi-instance table
Row name	HTTPStatisticsParameter
Restrictions	Only HTTP statistics parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```
<LB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </OneConnectParameter>
  </OneConnectParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	OneConnectParameters
Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
IPv4Source Mask	IPV4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6Source Prefix	IPV6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

LB/MySQLParameters

This table contains information about a MySQL parameter profile.

XML structure

```
<LB>
  <MySQLParameters>
    <MySQLParameter>
      <Name></Name>
      <Description></Description>
      <PoolSize></PoolSize>
      <ServerConnectionReuse></ServerConnectionReuse>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </MySQLParameter>
  </MySQLParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLParameters
Table type	Multi-instance table
Row name	MySQLParameter
Restrictions	Only MySQL parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
PoolSize	Max cache connection count.	N/A	Unsigned integer. Value range: 1 to 64000. By default, the count is 1024.	N/A
ServerConn	Enable connections to	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ectionReuse	persist and be reused by multiple client connections.		• 0—Disable (default). • 1—Enable.	
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
IPv4Source Mask	IPV4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6Source Prefix	IPV6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

LB/HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```
<LB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>
      <Name></Name>
      <ID></ID>
      <Type></Type>
      <FilterType></FilterType>
      <Expression></Expression>
    </HTTPCompressionParameterRule>
  </HTTPCompressionParameterRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: • 0—URL. • 1—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

LB/ParameterSummaries

This table contains summary information about parameter profile.

XML structure

```
<LB>
  <ParameterSummaries>
    <ParameterSummary>
      <Name></Name>
```

```
      <Type></Type>
      <Description></Description>
    </ParameterSummary>
  </ParameterSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ParameterSummaries
Table type	Multi-instance table
Row name	ParameterSummary
Restrictions	Only parameter profile summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of parameter profile.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—HTTP. • 3—HTTP Compression Parameter. • 4—oneconnect. • 5—HTTP-Statistics. • 6—TCP-Application. • 7—MySQL.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/AddressPortStickyGroups

This table contains information about address-port sticky groups.

XML structure

```
<LB>
  <AddressPortStickyGroups>
    <AddressPortStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Ipv4MethodType></Ipv4MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6MethodType></Ipv6MethodType>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </AddressPortStickyGroup>
  </AddressPortStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	AddressPortStickyGroups
Table type	Multi-instance table
Row name	AddressPortStickyGroup
Restrictions	Only address-port sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	N/A
Ipv4MethodType	IPv4 sticky method of the address-port sticky group.	N/A	Enumeration: • 0—None. • 1—Source IP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			stickiness. • 2—Source IP port stickiness. • 3—Destination IP stickiness. • 4—Destination IP port stickiness. • 5—Source IP and destination IP stickiness. • 6—Source IP port and destination IP port stickiness.	
Ipv4PrefixLength	IPv4 mask for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6MethodType	IPv6 sticky method of the address-port sticky group.	N/A	Enumeration: • 0—None. • 1—Source IPv6 stickiness. • 2—Source IPv6 port stickiness. • 3—Destination IPv6 stickiness. • 4—Destination IPv6 port stickiness. • 5—Source IPv6 and destination IPv6 stickiness. • 6—Source IPv6 port and destination IPv6 port stickiness.	N/A
Ipv6PrefixLength	IPv6 prefix for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/RADIUSStickyGroups

This table contains information about RADIUS sticky groups.

XML structure

```
<LB>
```

```
  <RADIUSStickyGroups>
    <RADIUSStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </RADIUSStickyGroup>
  </RADIUSStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSStickyGroups
Table type	Multi-instance table
Row name	RADIUSStickyGroup
Restrictions	Only RADIUS sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
AttributeCode	code of attribute	N/A	Unsigned integer. Value range: 1 to 255.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Disable. • 1—Enable.	

LB/PayloadStickyGroups

This table contains information about payload sticky groups.

XML structure

```
<LB>
  <PayloadStickyGroups>
    <PayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </PayloadStickyGroup>
  </PayloadStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	PayloadStickyGroups
Table type	Multi-instance table
Row name	PayloadStickyGroup
Restrictions	Only HTTP payload sticky groups can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the payload sticky group.	N/A	Enumeration: • 0—None. • 1—Payload stickiness.	N/A
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/HTTPContentStickyGroups

This table contains information about HTTP content sticky groups.

XML structure

```
<LB>
  <HTTPContentStickyGroups>
    <HTTPContentStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
```

```
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPContentStickyGroup>
  </HTTPContentStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPContentStickyGroups
Table type	Multi-instance table
Row name	HTTPContentStickyGroup
Restrictions	Only HTTP content sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the HTTP content sticky group.	N/A	Enumeration: • 0—None. • 1—Content stickiness.	N/A
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	N/A
Offset	Offset to the first byte of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
End	Ending pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/HTTPCookieStickyGroups

This table contains information about HTTP cookie sticky groups.

XML structure

```
<LB>
  <HTTPCookieStickyGroups>
    <HTTPCookieStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CookieSecondary></CookieSecondary>
      <CheckAll></CheckAll>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
      <HttpOnly></HttpOnly>
      <Secure></Secure>
      <CookieDomain></CookieDomain>
      <CookiePath></CookiePath>
    </HTTPCookieStickyGroup>
  </HTTPCookieStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCookieStickyGroups
Table type	Multi-instance table
Row name	HTTPCookieStickyGroup
Restrictions	Only HTTP cookie sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second	N/A
Type	Sticky method of the HTTP cookie sticky group.	N/A	Enumeration: • 0—None. • 1—Cookie insert stickiness. • 2—Cookie rewrite stickiness • 3—Cookie get stickiness	N/A
CookieName	Name of the cookie.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP cookie	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP cookie stickiness	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
CookieSecondary	Name of the secondary cookie.	N/A	String. Length: 0 to 63 characters.	N/A
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HTTPOnly	HTTP cookie attribute for HTTP only	N/A	Enumeration: • 0—Disable. • 1—Enable.	Only can be configured for the insert or rewrite type.
Secure	HTTP cookie attribute for secure	N/A	Enumeration: • 0—Disable. • 1—Enable.	Only can be configured for the insert or rewrite type.
CookieDomain	HTTP cookie attribute for domain	N/A	String.Length: 0 to 255 characters	Only can be configured for the insert type. CookieName cannot be empty.
CookiePath	HTTP cookie attribute for path	N/A	String. Length: 1 to 255 characters	Only can be configured for the insert type. CookieName cannot be empty.

LB/HTTPHeaderStickyGroups

This table contains information about HTTP header sticky groups.

XML structure

```
<LB>
  <HTTPHeaderStickyGroups>
    <HTTPHeaderStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
```

```
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPHeaderStickyGroup>
  </HTTPHeaderStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPHeaderStickyGroups
Table type	Multi-instance table
Row name	HTTPHeaderStickyGroup
Restrictions	Only HTTP header sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	N/A
Type	Sticky method of the HTTP header sticky group.	N/A	Enumeration: • 0—None. • 1—URL stickiness. • 2—Host stickiness • 3—Method stickiness • 4—Version stickiness • 5—Name stickiness	N/A
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Offset	Offset to the first byte of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/SSLStickyGroups

This table contains information about SSL sticky groups.

XML structure

```
<LB>
  <SSLStickyGroups>
    <SSLStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </SSLStickyGroup>
  </SSLStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	SSLStickyGroups
Table type	Multi-instance table
Row name	SSLStickyGroup
Restrictions	Only SSL sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	N/A
Type	Sticky method of the SSL sticky group.	N/A	Enumeration: • 0—None. • 1—SSL Session-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/SIPStickyGroups

This table contains information about SIP sticky groups.

XML structure

```
<LB>
  <SIPStickyGroups>
    <SIPStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
```

```
      <Type></Type>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </SIPStickyGroup>
  </SIPStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SIPStickyGroups
Table type	Multi-instance table
Row name	SIPStickyGroup
Restrictions	Only SIP sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. unit: second	N/A
Type	Sticky method of the SIP sticky group.	N/A	Enumeration: • 0—None. • 1—SIP Call-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/StickyGroupSummaries

This table contains summary information about sticky group.

XML structure

```
<LB>
  <StickyGroupSummaries>
    <StickyGroupSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
    </StickyGroupSummary>
  </StickyGroupSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	StickyGroupSummaries
Table type	Multi-instance table
Row name	StickyGroupSummary
Restrictions	Only sticky group summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Stickiness method of sticky group.	N/A	Enumeration: • 1—Address-Port. • 2—Payload. • 3—HTTP-Content • 4—HTTP-Cookie • 5—HTTP-Header • 6—SSL • 7—Radius • 8—SIP	N/A
Description	Description information for the sticky	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.			

LB/HTTPPassiveStickyGroups

This table contains information about HTTP passive sticky groups.

XML structure

```
<LB>
  <HTTPPassiveStickyGroups>
    <HTTPPassiveStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPPassiveCheckAll></HTTPPassiveCheckAll>
    </HTTPPassiveStickyGroup>
  </HTTPPassiveStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveStickyGroups
Table type	Multi-instance table
Row name	HTTPPassiveStickyGroup
Restrictions	Only HTTP passive sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.			
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HTTPPassiveCheckAll	Enable the check option for an HTTP passive type persistence group.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/HTTPPassiveStickyMethodGroups

This table contains information about HTTP passive sticky group methods.

XML structure

```
<LB>
  <HTTPPassiveStickyMethodGroups>
    <HTTPPassiveStickyMethodGroup>
      <Name></Name>
      <PktActionType></PktActionType>
      <ID></ID>
      <MethodType></MethodType>
      <HeaderType></HeaderType>
      <HeaderName></HeaderName>
      <Length></Length>
      <Start></Start>
      <End></End>
    </HTTPPassiveStickyMethodGroup>
  </HTTPPassiveStickyMethodGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveStickyMethodGroups
Table type	Multi-instance table
Row name	HTTPPassiveStickyMethodGroups
Restrictions	Only HTTP passive sticky group methods information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky method group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PktActionType	Action type of packet direction.	Index	Enumeration: • 0—None. • 1—Get. • 2—Match.	N/A
ID	ID of method.	Index	Unsigned integer. Value range:0 to 3.	N/A
MethodType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None. • 1—Header method. • 2—Content method.	N/A
HeaderType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None. • 1—URL stickiness. • 2—Name stickiness.	N/A
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Length	Length of the HTTP header or content value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	passive stickiness.			

LB/UDPPassiveStickyGroups

This table contains information about UDP passive sticky groups.

XML structure

```
<LB>
  <UDPPassiveStickyGroups>
    <UDPPassiveStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Get></Get>
      <GetOffset></GetOffset>
      <GetLength></GetLength>
      <GetStart></GetStart>
      <GetEnd></GetEnd>
      <Match></Match>
      <MatchOffset></MatchOffset>
      <MatchLength></MatchLength>
      <MatchStart></MatchStart>
      <MatchEnd></MatchEnd>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </UDPPassiveStickyGroup>
  </UDPPassiveStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	UDPPassiveStickyGroups
Table type	Multi-instance table
Row name	UDPPassiveStickyGroup
Restrictions	Only UDP passive sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to31536000. Unit: second.	N/A
Get	Action type of packet direction.	N/A	Enumeration: • 0—None. • 1—Get.	N/A
GetOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
GetLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
GetStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
GetEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Match	Action type of packet direction.	N/A	Enumeration: • 0—None. • 1—Match.	N/A
MatchOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
MatchLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
MatchStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that	N/A	Enumeration: • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	match sticky entries.		• 1—Enable.	
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/TCPPayloadStickyGroups

This table contains information about TCP payload sticky groups.

XML structure

```
<LB>
  <TCPPayloadStickyGroups>
    <TCPPayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
      <PriorBusyEnable></PriorBusyEnable>
    </TCPPayloadStickyGroup>
  </TCPPayloadStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPPayloadStickyGroups
Table type	Multi-instance table
Row name	TCPPayloadStickyGroup
Restrictions	Only TCP payload sticky groups can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the TCP payload sticky group.	N/A	Enumeration: • 0—None. • 1—TCP Payload stickiness.	N/A
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the TCP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the TCP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/Policies

This table contains information about policies.

XML structure

<LB>

```
  <Policies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <DefaultClassAction></DefaultClassAction>
    </Policy>
  </Policies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	Only policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the policy.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type for the policy.	N/A	Enumeration: • 0—Generic. • 1—HTTP. • 2—Link-generic. • 3—DNS. • 4—RADIUS. • 5—MySQL.	N/A
Description	Description of the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
DefaultClassAction	Action for the default class of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/ClassActions

This table contains information about policy rules.

XML structure

```
<LB>
  <ClassActions>
    <ClassAction>
      <Policy></Policy>
      <Class></Class>
      <Action></Action>
      <BeforeClass></BeforeClass>
    </ClassAction>
  </ClassActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClassActions
Table type	Multi-instance table
Row name	ClassAction
Restrictions	Only policy rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Action	Name of the action for the class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BeforeClass	Name of the class that the row will be inserted before.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/GenericActions

This table contains information about IP, TCP and UDP action.

XML structure

```
<LB>
  <GenericActions>
    <GenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <ServerFarmInUse></ServerFarmInUse>
      <Fallback></Fallback>
      <TCPDropType></TCPDropType>
    </GenericAction>
  </GenericActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericActions
Table type	Multi-instance table
Row name	GenericAction
Restrictions	Only IP, TCP and UDP action can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—Server farm.	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupServerFarm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmInUse	Name of the in use sever farm for the action.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None. • 1—Match next class. • 3—Fin close. • 4—Rst close.	N/A
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A

LB/RADIUSActions

This table contains information about RADIUS action.

XML structure

```
<LB>
  <RADIUSActions>
    <RADIUSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <IPToS></IPToS>
      <ServerFarmInUse></ServerFarmInUse>
      <Fallback></Fallback>
    </RADIUSAction>
  </RADIUSActions>
```

```
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSActions
Table type	Multi-instance table
Row name	RADIUSAction
Restrictions	Only RADIUS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—Server farm.	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupSticky Group	Name of the backup sticky group for the action	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmIn Use	Name of the in use sever farm for the action.	N/A	Enumeration: • 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None. • 1—Match next class.	N/A

LB/LinkGenericActions

This table contains information about Link-generic action.

XML structure

```
<LB>
  <LinkGenericActions>
    <LinkGenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <LinkGroup></LinkGroup >
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <LinkGroupInUse></LinkGroupInUse>
      <Fallback></Fallback>
      <BusyFallback></BusyFallback>
    </LinkGenericAction>
  </LinkGenericActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericActions
Table type	Multi-instance table
Row name	LinkGenericAction
Restrictions	Only Link-generic action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—Server farm.	N/A
LinkGroup	Name of the link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes link group (3).
BackupLinkGroup	Name of the backup link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
LinkGroupInUse	Name of the in use link group for the action.	N/A	Enumeration: • 0—Default link group. • 1—Backup link group. • 2—No link group.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None. • 1—Match next class.	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: • 0—None. • 1—Match next class.	N/A

LB/DNSActions

This table contains information about DNS action.

XML structure

```
<LB>
  <DNSActions>
    <DNSAction>
```

```
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <DNSServerPool></DNSServerPool>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <StickyGroup></StickyGroup>
      <BusyFallback></BusyFallback>
    </DNSAction>
  </DNSActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSActions
Table type	Multi-instance table
Row name	DNSAction
Restrictions	Only DNS action can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop. • 2—Forward all. • 3—DNS server pool. • 4—Skip current DNS proxy.	N/A
DNSServerPool	Name of the DNS server pool for the action.	N/A	String, case-insensitive. Length: 1 to 63 characters.	When the column is configured, ForwardType becomes DNS server pool (3).
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when DNS server select failed.	N/A	Enumeration: • 0—None. • 1—Match next class.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: • 0—None. • 1—Match next class.	N/A

LB/HTTPActions

This table contains information about action of HTTP type.

XML structure

```
<LB>
  <HTTPActions>
    <HTTPAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <BackupStickyGroup></BackupStickyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <IPToS></IPToS>
      <ServerFarmInUse></ServerFarmInUse>
      <Fallback></Fallback>
      <RewriteValue></RewriteValue>
      <ReplaceValue></ReplaceValue>
      <Redirect></Redirect>
      <ReturnCode></ReturnCode>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <TCPDropType></TCPDropType>
    </HTTPAction>
  </HTTPActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActions
Table type	Multi-instance table
Row name	HTTPAction
Restrictions	Only action of HTTP type can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: • 1—Drop. • 3—Server farm. • 8—Redirect • 9—Response	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupSticky Group	Name of the backup sticky group for the action	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
SSLClientPoli cy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
IPToS	ToS number of IP packet for the action sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmIn	Name of the in	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Use	use sever farm for the action.		• 0—Default sever farm. • 1—Backup server farm. • 2—No server farm.	
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 0—None. • 1—Match next class. • 2—Response. • 3—Fin close. • 4—Rst close.	N/A
RewriteValue	Content value need to be replaced in response.	N/A	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message. %pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.
Redirect	Redirection URL.	N/A	String. Length: 0 to 255 characters.	A null string indicates the label is not configured.
ReturnCode	Status code in the returned redirection packets.	N/A	Enumeration: • 301—The requested resource has been permanently deleted. • 302—The requested resource has been temporarily deleted. • 307—The requested resource has been provisory deleted.	N/A
ZipFileWorkpath	Work path of zip file for the response	N/A	String. Length: 1 to 255 characters.	If the column is not ‘/’, it must start with /, and cannot end with /. The null string indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
				the label is not configured.
ResponseZipFile	Full path and name of the zip file for the response. Example: • flash:/lb/1.html • chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when ZipFileWorkpath is not configured.
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: • flash:/lb/1.html • chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A

LB/HTTPActionResponseFiles

This table contains information about HTTP action response file.

XML structure

```
<LB>
  <HTTPActionResponseFiles>
    <HTTPActionResponseFile>
      <Action></Action>
      <URL></URL>
      <FileName></FileName>
    </HTTPActionResponseFile>
  </HTTPActionResponseFiles>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionResponseFiles
Table type	Multi-instance table
Row name	HTTPActionResponseFile
Restrictions	Only HTTP action response file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
URL	URL of file for the action response.	Index	String. Length: 1 to 255 characters.	The column must start with /. When the column is configured, ForwardType becomes Resposne (9).
FileName	Full path and name of the file for the action response. Example: • flash:/lb/1.html • chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column must start witch device name.

LB/HTTPActionRewriteURLs

This table contains information about HTTP action rewrite URL.

XML structure

```
<LB>
  <HTTPActionRewriteURLs>
    <HTTPActionRewriteURL>
      <ActionName></ActionName>
      <LocationURL></LocationURL>
      <Replace></Replace>
```

```
    <Encode></Encode>
  </HTTPActionRewriteURL>
</HTTPActionRewriteURLs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionRewriteURLs
Table type	Multi-instance table
Row name	HTTPActionURL
Restrictions	Only HTTP action rewrite URL can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionName	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP request line.	Index	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. • 2—Base64	

LB/HTTPActionSSLURLs

This table contains information about HTTP action SSLURL.

XML structure

```
<LB>
  <HTTPActionSSLURLs>
    <HTTPActionSSLURL>
```

```
      <Name></Name>
      <LocationURL></LocationURL>
      <ClearPort></ClearPort>
      <SSLPort></SSLPort>
    </HTTPActionSSLURL>
  </HTTPActionSSLURLs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionSSLURLs
Table type	Multi-instance table
Row name	HTTPActionSSLURL
Restrictions	Only HTTP action SSL URL can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 0 to 63 characters.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

LB/HTTPActionHeaders

This table contains information about HTTP action header.

XML structure

```
<LB>
  <HTTPActionHeaders>
    <HTTPActionHeader>
      <Action></Action>
      <Type></Type>
```

```
      <Direction></Direction>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <HeaderExpress></HeaderExpress>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionHeader>
  </HTTPActionHeaders>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionHeaders
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action header can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: • 0—Header Delete. • 1—Header Insert. • 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: • 0—Request and Response. • 1—Request. • 2—Response.	N/A
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	The null string indicates the label is not configured.
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Replace	Replaced	N/A	String.	The null string indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
	string that method of Header Rewrite process.		Length: 0 to 127 characters.	the label is not configured.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. • 2—Base64	Encode

LB/ActionSummaries

This table contains information about action summary.

XML structure

```
<LB>
  <ActionSummaries>
    <ActionSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
    </ActionSummary>
  </ActionSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ActionSummaries
Table type	Multi-instance table
Row name	ActionSummary
Restrictions	Only action summary can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the action.	N/A	Enumeration: • 0—Generic.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—HTTP.	
Description	Description of the action.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/Classes

This table contains information about classes.

XML structure

```
<LB>
  <Classes>
    <Class>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <MatchCondition></MatchCondition>
    </Class>
  </Classes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	Only class can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the class.	N/A	Enumeration: • 0—Generic. • 1—HTTP. • 2—Link-generic. • 3—DNS. • 4—RADIUS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—MySQL.	
Description	Description of the class.	N/A	String. Length: 0 to 127 characters.	N/A
MatchCondition	The rule matched class.	N/A	Enumeration: • 0—Match any. • 1—Match all.	N/A

LB/GenericMatchRules

This table contains information about generic match rule.

XML structure

```
<LB>
  <GenericMatchRules>
    <GenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <ISP></ISP>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
      <PayloadExpression></PayloadExpression>
      <CaseInsensitive></CaseInsensitive>
      <Not></Not>
    </GenericMatchRule>
  </GenericMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericMatchRules

Table type	Multi-instance table
Row name	GenericMatchRule
Restrictions	Only generic match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—ISP. • 6—User. • 7—User group. • 8—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
PayloadExpression	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	This column can be configured only when the type is payload (9).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case sensitive (default) • 1—Case insensitive	This column can be configured only when the type is payload(9).
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	This column can be configured only when the type is payload(9).

LB/LinkGenericMatchRules

This table contains information about link generic match rule.

XML structure

```
<LB>
  <LinkGenericMatchRules>
    <LinkGenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <ISP></ISP>
      <AppGroup></AppGroup>
```

```
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <DstDomain></DstDomain>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
    </LinkGenericMatchRule>
  </LinkGenericMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericMatchRules
Table type	Multi-instance table
Row name	LinkGenericMatchRule
Restrictions	Only link generic match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—ISP. • 6—Application group. • 7—Destination IPv4. • 8—Destination IPv6. • 9—Destination domain. • 10—User. • 11—User group.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 12—Interface.	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
AppGroup	Name of the application group.	N/A	String. Length: 1 to 63 characters.	The null string indicates the label is not configured.
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
DstIpv4PrefixLength	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
DstIpv6PrefixLength	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
DstDomain	Match rule of destination domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.			
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

LB/DNSMatchRules

This table contains information about DNS match rule.

XML structure

```
<LB>
  <DNSMatchRules>
    <DNSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <Domain></Domain>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
    </DNSMatchRule>
  </DNSMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSMatchRules
Table type	Multi-instance table

Row name	DNSMatchRule
Restrictions	Only DNS match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Destination IPv4. • 3—Destination IPv6. • 4—Class. • 5—IPv4 ACL. • 6—IPv6 ACL. • 7—Domain name. • 8—User. • 9—User group. • 10—Interface.	N/A
SrcIpv4Address	Match rule of source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
DstIpv4PrefixLength	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
DstIpv6PrefixLength	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	referenced class.		Length: 1 to 63 characters.	
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Domain	Domain for the DNS match rule	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

LB/HTTPMatchRules

This table contains information about HTTP match rule.

XML structure

```
<LB>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <CookieName></CookieName>
      <CookieValue></CookieValue>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <Method></Method>
```

```
      <ExtType></ExtType>
      <URL></URL>
      <ContentOffset></ContentOffset>
      <ContentExpression></ContentExpression>
      <AclNum></AclNum>
      <AclName></AclName>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
      <Version></Version>
    </HTTPMatchRule>
  </HTTPMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule
Restrictions	Only HTTP match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—Cookie. • 4—HTTP Header. • 5—Method. • 6—URL. • 7—Content. • 8—IPv4 ACL. • 9—IPv6 ACL.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 11—User. • 12—User group. • 13—Interface. • 14—version.	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	The null string indicates the label is not configured.
CookieValue	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderValue	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • 0—Nonuser-defined. • 1—User-defined.	N/A
URL	Regular expression matched the URL.	N/A	String. Length: 0 to 255 characters.	N/A
ContentOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
ContentExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
AclNum	ACL number.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 2000 to 3999.	
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
Version	The version of HTTP.	N/A	Enumeration: • 0—1.0. • 1—1.1	N/A

LB/RADIUSMatchRules

This table contains information about RADIUS match rule.

XML structure

```
<LB>
  <RADIUSMatchRules>
    <RADIUSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <AttributeType></AttributeType>
      <AttributeExpression></AttributeExpression>
    </RADIUSMatchRule>
  </RADIUSMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSMatchRules
Table type	Multi-instance table
Row name	RADIUSMatchRule
Restrictions	Only RADIUS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—RADIUS.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	N/A
AttributeExpression	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	N/A

LB/MySQLMatchRules

This table contains information about MySQL match rules.

XML structure

```
<LB>
  <MySQLMatchRules>
    <MySQLMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <SqlExpression></SqlExpression>
      <CaseInsensitive></CaseInsensitive>
      <Not></Not>
    </MySQLMatchRule>
  </MySQLMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLMatchRules
Table type	Multi-instance table

Row name	MySQLMatchRule
Restrictions	Only MySQL match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—IPv4 ACL. • 4—IPv6 ACL. • 5—SQL.	N/A
SrcIpv4Address	Source IPv4 address to match.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Source IPv6 address to match.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configuredonly when the type is Class (2).
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutually exclusive and only one of them can be set in a single message. This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
SqlExpression	Regular expression used to match the SQL content.	N/A	String. Length: 1 to 255 characters	This column can be configured only when the type is sql(5).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case sensitive (default) • 1—Case insensitive	This column can be configured only when the type is sql(5).
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	This column can be configured only when the type is sql(5).

LB/ISPs

This table contains information about ISP.

XML structure

```
<LB>
  <ISPs>
    <ISP>
      <Name></Name>
      <Description></Description>
      <Origin></Origin>
    </ISP>
  </ISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Origin	Origin of the ISP.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Import and manual.	N/A

LB/ISPFile

This table contains information about ISP file.

XML structure

```
<LB>
  <ISPFile>
    <FileName></FileName>
  </ISPFile>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ISP file.		case-insensitive. Length: 1 to 255 characters.	

LB/FlowMode

This table contains information about flow mode.

XML structure

```
<LB>
  <FlowMode>
    <ModeType></ModeType>
  </FlowMode>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	FlowMode
Table type	Single-instance table
Row name	N/A
Restrictions	Only flow mode can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Type of flow mode.	N/A	Enumeration: • 0—Disable. • 1—One failover-group. • 2—Share failover-group	N/A

LB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv4ISPAddressGroup
Restrictions	Only IPv4 ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String, Dotted decimal notation.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length	Index	Unsigned integer. Value range: 1to 32.	N/A
Origin	Origin of IPv4 address.	N/A	Each bit represents a origin. Values: • 1—Import. • 2—Manual. • 4—Update.	N/A

LB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```
<LB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Origin></Origin>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only IPv6 ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length	Index	Unsigned integer. Value range: 1 to 128.	N/A
Origin	Origin of IPv6 address.	N/A	Each bit represents a origin. Values: • 1—Import.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Manual. • • 4—Update.	

LB/ProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
  <ProximityParameters>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbeMode></DefaultProbeMode>
    <DefaultProbe></DefaultProbe>
    <PacketLossRateWeight></PacketLossRateWeight>
  </ProximityParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProximityParameters
Table type	Single-instance table
Row name	N/A
Restrictions	Only proximity parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means nature mask.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: • 0—NQA. • 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
PacketLossRateWeight	The weight of packet loss rate.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

LB/VRFProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
  <VRFProximityParameters>
    <VRFProximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
```

```
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
      <MaxNumber></MaxNumber>
      <DefaultProbeMode></DefaultProbeMode>
      <DefaultProbe></DefaultProbe>
      <PacketLossRateWeight></PacketLossRateWeight>
    </VRFProximityParameter>
  </VRFProximityParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityParameters
Table type	Multi-instance table
Row name	VRFProximityParameter
Restrictions	Only proximity parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: • 0—NQA. • 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
PacketLossRateWeight	The weight of packet loss rate.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

LB/ProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```
<LB>
  <ProximityProbeRules>
    <ProximityProbeRule>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </ProximityProbeRule>
  </ProximityProbeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProximityProbeRules
Table type	Multi-instance table
Row name	ProximityProbeRule
Restrictions	Only proximity probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: • 0—NQA. • 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/VRFProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```
<LB>
  <VRFProximityProbeRules>
    <VRFProximityProbeRule>
      <VRF></VRF>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </VRFProximityProbeRule>
  </VRFProximityProbeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityProbeRules
Table type	Multi-instance table
Row name	VRFProximityProbeRule
Restrictions	Only proximity probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: • 0—NQA. • 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Ipv4ProximityTables

This table contains information about ipv4 proximity item.

XML structure

```
<LB>
  <Ipv4ProximityTables>
    <Ipv4ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Lifetime></Lifetime>
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
    </Ipv4ProximityTable>
  </Ipv4ProximityTables>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ProximityTables
Table type	Multi-instance table
Row name	Ipv4ProximityTable
Restrictions	Only IPv4 proximity items can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Lifetime	Lifetime of proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkType	Type of the best link.	N/A	Enumeration: • 0—None. • 1—Real server. • 2—Link.	N/A
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/Ipv6ProximityTables

This table contains information about ipv6 proximity item.

XML structure

```
<LB>
  <Ipv6ProximityTables>
    <Ipv6ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Lifetime></Lifetime>
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
    </Ipv6ProximityTable>
  </Ipv6ProximityTables>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ProximityTables
Table type	Multi-instance table
Row name	Ipv6ProximityTable
Restrictions	Only IPv6 proximity items can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A
Lifetime	Lifetime of proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkType	Type of the best link.	N/A	Enumeration: • 0—None. • 1—Real server. • 2—Link.	N/A
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/Ipv4ProximityPageTables

This table contains information about IPv4 proximity entries.

XML structure

```
<LB>
  <Ipv4ProximityPageTables>
    <Ipv4ProximityPageTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Lifetime></Lifetime>
```

```
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
      <TotalCount></TotalCount>
      <RTT></RTT>
    </Ipv4ProximityPageTable>
  </Ipv4ProximityPageTables>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ProximityPageTables
Table type	Multi-instance table
Row name	Ipv4ProximityPageTable
Restrictions	Only IPv4 proximity items can be gotten by this table, Only support get-bulk.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Lifetime	Lifetime of proximity entries.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkTyp	Type of the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
e	best link.		• 0—None. • 1—Real server. • 2—Link.	
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TotalCount	Total number of LB proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 65535. Unit: millisecond	N/A

LB/Ipv6ProximityPageTables

This table contains information about IPv6 proximity entries.

XML structure

```
<LB>
  <Ipv6ProximityPageTables>
    <Ipv6ProximityPageTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Lifetime></Lifetime>
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
      <TotalCount></TotalCount>
      <RTT></RTT>
    </Ipv6ProximityPageTable>
  </Ipv6ProximityPageTables>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ProximityPageTables
Table type	Multi-instance table
Row name	Ipv6ProximityPageTable
Restrictions	Only IPv6 proximity items can be gotten by this table, Only support get-bulk.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A
Lifetime	Lifetime of proximity entries.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkType	Type of the best link.	N/A	Enumeration: • 0—None. • 1—Real server. • 2—Link.	N/A
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TotalCount	Total number of LB proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 65535. Unit: millisecond	N/A

LB/Ipv4ProximityNodes

This table contains information about the real servers of ipv4 proximity item.

XML structure

```
<LB>
  <Ipv4ProximityNodes>
    <Ipv4ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Priority></Priority>
      <LinkType></LinkType>
      <RealServer></RealServer>
      <Link></Link>
      <RTT></RTT>
      <TTL></TTL>
      <DynamicWeight></DynamicWeight>
    </Ipv4ProximityNode>
  </Ipv4ProximityNodes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ProximityNodes

Table type	Multi-instance table
Row name	Ipv4ProximityNode
Restrictions	Only IPv4 proximity node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Priority	Priority.	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
LinkType	Type of the link.	N/A	Enumeration: • 1—Real server. • 2—Link.	N/A
RealServer	Real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 65535. Unit: millisecond	N/A
TTL	Time to live of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 256.	N/A
DynamicWeight	Dynamic weight of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	link		Value range: 0 to 65535.	

LB/Ipv6ProximityNodes

This table contains information about the real servers of ipv6 proximity item.

XML structure

```
<LB>
  <Ipv6ProximityNodes>
    <Ipv6ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Priority></Priority>
      <LinkType></LinkType>
      <RealServer></RealServer>
      <Link></Link>
      <RTT></RTT>
      <TTL></TTL>
      <DynamicWeight></DynamicWeight>
    </Ipv6ProximityNode>
  </Ipv6ProximityNodes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ProximityNodes
Table type	Multi-instance table
Row name	Ipv6ProximityNode
Restrictions	Only IPv6 proximity node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A
Priority	Priority.	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
LinkType	Type of the link.	N/A	Enumeration: • 1—Real server. • 2—Link.	N/A
RealServer	Real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 65535. Unit: millisecond	N/A
TTL	Time to live of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 256.	N/A
DynamicWeight	Dynamic weight of the link	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

LB/Specifications

This table contains information about the LB function specification.

XML structure

```
<LB>
  <Specifications>
    <SupportHotbackup></SupportHotbackup>
    <SupportSLB></SupportSLB>
    <SupportLBControllerType></SupportLBControllerType>
    <SupportCachePolicy></SupportCachePolicy>
    <SupportDPI></SupportDPI>
    <SupportFastHTTP></SupportFastHTTP>
    <SupportPLR></SupportPLR>
  </Specifications>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Specifications
Table type	Single-instance table
Row name	N/A
Restrictions	Only LB function specification can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportHotbackup	Hot backup function is supported or not.	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportSLB	SLB function is supported or not	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportLBControllerType	Controller function is supported or not	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportCachePolicy	Cache policy function is supported or not	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportDPI	DPI function is supported or	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	not		• true—Supported. • false—Not supported.	
SupportFast HTTP	FastHTTP function is supported or not	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportPLR	Packet loss rate function is supported or not	N/A	Boolean: • true—Supported. false—Not supported.	N/A

LB/ALG

This table contains information about ALG.

XML structure

```
<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PptpEnable></PptpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table

Row name	N/A
Restrictions	Only ALG can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SqlnetEnable	Enable the SQLNET	N/A	Enumeration: • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol service.		• 1—Enable.	
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/ProximityStats

This table contains information about proximity entries.

XML structure

```
<LB>
  <ProximityStats>
    <ProximityStat>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <TotalCount></TotalCount>
      <Ipv4Count></Ipv4Count>
      <Ipv6Count></Ipv6Count>
    </ProximityStat>
  </ProximityStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProximityStats
Table type	Multi-instance table
Row name	ProximityStat
Restrictions	Only proximity can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
TotalCount	The number of total proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv4Count	The number of IPv4 proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv6Count	The number of IPv6 proximity entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

LB/LimitPolicies

This table contains information about limit policies.

XML structure

```
<LB>
  <LimitPolicies>
    <LimitPolicy>
      <Name></Name>
      <Description></Description>
    </LimitPolicy>
  </LimitPolicies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitPolicies

Table type	Multi-instance table
Row name	LimitPolicy
Restrictions	Only limit policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/LimitRules

This table contains information about limit policy rules.

XML structure

```
<LB>
  <LimitRules>
    <LimitRule>
      <Name></Name>
      <ID></ID>
      <AclVersion></AclVersion>
      <AclNum></AclNum>
      <AclName></AclName>
      <PerDestination></PerDestination>
      <PerSource></PerSource>
      <PerService></PerService>
      <ThresholdHigh></ThresholdHigh>
      <ThresholdLow></ThresholdLow>
    </LimitRule>
  </LimitRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitRules
Table type	Multi-instance table

Row name	LimitRule
Restrictions	Only limit policy rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the limit policy rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AclVersion	Version of ACL	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.
PerDestination	Enable the per-destination connection limit.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PerSource	Enable the per-source connection limit.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PerService	Enable the per-service connection limit.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	ThresholdHigh must be greater or equal than ThresholdLow.
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	ThresholdHigh must be greater or equal than ThresholdLow.

LB/Links

This table contains information about link.

XML structure

```
<LB>
```

```
  <Links>
    <Link>
      <Name></Name>
      <Description></Description>
      <RouterType></RouterType>
      <RouterInterface></RouterInterface>
      <RouterIpv4Address></RouterIpv4Address>
      <RouterIpv6Address></RouterIpv6Address>
      <Weight></Weight>
      <Priority></Priority>
      <Cost></Cost>
      <LinkGroup></LinkGroup>
      <Shutdown></Shutdown>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <InRateLimitBandwidth></InRateLimitBandwidth>
      <OutRateLimitBandwidth></OutRateLimitBandwidth>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
      <State></State>
    </Link>
  </Links>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Links
Table type	Multi-instance table
Row name	Link
Restrictions	Only link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RouterType	The type of router.	N/A	Enumeration: • 0—Configure. • 1—Auto.	N/A
RouterInterface	Name of the router interface.	N/A	String. Case insensitive. Length: 1 to 47 characters.	N/A
RouterIpv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either.
RouterIpv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the link.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240.	N/A
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Shutdown	Shutdown state for the link.	N/A	Enumeration: • 0—Not configured. • 1—Shutdown. • 2—Slow-shutdown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 232-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 232-1.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
InRateLimitBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
OutRateLimitBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
BandwidthBusyRecoverRatio	Total bound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
State	State of the link.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
InheritVPN	Inherit the VPN.	N/A	Enumeration: • 0—Disable inherit the VPN	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Enable inherit the VPN.	

LB/LinkProbes

This table contains information about link probe that only uses NQA template.

XML structure

```
<LB>
  <LinkProbes>
    <LinkProbe>
      <Link></Link>
      <Probe></Probe>
      <State></State>
    </LinkProbe>
  </LinkProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkProbes
Table type	Multi-instance table
Row name	LinkProbe
Restrictions	Only Link probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the link.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	State of the real server probe.	N/A	Enumeration: • 0—Not exist. • 1—Success.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Failed. • 3—In the process.	

LB/LinkStats

This table contains stat information about link.

XML structure

```
<LB>
  <LinkStats>
    <LinkStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <DownstreamPKTs></DownstreamPKTs>
      <UpstreamPKTs></UpstreamPKTs>
      <DroppedPackets></DroppedPackets>
      <DownstreamTraffic></DownstreamTraffic>
      <UpstreamTraffic></UpstreamTraffic>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <PacketLossRate></PacketLossRate>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <DownstreamPKTsPerSec></DownstreamPKTsPerSec>
      <UpstreamPKTsPerSec></UpstreamPKTsPerSec>
    </LinkStat>
  </LinkStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkStats
Table type	Multi-instance table
Row name	LinkStat
Restrictions	Only stats of link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the link received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the link received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the link received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the link received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the link received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
Downstream	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PKTs	packets that the link received from device.		Value range: 0 to 2^{64}-1.	
UpstreamPKTs	Number of packets that the link sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the link dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Downstream Traffic	Number of bytes that the link received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
UpstreamTraffic	Number of bytes that the link sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InBandwidth	Inbound Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
PacketLoss Rate	Packet loss rate of the link.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
MaxConnect	Time when the	N/A	DateTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ionsTime	link received the maximum number of connections.		Format: YYYY-MM-DDTHH:MM:SS.	
MaxConnectionPerSeTime	Time when the link received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the link.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the link.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the link.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
DownstreamPKTsPerSec	Number of packets per second that the link received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
UpstreamPKTsPerSec	Number of packets per second that the link sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A

LB/LinkOutInterfaces

This table contains out-interface rate stat information about link.

XML structure

```
<LB>
  <LinkOutInterfaces>
    <LinkOutInterface>
      <Name></Name>
      <InputRate></InputRate>
      <OutputRate></OutputRate>
    </LinkOutInterface>
  </LinkOutInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkOutInterfaces
Table type	Multi-instance table
Row name	LinkOutInterface
Restrictions	Only out-interface rate stats of link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
InputRate	Input rate of the link out interface.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Bytes/s.	N/A
OutputRate	Output rate of the link out interface.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Bytes/s.	N/A

LB/LinkGroups

This table contains information about link group.

XML structure

```
<LB>
  <LinkGroups>
    <LinkGroup>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectLinkMinNumber></SelectLinkMinNumber>
      <SelectLinkMaxNumber></SelectLinkMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
```

```
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalLink></TotalLink>
      <ActiveLink></ActiveLink>
      <State></State>
      <ProximityEnable></ProximityEnable>
    </LinkGroup>
  </LinkGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroups
Table type	Multi-instance table
Row name	LinkGroup
Restrictions	Only link group can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the link group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 21—Link-quality.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to128.	N/A
SelectLinkMinNumber	Minimum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectLinkMaxNumber	Maximum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SlowOnlineEnable	Enable the link group slow online.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ActivateLower	The status of main link group will be changed from in use to backup when the ratio of the available links in main link	N/A	Unsigned integer. Value range: 1 to 99.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group becomes smaller than this value.			
ActivateUpper	The status of main link group will be changed from backup to in use when the ratio of the available links in main link group reaches or over this value.		Unsigned integer. Value range: 1 to 99.	N/A
SNATPool	SNAT pool for the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any link fails in a link group.	N/A	Enumeration: • 0—Keep. • 1—Reset. • 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that link is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
TotalLink	Total number of links in the link group.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ActiveLink	Active number of links in the link group.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the link group.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
ProximityEnable	Enable the proximity.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/LinkGroupProbes

This table contains information about Link Group Probe that only uses NQA template.

XML structure

```
<LB>
  <LinkGroupProbes>
    <LinkGroupProbe>
      <LinkGroup></LinkGroup>
      <Probe></Probe>
    </LinkGroupProbe>
  </LinkGroupProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupProbes
Table type	Multi-instance table
Row name	LinkGroupProbe
Restrictions	Only link group probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the link group.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/LinkGroupStats

This table contains stat information about link group.

XML structure

```
<LB>
  <LinkGroupStats>
    <LinkGroupStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
```

```
    <TotalConnections></TotalConnections>
    <ActiveConnections></ActiveConnections>
    <ConnectionsPerSec></ConnectionsPerSec>
    <DownstreamPKTs></DownstreamPKTs>
    <UpstreamPKTs></UpstreamPKTs>
    <DroppedPackets></DroppedPackets>
    <DownstreamTraffic></DownstreamTraffic>
    <UpstreamTraffic></UpstreamTraffic>
    <Bandwidth></Bandwidth>
    </LinkGroupStat>
  </LinkGroupStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupStats
Table type	Multi-instance table
Row name	LinkGroupStat
Restrictions	Only stats of link group can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the link group received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the link group	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received.			
ConnectionsPerSec	Connections per second that the link group received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
DownstreamPKTs	Number of packets that the link group received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UpstreamPKTs	Number of packets that the link group sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the link group dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DownstreamTraffic	Number of bytes that the link group received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
UpstreamTraffic	Number of bytes that the link group sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the link group.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A

LB/Regions

This table contains information about region.

XML structure

```
<LB>
  <Regions>
    <Region>
      <Name></Name>
    </Region>
  </Regions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Regions
Table type	Multi-instance table
Row name	Region
Restrictions	Only region can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/RegionISPs

This table contains information about region ISP.

XML structure

```
<LB>
  <RegionISPs>
    <RegionISP>
      <Region></Region>
      <ISP></ISP>
    </RegionISP>
  </RegionISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RegionISPs
Table type	Multi-instance table
Row name	RegionISP
Restrictions	Only Region ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Region	Name of the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ISP	ISP for the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/TopologyRegions

This table contains information about topology region.

XML structure

```
<LB>
  <TopologyRegions>
    <TopologyRegion>
      <RegionName></RegionName>
      <Ipv4Address></Ipv4Address>
      <Ipv4MaskLength></Ipv4MaskLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Weight></Weight>
    </TopologyRegion>
  </TopologyRegions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegions
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegion can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1.
Ipv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopologyRegionIPv4s

This table contains information about an IPv4 topology region.

XML structure

```
<LB>
  <TopologyRegionIPv4s>
    <TopologyRegionIPv4>
      <RegionName></RegionName>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Weight></Weight>
    </TopologyRegionIPv4>
  </TopologyRegionIPv4s>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegionIPv4s
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegionIPv4 can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1.
IPv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopologyRegionIPv6s

This table contains information about an IPv6 topology region.

XML structure

```
<LB>
  <TopologyRegionIPv6s>
    <TopologyRegionIPv6>
      <RegionName></RegionName>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
      <Weight></Weight>
    </TopologyRegionIPv6>
```

```
  </TopologyRegionIPv6s>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegionIPv6s
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegionIPv6 can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/DNSListeners

This table contains information about a DNS listener.

XML structure

```
<LB>
  <DNSListeners>
    <DNSListener>
      <Name></Name>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
```

```
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <IPv6PortNumber></IPv6PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </DNSListener>
  </DNSListeners>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSListeners
Table type	Multi-instance table
Row name	DNSListener
Restrictions	Only DNS Listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6PortNumber	Number of IPv6 port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ServiceEnable	Enable the DNS listener.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: • 0—No-response. • 1—Reject. • 2—Dns proxy.	N/A

LB/DNSListenerStats

This table contains stat information about DNS listener.

XML structure

```
<LB>
  <DNSListenerStats>
    <DNSListenerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </DNSListenerStat>
  </DNSListenerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSListenerStats
Table type	Multi-instance table
Row name	DNSListenerStat
Restrictions	Only stats of DNS listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedValidRequests	Number of vaild requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UnrespondedRequests	Number of unresponded requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
RejectedRequests	Number of rejected requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/DNSListenerTypeStats

This table contains different type stat information about DNS listener.

XML structure

```
<LB>
  <DNSListenerTypeStats>
    <DNSListenerTypeStat>
```

```
      <Name></Name>
      <Type></Type>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </DNSListenerTypeStat>
  </DNSListenerTypeStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSListenerTypeStats
Table type	Multi-instance table
Row name	DNSListenerTypeStat
Restrictions	Only different type stats of DNS listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the DNS listener statistics.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—CNAME. • 3—MX. • 4—NS. • 5—PTR. • 6—SOA. • 7—TXT. • 8—SRV.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device.			
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedValidRequests	Number of vaild requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UnrespondedRequests	Number of unresponded requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
RejectedRequests	Number of rejected requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/DNSProxies

This table contains information about DNS proxies.

XML structure

```
<LB>
  <DNSProxies>
    <DNSProxy>
      <Name></Name>
      <Type></Type>
      <VRF></VRF>
      <PortNumber></PortNumber>
      <ServiceEnable></ServiceEnable>
      <DefaultDNSServerPool></DefaultDNSServerPool>
      <Policy></Policy>
      <BusyProtectEnable></BusyProtectEnable>
      <ConnSynEnable></ConnSynEnable>
```

```
      <State></State>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <StickyGroup></StickyGroup>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </DNSProxy>
  </DNSProxies>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSProxies
Table type	Multi-instance table
Row name	DNSProxy
Restrictions	Only DNS proxy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the DNS proxy.	N/A	Enumeration: • 0—UDP	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters	The null string indicates public network.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
ServiceEnable	Enable the DNS proxy.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
DefaultDNSServerPool	Name of the default DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
State	State of the DNS proxy.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: • 0—Disable. 1—Enable.	N/A
StickySyncType	Sticky synchronization type.	N/A	Enumeration: • 0—Synchronize in failover group (default). • 1—Synchronize global.	This column can only be configured when the StickySynEnable is Enable (1).
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A

LB/DNSProxyStats

This table contains stat information about DNS proxy.

XML structure

```
<LB>
```

```
  <DNSProxyStats>
    <DNSProxyStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSProxyStat>
  </DNSProxyStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSProxyStats
Table type	Multi-instance table
Row name	DNSProxyStat
Restrictions	Only stats of DNS proxy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS proxy has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRe	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
quests	DNS requests that the DNS proxy has dropped.		Value range: 0 to 2^{64}-1.	
ReceivedResponses	Number of DNS responses that the DNS proxy has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of DNS responses that the DNS proxy has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of DNS responses that the DNS proxy has sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/DNSServers

This table contains information about DNS server.

XML structure

```
<LB>
  <DNSServers>
    <DNSServer>
      <Name></Name>
      <Description></Description>
      <AutoAllocAddress></AutoAllocAddress>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DNSServerPool></DNSServerPool>
      <Link></Link>
      <Weight></Weight>
      <Priority></Priority>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <VRF></VRF>    </DNSServer>
  </DNSServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServers
Table type	Multi-instance table
Row name	DNSServer
Restrictions	Only DNS server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the real server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
AutoAllocAddress	Automatic allocable address for DNS server. Include IPv4 address and IPv6 address.	N/A	Numeration: • 0—Disable. • 1—Enable.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DNSServerPool	Name of the DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Link	Name of the link.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DNS server.		Value range: 1 to 8.	
ProbeSuccessCriteria	Probe success criteria for the DNS server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the DNS server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Probe-failed. • 3—Busy. • 4—Unknow.	N/A
VRF	VPN instance name.	N/A	String, Length: 0 to 31 characters. By default, no VPN instance is specified.	The null string indicates public network.

LB/DNSServerProbes

This table contains information about DNS server probe that only uses NQA template.

XML structure

```
<LB>
  <DNSServerProbes>
    <DNSServerProbe>
      <DNSServer></DNSServer>
      <Probe></Probe>
      <State></State>
    </DNSServerProbe>
  </DNSServerProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerProbes
Table type	Multi-instance table
Row name	DNSServerProbe
Restrictions	Only DNS server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	State of the DNS server probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

LB/DNSServerStats

This table contains stat information about DNS server.

XML structure

```
<LB>
  <DNSServerStats>
    <DNSServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerStat>
  </DNSServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerStats
Table type	Multi-instance table
Row name	DNSServerStat

Restrictions	Only stats of DNS server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS server has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of DNS requests that the DNS server has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedResponses	Number of DNS responses that the DNS server has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of DNS responses that the DNS server has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of DNS responses that the DNS server has sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/DNSServerPools

This table contains information about DNS server pool.

XML structure

```
<LB>
  <DNSServerPools>
    <DNSServerPool>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalDNSServer></TotalDNSServer>
      <ActiveDNSServer></ActiveDNSServer>
      <State></State>
    </DNSServerPool>
  </DNSServerPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPools
Table type	Multi-instance table
Row name	DNSServerPool
Restrictions	Only DNS server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server pool.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a DNS server to serve a DNS request.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—Inbound bandwidth. • 4—Outbound bandwidth. • 5—Max bandwidth. • 6—Max inbound bandwidth. • 7—Max outbound bandwidth. • 8—Hash source address. • 9—Hash source port. • 10—Hash destination address.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to128.	N/A
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectServerMaxNumber	Maximum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
ProbeSuccessCriteria	The condition that real server is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
TotalDNSServer	Total number of DNS servers in the DNS server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ActiveDNSServer	Active number of DNS servers in the DNS server pool.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the DNS server pool.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A

LB/DNSServerPoolProbes

This table contains information about DNS server pool probe that only uses NQA template.

XML structure

```
<LB>
  <DNSServerPoolProbes>
    <DNSServerPoolProbe>
      <DNSServerPool></DNSServerPool>
      <Probe></Probe>
    </DNSServerPoolProbe>
  </DNSServerPoolProbes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolProbes
Table type	Multi-instance table
Row name	DNSServerPoolProbe
Restrictions	Only DNS server pool probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer Pool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPoolStats

This table contains stat information about DNS server pool.

XML structure

```
<LB>
  <DNSServerPoolStats>
    <DNSServerPoolStat>
```

```
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerPoolStat>
  </DNSServerPoolStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolStats
Table type	Multi-instance table
Row name	DNSServerPoolStat
Restrictions	Only stats of DNS server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS server pool has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of DNS requests that the DNS	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server pool has dropped.		2^{64}-1.	
ReceivedResponses	Number of DNS responses that the DNS server pool has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of DNS responses that the DNS server pool has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of DNS responses that the DNS server pool has sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/Log

This table contains information about LB logs.

XML structure

```
<LB>
  <Log>
    <BaseEnable></BaseEnable>
    <NatEnable></NatEnable>
     <BandwidthBusyEnable></BandwidthBusyEnable>
     <ScheduleEnable></ScheduleEnable>
  </Log>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ScheduleEnable	Enable logging for packet types and DNS domain names.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/ServerFarmMembers

This table contains information about server farm member.

XML structure

```
<LB>
  <ServerFarmMembers>
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <VRF></VRF>
      <ProbeLog></ProbeLog>
      <ProbeList>
        <Probe></Probe>
```

```
      <NQADefaultPortEnable></NQADefaultPortEnable>
      <ProbeState></ProbeState>
    </ProbeList>
    <ExternalMonitorList>
      <ExternalMonitor></ExternalMonitor>
      <ExMonitorState></ExMonitorState>
    </ExternalMonitorList>
     <VariableList>
       <VariableName></VariableName>
       <VariableValue></VariableValue>
     </VariableList>    </ServerFarmMember>
  </ServerFarmMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmMembers
Table type	Multi-instance table
Row name	ServerFarmMember
Restrictions	Only server farm member can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the server farm member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the server farm member.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the server farm	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.		Value range: 1 to 8.	
Shutdown	Shutdown state for the server farm member.	N/A	Enumeration: • 0—Not configured. • 1—Shutdown. • 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps.	N/A
ProbeSuccessCriteria	Probe success criteria for the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
State	State of the server farm member.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. • 10—Auto-shutdown	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
VRF	VRF name	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates public network.
ProbeLog	Enable logging for health monitoring	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProbeList	Probe method list for the server farm member.	Data structure	Members include: • Probe. • ProbeState.	N/A
Probe	Probe method for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ProbeState	State of the server farm member probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A
ExternalMonitorList	External monitor list for the server farm member.	Data structure	Members include: • ExternalMonitor.	N/A
ExternalMonitor	External monitor for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExMonitorState	State of the server farm member external-monitor.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A
VariableList	Variable list for the server farm member.	Data structure	Members include: • VariableName. • VariableValue.	Members in VariableList can be configured repeatedly by group.
VariableName	Variable name associated with the server farm member.	N/A	String. Length: 1 to 63 characters.	N/A
VariableValue	Variable value associated with the server farm member.	N/A	String. Length: 1 to 127 characters.	N/A

LB/LinkGroupMembers

This table contains information about link group member.

XML structure

```
<LB>
  <LinkGroupMembers>
    <LinkGroupMember>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <RouterType></RouterType>
      <RouterInterface></RouterInterface>
      <RouterIpv4Address></RouterIpv4Address>
      <RouterIpv6Address></RouterIpv6Address>
      <VRF></VRF>
      <ProbeList>
        <Probe></Probe>
        <ProbeState></ProbeState>
      </ProbeList>
    </LinkGroupMember>
  </LinkGroupMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMembers
Table type	Multi-instance table
Row name	LinkGroupMember
Restrictions	Only link group member can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link group member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the link group member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	N/A
Priority	Priority of the link group member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	N/A
Shutdown	Shutdown state for the link group member.	N/A	Enumeration: • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
State	State of the link group member.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown.	
RouterType	Type of router	N/A	Enumeration: • 0—Configure • 1—Auto	N/A
RouterInterface	Name of the interface	N/A	String. case-insensitive. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is Auto (1).
RouterIpv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. If the router interface is configured,the IPV4 is not supported.
RouterIpv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported. If the router interface is configured,the IPV6 is not supported.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
ProbeList	Probe method list for the link group member.	Data structure	Members include: • Probe. • ProbeState.	N/A
Probe	Probe method for the link group member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProbeState	State of the link group member probe.	N/A	Enumeration: • 0—Not exist. • 1—Success.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Failed. • 3—In the process.	

LB/DNSServerPoolMembers

This table contains information about DNS server pool member.

XML structure

```
<LB>
  <DNSServerPoolMembers>
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <Ipv4Address ></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <ProbeList>
        <Probe></Probe>
        <ProbeState></ProbeState>
      </ProbeList>
    </DNSServerPoolMember>
  </DNSServerPoolMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMembers
Table type	Multi-instance table
Row name	DNSServerPoolMember
Restrictions	Only DNS server pool member can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServerPool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the DNS server pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	N/A
Priority	Priority of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	N/A
ProbeSuccessCriteria	Probe success criteria for the DNS server pool member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
State	State of the DNS server pool member.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Probe-failed. • 3—Busy. • 4—Unknown.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
ProbeList	Probe method list for the DNS server pool member.	Data structure	Members include: • Probe. • ProbeState.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Probe	Probe method for the DNS server pool member.s	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProbeState	State of the DNS server pool member probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

LB/ServerFarmMemberStats

This table contains stat information about server farm member.

XML structure

```
<LB>
  <ServerFarmMemberStats>
    <ServerFarmMemberStat>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
```

```
      <RstPackets></RstPackets>
      <MaxRstPackets></MaxRstPackets>
      <RstProtectRetryTimes></RstProtectRetryTimes>
      <MaxRstProtectRetryTimes></MaxRstProtectRetryTimes>
      <ZeroWindowPackets></ZeroWindowPackets>
      <MaxZeroWindowPackets></MaxZeroWindowPackets>
      <ZeroWindowProtectRetryTimes></ZeroWindowProtectRetryTimes>
      <MaxZeroWindowProtectRetryTimes></MaxZeroWindowProtectRetryTimes>
      <AbnormalURLTimes></AbnormalURLTimes>
      <MaxAbnormalURLTimes></MaxAbnormalURLTimes>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <ServerSidePKTsPerSecIn></ServerSidePKTsPerSecIn>
      <ServerSidePKTsPerSecOut></ServerSidePKTsPerSecOut>
    </ServerFarmMemberStat>
  </ServerFarmMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmMemberStats
Table type	Multi-instance table
Row name	ServerFarmMemberStat
Restrictions	Only stats of server farm member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSideBytesIn	Number of bytes that the server farm member	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received from device.		Unit: Byte.	
ServerSideBytesOut	Number of bytes that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the server farm member sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the server farm	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.		2^{32}-1. Unit: KB/s.	
RstPackets	RST packets	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxRstPackets	Maximum number of RST packets	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RstProtectRetryTimes	RST protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxRstProtectRetryTimes	Maximum RST protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ZeroWindowPackets	Zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
MaxZeroWindowPackets	Maximum number of zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
ZeroWindowProtectRetryTimes	Zero-window protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxZeroWindowProtectRetryTimes	Maximum zero-window protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
AbnormalURLTimes	Times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxAbnormalURLTimes	Maximum times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnectionsTime	Time when the server farm member received the maximum number of connections.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxConnectionPerSeTime	Time when the server farm member received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBandwidthTime	Maximum bandwidth time of the server farm member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the server farm member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the server farm member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ServerSidePKTsPerSecIn	Number of packets per second that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ServerSidePKTsPerSecOut	Number of packets per second that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A

LB/LinkGroupMemberStats

This table contains stat information about link group member.

XML structure

```
<LB>
  <LinkGroupMemberStats>
    <LinkGroupMemberStat>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <DownstreamPKTs></DownstreamPKTs>
```

```
      <UpstreamPKTs></UpstreamPKTs>
      <DroppedPackets></DroppedPackets>
      <DownstreamTraffic></DownstreamTraffic>
      <UpstreamTraffic></UpstreamTraffic>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <DownstreamPKTsPerSec></DownstreamPKTsPerSec>
      <UpstreamPKTsPerSec></UpstreamPKTsPerSec>
    </LinkGroupMemberStat>
  </LinkGroupMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMemberStats
Table type	Multi-instance table
Row name	LinkGroupMemberStat
Restrictions	Only stats of link group member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Link	Name of the link group member.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the link group member received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the link group member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the link group member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the link group member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the link group member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
DownstreamPKTs	Number of packets that the link group member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
UpstreamPKTs	Number of packets that the link group member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the link group member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DownstreamTraffic	Number of bytes that the link group member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
UpstreamTr	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
affic	bytes that the link group member sent.		Value range: 0 to 2^{64}-1. Unit: Byte.	
Bandwidth	Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InBandwidth	Inbound Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxConnectionsTime	Time when the link group member received the maximum number of connections.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxConnectionPerSeTime	Time when the link group member received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the link group member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth	N/A	DateTime. Format:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time of the link group member.		YYYY-MM-DDTHH:MM:SS.	
OutMaxBandwidthTime	Outbound maximum bandwidth time of the link group member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
DownstreamPKTsPerSec	Number of packets per second that the link group member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
UpstreamPKTsPerSec	Number of packets per second that the link group member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A

LB/DNSServerPoolMemberStats

This table contains stat information about DNS server pool member.

XML structure

```
<LB>
  <DNSServerPoolMemberStats>
    <DNSServerPoolMemberStat>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerPoolMemberStat>
  </DNSServerPoolMemberStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMemberStats
Table type	Multi-instance table
Row name	DNSServerPoolMemberStat
Restrictions	Only stats of DNS server pool member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer Pool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRe quests	Number of DNS requests that the DNS server pool member has received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRe quests	Number of DNS requests that the DNS server pool member has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ReceivedRe sponses	Number of DNS responses that	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the DNS server pool member has received.			
DroppedResponses	Number of DNS responses that the DNS server pool member has dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of DNS responses that the DNS server pool member has sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```
<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces
Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

LB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```
<LB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
  </VServerArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

LB/Connections

This table contains connection information about LB sessions.

XML structure

```
<LB>
  <Connections>
    <Connection>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Handle></Handle>
        <PerChassis></PerChassis>
        <PerSlot></PerSlot>
        <PerCPUID></PerCPUID>
        <PerHandle></PerHandle>
        <CSClientIpv4Addr></CSClientIpv4Addr>
        <CSClientIpv6Addr></CSClientIpv6Addr>
        <CSClientPort></CSClientPort>
        <CSServerIpv4Addr></CSServerIpv4Addr>
        <CSServerIpv6Addr></CSServerIpv6Addr>
        <CSServerPort></CSServerPort>
        <CSState></CSState>
        <CSVRF></CSVRF>
        <SSClientIpv4Addr></SSClientIpv4Addr>
        <SSClientIpv6Addr></SSClientIpv6Addr>
        <SSClientPort></SSClientPort>
        <SSServerIpv4Addr></SSServerIpv4Addr>
        <SSServerIpv6Addr></SSServerIpv6Addr>
        <SSServerPort></SSServerPort>
```

```
      <SSState></SSState>       <SSVRF></SSVRF>
      <SessionNum></SessionNum>
      <TotalCount></TotalCount>
      <IdleTime></IdleTime>
      <IdleTimeOut></IdleTimeOut>
      <StartTime></StartTime>
    </Connection>
  </Connections>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	Only connections of lb session can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
Slot	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
Handle	Session index	Index	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PerChassis	ID of the device that holds the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerSlot	Member ID of the card on device.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerCPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerHandle	Session index	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CSClientIpv4Addr	Client side IPv4 address of client.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
CSClientIpv6Addr	Client side IPv6 address of client.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
CSClientPort	Client side port number of client.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CSServerIpv4Addr	Client side IPv4 address of server.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
CSServerIpv6Addr	Client side IPv6 address of server.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
CSServerPort	Client side port number of server.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CSState	Connection state of the client side.	N/A	Enumeration: • 0—CLOSED • 1—LISTEN • 2—SYN_SENT • 3—SYN_RECEIVED • 4—ESTABLISHED • 5—CLOSE_WAIT • 6—FIN_WAIT_1 • 7—CLOSING • 8—LAST_ACK • 9—FIN_WAIT_2 • 10—TIME_WAIT	N/A
CSVRF	VRF instance name of the client side.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SSClientIpv4Addr	Server side IPv4 address of client.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SSClientIpv6Addr	Server side IPv6 address of client.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SSClientPort	Server side port number of client.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SSServerIpv4Addr	Server side IPv4 address	N/A	String. Dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	of server.		notation.	
SSServerIpv6Addr	Server side IPv6 address of server.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SSServerPort	Server side port number of server.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SSState	Connection state of the server side.	N/A	Enumeration: • 0—CLOSED • 1—LISTEN • 2—SYN_SENT • 3—SYN_RECEIVED • 4—ESTABLISHED • 5—CLOSE_WAIT • 6—FIN_WAIT_1 • 7—CLOSING • 8—LAST_ACK • 9—FIN_WAIT_2 • 10—TIME_WAIT	N/A
SSVRF	VRF instance name of the server side.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SessionNum	Numbers of sessions to get in one time	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TotalCount	Total number of LB connetcions.	Index	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
IdleTime	Time that a connection has been idle	N/A	Unsigned integer. Value range: 0 to 232 - 1.	N/A
IdleTimeOut	Length of time that a connection is idle (has no traffic) before the connection is eligible for deletion	N/A	Unsigned integer. Value range: 0 to 232 - 1.	0 indicates the idletimeout is not configured.
StartTime	Creation time of a connection	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

LB/ISPWhoisMntners

This table contains information about ISP maintainer objects.

XML structure

```
<LB>
  <ISPWhoisMntners>
    <ISPWhoisMntner>
      <ISPName></ISPName>
      <WhoisMntner></WhoisMntner>
      <Origin></Origin>
    </ISPWhoisMntner>
  </ISPWhoisMntners>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPWhoisMntners
Table type	Multi-instance table
Row name	ISPWhoisMntner
Restrictions	Only ISP whois maintainer objects can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ISPName	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhoisMntner	Name of the whois maintainer object.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Origin	Origin of ISP whois maintainer object.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Manual and import.	N/A

LB/ISPUpdate

This table contains information about ISP update.

XML structure

```
<LB>
  <ISPUpdate>
    <Enable></Enable>
    <Frequency></Frequency>
    <Type></Type>
    <Domain></Domain>
    <Ipv4Address></Ipv4Address>
    <SuccessUpdateTime></SuccessUpdateTime>
    <UpdateTime></UpdateTime>
    <UpdateCount></UpdateCount>
    <UpdateResult></UpdateResult>
  </ISPUpdate>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ISPUpdate
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP update can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable ISP update.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
Frequency	Frequency of ISP update.	N/A	Enumeration: • 0—Per-day. • 1—Per-week. • 2—Per-month.	N/A
Type	Type of the whois server.	N/A	Enumeration: • 0—Domain. • 1—IPv4 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	Domain of the maintainer object.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
Ipv4Address	Address of the maintainer object.	N/A	String. Dotted decimal notation.	The null string indicates the label is not configured.
SuccessUpdateTime	Last successful update time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UpdateTime	Last update time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UpdateCount	Update count.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
UpdateResult	Result of ISP update.	N/A	Enumeration: • 0—Success. • 1—Connection error. • 2—Connection abort. • 3—DNS error. • 4—Initial.	N/A

LB/DNSCachesGlobalCfg

This table contains information about DNS global configuration.

XML structure

```
<LB>
  <DNSCachesGlobalCfg>
     <Timeout></Timeout>
  </DNSCachesGlobalCfg>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSCachesCfg

Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Aging time of DNS cache.	Index	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

LB/RSTProbeTemplate

This table contains information about RST probe template.

XML structure

```
<LB>
  <RSTProbeTemplates>
    <RSTProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <PacketLimit></PacketLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </RSTProbeTemplate>
  </RSTProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RSTProbeTemplates
Table type	Multi-instance table
Row name	RSTProbeTemplate
Restrictions	Only RST probe template can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packe limit of RST probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 1000000.	N/A.
ProtectAction	Protect action of RST probe template.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A.
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	N/A.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0.	N/A.

LB/ZeroWindowProbeTemplate

This table contains information about Zero Window probe template.

XML structure

```
<LB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
      <Description></Description>
```

```
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the zero window probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window probe template.	N/A	Unsigned integer: Value range: 1 to100. By default, the value is 40. Unit: %.	N/A.
ProtectAction	Protection action of zero window probe.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A.
BusyTimeou	Busy time of	N/A	Unsigned integer.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
t	real server.		Value range: 5 to 3600. By default, the value is 30. Unit: second.	
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0.	N/A.

LB/ProbeTemplateSummaries

This table contains summary information about probe template.

XML structure

```
<LB>
  <ProbeTemplateSummaries>
    <ProbeTemplateSummary>
      <Name></Name>
      <Type></Type>
    </ProbeTemplateSummary>
  </ProbeTemplateSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplateSummaries
Table type	Multi-instance table
Row name	ProbeTemplateSummary
Restrictions	Only probe template summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of probe template.	N/A	Enumeration: • 0—ICMP. • 1—RST. • 2—ZEROWINDOW. • 3—HTTPPASSIVE • 4—EXTERNALMONITOR.	N/A

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```
<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Frequency></Frequency>
      <Timeout></Timeout>
    </ProbeTemplate>
  </ProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplate
Table type	Multi-instance table
Row name	N/A
Restrictions	Only probe template can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	probe template.		case-insensitive. Length: 1 to 32 characters.	
Description	Description information for the probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the probe template.	N/A	Enumeration: • 0—ICMP.	When a probe template is created, the column must be specified.
Frequency	Frequency of the probe template.	N/A	Unsigned integer. Value range: 1 to 604800. Unit: second. By default, the value is 300s.	N/A
Timeout	Timeout time of the probe template.	N/A	Unsigned integer. Value range: 1 to 60. Unit: second. By default, the value is 3s.	N/A

LB/HTTPPassiveProbeTemplate

This table contains information about an HTTP passive probe template.

XML structure

```
<LB>
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <URLList>
        <CheckUrl></CheckUrl>
      </URLList>
      <StatusCodeList>
        <StatusCode></StatusCode>
      </StatusCodeList>
    </HTTPPassiveProbeTemplate>
  </HTTPPassiveProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5. By default, the value is 1. Unit: second.	N/A
URLThreshold	URL threshold of the HTTP passive probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 10000.	N/A.
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
URLList	URL list for the HTTP passive probe template.	Data structure	Members include: URL.	N/A
CheckUrl	URL for the HTTP passive probe template.	N/A	String. Length: 1 to 255 characters.	A URL list can contain a maximum of 10 URLs.

Column name	Column description	Column type	Data type and restrictions	Remarks
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

LB/ExternalScript

This table contains information about external monitor script files.

XML structure

```
<LB>
  <ExternalScripts>
    <ExternalScript>
      <FileName></FileName>
    </ExternalScript>
  </ExternalScripts>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ExternalScripts
Table type	Multi-instance table
Row name	ExternalScript
Restrictions	Only external monitor script file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the external monitor script file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LB/ExternalMonitor

This table contains information about an external monitor.

XML structure

```
<LB>
  <ExternalMonitors>
    <ExternalMonitor>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <Timeout></Timeout>
      <ExternalScript></ExternalScript>
      <Argument></Argument>
      <EnvVariablesList>
        <VariableName></VariableName>
        <VariableValue></VariableValue>
      </EnvVariablesList>
    </ExternalMonitor>
  </ExternalMonitors>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ExternalMonitors
Table type	Multi-instance table
Row name	ExternalMonitor
Restrictions	Only external monitor can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the external monitor.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the external monitor.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			86400. Unit: second.	
Timeout	Response timeout of the external monitor.	N/A	Unsigned integer. Value range: 1 to 86400.Unit: second.	N/A
ExternalScript	External monitor script of the external monitor.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Argument	Argument for the external monitor	N/A	String, Length: 1 to 255 characters.	N/A
EnvVariablesList	Environment variable list	Data structure	Members include: • VariableName • VariableValue	N/A
VariableName	Environment variable name for external monitor.	N/A	String. Length: 1 to 255 characters.	N/A
VariableValue	Environment variable value for external monitor.	N/A	String, Length: 1 to 255 characters.	N/A

LB/ExternalMonitorProcessParameter

This table contains information about the external monitor process parameter.

XML structure

```
<LB>
  <ExternalMonitorProcessParameter>
    <ProcessLimit></ProcessLimit>
    <MinProcessLimit></MinProcessLimit>
    <MaxProcessLimit></MaxProcessLimit >
  </ExternalMonitorProcessParameter>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ExternalMonitorProcessParameter
Table type	Single-instance table

Row name	N/A
Restrictions	Only external monitor process parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessLimit	Maximum number of processes.	N/A	Unsigned integer. Value range:10 to 1000.	N/A
MinProcessLimit	Minimum number of processes allowed to be configured.	N/A	Unsigned integer. Value:10.	N/A
MaxProcessLimit	Maximum number of processes allowed to be configured.	N/A	Unsigned integer. Value :1000.	N/A

LB/HTTPStatsParameterObjectGroups

This table contains information about object group of HTTP statistics parameter.

XML structure

```
<LB>
  <HTTPStatsParameterObjectGroups>
    <HTTPStatsParameterObjectGroup>
      <ParameterName></ParameterName>
      <ObjectGroupName></ObjectGroupName>
    </HTTPStatsParameterObjectGroup>
  </HTTPStatsParameterObjectGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterObjectGroups
Table type	Multi-instance table
Row name	HTTPStatsParameterObjectGroup
Restrictions	Only object group of HTTP statistics parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ObjectGroupName	Name of the object group.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

LB/HTTPStatsParameterNodes

This table contains information about HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodes>
    <HTTPStatsParameterNode>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <Description></Description>
      <RuleCount></RuleCount>
    </HTTPStatsParameterNode>
  </HTTPStatsParameterNodes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodes
Table type	Multi-instance table
Row name	HTTPStatsParameterNode
Restrictions	Only HTTP statistics parameter node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A
Description	Description of the node profile.	N/A	String. Length: 0 to 127 characters.	N/A
RuleCount	Rule counts of the node.	N/A	Unsigned integer. Value range: 0 to 256.	N/A

LB/HTTPStatsParameterNodeRules

This table contains information about rule of HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodeRules>
    <HTTPStatsParameterNodeRule>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <ID></ID>
      <Type></Type>
      <URL></URL>
    </HTTPStatsParameterNodeRule>
  </HTTPStatsParameterNodeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodeRules
Table type	Multi-instance table
Row name	HTTPStatsParameterNodeRule
Restrictions	Only rule of HTTP statistics parameter node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the statistics match rule.	Index	Unsigned integer. Value range: 1 to 256.	N/A
Type	Type of the statistics match rule.	N/A	Enumeration: • 0—URL.	N/A
URL	Regular expression used to match URLs.	N/A	String. Length: 1 to 255 characters.	This column can only be gotten when the Type is URL(0).

LB/HTTPStatsParameterNodeRuleLists

This table contains batching information about match rules of HTTP statistics parameter node.

XML structure

```
<LB>
  <HTTPStatsParameterNodeRuleLists>
    <HTTPStatsParameterNodeRuleList>
      <ParameterName></ParameterName>
      <NodeName></NodeName>
      <RuleList>
        <ID></ID>
        <Type></Type>
        <URL></URL>
      </RuleList>
    </HTTPStatsParameterNodeRuleList>
  </HTTPStatsParameterNodeRuleLists>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPStatsParameterNodeRuleLists
Table type	Multi-instance table
Row name	HTTPStatsParameterNodeRuleList

Restrictions	Only rule of HTTP statistics parameter node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node.	Index	String. Length: 1 to 63 characters.	N/A
RuleList	List of rule.	Data structure	Members include: • ID • Type • URL	N/A
ID	ID of the statistics match rule.	N/A	Unsigned integer. Value range: 1 to 256.	N/A
Type	Type of the statistics match rule.	N/A	Enumeration: • 0—URL.	N/A
URL	Regular expression used to match URLs.	N/A	String. Length: 1 to 255 characters.	This column can only be gotten when the Type is URL(0).

LB/TCPParameterOptions

This table contains information about TCP options.

XML structure

```
<LB>
  <TCPParameterOptions>
    <TCPParameterOption>
      <Parameter></Parameter>
      <Number></Number>
      <Type></Type>
      <ValueType></ValueType>
      <EncodeType></EncodeType>
    </TCPParameterOption>
  </TCPParameterOptions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPParameterOptions
Table type	Multi-instance table
Row name	TCPParameterOption
Restrictions	Only TCP parameter option can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Parameter	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Number	Number of the TCP option.	Index	Unsigned integer. Value range: 2 to 254.	N/A
Type	Type of the option process.	Index	Enumeration: • 0—Option Remove. • 1—Option Insert.	N/A
ValueType	Type of the insert value.	N/A	Enumeration: • 0—None. • 1—Src addr.	0 indicates the label is not configured.
EncodeType	The encode for tcp option.	N/A	Enumeration: • **0—binary**. • **1—string**.	N/A

LB/GlobalSNATs

This table contains information about Global SNAT

XML structure

```
<LB>
  <GlobalSNATs>
    <GlobalSNAT>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Priority></Priority>
      <SourceipObjGroup></ SourceipObjGroup>
      <DestinationipObjGroup ></DestinationipObjGroup>
```

```
      <ServiceObjGroup></ServiceObjGroup>
      <TranslationMode></TranslationMode>
      <SnatPoolName></SnatPoolName>
      <TranslationEnable></TranslationEnable>
    </GlobalSNAT>
  </GlobalSNATs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GlobalSnats
Table type	Multi-instance table
Row name	GlobalSnat
Restrictions	Only GlobalSnat can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT global policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the SNAT global policy	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Priority	Priority of the SNAT global policy .	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SourceipObjGroup	The source-ip object group of SNAT global policy for matching source IP addresses	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestinationipObjGroup	The destination-ip object group of SNAT global policy for matching	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination IP addresses			
ServiceObjGroup	The service object group of SNAT global policy for matching service of traiff	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
TranslationMode	Translation mode of SNAT global policy	N/A	Enumeration: • 0—None. • 1—Snat-pool. • 2—Auto-map.	N/A
SnatPoolName	Name of snat-pool	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
TranslationEnable	Whether enable the SNAT global policy	N/A	Enumeration: • 0—disable • 1—enable.	N/A

LB/VRRPInfo

This table contains information about VRRP configuration.

XML structure

```
<LB>
  <VRRPInfos>
    <VRRPInfo>
      <VrrpID></VrrpID>
      <IfIndex></IfIndex>
      <Status></Status>
    </VRRPInfo>
  </VRRPInfos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VRRPInfos
Table type	Multi-instance table
Row name	VRRPInfo
Restrictions	Only VRRP information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrrpID	Identifier of the virtual router.	Index	Unsigned integer. Value range: 1 to 255.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Status	Status of the VRRP.	N/A	Enumeration: • 0—Standby. • 1—Active.	N/A

LB/Connections

This table contains connection information about LB sessions.

XML structure

```
<LB>
  <Connections>
    <Connection>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Handle></Handle>
        <PerChassis></PerChassis>
        <PerSlot></PerSlot>
        <PerCPUID></PerCPUID>
        <PerHandle></PerHandle>
        <CSClientIpv4Addr></CSClientIpv4Addr>
        <CSClientIpv6Addr></CSClientIpv6Addr>
        <CSClientPort></CSClientPort>
        <CSServerIpv4Addr></CSServerIpv4Addr>
        <CSServerIpv6Addr></CSServerIpv6Addr>
        <CSServerPort></CSServerPort>
        <CSState></CSState>
        <CSVRF></CSVRF>
        <SSClientIpv4Addr></SSClientIpv4Addr>
        <SSClientIpv6Addr></SSClientIpv6Addr>
        <SSClientPort></SSClientPort>
        <SSServerIpv4Addr></SSServerIpv4Addr>
        <SSServerIpv6Addr></SSServerIpv6Addr>
        <SSServerPort></SSServerPort>
        <SSState></SSState>       <SSVRF></SSVRF>
```

```
      <SessionNum></SessionNum>
      <TotalCount></TotalCount>
      <IdleTime></IdleTime>
      <IdleTimeOut></IdleTimeOut>
      <StartTime></StartTime>
    </Connection>
  </Connections>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	Only connections of lb session can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
Slot	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
Handle	Session index	Index	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PerChassis	ID of the device that holds the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerSlot	Member ID of the card on device.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerCPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PerHandle	Session index	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CSClientIpv4Addr	Client side IPv4 address of client.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
CSClientIpv6Addr	Client side IPv6 address of client.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
CSClientPort	Client side port number of client.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CSServerIpv4Addr	Client side IPv4 address of server.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
CSServerIpv6Addr	Client side IPv6 address of server.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
CSServerPort	Client side port number of server.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CSState	Connection state of the client side.	N/A	Enumeration: • 0—CLOSED • 1—LISTEN • 2—SYN_SENT • 3—SYN_RECEIVED • 4—ESTABLISHED • 5—CLOSE_WAIT • 6—FIN_WAIT_1 • 7—CLOSING • 8—LAST_ACK • 9—FIN_WAIT_2 • 10—TIME_WAIT	N/A
CSVRF	VRF instance name of the client side.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SSClientIpv4Addr	Server side IPv4 address of client.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SSClientIpv6Addr	Server side IPv6 address of client.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SSClientPort	Server side port number of client.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SSServerIpv4Addr	Server side IPv4 address	N/A	String. Dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	of server.		notation.	
SSServerIpv6Addr	Server side IPv6 address of server.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SSServerPort	Server side port number of server.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SSState	Connection state of the server side.	N/A	Enumeration: • 0—CLOSED • 1—LISTEN • 2—SYN_SENT • 3—SYN_RECEIVED • 4—ESTABLISHED • 5—CLOSE_WAIT • 6—FIN_WAIT_1 • 7—CLOSING • 8—LAST_ACK • 9—FIN_WAIT_2 • 10—TIME_WAIT	N/A
SSVRF	VRF instance name of the server side.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SessionNum	Numbers of sessions to get in one time	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TotalCount	Total number of LB connetcions.	Index	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
IdleTime	Time that a connection has been idle	N/A	Unsigned integer. Value range: 0 to 232 - 1.	N/A
IdleTimeOut	Length of time that a connection is idle (has no traffic) before the connection is eligible for deletion	N/A	Unsigned integer. Value range: 0 to 232 - 1.	0 indicates the idletimeout is not configured.
StartTime	Creation time of a connection	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Contents

LB 1

LB/HTTPVirtualServers 1
LB/GenericVirtualServers 1
LB/RADIUSVirtualServers 2
LB/SIPVirtualServers 2
LB/MySQLVirtualServers 3
LB/RealServers 3
LB/RealServerProbes 4
LB/ServerFarms 4
LB/ServerFarmProbes 4
LB/SNATPools 4
LB/SNATPoolsIpv4Infos 5
LB/SNATPoolsIpv6Infos 5
LB/IPParameters 5
LB/TCPParameters 5
LB/TCPAppParameters 6
LB/HTTPParameters 6
LB/HTTPCompressionParameters 6
LB/HTTPStatisticsParameters 7
LB/OneConnectParameters 7
LB/MySQLParameters 7
LB/ HTTPCompressionParameterRules 7
LB/AddressPortStickyGroups 8
LB/PayloadStickyGroups 8
LB/HTTPContentStickyGroups 8
LB/HTTPCookieStickyGroups 9
LB/HTTPHeaderStickyGroups 9
LB/SSLStickyGroups 9
LB/SIPStickyGroups 9
LB/TCPPayloadStickyGroups 10
LB/HTTPPassiveStickyGroups 10
LB/HTTPPassiveStickyMethodGroups 10
LB/UDPPassiveStickyGroups 11
LB/Policies 11
LB/ClassActions 11
LB/GenericActions 12
LB/RADIUSActions 12
LB/LinkGenericActions 12
LB/DNSActions 12
LB/HTTPActions 13
LB/HTTPActionResponseFiles 13
LB/HTTPActionRewriteURLs 13
LB/HTTPActionSSLURLs 13
LB/HTTPActionHeaders 14
LB/Classes 14
LB/GenericMatchRules 14
LB/DNSProxies 14
LB/DNSServers 15
LB/Links 15
LB/HTTPMatchRules 15
LB/RADIUSMatchRules 15
LB/MySQLMatchRules 15
LB/ServerFarmMembers 16
LB/RSTProbeTemplate 16
LB/ZeroWindowProbeTemplate 16
LB/ProbeTemplate 16
LB/HTTPPassiveProbeTemplate 17

LB/HTTPStatsParameterObjectGroups ····· 17
LB/HTTPStatsParameterNodes ····· 17
LB/HTTPStatsParameterNodeRules ····· 17
LB/HTTPStatsParameterNodeRuleLists ····· 18
LB/TCPParameterOptions ····· 18

LB

LB/HTTPVirtualServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。	The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。
The port number or IP address is not compatible with the SSL policy. 端口或地址与SSL策略不兼容。	The port number or IP address is not compatible with the SSL policy. 端口或地址与 SSL 策略不兼容。
The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。	The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。
The SSL server policy name has already been used. SSL服务端策略名称与已存在的SSL服务端扩展策略名称重名。	The SSL server policy name has already been used. SSL服务端策略名称与已存在的SSL服务端扩展策略名称重名。

LB/GenericVirtualServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。
The port number or IP address is not	The port number or IP address is not compatible with the

compatible with the SSL policy. 端口或地址与SSL策略不兼容。	SSL policy. 端口或地址与 SSL 策略不兼容。
The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。	The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。
The redundancy group is already used. 该冗余组已被其他虚服务器引用。	The redundancy group is already used. 该冗余组已被其他虚服务器引用。
The SSL server policy name has already been used. SSL服务端策略名称与已存在的SSL服务端扩展策略名称重名。	The SSL server policy name has already been used. SSL服务端策略名称与已存在的SSL服务端扩展策略名称重名。

LB/RADIUSVirtualServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。	The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。

LB/SIPVirtualServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。	The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。

The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。	The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。

LB/MySQLVirtualServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。	The virtual server name has been used. 虚服务器名称与已存在的其他类型虚服务器重名。
The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。	The redundancy group is already used by another virtual server. 该冗余组已被其他虚服务器引用。
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。

LB/RealServers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The real server member already exists in the server farm view. 实服务组成员已存在于实服务组视图下。	The real server member already exists in the server farm view. 实服务组成员已存在于实服务组视图下。

LB/RealServerProbes

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/ServerFarms

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。	The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。

LB/ServerFarmProbes

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/SNATPools

Message	Explanation
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT地址池中所指定的地址与其他已存在的SNAT地址池发生地址重叠。	The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT 地址池中所指定的地址与其他已存在的 SNAT 地址池发生地址重叠。

LB/SNATPoolsIpv4Infos

Message	Explanation
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT地址池中所指定的地址与其他已存在的SNAT地址池发生地址重叠。	The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT 地址池中所指定的地址与其他已存在的 SNAT 地址池发生地址重叠。
Maximum number of addresses (10000) allowed in the SNAT address pool already reached. SNAT地址池中的地址数超过最大总数10000。	Maximum number of addresses (10000) allowed in the SNAT address pool already reached. SNAT 地址池中的地址数超过最大总数 10000。

LB/SNATPoolsIpv6Infos

Message	Explanation
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT地址池中所指定的地址与其他已存在的SNAT地址池发生地址重叠。	The specified SNAT pool member can't overlap with an existing member in another SNAT pool. SNAT 地址池中所指定的地址与其他已存在的 SNAT 地址池发生地址重叠。
Maximum number of addresses (10000) allowed in the SNAT address pool already reached. SNAT地址池中的地址数超过最大总数10000。	Maximum number of addresses (10000) allowed in the SNAT address pool already reached. SNAT 地址池中的地址数超过最大总数 10000。

LB/IPParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。

LB/TCPParameters

Message	Explanation
The parameter profile name has been used.	The parameter profile name has been used.

模板名称与已存在的其他类型模板重名。	模板名称与已存在的其他类型模板重名。
The number of TCP parameter profiles that can include timeout parameter configuration exceeded the limit. 允许配置超时参数的TCP参数模板数量超出限制。	The number of TCP parameter profiles that can include timeout parameter configuration exceeded the limit. 允许配置超时参数的 TCP 参数模板数量超出限制。

LB/TCPAppParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。

LB/HTTPParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPCompressionParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPStatisticsParameters

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。
The name can't include the string -node-. HTTP-Statistics参数模板名字中不能包含-node-。	The name can't include the string -node-. HTTP-Statistics 参数模板名字中不能包含-node-。

LB/OneConnectParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。

LB/MySQLParameters

Message	Explanation
The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。	The parameter profile name has been used. 模板名称与已存在的其他类型模板重名。
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/ HTTPCompressionParameterRules

Message	Explanation
The command is not supported, because the license for server load balancing is not available.	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

因缺少License，不支持配置本参数。	

LB/AddressPortStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/PayloadStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/HTTPContentStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/HTTPCookieStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/HTTPHeaderStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/SSLStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/SIPStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not	The command is not supported, because the license for server load balancing is not available.

available. 因缺少License，不支持配置本参数。	因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/TCPPayloadStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/HTTPPassiveStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。
Invalid regular expression 正则表达式错误。	Invalid regular expression 正则表达式错误。

LB/HTTPPassiveStickyMethodGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

重名。	
Invalid regular expression 正则表达式错误。	Invalid regular expression 正则表达式错误。

LB/UDPPassiveStickyGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。	The sticky group name has been used. 持续性组名称与已存在的其他类型的持续性组重名。

LB/Policies

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB policy name has been used. 负载均衡策略名称与已存在的其他类型策略重名。	The LB policy name has been used. 负载均衡策略名称与已存在的其他类型策略重名。

LB/ClassActions

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/GenericActions

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。	The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。

LB/RADIUSActions

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。	The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。

LB/LinkGenericActions

Message	Explanation
The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。	The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。

LB/DNSActions

Message	Explanation
The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。	The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。

LB/HTTPActions

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。	The LB action name has been used. 该负载均衡动作名称与已存在的其他类型动作重名。

LB/HTTPActionResponseFiles

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPActionRewriteURLs

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPActionSSLURLs

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPActionHeaders

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/Classes

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
The LB class name has been used. 负载均衡类名称与已存在的其他类型的类重名。	The LB class name has been used. 负载均衡类名称与已存在的其他类型的类重名。

LB/GenericMatchRules

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/DNSProxies

Message	Explanation
Conflicts with the IP address configured for another object. 与其他对象的地址冲突。	Conflicts with the IP address configured for another object. 与其他对象的地址冲突。

LB/DNSServers

Message	Explanation
The DNS server member already exists in the DNS server pool view. DNS服务器池成员已存在于DNS服务器池视图下。	The DNS server member already exists in the DNS server pool view. DNS 服务器池成员已存在于 DNS 服务器池视图下。

LB/Links

Message	Explanation
The link member already exists in the link group view. 链路组成员已存在于链路组视图下。	The link member already exists in the link group view. 链路组成员已存在于链路组视图下。

LB/HTTPMatchRules

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/RADIUSMatchRules

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/MySQLMatchRules

Message	Explanation
The command is not supported, because the license for server load balancing is not	The command is not supported, because the license for

available. 因缺少License，不支持配置本参数。	server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/ServerFarmMembers

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/RSTProbeTemplate

Message	Explanation
The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。	The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。

LB/ZeroWindowProbeTemplate

Message	Explanation
The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。	The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。

LB/ProbeTemplate

Message	Explanation
The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。	The LB probe template name has been used. 负载均衡探测模板名称与已存在的其他类型探测模板重名。

LB/HTTPPassiveProbeTemplate

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPStatsParameterObjectGroups

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPStatsParameterNodes

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

LB/HTTPStatsParameterNodeRules

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
Invalid URL regular expression. URL正则表达式非法。	Invalid URL regular expression. URL 正则表达式非法。

LB/HTTPStatsParameterNodeRuleLists

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。
Maximum number of match criteria already reached. 流量统计的匹配规则数量已达到上限。	Maximum number of match criteria already reached. 流量统计的匹配规则数量已达到上限。

LB/TCPParameterOptions

Message	Explanation
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少 License，不支持配置本参数。

Contents

LB 1
ServerFarmMemberStatus event 1
XML structure for event subscription 1
XML structure for event report 2
LinkGroupMemberStatus event 3
XML structure for event subscription 3
XML structure for event report 4
DNSServerPoolMemberStatus event 5
XML structure for event subscription 5
XML structure for event report 6

LB

ServerFarmMemberStatus event

This event is used to report server farm member status information.

XML structure for event subscription

```
<ServerFarmMemberStatusEvent>
  <ServerFarmMember>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <PortNumber></PortNumber>
  </ServerFarmMember>
</ServerFarmMemberStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LB</stream>
    <filter type="subtree">
      <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <ServerFarmMember>
          <ServerFarm></ServerFarm>
          <RealServer></RealServer>
          <PortNumber></PortNumber>
        </ServerFarmMember>
      </ServerFarmMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	ServerFarmMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ServerFarm	Name of the server farm.	String, case insensitive. Length: 1 to 63 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
RealServer	Name of the server farm member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<ServerFarmMemberStatusEvent>
  <ServerFarmMember>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <PortNumber></PortNumber>
    <State></State>
  </ServerFarmMember>
</ServerFarmMemberStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <State></State>
    </ServerFarmMember>
  </ServerFarmMemberStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ServerFarm	Name of the server farm.	String, case insensitive. Length: 1 to 63 characters.	No
RealServer	Name of the server farm member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No
State	State of the server farm member.	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		• 6—Ramp. • 8—Busy. • 9—Unknown. • 10—Auto-shutdown	

LinkGroupMemberStatus event

This event is used to report link group member status information.

XML structure for event subscription

```
<LinkGroupMemberStatusEvent>
  <LinkGroupMember>
    <LinkGroup></LinkGroup>
    <Link></Link>
  </LinkGroupMember>
</LinkGroupMemberStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LB</stream>
    <filter type="subtree">
      <LinkGroupMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <LinkGroupMember>
          <LinkGroup></LinkGroup>
          <Link></Link>
        </LinkGroupMember>
      </LinkGroupMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	LinkGroupMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
LinkGroup	Name of the link group.	String, case insensitive. Length: 1 to 63 characters.	No
Link	Name of the link group member.	String, case insensitive. Length: 1 to 63 characters.	No

XML structure for event report

```
<LinkGroupMemberStatusEvent>
  <LinkGroupMember>
    <LinkGroup></LinkGroup>
    <Link></Link>
    <State></State>
  </LinkGroupMember>
</LinkGroupMemberStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <LinkGroupMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <LinkGroupMember>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <State></State>
    </LinkGroupMember>
  </LinkGroupMemberStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
LinkGroup	Name of the link group.	String, case insensitive. Length: 1 to 63 characters.	No
Link	Name of the link group member.	String, case insensitive. Length: 1 to 63 characters.	No
State	State of the link group member.	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		• 10—Auto-shutdown	

DNSServerPoolMemberStatus event

This event is used to report DNS server pool member status information.

XML structure for event subscription

```
<DNSServerPoolMemberStatusEvent>
  <DNSServerPoolMember>
    <DNSServerPool></DNSServerPool>
    <DNSServer></DNSServer>
    <PortNumber></PortNumber>
  </DNSServerPoolMember>
</DNSServerPoolMemberStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LB</stream>
    <filter type="subtree">
      <DNSServerPoolMemberStatusEvent
        xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <DNSServerPoolMember>
          <DNSServerPool></DNSServerPool>
          <DNSServer></DNSServer>
          <PortNumber></PortNumber>
        </DNSServerPoolMember>
      </DNSServerPoolMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	DNSServerPoolMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
DNSServerPool	Name of the DNS server pool.	String, case insensitive. Length: 1 to 63 characters.	No
DNSServer	Name of the DNS server pool member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<DNSServerPoolMemberStatusEvent>
  <DNSServerPoolMember>
    <DNSServerPool></DNSServerPool>
    <DNSServer></DNSServer >
    <PortNumber></PortNumber>
    <State></State>
  </DNSServerPoolMember>
</DNSServerPoolMemberStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <State></State>
    </DNSServerPoolMember>
  </DNSServerPoolMemberStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
DNSServerPool	Name of the DNS server pool.	String, case insensitive. Length: 1 to 63 characters.	No
DNSServer	Name of the DNS server pool member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No
State	State of the DNS server pool member.	Enumeration: • 0—Unavailable. • 1—Available.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		• 2—Probe-failed. • 3—Busy. • 4—Unknown.	

Contents

LBSTATS 1
LBSTATS/URLStatsCharts 1
XML structure 1
Table description 1
Columns 1
LBSTATS/URLStatsTops 3
XML structure 3
Table description 3
Columns 4
LBSTATS/URLStatsTrends 5
XML structure 5
Table description 5
Columns 6

LBSTATS

LBSTATS/URLStatsCharts

This table contains URL statistical information about an HTTP virtual server.

XML structure

```
<LBSTATS>
  <URLStatsCharts>
    <URLStatsChart>
      <UserID></UserID>
      <RowNum></RowNum>
      <FilterType></FilterType>
      <VirtualServerName></VirtualServerName>
      <NodeName></NodeName>
      <Visitor></Visitor>
      <VisitCounts></VisitCounts>
      <TotalCounts></TotalCounts>
      <RowCounts></RowCounts>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </URLStatsChart>
  </URLStatsCharts>
</LBSTATS>
```

Table description

Item	Description
Feature name	LBSTATS
Table name	URLStatsCharts
Table type	Multi-instance table
Row name	URLStatsChart
Restrictions	Only URL statistics can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of user who gets the	Index	Unsigned integer. Value range: 0 to 2^{32} -	The first time you get data, you must specify user ID 0. A user ID other

Column name	Column description	Column type	Data type and restrictions	Remarks
	information by this table.		1.	than 0 is returned and can be used in consequent get-bulk operation before it expires.
RowNum	The sequence number of current row in all rows that exist.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FilterType	The kind of statistical information required.	N/A	Enumeration: • 0—information of virtual servers. • 1—information of nodes for specified virtual server. • 2—information of visitors for specified node and virtual server.	FilterType must be specified.
VirtualServerName	Name of virtual server.	N/A	String. Length: 0 to 63 characters.	VirtualServerName must be specified when FilterType value is 1 or 2.
NodeName	Representation of the URL visited.	N/A	String. Length: 0 to 63 characters.	• NodeName must be null when FilterType value is 0 or 1. • NodeName must be specified when FilterType value is 2.
Visitor	Representation of the URL visitor address.	N/A	String. Length: 0 to 46 characters.	N/A
VisitCounts	Visit counts of the current row.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TotalCounts	Total visit counts of the whole table.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RowCounts	Total rows that exist.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TimeFilter	The time range within which the statistical information is gotten.	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	StartTime must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndTime	End time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	• EndTime must be specified. • EndTime must be later than the StartTime.

LBSTATS/URLStatsTops

This table contains information about top N visited URLs for an HTTP virtual server.

XML structure

```
<LBSTATS>
  <URLStatsTops>
    <URLStatsTop>
      <UserID></UserID>
      <RowNum></RowNum>
      <TopNumber></TopNumber>
      <FilterType></FilterType>
      <VirtualServerName></VirtualServerName>
      <NodeName></NodeName>
      <Visitor></Visitor>
      <VisitCounts></VisitCounts>
      <TotalCounts></TotalCounts>
      <RowCounts></RowCounts>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </URLStatsTop>
  </URLStatsTops>
</LBSTATS>
```

Table description

Item	Description
Feature name	LBSTATS
Table name	URLStatsTops
Table type	Multi-instance table
Row name	URLStatsTop
Restrictions	Only URL top statistics can be gotten by this table, and only get operation is supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of user who gets the information by this table.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	The first time you get data, you must specify user ID 0. A user ID other than 0 is returned and can be used in consequent get-bulk operation before it expires.
RowNum	The sequence number of current row in all rows that exist.	Index	Unsigned integer. Value range:0 to 2^{32} - 1.	N/A
TopNumber	The number of tops required.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FilterType	The kind of statistical information required.	N/A	Enumeration: • 0—information of virtual servers. • 1—information of nodes for specified virtual server. • 2—information of visitors for specified node and virtual server.	FilterType must be specified.
VirtualServerName	Name of virtual server.	N/A	String. Length: 0 to 63 characters.	VirtualServerName must be specified when FilterType value is 1 or 2.
NodeName	Representation of the URL visited.	N/A	String. Length: 0 to 63 characters.	• NodeName must be null when FilterType value is 0 or 1. • NodeName must be specified when FilterType value is 2.
Visitor	Representation of the URL visitor address.	N/A	String. Length: 0 to 46 characters.	N/A
VisitCounts	Visit counts of the current row.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TotalCounts	Total visit counts of the whole table.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RowCounts	Total rows that exist.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TimeFilter	The time range within which the statistical	Data structure	Members include: Interval.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	information is gotten.			
StartTime	Start time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	StartTime must be specified.
EndTime	End time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	• EndTime must be specified. • EndTime must be later than the StartTime.

LBSTATS/URLStatsTrends

This table contains URL visit count information during a time period for an HTTP virtual server.

XML structure

```
<LBSTATS>
  <URLStatsTrends>
    <URLStatsTrend>
      <UserID></UserID>
      <RowNum></RowNum>
      <FilterType></FilterType>
      <VirtualServerName></VirtualServerName>
      <NodeName></NodeName>
      <Visitor></Visitor>
      <VisitCounts></VisitCounts>
      <TotalCounts></TotalCounts>
      <Time></Time>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </URLStatsTrend>
  </URLStatsTrends>
</LBSTATS>
```

Table description

Item	Description
Feature name	LBSTATS
Table name	URLStatsTrends
Table type	Multi-instance table
Row name	URLStatsTrend

Restrictions	Only URL statistics with time can be gotten by this table, and this table only supports get-bulk operation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of user who gets the information by this table.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	The first time you get data, you must specify user ID 0. A user ID other than 0 is returned and can be used in consequent get-bulk operation before it expires.
RowNum	The sequence number of current row in all rows that exist.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FilterType	The kind of statistical information required.	N/A	Enumeration: • 0—information of specified virtual server. • 1—information of specified node and virtual server. • 2—information of specified visitor, node and virtual server.	N/A
VirtualServerName	Name of virtual server.	N/A	String. Length: 0 to 63 characters.	VirtualServerName must be specified.
NodeName	Representation of the URL visited.	N/A	String. Length: 0 to 63 characters.	NodeName must be specified when FilterType value is 1 or 2.
Visitor	Representation of the URL visitor address.	N/A	String. Length: 0 to 46 characters.	• Visitor must be null when FilterType value is 0 or 1. • Visitor must be specified when FilterType value is 2.
VisitCounts	Visit counts of the current row.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TotalCounts	Total visit counts of the whole table.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Time	Time when the statistics information generated.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeFilter	The time range within which	Data structure	Members include: Interval.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the statistical information is gotten.			
StartTime	Start time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	StartTime must be specified.
EndTime	End time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	• End time must be specified. • EndTime must be later than the StartTime.

Contents

Ldap 1
Ldap/Schemes 1
XML structure 1
Table description 1
Columns 1
Ldap/Servers 2
XML structure 2
Table description 3
Columns 3
Ldap/AttributeMaps 6
XML structure 6
Table description 6
Columns 6

Ldap

Ldap/Schemes

LDAP scheme information table.

XML structure

```
<Ldap>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <ServerName></ServerName>
      <MapInstanceName></MapInstanceName>
      <AuthorServerName></AuthorServerName>
      <IgnoreSearchResRef></IgnoreSearchResRef>
    </Scheme>
  </Schemes>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 LDAP schemes are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	LDAP scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ServerName	LDAP authentication server name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
MapInstance	LDAP attribute	N/A	String, case-sensitive.	N/A

Name	map name		Length: 1 to 31 characters.	
AuthorServerName	LDAP authorization server name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
IgnoreSearchResRef	Ignore the searchResRef field in the LDAP search response message	N/A	Boolean: • **true**—The device ignores the searchResRef field in the LDAP search response message. • **false**—The device processes the searchResRef field in the LDAP search response message.	The default is false.

Ldap/Servers

LDAP server information table.

XML structure

```
<Ldap>
  <Servers>
    <Server>
      <ServerName></ServerName>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <TimeOut></TimeOut>
      <ProtocolVersion></ProtocolVersion>
      <LoginDn></LoginDn>
      <LoginPassword></LoginPassword>
      <SearchScope></SearchScope>
      <SearchBaseDn></SearchBaseDn>
      <UserParas>
        <NameType></NameType>
        <NameFormat></NameFormat>
        <NameAttribute></NameAttribute>
        <ObjClassName></ObjClassName>
      </UserParas>
      <GroupFilter></GroupFilter>
```

```
      <EncodingFormat></EncodingFormat>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
      <SourceIfIndex></SourceIfIndex>
    </Server>
  </Servers>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	A maximum of 16 LDAP servers are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	LDAP server name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
VRF	The VPN to which the LDAP server belongs	N/A	String, case-sensitive. Length: 1 to 31 characters.	The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error. If this column is empty, the LDAP server is on the public network.
IpType	Type of the LDAP server address	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the Host value is available. If either the IpType value or the Host value is unavailable, the system reports an error.

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	LDAP server	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	TCP port number of the LDAP server	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 389. The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error.
TimeOut	LDAP server timeout period, the maximum time that the device waits for an LDAP response	N/A	Unsigned integer. Value range: 5 to 20, in seconds.	Default: 10 seconds.
ProtocolVersion	LDAP protocol version	N/A	Enumeration: • **2**—LDAPv2. • **3**—LDAPv3.	Default: 3.
LoginDn	Administrator DN	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
LoginPassword	Administrator password	N/A	String. Length: 1 to 128 characters. The login password is in plain t ext.	N/A
SearchScope	User search scope	N/A	Enumeration: • **0**—All subdirectories of the base DN. • **1**—Next lower level of subdirectories under the base DN.	Default: 0.
SearchBaseDn	User search base DN	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserParas	LDAP user attributes	Data structure	Members include: • NameType.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• NameFormat. • NameAttribute. • ObjClassName.	
NameType	User name attribute type	N/A	Enumeration: • **1**—The value in the NameAttribute column. • **2**—The common name. • **3**—The user ID.	Default: 2.
NameFormat	Format of user names to be sent to LDAP servers	N/A	Enumeration: • **0**—with-domain. • **1**—without-domain.	Default: 1
NameAttribute	The value that represents a type of user name attribute	N/A	String, case-insensitive. Length: 1 to 64 characters.	This column is created only when the value of the NameType column is 1. If this column doesn't appear when the NameType value is 1, the system reports an error. The NameAttribute column must be deleted together with the NameType column. However, the NameType column can be deleted without the NameAttribute column.
ObjClassName	User object class	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
GroupFilter	Filter condition for exporting user groups	N/A	String, case-sensitive. Length: 1 to 127 characters.	Default: "(objectclass=group)"
EncodingFormat	Chinese character encoding format used by the device to communicate with the LDAP server	N/A	Enumeration: • **0**—Not configured. • **1**—GB18030. • **2**—UTF-8.	The value of 0 in this column indicates that the device does not change the Chinese character encoding format used by it to communicate with the LDAP server.
SourceIpv4Address	Source IPv4 address for outgoing LDAP packets	N/A	String, dotted decimal notation.	For example, 10.1.1.1.
SourceIpv6Address	Source IPv6 address for outgoing LDAP packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
SourceIfIndex	Source interface index for outgoing LDAP packets	N/A	Unsigned integer.	For example, 24.

Ldap/AttributeMaps

LDAP attribute map information table.

XML structure

```
<Ldap>
  <AttributeMaps>
    <AttributeMap>
      <MapName></MapName>
      <LdapAttrName></LdapAttrName>
      <Prefix></Prefix>
      <Delimiter></Delimiter>
      <AaaAttrType></AaaAttrType>
    </AttributeMap>
  </AttributeMaps>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	AttributeMaps
Table type	Multi-instance table
Row name	AttributeMap
Restrictions	A maximum of 16 LDAP attribute maps are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
MapName	LDAP attribute map name	Index	String, case-insensitive. Length: 1 to 31 characters.
LdapAttrName	LDAP attribute name	Index	String, case-sensitive. Length: 1 to 63 characters.
Prefix	LDAP attribute prefix	N/A	String, case-sensitive. Length: 0 to 7 characters.
Delimiter	LDAP attribute delimiter	N/A	String, case-insensitive. Length: 0 to 1 characters.
AaaAttrType	AAA attribute type	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			• **1**—user-group. • **2**—user-profile. • **3**—mobile-number.

Contents

Ldap 1
Ldap/Schemes 1
XML structure 1
Table description 1
Columns 1
Ldap/Servers 2
XML structure 2
Table description 3
Columns 3
Ldap/AttributeMaps 5
XML structure 6
Table description 6
Columns 6

Ldap

Ldap/Schemes

LDAP scheme information table.

XML structure

```
<Ldap>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <ServerName></ServerName>
      <MapInstanceName></MapInstanceName>
      <AuthorServerName></AuthorServerName>
      <IgnoreSearchResRef></IgnoreSearchResRef>
    </Scheme>
  </Schemes>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 LDAP schemes are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	LDAP scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ServerName	LDAP authentication server name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
MapInstanceName	LDAP attribute map name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorServerName	LDAP authorization server name	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
IgnoreSearchResRef	Ignore the searchResRef field in the LDAP search response message	N/A	Boolean: • **true**—The device ignores the searchResRef field in the LDAP search response message. • **false**—The device processes the searchResRef field in the LDAP search response message.	The default is false.

Ldap/Servers

LDAP server information table.

XML structure

```
<Ldap>
  <Servers>
    <Server>
      <ServerName></ServerName>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <TimeOut></TimeOut>
      <ProtocolVersion></ProtocolVersion>
      <LoginDn></LoginDn>
      <SearchScope></SearchScope>
      <SearchBaseDn></SearchBaseDn>
      <UserParas>
        <NameType></NameType>
        <NameFormat></NameFormat>
        <NameAttribute></NameAttribute>
        <ObjClassName></ObjClassName>
      </UserParas>
      <GroupFilter></GroupFilter>
```

```
      <EncodingFormat></EncodingFormat>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
      <SourceIfIndex></SourceIfIndex>
    </Server>
  </Servers>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	A maximum of 16 LDAP servers are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	LDAP server name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
VRF	The VPN to which the LDAP server belongs	N/A	String, case-sensitive. Length: 1 to 31 characters.	The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error. If this column is empty, the LDAP server is on the public network.
IpType	Type of the LDAP server address	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the Host value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	LDAP server	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	If the IpType value is 0, this column represents the IPv4 address of the

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated. FQDN: String of 1 to 255 characters.	server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	TCP port number of the LDAP server	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 389. The value in this column is valid only when both the IpType and Host values are available. When the server IP address is unavailable, the port number is not displayed.
TimeOut	LDAP server timeout period, the maximum time that the device waits for an LDAP response	N/A	Unsigned integer. Value range: 5 to 20, in seconds.	Default: 10 seconds.
ProtocolVersion	LDAP protocol version	N/A	Enumeration: • **2**—LDAPv2. • **3**—LDAPv3.	Default: 3.
LoginDn	Administrator DN	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
SearchScope	User search scope	N/A	Enumeration: • **0**—All subdirectories of the base DN. • **1**—Next lower level of subdirectories under the base DN.	Default: 0.
SearchBaseDn	User search base DN	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserParas	LDAP user attributes	Data structure	Members include: • NameType. • NameFormat. • NameAttribute. • ObjClassName.	N/A
NameType	User name attribute type	N/A	Enumeration: • **1**—The value in the NameAttribute column.	Default: 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—The common name. • **3**—The user ID.	
NameFormat	Format of user names to be sent to LDAP servers	N/A	Enumeration: • **0**—with-domain. • **1**—without domain.	Default: 1.
NameAttribute	The value that represents a type of user name attribute	N/A	String, case-insensitive. Length: 1 to 64 characters.	This column is created only when the value of the NameType column is 1. If this column doesn't appear when the NameType value is 1, the system reports an error. The NameAttribute column must be deleted together with the NameType column. However, the NameType column can be deleted without the NameAttribute column.
ObjClassName	User object class	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
GroupFilter	Filter condition for exporting user groups	N/A	String, case-sensitive. Length: 1 to 127 characters.	Default: "(objectclass=group)"
EncodingFormat	Chinese character encoding format used by the device to communicate with the LDAP server	N/A	Enumeration: • **0**—Not configured. • **1**—GB18030. • **2**—UTF-8.	The value of 0 in this column indicates that the device does not change the Chinese character encoding format used by it to communicate with the LDAP server.
SourceIpv4Address	Source IPv4 address for outgoing LDAP packets	N/A	String, dotted decimal notation.	For example, 10.1.1.1.
SourceIpv6Address	Source IPv6 address for outgoing LDAP packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
SourceIfIndex	Source interface index for outgoing LDAP packets	N/A	Unsigned integer.	For example, 24.

Ldap/AttributeMaps

LDAP attribute map information table.

XML structure

```
<Ldap>
  <AttributeMaps>
    <AttributeMap>
      <MapName></MapName>
      <LdapAttrName></LdapAttrName>
      <Prefix></Prefix>
      <Delimiter></Delimiter>
      <AaaAttrType></AaaAttrType>
    </AttributeMap>
  </AttributeMaps>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	AttributeMaps
Table type	Multi-instance table
Row name	AttributeMap
Restrictions	A maximum of 16 LDAP attribute maps are supported.

Columns

Column name	Column description	Column type	Data type and restrictions
MapName	LDAP attribute map name	Index	String, case-insensitive. Length: 1 to 31 characters.
LdapAttrName	LDAP attribute name	Index	String, case-sensitive. Length: 1 to 63 characters.
Prefix	LDAP attribute prefix	N/A	String, case-sensitive. Length: 0 to 7 characters.
Delimiter	LDAP attribute delimiter	N/A	String, case-insensitive. Length: 0 to 1 characters.
AaaAttrType	AAA attribute type	N/A	Enumeration: • **1**—user-group. • **2**—user-profile. • **3**—mobile-number.

Contents

Ldap 2
Ldap/Scheme 2
Ldap/Servers 2

Ldap

Ldap/Scheme

Message	Explanation
Maximum number of LDAP schemes already reached. LDAP方案的数目已经达到上限。	Maximum number of LDAP schemes already reached. LDAP方案的数目已经达到上限
The LDAP scheme doesn't exist. 指定的LDAP方案不存在。	The LDAP scheme doesn't exist. 指定的LDAP方案不存在。
Operation failed due to system errors. 系统错误，操作失败。	Operation failed due to system errors. 系统错误，操作失败。

Ldap/Servers

Message	Explanation
Operation failed due to system errors. 系统错误，操作失败。	Operation failed due to system errors. 系统错误，操作失败。
Maximum number of LDAP servers already reached. LDAP服务器的数目已经达到上限。	Maximum number of LDAP servers already reached. LDAP服务器的数目已经达到上限。
The LDAP server doesn't exist. 指定的LDAP服务器不存在。	The LDAP server doesn't exist. 指定的LDAP服务器不存在。
Invalid IP address. 指定的IP地址非法。	Invalid IP address. 指定的IP地址非法。

Contents

LDP 1
LDP/ResetAllLDPs 1
XML structure 1
Table description 1
Columns 1

LDP

LDP/ResetAllLDPs

This table is used to reset all LDP sessions.

XML structure

```
<LDP>
  <ResetAllLDPs>
    <Reset></Reset>
  </ResetAllLDPs>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	ResetAllLDPs
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Reset all LDP sessions	N/A	This column must be empty.	N/A

Contents

LDP 1

LDP/Base 1
XML structure 1
Table description 1
Columns 1
LDP/Interfaces 2
XML structure 3
Table description 3
Columns 3
LDP/Instances 3
XML structure 4
Table description 6
Columns 6
LDP/Instances/Instance/AdvtiseLabels 8
XML structure 8
Table description 8
Columns 9
LDP/Instances/Instance/IPv6AdvtiseLabels 9
XML structure 9
Table description 9
Columns 10
LDP/Instances/Instance/TargetedPeers 10
XML structure 10
Table description 10
Columns 11
LDP/Instances/Instance/IPv6TargetedPeers 11
XML structure 11
Table description 12
Columns 12
LDP/Instances/Instance/AcceptTargetHello 12
XML structure 12
Table description 13
Columns 13
LDP/Instances/Instance/NewInterfaces 13
XML structure 13
Table description 14
Columns 14
LDP/Instances/Instance/SessionProtection 15
XML structure 15
Table description 15
Columns 16
LDP/Instances/Instance/Peers 16
XML structure 16
Table description 16
Columns 17

LDP

LDP/Base

This table contains global LDP information.

XML structure

```
<LDP>
  <Base>
    <Enable></Enable>
    <LSPTrigger></LSPTrigger>
    <PropagateMapping></PropagateMapping>
    <PropagateMappingPrefixName></PropagateMappingPrefixName>
    <NSR></NSR>
    <GracefulRestart></GracefulRestart>
    <GRForwardingHoldTime></GRForwardingHoldTime>
    <GRReconnectTime></GRReconnectTime>
    <NonStopRouting></NonStopRouting>
    <Dscp></Dscp>
  </Base>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations. You must enable LDP first before other LDP configuration.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether LDP feature is enabled globally	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: • 1—Default policy(default).	LDP/Instances/Instance/LSPTrigger

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—ALL. • 3—Mapping.	and LSPTriggerPreName are recommended.
PropagateMapping	Policy for triggering LDP mapping propagation	N/A	Enumeration: • 1—Default policy (default). • 2—Prefix-list. • 3—None. • 4—All	LDP/Instances/Instance/PropagateMapping and PropagateMappingPrefixName are recommended.
PropagateMappingPrefixName	Name of the IPv4 prefix list for filtering LDP mappings	N/A	String. Length: 1 to 63 characters.	N/A
NSR	Nonstop routing	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	Some versions support NSR and some versions support NonStopRouting. For relevant information, see the XSD document of your product.
GracefulRestart	LDP graceful restart	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
GRForwardingHoldTime	The forwarding state hold time	N/A	Unsigned short. Value range: 60 to 6000s. Default:180s.	N/A
GRReconnectTime	The reconnect time	N/A	Unsigned short. Value range: 60 to 300s. Default:120s.	N/A
NonStopRouting	Non Stop Routing	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	Some versions support NSR and some versions support NonStopRouting. For relevant information, see the XSD document of your product.
Dscp	The DSCP value for LDP packets	N/A	Unsigned short. Value range: 0 to 63. Default:48.	N/A

LDP/Interfaces

This table contains LDP interface information.

XML structure

```
<LDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enable LDP for the interface.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

LDP/Instances

This table contains LDP instance information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <VrfName></VrfName>
      <LsrId></LsrId>
      <LoopDetect></LoopDetect>
      <LabelDistribution></LabelDistribution>
      <BackOffInitTime></BackOffInitTime>
      <BackOffMaxTime></BackOffMaxTime>
      <BgpImport></BgpImport>
      <BgpImportAs></BgpImportAs>
      <IPv6BgpImport></IPv6BgpImport>
      <IPv6BgpImportAs></IPv6BgpImportAs>
      <PvLimit></PvLimit>
      <Maxhops></Maxhops>
      <IgpSyncDelayTime></IgpSyncDelayTime>
      <IgpSyncDelayOnRestart></IgpSyncDelayOnRestart>
      <LSPTrigger></LSPTrigger>
      <LSPTriggerPreName></LSPTriggerPreName>
      <IPv6LSPTrigger></IPv6LSPTrigger>
      <IPv6LSPTriggerPreName></IPv6LSPTriggerPreName>
      <PropagateMapping></PropagateMapping>
      <PropagateMappingPrefixName></PropagateMappingPrefixName>
      <AdvtiseLabels>
        <AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </AdvtiseLabel>
      </AdvtiseLabels>
      <IPv6AdvtiseLabels>
        <IPv6AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </IPv6AdvtiseLabel>
      </IPv6AdvtiseLabels>
      <TargetedPeers>
        <TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddress></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </TargetedPeer>
      </TargetedPeers>
```

```
      <IPv6TargetedPeers>
        <IPv6TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddress></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </IPv6TargetedPeer>
      </IPv6TargetedPeers>
      <AcceptTargetHello>
        <AcceptMode></AcceptMode>
        <PrefixName></PrefixName>
      </AcceptTargetHello>
      <NewInterfaces>
        <NewInterface>
          <IfIndex></IfIndex>
          <Enable></Enable>
          <IPv6Enable></IPv6Enable>
          <TimerHelloHold></TimerHelloHold>
          <TimerHelloInterval></TimerHelloInterval>
          <TimerKAHold></TimerKAHold>
          <TimerKAInterval></TimerKAInterval>
          <TransportAddrInterface></TransportAddrInterface>
          <TransportAddress></TransportAddress>
          <IPv6TransportAddress></IPv6TransportAddress>
          <IgpSyncDisable></IgpSyncDisable>
        </NewInterface>
      </NewInterfaces>
      <SessionProtection>
        <Enable></Enable>
        <PrefixName></PrefixName>
        <Duration></Duration>
      </SessionProtection>
      <Peers>
        <Peer>
          <PeerLDPID></PeerLDPID>
          <MD5PlainPassword></MD5PlainPassword>
          <MD5CipherPassword></MD5CipherPassword>
          <AcceptLabelPreName></AcceptLabelPreName>
          <IPv6AcceptLabelPreName></IPv6AcceptLabelPreName>
        </Peer>
    </Peers>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Instances
Table type	Multi-instance table
Row name	Instances
Restrictions	N/A
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN instance where LDP is enabled	Index	String. Length: 1 to 31 characters	N/A
LsrId	LDP Label Switching Router ID	N/A	String, dotted decimal notation.	N/A
LoopDetect	Loop detection	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LabelDistribution	Label distribution control	N/A	Enumeration: • **0**—Ordere. • **1**—Independent.	N/A
BackOffInitTime	Initial backoff time in seconds	N/A	Unsigned short. Value range: 15 to 50331s. Default:15s.	N/A
BackOffMaxTime	Maximum backoff time in seconds	N/A	Unsigned short. Value range: 120 to 50331s. Default:120s	N/A
BgpImport	Import BGP IPv4 unicast routes in the specified AS to LDP	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
BgpImportAs	AS number. Import BGP IPv4 unicast routes to LDP	N/A	Unsigned short. Value range: 1 to 4294967295.	N/A
IPv6BgpImport	Import BGP IPv6 unicast routes to LDP	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
IPv6BgpImpo	AS number.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
rtAs	Import BGP IPv6 unicast routes in the specified AS to LDP		Value range: 1 to 4294967295.	
PvLimit	The maximum length of path vector	N/A	Unsigned short. Value range: 1 to 32. Default:32.	N/A
Maxhops	The maximum number of hops	N/A	Unsigned short. Value range: 1 to 32. Default:32.	N/A
IgpSyncDelayTime	The delay time after which LDP notifies IGP of the completion of LDP convergence	N/A	Unsigned short. Value range: 5 to 300s.	N/A
IgpSyncDelayOnRestart	The notification delay time after an LDP switchover or restart	N/A	Unsigned short. Value range: 60 to 600s. Default:90.	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: • 1—Default policy(default). • 2—ALL. • 3—Prefix-list. • 4—Mapping.	N/A
LSPTriggerPreName	Name of the prefix list for filtering FECs for LSP triggering	N/A	String. Length: 1 to 63 characters.	N/A
IPv6LSPTrigger	IPv6 egress LSP trigger policy	N/A	Enumeration: • 1—Default policy (default). • 2—ALL. • 3—Prefix-list. • 4—Mapping.	N/A
IPv6LSPTriggerPreName	Name of the prefix list for filtering IPv6 FECs for LSP triggering	N/A	String. Length: 1 to 63 characters.	N/A
PropagateMapping	Policy for triggering LDP mapping propagation	N/A	Enumeration: • 1—Default policy (default) • 2—All • 3—Prefix-list • 4—None	N/A
PropagateMappingPrefixName	Name of the IPv4 prefix list for filtering LDP mappings	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvtiseLabels	Name of the prefix list for filtering FECs for label advertisement	Sublist	N/A	N/A
IPv6AdvtiseLabels	Name of the prefix list for filtering IPv6 FECs for label advertisement	Sublist	N/A	N/A
TargertedPeers	Peer's IPv4 address	Sublist	N/A	N/A
IPv6TargertedPeers	Peer's IPv6 address	Sublist	N/A	N/A
AcceptTargetHello	The Targeted Hellos to accept	Sublist	N/A	N/A
NewInterfaces	LDP interfaces	Sublist	N/A	N/A
SessionProtection	LDP sessions	Sublist	N/A	N/A
Peers	Peer sessions	Sublist	N/A	N/A

LDP/Instances/Instance/AdvtiseLabels

This table contains LDP label advertisement information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <AdvtiseLabels>
        <AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </AdvtiseLabel>
      </AdvtiseLabels>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP

Table name	AdvtiseLabels
Table type	Multi-instance table
Row name	AdvtiseLabel
Restrictions	N/A
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvLabelPreName	Name of the prefix list for filtering FECs	Index	String. Length: 1 to 63 characters	N/A
AdvLabelPeerPreName	Name of the prefix list for filtering peers	N/A	String. Length: 1 to 63 characters	N/A

LDP/Instances/Instance/IPv6AdvtiseLabels

This table contains LDP IPv6 label advertisement information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <IPv6AdvtiseLabels>
        <IPv6AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </IPv6AdvtiseLabel>
      </IPv6AdvtiseLabels>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	IPv6AdvtiseLabels
Table type	Multi-instance table
Row name	IPv6AdvtiseLabel
Restrictions	N/A

Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvLabelPreName	Name of the prefix list for filtering IPv6 FECs	Index	String. Length: 1 to 63 characters	N/A
AdvLabelPeerPreName	Name of the prefix list for filtering peers	N/A	String. Length: 1 to 63 characters	N/A

LDP/Instances/Instance/TargetedPeers

This table contains LDP targeted peers.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <TargetedPeers>
        <TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddress></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </TargetedPeer>
      </TargetedPeers>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	TargetedPeers
Table type	Multi-instance table

Row name	TargetedPeer
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetedPeerName	Name of the targetedpeer neighbor	Index	String Length:1 to 32 characters	Should not be the same as IPv6 TargetedPeer/ TargetedPeerName.
PeerAddress	Peer Address	N/A	String, dotted decimal notation.	N/A
TransportAddress	Transport Address	N/A	String, dotted decimal notation.	N/A
HelloHoldTime	The Hello hold time	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	second
HelloInterval	The Hello interval time	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	second
KAHoldTime	The Keepalive session hold time	N/A	Unsigned short. Value range: 15 to 2^{16} – 1s.	Second
KAInterval	KeepAlive Interval	N/A	Unsigned short. Value range: 1 to 2^{16} – 1s.	Second

LDP/Instances/Instance/IPv6TargetedPeers

This table contains information about LDP IPv6 targeted peers.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <IPv6TargetedPeers>
        <IPv6TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddress></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </IPv6TargetedPeer>
      </IPv6TargetedPeers>
    </Instance>
```

```
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	IPv6TargetedPeers
Table type	Multi-instance table
Row name	IPv6TargetedPeer
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetedPeerName	Name of the targeted peer	Index	String. Length: 1 to 32 characters.	Should not be the same as TargetedPeer/TargetedPeerName.
PeerAddress	Peer IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
TransportAddress	IPv6 transport address	N/A	Hexadecimal string, colon-separated.	Example: 3:4::2.
HelloHoldTime	Hello hold time in seconds	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	N/A
HelloInterval	Hello interval time in seconds	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	N/A
KAHoldTime	Keepalive session hold time in seconds	N/A	Unsigned short. Value range: 15 to 2^{16} – 1s.	N/A
KAInterval	Keepalive interval time in seconds	N/A	Unsigned short. Value range: 1 to 2^{16} – 1s.	N/A

LDP/Instances/Instance/AcceptTargetHello

This table contains LDP session protection.

XML structure

```
<LDP>
  <Instances>
    <Instance>
```

```
      <AcceptTargetHello>
        <AcceptMode></AcceptMode>
        <PrefixName></PrefixName>
      </AcceptTargetHello>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	AcceptTargetHello
Table type	Single-instance table
Row name	None
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AcceptMode	Accept Target Hello	N/A	Enumeration: • 1—All(default). • 2—PrefixName.	N/A
PrefixName	Prefix Name	N/A	String. Length: 1 to 63 characters	N/A

LDP/Instances/Instance/NewInterfaces

This table contains LDP interface detailed information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <NewInterfaces>
        <NewInterface>
          <IfIndex></IfIndex>
          <Enable></Enable>
          <IPv6Enable></IPv6Enable>
          <TimerHelloHold></TimerHelloHold>
          <TimerHelloInterval></TimerHelloInterval>
          <TimerKAHold></TimerKAHold>
```

```
        <TimerKAInterval></TimerKAInterval>
        <TransportAddrInterface></TransportAddrInterface>
        <TransportAddress></TransportAddress>
        <IPv6TransportAddress></IPv6TransportAddress>
        <IgpSyncDisable></IgpSyncDisable>
      </NewInterface>
    </NewInterfaces>
  </Instance>
 </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	NewInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces and ldp is enable.
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enable LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
IPv6Enable	Enable IPv6 LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
TimerHelloHold	The Hello hold time	N/A	Unsigned short. Value range: 1 to 65535s.	N/A
TimerHelloInt	The Hello	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
erval	interval time		Value range: 1 to 65535s.	
TimerKAHold	The Keepalive session hold time	N/A	Unsigned short. Value range: 15 to 65535s.	N/A
TimerKAInterval	The Keepalive interval time	N/A	Unsigned short. Value range: 1 to 65535s.	N/A
TransportAddrInterface	The transport address in TCP connection	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
TransprotAddress	The transport address in TCP connection	N/A	String, dotted decimal notation.	N/A
IPv6TransprotAddress	The IPv6 transport address in TCP connection	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
IgpSyncDisable	IGP-related LDP parameters	N/A	Boolean: • **true—Enabled.** • **false—Disabled.**	N/A

LDP/Instances/Instance/SessionProtection

This table contains LDP session protection.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <SessionProtection>
        <Enable></Enable>
        <PrefixName></PrefixName>
        <Duration></Duration>
      </SessionProtection>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	SessionProtection
Table type	Single-instance table
Row name	None

Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
PrefixName	Prefix Name	N/A	String. Length: 1 to 63 characters.	N/A
Durtaion	Specify protection duration	N/A	Unsigned short. Value range: 30 to 2147483s.	N/A

LDP/Instances/Instance/Peers

This table contains LDP peer information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <Peers>
        <Peer>
          <PeerLDPID></PeerLDPID>
          <MD5PlainPassword></MD5PlainPassword>
           <MD5CipherPassword></MD5CipherPassword>
           <AcceptLabelPreName></AcceptLabelPreName>
          <IPv6AcceptLabelPreName></IPv6AcceptLabelPreName>
        </Peer>
      </Peers>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Peers
Table type	Multi-instance table
Row name	Peer

Restrictions	This table does not support getbulk operation
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerLDPID	Peer's LSR ID	Index	String, dotted decimal notation.	N/A
MD5PlainPassword	Plaintext password string	N/A	String. Length: 1 to 16 characters.	The string length varies by device model. For detailed information, see the XSD document of your product.
MD5CipherPassword	Ciphertext password string	N/A	String. Length: 1 to 53 characters.	The string length varies by device model. For detailed information, see the XSD document of your product.
AcceptLabelPreName	Name of the prefix list	N/A	String. Length: 1 to 63 characters.	N/A
IPv6AcceptLabelPreName	Name of the IPv6 prefix list	N/A	String. Length:1 to 63 characters.	N/A

Contents

LDP 1
LDP/Base 1
XML structure 1
Table description 1
Columns 1
LDP/Interfaces 2
XML structure 3
Table description 3
Columns 3
LDP/Instances 3
XML structure 4
Table description 6
Columns 6
LDP/Instances/Instance/AdvtiseLabels 8
XML structure 8
Table description 8
Columns 8
LDP/Instances/Instance/TargetedPeers 9
XML structure 9
Table description 9
Columns 9
LDP/Instances/Instance/AcceptTargetHello 10
XML structure 10
Table description 10
Columns 10
LDP/Instances/Instance/NewInterfaces 11
XML structure 11
Table description 11
Columns 12
LDP/Instances/Instance/SessionProtection 12
XML structure 12
Table description 13
Columns 13
LDP/Instances/Instance/Peers 13
XML structure 13
Table description 14
Columns 14

LDP

LDP/Base

This table contains global LDP information.

XML structure

```
<LDP>
  <Base>
    <Enable></Enable>
    <LSPTrigger></LSPTrigger>
    <PropagateMapping></PropagateMapping>
    <PropagateMappingPrefixName></PropagateMappingPrefixName>
    <NSR></NSR>
    <NSRState></NSRState>
    <GracefulRestart></GracefulRestart>
    <GRForwardingHoldTime></GRForwardingHoldTime>
    <GRReconnectTime></GRReconnectTime>
    <NonStopRouting></NonStopRouting>
    <Dscp></Dscp>
  </Base>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether LDP feature is enabled globally	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: • 1—Default policy(default). • 2—ALL.	You can not get detail information when the type is Prefix-list.LDP/Inst

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—Mapping. • 4—Prefix-list.	ances/Instance/LSPTrigger and LSPTriggerPreName are recommended.
PropagateMapping	Policy for triggering LDP mapping propagation	N/A	Enumeration: • 1—Default policy (default). • 2—Prefix-list. • 3—None. • 4—All	LDP/Instances/Instance/PropagateMapping and PropagateMappingPrefixName are recommended.
PropagateMappingPrefixName	Name of the IPv4 prefix list for filtering LDP mappings	N/A	String. Length: 1 to 63 characters.	N/A
NSR	Nonstop routing	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	Some versions support NSR and some versions support NonStopRouting. For relevant information, see the XSD document of your product.
NSRState	Nonstop routing state	N/A	Boolean: • **true**—Ready. • **false—**Not Ready(default).	
GracefulRestart	LDP graceful restart	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
GRForwardingHoldTime	The forwarding state hold time	N/A	Unsigned short.Value range: 60 to 6000s.	N/A
GRReconnectTime	The reconnect time	N/A	Unsigned short. Value range: 60 to 300s.	N/A
NonStopRouting	Non Stop Routing	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	Some versions support NSR and some versions support NonStopRouting. For relevant information, see the XSD document of your product.
Dscp	The DSCP value for LDP packets	N/A	Unsigned short. Value range: 0 to 63.	N/A

LDP/Interfaces

This table contains LDP interface information.

XML structure

```
<LDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Enable	Enable LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A

LDP/Instances

This table contains LDP instance information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <VrfName></VrfName>
      <LsrId></LsrId>
      <LoopDetect></LoopDetect>
      <LabelDistribution></LabelDistribution>
      <BackOffInitTime></BackOffInitTime>
      <BackOffMaxTime></BackOffMaxTime>
      <BgpImport></BgpImport>
      <BgpImportAs></BgpImportAs>
      <IPv6BgpImport></IPv6BgpImport>
      <IPv6BgpImportAs></IPv6BgpImportAs>
      <PvLimit></PvLimit>
      <Maxhops></Maxhops>
      <IgpSyncDelayTime></IgpSyncDelayTime>
      <IgpSyncDelayOnRestart></IgpSyncDelayOnRestart>
      <LSPTrigger></LSPTrigger>
      <LSPTriggerPreName></LSPTriggerPreName>
      <IPv6LSPTrigger></IPv6LSPTrigger>
      <IPv6LSPTriggerPreName></IPv6LSPTriggerPreName>
      <AdvtiseLabels>
        <AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </AdvtiseLabel>
      </AdvtiseLabels>
      <IPv6AdvtiseLabels>
        <IPv6AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </IPv6AdvtiseLabel>
      </IPv6AdvtiseLabels>
      <TargetedPeers>
        <TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddrss></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </TargetedPeer>
      </TargetedPeers>
      <IPv6TargetedPeers>
        <IPv6TargetedPeer>
```

```
        <TargetedPeerName></TargetedPeerName>
        <PeerAddress></PeerAddress>
        <TransportAddress></TransportAddress>
        <HelloHoldTime></HelloHoldTime>
        <HelloInterval></HelloInterval>
        <KAHoldTime></KAHoldTime>
        <KAInterval></KAInterval>
      </IPv6TargetedPeer>
    </IPv6TargetedPeers>
    <AcceptTargetHello>
      <AcceptMode></AcceptMode>
      <PrefixName></PrefixName>
    </AcceptTargetHello>
    <NewInterfaces>
      <NewInterface>
        <IfIndex></IfIndex>
        <Enable></Enable>
        <IPv6Enable></IPv6Enable>
        <TimerHelloHold></TimerHelloHold>
        <TimerHelloInterval></TimerHelloInterval>
        <TimerKAHold></TimerKAHold>
        <TimerKAInterval></TimerKAInterval>
        <TransportAddrInterface></TransportAddrInterface>
        <TransportAddress></TransportAddress>
        <IPv6TransportAddress></IPv6TransportAddress>
        <IgpSyncDisable></IgpSyncDisable>
      </NewInterface>
    </NewInterfaces>
    <SessionProtection>
      <Enable></Enable>
      <PrefixName></PrefixName>
      <Duration></Duration>
    </SessionProtection>
    <Peers>
      <Peer>
        <PeerLDPID></PeerLDPID>
        <MD5PlainPassword></MD5PlainPassword>
        <MD5CipherPassword></MD5CipherPassword>
        <AcceptLabelPreName></AcceptLabelPreName>
        <IPv6AcceptLabelPreName></IPv6AcceptLabelPreName>
    </Peer>
  </Peers>
  <PropagateMapping></PropagateMapping>
  <PropagateMappingPrefixName></PropagateMappingPrefixName>
  </Instance>
 </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN instance where LDP is enabled	Index	String. Length: 1 to 31 characters	N/A
LsrId	LDP Label Switching Router ID	N/A	String, dotted decimal notation.	You can not get detail information when the type is Prefix-list.
LoopDetect	Loop detection	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
LabelDistribution	Label distribution control	N/A	Enumeration: • **0**—Ordered(default). • **1**—Independent.	N/A
BackOffInitTime	Initial backoff time in seconds	N/A	Unsigned short. Value range: 15 to 50331s. Default:15s.	N/A
BackOffMaxTime	Maximum backoff time in seconds	N/A	Unsigned short. Value range: 120 to 50331s. Default:120s	N/A
BgpImport	Import BGP IPv4 unicast routes to LDP	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
BgpImportAs	AS number. Import BGP IPv4 unicast routes in the specified AS to LDP	N/A	Unsigned short. Value range: 1 to 4294967295.	N/A
IPv6BgpImport	Import BGP IPv6 unicast routes to LDP	N/A	Boolean: • **true**—Enabled. **false—**Disabled.	N/A
IPv6BgpImportAs	AS number.	N/A	Unsigned short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Import BGP IPv6 unicast routes in the specified AS to LDP		Value range: 1 to 4294967295.	
PvLimit	The maximum length of path vector	N/A	Unsigned short. Value range: 1 to 32. Default:32.	N/A
Maxhops	The maximum number of hops	N/A	Unsigned short. Value range: 1 to 32. Default:32.	N/A
IgpSyncDelayTime	The delay time after which LDP notifies IGP of the completion of LDP convergence	N/A	Unsigned short. Value range: 5 to 300s.	N/A
IgpSyncDelayOnRestart	The notification delay time after an LDP switchover or restart	N/A	Unsigned short. Value range: 60 to 600s. Default:90.	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: • 1—Default policy(default). • 2—ALL. • 3—Prefix-list.	You can not get detail information when the type is Prefix-list.
LSPTriggerPreName	The prefix list for filtering FECs	N/A	String. Length: 1 to 63 characters.	N/A
AdvtiseLabels	Name of the prefix list for filtering FECs	Sublist	N/A	N/A
TargertedPeers	Peer's IPv4 address	Sublist	N/A	N/A
AcceptTargetHello	The Targeted Hellos to accept	Sublist	N/A	N/A
NewInterfaces	Bind the interface with a VPN instance	Sublist	N/A	N/A
SessionProtection	LDP sessions	Sublist	N/A	N/A
Peers	Peer sessions	Sublist	N/A	N/A
PropagateMapping	Policy for triggering LDP mapping propagation	N/A	Enumeration: • 1—Default policy (default) • 2—All • 3—Prefix-list • 4—None	N/A
PropagateMappingPrefixName	Name of the IPv4 prefix list for filtering LDP	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	mappings			

LDP/Instances/Instance/AdvtiseLabels

This table contains LDP instance information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <AdvtiseLabels>
        <AdvtiseLabel>
          <AdvLabelPreName></AdvLabelPreName>
          <AdvLabelPeerPreName></AdvLabelPeerPreName>
        </AdvtiseLabel>
      </AdvtiseLabels>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	AdvtiseLabels
Table type	Multi-instance table
Row name	AdvtiseLabel
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvLabelPreName	Name of the prefix list for filtering FECs	Index	String. Length: 1 to 63 characters	N/A
AdvLabelPeerPreName	Name of the prefix list for filtering peers	N/A	String. Length: 1 to 63 characters	N/A

LDP/Instances/Instance/TargetedPeers

This table contains LDP targeted peers.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <TargetedPeers>
        <TargetedPeer>
          <TargetedPeerName></TargetedPeerName>
          <PeerAddress></PeerAddress>
          <TransportAddress></TransportAddress>
          <HelloHoldTime></HelloHoldTime>
          <HelloInterval></HelloInterval>
          <KAHoldTime></KAHoldTime>
          <KAInterval></KAInterval>
        </TargetedPeer>
      </TargetedPeers>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	TargetedPeers
Table type	Multi-instance table
Row name	TargetedPeer
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetedPeerName	Name of the targetedpeer neighbor	Index	String Length:1 to 32characters.	N/A
PeerAddress	Peer Address	N/A	String, dotted decimal notation.	N/A
TransportAddress	Transport Address	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HelloHoldTime	The Hello hold time	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	second
HelloInterval	The Hello interval time	N/A	Unsigned short. Value range: 1 to 2^{16} - 1s.	second
KAHoldTime	The Keepalive session hold time	N/A	Unsigned short. Value range: 15 to 2^{16} – 1s.	Second
KAInterval	The Keepalive interval time	N/A	Unsigned short. Value range: 1 to 2^{16} – 1s.	Second

LDP/Instances/Instance/AcceptTargetHello

This table contains LDP session protection.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <AcceptTargetHello>
        <AcceptMode></AcceptMode>
        <PrefixName></PrefixName>
      </AcceptTargetHello>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	AcceptTargetHello
Table type	Single-instance table
Row name	None
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AcceptMode	Accept Target Hello	N/A	Enumeration: • 1—All.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—PrefixName.	
PrefixName	Prefix Name	N/A	String,	N/A

LDP/Instances/Instance/NewInterfaces

This table contains LDP interface information.

XML structure

```
<LDP>
  <Instances>
    <Instance>
      <NewInterfaces>
        <NewInterface>
          <IfIndex></IfIndex>
          <IfName></IfName>
          <Enable></Enable>
          <TimerHelloHold></TimerHelloHold>
          <TimerHelloInterval></TimerHelloInterval>
          <TimerKAHold></TimerKAHold>
          <TimerKAInterval></TimerKAInterval>
          <TransportAddrInterface></TransportAddrInterface>
          <TransportAddress></TransportAddress>
          <IgpSyncDisable></IgpSyncDisable>
        </NewInterface>
      </NewInterfaces>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces and ldp is enable.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Enable	Enable LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
TimerHelloHold	The Hello hold time	N/A	Unsigned short. Value range: 1 to 65535s.	N/A
TimerHelloInterval	The Hello interval time	N/A	Unsigned short. Value range: 1 to 65535s.	N/A
TimerKAHold	The Keepalive session hold time	N/A	Unsigned short. Value range: 15 to 65535s.	N/A
TimerKAInterval	The Keepalive interval time	N/A	Unsigned short. Value range: 1 to 65535s.	N/A
TransportAddrInterface	The transport address in TCP connection	N/A	Boolean: • **true**—Enabled. • **false—**Disable(default).	N/A
TransprotAddress	The transport address in TCP connection	N/A	String, dotted decimal notation.	N/A
IgpSyncDisable	IGP-related LDP parameters	N/A	Boolean: • **true—**Enabled**.** • **false—**Disabled(default)**.**	N/A

LDP/Instances/Instance/SessionProtection

This table contains LDP session protection.

XML structure

```
<LDP>
  <Instances>
```

```
    <Instance>
      <SessionProtection>
        <Enable></Enable>
        <PrefixName></PrefixName>
        <Duration></Duration>
      </SessionProtection>
    </Instance>
  </Instances>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	SessionProtection
Table type	Single-instance table
Row name	None
Restrictions	When "not(../vrfName!='_public_')".
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable LDP for the interface	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
PrefixName	Prefix Name	N/A	String. Length: 1 to 63 characters	N/A
Durtaion	Specify protection duration	N/A	Unsigned short. Value range: 30 to 2147483s.	second

LDP/Instances/Instance/Peers

This table contains LDP peer information.

XML structure

```
<LDP>
  <Peers>
    <Peer>
      <PeerLDPID></PeerLDPID>
      <MD5PlainPassword></MD5PlainPassword>
      <MD5CipherPassword></MD5CipherPassword>
```

```
      <AcceptLabelPreName></AcceptLabelPreName>
    </Peer>
  </Peers>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	This table does not support getbulk operation
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerLDPID	Peer's LSR ID	Index	String, dotted decimal notation.	N/A
MD5PlainPassword	Ciphertext password string	N/A	String Length:1 to 16characters	N/A
MD5CipherPassword	Plaintext password string	N/A	String Length:1 to 53characters	N/A
AcceptLabelPreName	Name of the prefix list	N/A	String Length:1 to 63characters	N/A

Contents

LicenseClient 1

LicenseClient/Servers 1
XML structure 1
Table description 1
Columns 1
LicenseClient/AuthorizationInfo 2
XML structure 2
Table description 2
Columns 2
LicenseClient/InstallStandard 2
XML structure 2
Table description 3
Columns 3
LicenseClient/InstallFeatures 4
XML structure 4
Table description 4
Columns 4
LicenseClient/ClientStatus 6
XML structure 6
Table description 6
Columns 6

This document is only used for NFV.

LicenseClient

LicenseClient/Servers

This table contains information about license servers.

XML structure

```
<LicenseClient>
  <Servers>
    <Server>
      <IpAddress></IpAddress>
      <Port></Port>
      <VRF></VRF>
    </Server>
  </Servers>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IPv4 or IPv6 address of the license server	Index	String. Dotted decimal notation, or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A.
Port	License server port	Index	Unsigned integer. Value range: 1 to 65535.	N/A.
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the license server belongs to the public network, do not specify this column.

LicenseClient/AuthorizationInfo

This table is used for configuring license client authorization information.

XML structure

```
<LicenseClient>
  <AuthorizationInfo>
    <UserName></UserName>
    <Password></Password>
  </AuthorizationInfo>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	AuthorizationInfo
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username for logging in to the license server	N/A	String. Length: 1 to 31 characters.	N/A.
Password	Password for logging in to the license server	N/A	String. Length: 1 to 31 characters.	N/A.

LicenseClient/InstallStandard

This table contains information about standard license type.

XML structure

```
<LicenseClient>
  <InstallStandard>
    <LicenseType></LicenseType>
  </InstallStandard>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallStandard
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseType	Standard license type	N/A	String, case-sensitive. Length: 1 to 31 characters.	You can assign the standard license type. The license type must exist and be available on the license server. The standard license types vary by product family. For example: • **1cpu**—Permanent license for 1 CPU. • **1vcpu-1year**—License for 1 vCPU with a validity period of 1 year. • **1vcpu-3year**—License for 1 vCPU with a validity period of 3 years. • **1vcpu-permanent**—Permanent license for 1 vCPU. • **2cpu**—Permanent license for 2 CPUs. • **256cpu-permanent**—Permanent license for 256 CPUs. • **256vcpu-permanent**—Permanent license for 256 vCPUs. • **4cpu**—Permanent license for 4 CPUs. • **4vcpu-1year**—License for 4 vCPUs with a validity period of 1 year. • **4vcpu-3year**—License for 4 vCPUs with a validity period of 3 years. • **4vcpu-permanent**—Permanent license for 4 vCPUs. • **8vcpu-1year**—License for 8 vCPUs with a validity period of 1 year. • **8vcpu-3year**—License for 8 vCPUs with a validity period of

Column name	Column description	Column type	Data type and restrictions	Remarks
				3 years. • **8vcpu-permanent**—Permanent license for 8 vCPUs. • **`l3vpn-unlimited`**—License for 256 vCPUs and unlimited vpn users with a validity period of 1 year.

LicenseClient/InstallFeatures

This table contains information about feature license types.

XML structure

```
<LicenseClient>
  <InstallFeatures>
    <InstallFeature>
      <LicenseType></LicenseType>
      <LicenseCount></LicenseCount>
    </InstallFeature>
  </InstallFeatures>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallFeatures
Table type	Multi-instance table
Row name	InstallFeature
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseType	Feature license type	Index	String, case-sensitive. Length: 1 to 31 characters.	You can assign the feature license type. The license type must exist and be available on the license server. The following default settings apply: • **bras-user-1k**—License for

Column name	Column description	Column type	Data type and restrictions	Remarks
				1000 concurrent online BRAS users. • **advanced-service**—Advanced service package license. • **sslvpn-100**—License for 100 SSL VPN sessions. • **sslvpn-1000**—License for 1000 SSL VPN sessions. • **sslvpn-25**—License for 25 SSL VPN sessions. • **sslvpn-500**—License for 500 SSL VPN sessions. • **dpi-1year**—License for using IPS, anti-virus, application recognition, URL filtering, WAF, IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **url-filter-1year**—License for using URL filtering and updating the URL filtering signature library for 1 year. • **url-filter-3year**—License for using URL filtering and updating the URL filtering signature library for 3 years. • **threat-intelligence-1year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **threat-intelligence-3year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 3 years. • **waf-1year**—License for using WAF and updating the WAF signature library for 1 year. • **waf-3year**—License for using WAF and updating the WAF signature library for 3 years. • **srv6-waas-sdwan-webcache**—Permanent license for SRV6, WAAS, SDWAN and WEBCACHE signature libraries.
LicenseCount	Number of feature licenses	N/A	Unsigned integer Value range: 1 to 1000.	If LicenseType is **bras-user-1k**, this column must be an integer in the range of 1 to 1000. If LicenseType is advanced-service, enter the value in the format of

Column name	Column description	Column type	Data type and restrictions	Remarks
				<LicenseCount></LicenseCount>.

LicenseClient/ClientStatus

This table contains information about license client enabling status.

XML structure

```
<LicenseClient>
  <ClientStatus>
    <Enable></Enable>
  </ClientStatus>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	ClientStatus
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the license client.	N/A	Boolean: • **true** • **false** (default)	N/A.

Contents

LicenseClient 1

LicenseClient/ServerInfos 1
XML structure 1
Table description 1
Columns 1
LicenseClient/ClientInfos 2
XML structure 2
Table description 2
Columns 3
LicenseClient/InstallFailFiles 3
XML structure 3
Table description 4
Columns 4
LicenseClient/InstallStandardTypes 4
XML structure 4
Table description 5
Columns 5
LicenseClient/InstallFeatureTypes 6
XML structure 6
Table description 6
Columns 6
LicenseClient/InstallLicenseInfos 8
XML structure 8
Table description 8
Columns 8

This document is only used for NFV.

LicenseClient

LicenseClient/ServerInfos

This table contains license server information.

XML structure

```
<LicenseClient>
  <ServerInfos>
    <ServerInfo>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IpAddress></IpAddress>
      <Port></Port>
      <VRF></VRF>
      <Usable></Usable>
    </ServerInfo>
  </ServerInfos>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	ServerInfos
Table type	Multi-instance table
Row name	ServerInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device node	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member where	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the entity resides		Value range: 0 to 65535.	
Slot	Slot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, the system returns 65535.
IpAddress	License server IP address	Index	String, dotted decimal notation.	N/A
Port	License server port	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	Local VPN to which the license server belongs	Index	String, case-sensitive. Length: 1 to 31 characters.	If the server is on the public network, enter **<VRF></VRF>**.
Usable	State of the license server	N/A	Boolean: • **true**—The license server is used. • **false**—The license server is not used.	N/A

LicenseClient/ClientInfos

This table contains license client information.

XML structure

```
<LicenseClient>
  <ClientInfos>
    <ClientInfo>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <UserName></UserName>
      <Enable></Enable>
    </ClientInfo>
  </ClientInfos>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient

Item	Description
Table name	ClientInfos
Table type	Multi-instance table
Row name	ClientInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device node	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, the system returns 65535.
UserName	Username for connecting to the license server	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A.
Enable	Enabling status of the license client	N/A	Boolean: • **true**—The license client is enabled. • **false**—The license client is disabled (default).	N/A.

LicenseClient/InstallFailFiles

This table is used to get file name of licenses that have failed installation.

XML structure

```
<LicenseClient>
  <InstallFailFiles>
    <InstallFailFile>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <FailFileName></FailFileName>
```

```
    </InstallFailFile>
  </InstallFailFiles>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallFailFiles
Table type	Multi-instance table
Row name	InstallFailFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device node	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.	Optional. If no slot number is specified, the system shows license status for each slot.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, the system returns 65535.
FailFileName	Name of licenses that failed installation	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A

LicenseClient/InstallStandardTypes

This table is used to get standard license type information from the license server.

XML structure

```
<LicenseClient>
  <InstallStandardTypes>
    <StandardLicenseType>
```

```
      <LicenseType></LicenseType>
    </StandardLicenseType>
  </InstallStandardTypes>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallStandardTypes
Table type	Multi-instance table
Row name	StandardLicenseType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseType	Standard license type	Index	String, case-sensitive. Length: 1 to 31 characters.	The standard license types vary by product family. For example: • **1cpu**—Permanent license for 1 CPU. • **1vcpu-1year**—License for 1 vCPU with a validity period of 1 year. • **1vcpu-3year**—License for 1 vCPU with a validity period of 3 years. • **1vcpu-permanent**—Permanent license for 1 vCPU. • **2cpu**—Permanent license for 2 CPUs. • **256cpu-permanent**—Permanent license for 256 CPUs. • **256vcpu-permanent**—Permanent license for 256 vCPUs. • **4cpu**—Permanent license for 4 CPUs. • **4vcpu-1year**—License for 4 vCPUs with a validity period of 1 year. • **4vcpu-3year**—License for 4 vCPUs with a validity period of 3 years. • **4vcpu-permanent**—Permanent license for 4 vCPUs. • **8vcpu-1year**—License for 8 vCPUs with a validity period of 1 year. • **8vcpu-3year**—License for 8 vCPUs with a validity period

Column name	Column description	Column type	Data type and restrictions	Remarks
				of 3 years. • **8vcpu-permanent**—Permanent license for 8 vCPUs. • **`l3vpn-unlimited`**—License for 256 vCPUs and unlimited vpn users with a validity period of 1 year.

LicenseClient/InstallFeatureTypes

This table is used to get feature license type information from the license server .

XML structure

```
<LicenseClient>
  <InstallFeatureTypes>
    <FeatureLicenseType>
      <LicenseType></LicenseType>
      <LicenseMaxCount></LicenseMaxCount>
    </FeatureLicenseType>
  </InstallFeatureTypes>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallFeatureTypes
Table type	Multi-instance table
Row name	FeatureLicenseType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseType	Feature license type	Index	String, case-sensitive. Length: 1 to 31 characters.	The feature license types vary by product family. For example: • **bras-user-1k**—License for 1000 concurrent online BRAS users. • **advanced-service**—Advanced service package license. • **sslvpn-100**—License for 100

Column name	Column description	Column type	Data type and restrictions	Remarks
				SSL VPN sessions. • **sslvpn-1000**—License for 1000 SSL VPN sessions. • **sslvpn-25**—License for 25 SSL VPN sessions. • **sslvpn-500**—License for 500 SSL VPN sessions. • **ipsec-acc-2g**—License for IPsec with 2 Gbps bandwidth. • **dpi-1year**—License for using IPS, anti-virus, application recognition, URL filtering, WAF, IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **url-filter-1year**—License for using URL filtering and updating the URL filtering signature library for 1 year. • **url-filter-3year**—License for using URL filtering and updating the URL filtering signature library for 3 years. • **threat-intelligence-1year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **threat-intelligence-3year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 3 years. • **waf-1year**—License for using WAF and updating the WAF signature library for 1 year. • **waf-3year**—License for using WAF and updating the WAF signature library for 3 years. • **srv6-waas-sdwan-webcache**—Permanent license for SRV6, WAAS, SDWAN and WEBCACHE signature libraries.
LicenseMaxCount	Maximum number of licenses of this type allowed to be installed	N/A	Unsigned integer. Value range: 1 to 1000.	The maximum number of installable licenses for each type of licenses is different**.**

LicenseClient/InstallLicenseInfos

This table contains summary information about installed licenses from the license server.

XML structure

```
<LicenseClient>
  <InstallLicenseInfos>
    <InstallLicenseInfo>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <LicenseInfo>
          <LicenseName></LicenseName>
          <LicenseType></LicenseType>
          <LicenseGroup></LicenseGroup>
          <LicenseDescr></LicenseDescr>
          <GetTime></GetTime>
          <AuthState></AuthState>
          <ExpiredDays></ExpiredDays>
       </LicenseInfo>
    </InstallLicenseInfo>
  </InstallLicenseInfos>
</LicenseClient>
```

Table description

Item	Description
Feature name	LicenseClient
Table name	InstallLicenseInfos
Table type	Multi-instance table
Row name	InstallLicenseInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device node	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	where the entity resides		Value range: 0 to 65535.	
Slot	Slot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.	Optional. If no slot number is specified, the system shows license status for each slot.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, the system returns 65535
LicenseName	License name.	N/A	String, case-sensitive. Length: 1 to 255 characters.	After the compression operation, the uninstalled license index will be deleted; and the installed license index will remain unchanged.
LicenseType	License type	N/A	String, case-sensitive. Length: 1 to 31 characters.	The license type name include standard and feature. Standard types included: • **1cpu**—Permanent license for 1 CPU. • **1vcpu-1year**—License for 1 vCPU with a validity period of 1 year. • **1vcpu-3year**—License for 1 vCPU with a validity period of 3 years. • **1vcpu-permanent**—Permanent license for 1 vCPU. • **2cpu**—Permanent license for 2 CPUs. • **256cpu-permanent**—Permanent license for 256 CPUs. • **256vcpu-permanent**—Permanent license for 256 vCPUs. • **4cpu**—Permanent license for 4 CPUs. • **4vcpu-1year**—License for 4 vCPUs with a validity period of 1 year. • **4vcpu-3year**—License for 4 vCPUs with a validity period of 3 years. • **4vcpu-permanent**—Permanent license for 4 vCPUs. • **8vcpu-1year**—License for 8 vCPUs with a validity period of 1 year. • **8vcpu-3year**—License for 8 vCPUs with a validity period of 3 years. • **8vcpu-permanent**—Permanent license for 8 vCPUs. • **`l3vpn-unlimited`**—License for 256 vCPUs and unlimited vpn users with a

Column name	Column description	Column type	Data type and restrictions	Remarks
				validity period of 1 year. • Feature license types include: • **bras-user-1k**—License for 1000 concurrent online BRAS users. • **advanced-service**—Advanced service package license. • **sslvpn-100**—License for 100 SSL VPN sessions. • **sslvpn-1000**—License for 1000 SSL VPN sessions. • **sslvpn-25**—License for 25 SSL VPN sessions. • **sslvpn-500**—License for 500 SSL VPN sessions. • **ipsec-acc-2g**—License for IPsec with 2 Gbps bandwidth. • **dpi-1year**—License for using IPS, anti-virus, application recognition, URL filtering, WAF, IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **url-filter-1year**—License for using URL filtering and updating the URL filtering signature library for 1 year. • **url-filter-3year**—License for using URL filtering and updating the URL filtering signature library for 3 years. • **threat-intelligence-1year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 1 year. • **threat-intelligence-3year**—License for using IP reputation, domain reputation, and URL reputation and updating the corresponding signature libraries for 3 years. • **waf-1year**—License for using WAF and updating the WAF signature library for 1 year. • **waf-3year**—License for using WAF and updating the WAF signature library for 3 years. • **srv6-waas-sdwan-webcache**—Permanent license for SRV6, WAAS, SDWAN and WEBCACHE signature libraries.

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseGroup	Group of license	N/A	Enumeration: • **0**—Standard. • **1**—Feature.	N/A
LicenseDescr	Description of the license	N/A	String. Length: 1 to 127 characters.	N/A
GetTime	Time when the license was Obtained	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AuthState	State of the license	N/A	Enumeration: • **0**—Unusable. • **1**—Inuse. • **2**—Reserved. • **3**—Expired.	N/A
ExpiredDays	Number of days that will expire after the license client is disconnected from the license server or days remaining after license expiration	N/A	Unsigned integer.	Only when the value of AuthState is Reserved or Expired, this column is meaningful.

Contents

License 1
License/Operations 1
XML structure 1
Table description 1
Columns 1

License

License/Operations

This table describes the actions that use to install or uninstall feature.

XML structure

```
<License>
  <Operations>
    <Operation>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <OpType></OpType>
      <OpTarget>
        <ActivationFile></ActivationFile>
        <ActivationKey></ActivationKey>
        <LicenseKey></LicenseKey>
      </OpTarget>
    </Operation>
  </Operations>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Operations
Table type	Multi-instance table
Row name	Operation
Restrictions	The objects of OpTarget are mutual exclusion.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • **Chassis.** • **Slot.** • **CPUID.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices–In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices–In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
OpType	Operation type.	N/A	Enumeration: • **1**—Install license. • **2**—Uninstall license. • **3**—Compress. • **4**—Delete the special license.	When the value is 1, 2 or4, only one object of OpTarget can be carried. When the value is 3, anyone of OpTarget can't be carried.
OpTarget	Operation target.	Data structure	Members include: • **ActivationFile.** • ActivationKey. • LicenseKey.	N/A
ActivationFile	An activation file with the full path.	N/A	String. Length: 1 to 255 characters.	N/A
ActivationKey	Activation key.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A
LicenseKey	License key.	N/A	String. Length: 1 to 255 characters. Format: Every group is made	Due to historical reasons, the length of the authorization code for each group is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			up of several characters, and during the groups use “-” as a delimiter.	uniform.

Contents

License 1
License/Systems 1
XML structure 1
Table description 1
Columns 2
License/Summaries 3
XML structure 3
Table description 4
Columns 4
License/Features 7
XML structure 7
Table description 7
Columns 7

License

License/Systems

This table contains license system information.

XML structure

```
<License>
  <Systems>
    <System>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <SerialNumber></SerialNumber>
      <DeviceIDType></DeviceIDType>
      <DeviceID></DeviceID>
      <HardwareInfo></HardwareInfo>
      <Max></Max>
      <Used></Used>
      <Recyclable></Recyclable>
      <InstallType></InstallType>
      <ActivationFileStoragePath></ActivationFileStoragePath>
    </System>
  </Systems>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Systems
Table type	Multi-instance table
Row name	System
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • **Chassis.** • **Slot.** • **CPUID.**	N/A
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices–In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices–In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
SerialNumber	The serial number of the device.	N/A	String. Length: 1 to 255 characters.	N/A
DeviceIDType	The types of device ID.	N/A	Enumeration: • **1**—invalid. • **2**—keyString. • **3**—file.	N/A
DeviceID	A string represents the device ID.	N/A	String. Length: 1 to 255 characters.	If the value of DeviceIDType is 1, DeviceID does not exist. If the value of DeviceIDType is 3, DeviceID is the file name with the full path.
HardwareInfo	The information of the hardware.	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Max	The max number of licenses that can be installed in device.	N/A	Unsigned integer.	N/A
Used	The number of installed licenses.	N/A	Unsigned integer.	N/A
Recyclable	The number of recyclable licenses.	N/A	Unsigned integer.	N/A
InstallType	The install-Type of license.	N/A	Enumeration: • **1**—invalid. • **2**—installInChassis. • **3**—installInSlot. • **4**—installInCPU.	N/A
ActivationFile StoragePath	The storage path of the installed license files.	N/A	String. Length: 1 to 255 characters.	N/A

License/Summaries

This table contains the summary information of installed license.

XML structure

```
<License>
  <Summaries>
    <Summary>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Index></Index>
      <Feature></Feature>
      <ProductDescr></ProductDescr>
      <FileDescr></FileDescr>
      <State></State>
      <Installed>
        <ActivationFile></ActivationFile>
        <ActivationKey></ActivationKey>
        <LicenseKey></LicenseKey>
      </Installed>
      <Uninstalled>
        <UninstActivationFile></UninstActivationFile>
        <UninstActivationKey></UninstActivationKey>
```

```
      </Uninstalled>
      <Type></Type>
      <InstalledTime></InstalledTime>
      <UninstalledTime></UninstalledTime>
      <DaysLeft></DaysLeft>
      <DaysLeftWarning></DaysLeftWarning>
      <ValidityStart></ValidityStart>
      <ValidityEnd></ValidityEnd>
      <ExpiredDays></ExpiredDays>
      <Count></Count>
    </Summary>
  </Summaries>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Summaries
Table type	Multi-instance table
Row name	Summary
Restrictions	Installed group and uninstalled group are related with license state, and the members in installed group are mutual exclusion.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • **Chassis.** • **Slot.** • **CPUID.**	N/A
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices–In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices–In	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.

Column name	Column description	Column type	Data type and restrictions	Remarks
	standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)			
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
Index	License index.	Index	Unsigned integer.	After the compression operation, the uninstalled license index will be deleted; and the installed license index will remain unchanged.
Feature	The name of feature which have licensed.	N/A	String. Length: 0 to 1024 characters.	Here multiple feature names can be displayed with spaces as delimiters.
ProductDescr	The description of product BOM in activation file.	N/A	String. Length: 1 to 1024 characters.	N/A
FileDescr	The description of file in a license.	N/A	String. Length: 1 to 1024 characters.	N/A
State	The state of an installed license.	N/A	Enumeration: • **1**—invalid. • **2**—inuse. • **3**—usable. • **4**—expired. • **5**—uninstalled. • **6**—unusable.	N/A
Installed	N/A	Data structure	Members include: • ActivationFile**.** • ActivationKey**.** • LicenseKey.	N/A
ActivationFile	Name of an installed activation file, with device name and file name.	N/A	String. Length: 1 to 255 characters.	N/A
ActivationKey	The activation key which has been installed.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A
LicenseKey	The license key which has been installed.	N/A	String. Length: 1 to 255 characters. Format: Every group is made	Due to historical reasons, the length of the authorization code for each group is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			up of several characters, and during the groups use “-” as a delimiter.,	uniform.
Uninstalled	N/A	Data structure	Members include: • UninstActivationFile**.** • UninstActivationKey**.**	Only after uninstalling, the membership information in this group can be read.
UninstActivationFile	Name of an uninstalled activation file, with device name and file name.	N/A	String. Length: 1 to 255 characters.	N/A
UninstActivationKey	The activation key which has been uninstalled.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A
Type	License type by validity period.	N/A	Enumeration: • **1**—unknown. • **2**—permanent. • **3**—daysRestricted. • **4**—trialDaysRestricted. • **5**—dateRestricted. • **6**—trialDateRestricted. • **7**—countRestricted. • **8**—trialCountRestricted.	N/A
InstalledTime	Time when the license was installed.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UninstalledTime	The time when the license was uninstalled.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	Only after uninstalling, it can be read.
DaysLeft	Remaining days of the license.	N/A	Unsigned integer.	When the value of Type is 3 or 4, this column is effective.
DaysLeftWarning	Whether the license will be expired.	N/A	Boolean: • **True** • **false**	When the left days are below 10%, the value of this column is true.
ValidityStart	Start date for a date restricted license.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	When the value of Type is 5 or 6, this column is effective.
ValidityEnd	End date for a date restricted license.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	When the value of Type is 5 or 6, this column is effective. But if there is no time limit authorization, this column does not exist value.
ExpiredDays	The number of passed days after a license has been	N/A	Unsigned integer.	Only when the value of state is 4, this column is meaningful.

Column name	Column description	Column type	Data type and restrictions	Remarks
	expired.			
Count	The effective number of License.	N/A	Unsigned integer.	When the value of Type is 7 or 8, this column is effective.

License/Features

This table contains information about the features.

XML structure

```
<License>
  <Features>
    <Feature>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <State></State>
    </Feature>
  </Features>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Features
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • **Chassis.** • **Slot.** • **CPUID.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices–In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices–In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
Name	Feature name.	Index	String. Length: 1 to 31 characters.	N/A
Status	Feature status.	N/A	Enumeration: • **1**—No license has been installed. • **2**—Trial license has been installed. • **3**—Purchased license has been installed.	N/A

Contents

LICMGR 1
LICMGR/ClearXConnectionStatistics 1
XML structure 1
Table description 1
Columns 1

LICMGR

LICMGR/ClearXConnectionStatistics

This table is used to clear statistics of X connection.

XML structure

```
<LICMGR>
  <ClearXConnectionStatistics>
    <XConnectionStatistics>
      <XConnectionType></XConnectionType>
      <Clear></Clear>
      <X3ConnectionID></X3ConnectionID>
    </XConnectionStatistics>
  </ClearXConnectionStatistics>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	ClearXConnectionStatistics
Table type	Multi-instance table
Row name	XConnectionStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XConnection Type	Application X Connection Type	N/A	Enumeration: • **0**—All. • **1**—X1. • **2**—X2. • **3**—X3.	0:Clear All X Connection Statistics. 1:Clear X1 Connection Statistics. 2:Clear X2 Connection Statistics. 3:Clear X3 Connection Statistics.
Clear	Clear X Connection statistics	N/A	This column must be empty	Required.
X3ConnectionID	X3 Connection ID	N/A	Unsigned integer. Value range: 0 to 31.	Parameters are only used when configuring X3

Contents

LICMGR 1

LICMGR/Switch 1
XML structure 1
Table description 1
Columns 1
LICMGR/INEID 1
XML structure 1
Table description 2
Columns 2
LICMGR/LICID 2
XML structure 2
Table description 2
Columns 3
LICMGR/Bandwidth 3
XML structure 3
Table description 3
Columns 3
LICMGR/Key 3
XML structure 3
Table description 4
Columns 4
LICMGR/X1Timer 5
XML structure 5
Table description 5
Columns 5
LICMGR/X2Timer 5
XML structure 5
Table description 6
Columns 6
LICMGR/X3Timer 6
XML structure 6
Table description 6
Columns 7
LICMGR/X3Service 7
XML structure 7
Table description 7
Columns 8
LICMGR/X1Connection 8
XML structure 8
Table description 8
Columns 8
LICMGR/X2Connection 9
XML structure 9
Table description 9
Columns 10
LICMGR/X3Connection 10
XML structure 10
Table description 11
Columns 11
LICMGR/RandLength 11
XML structure 11
Table description 12
Columns 12
LICMGR/EnhancedX1X2Security 12
XML structure 12
Table description 12
Columns 13

LICMGR/EnhancedX3Security 13
XML structure 13
Table description 13
Columns 13

LICMGR

LICMGR/Switch

This table contains state information about the lawful interception feature.

XML structure

```
<LICMGR>
  <Switch>
    <Switch></Switch>
  </Switch>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Switch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	State of the lawful interception feature	N/A	Boolean: • **true**—Enable. • **false**—Disabled.

LICMGR/INEID

This table contains the INE ID.

XML structure

```
<LICMGR>
  <INEID>
    <ID></ID>
  </INEID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	INEID
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ID	INE ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/LICID

This table contains the LIC ID.

XML structure

```
<LICMGR>
  <LICID>
    <ID></ID>
  </LICID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	LICID
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ID	LIC ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/Bandwidth

This table contains X3 interface bandwidth information.

XML structure

```
<LICMGR>
  <Bandwidth>
    <Bandwidth></Bandwidth>
  </Bandwidth>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Bandwidth
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Bandwidth	X3 interface bandwidth	N/A	Unsigned integer. Value range: 8 to 1000000, in kbps.

LICMGR/Key

This table contains lawful interception key information.

XML structure

```
<LICMGR>
  <Key>
```

```
    <Key>
      <Type></Type>
      <KI></KI>
      <Password></Password>
      <SqnGroup></SqnGroup>
    </Key>
  </Key>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Key
Table type	Multi-instance table
Row name	Key
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • **1**—X1. • **2**—X2. • **3**—X3 • Type X3 depends on customize
KI	Key ID	N/A	String, case sensitive. Length: 16 characters.
Password	Password	N/A	String, case sensitive. Length: 16 characters. This column can NOT be configured together with X3 type of interface.
SqnGroup	Sequence number group	N/A	Unsigned integer. Value range: 2 to 4294967295.
ListK1	ListK1 ID	N/A	String, case sensitive. Length: 16 characters. This column can be configured together with X1 type of interface only, depends on customize.

LICMGR/X1Timer

This table contains information about the X1 no-message timer.

XML structure

```
<LICMGR>
  <X1Timer>
    <NoMessage></NoMessage>
  </X1Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Timer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
NoMessage	No-message timer.	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.

LICMGR/X2Timer

This table contains information about X2 timers.

XML structure

```
<LICMGR>
  <X2Timer>
    <KeepAlive></KeepAlive>
    <Normal></Normal>
  </X2Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Timer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.

LICMGR/X3Timer

This table contains information about X3 timers.

XML structure

```
<LICMGR>
  <X3Timer>
    <Timer>
      <ConnectionID></ConnectionID>
      <KeepAlive></KeepAlive>
      <Normal></Normal>
      <Retry></Retry>
    </Timer>
  </X3Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Timer

Item	Description
Table type	Multi-instance table
Row name	Timer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 31.
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.
Retry	Retry timer	N/A	Unsigned integer. Value range: 1 to 1000, in seconds.

LICMGR/X3Service

This table contains X3 service chassis and slot information. This table depends on customize.

XML structure

```
<LICMGR>
  <X3Service>
    <Chassis></Chassis>
    <Slot></Slot>
  </X3Service>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Service
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.

LICMGR/X1Connection

This table contains information about the X1 connection.

XML structure

```
<LICMGR>
  <X1Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X1Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Connection
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LocalIPv6Address column.
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LocalIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

LICMGR/X2Connection

This table contains information about the X2 connection.

XML structure

```
<LICMGR>
  <X2Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LICPort></LICPort>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X2Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Connection
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

LICMGR/X3Connection

This table contains information about X3 connections.

XML structure

```
<LICMGR>
  <X3Connection>
    <Connection>
      <ConnectionID></ConnectionID>
      <LICIPAddress></LICIPAddress>
      <LICIPv6Address></LICIPv6Address>
      <LICPort></LICPort>
      <LocalIPAddress></LocalIPAddress>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
    </Connection>
  </X3Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Connection
Table type	Multi-instance table
Row name	Connection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 31.	N/A
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LocalIPv6Address column.
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LocalIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

LICMGR/RandLength

This table contains RandLength information, depends on customize.

XML structure

```
<LICMGR>
```

```
  <RandLength>
    <RandLength></RandLength>
  </RandLength>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	RandLength
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RandLength	The effective length of random number.	N/A	Unsigned integer. Value range: 7 to 10. The default value is 10.

LICMGR/EnhancedX1X2Security

This table contains information about securtiy algorithm used by X1 and X2 connection, depends on customize.

XML structure

```
<LICMGR>
  <EnhancedX1X2Security>
    <EnhancedX1X2Security></EnhancedX1X2Security>
  </EnhancedX1X2Security>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	EnhancedX1X2Security
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnhancedX1X2Security	The effective algorithm used by X1 and X2 connection.	N/A	Enumeration: • **0**—3DS/sha1 • **1**—AES/sha512 The default value is 0**.**

LICMGR/EnhancedX3Security

This table contains information about securtiy algorithm used by X3 connection, depends on customize.

XML structure

```
<LICMGR>
  <EnhancedX3Security>
    <EnhancedX3Security></EnhancedX3Security>
  </EnhancedX3Security>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	EnhancedX3Security
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnhancedX3Security	The effective algorithm used by X3 connection.	N/A	Enumeration: • **0**—None • **1**—AES/sha512 The default value is 0**.**

Contents

LICMGR 1

LICMGR/Switch 1
XML structure 1
Table description 1
Columns 1
LICMGR/INEID 1
XML structure 1
Table description 2
Columns 2
LICMGR/LICID 2
XML structure 2
Table description 2
Columns 2
LICMGR/Bandwidth 3
XML structure 3
Table description 3
Columns 3
LICMGR/Key 3
XML structure 3
Table description 4
Columns 4
LICMGR/X1Timer 5
XML structure 5
Table description 5
Columns 5
LICMGR/X2Timer 5
XML structure 6
Table description 6
Columns 6
LICMGR/X3Timer 6
XML structure 6
Table description 7
Columns 7
LICMGR/X3Service 7
XML structure 7
Table description 7
Columns 8
LICMGR/X1Connection 8
XML structure 8
Table description 8
Columns 9
LICMGR/X2Connection 9
XML structure 9
Table description 9
Columns 10
LICMGR/X3Connection 10
XML structure 10
Table description 10
Columns 11
LICMGR/PacketsStatistics 11
XML structure 11
Table description 11
Columns 12
LICMGR/X3PacketsStatistics 12
XML structure 12
Table description 12
Columns 13

LICMGR/IntervalStatistics 13
XML structure 13
Table description 14
Columns 14
LICMGR/ControlTargets 15
XML structure 15
Table description 15
Columns 16
LICMGR/RandLength 16
XML structure 16
Table description 17
Columns 17
LICMGR/EnhancedX1X2Security 17
XML structure 17
Table description 17
Columns 18
LICMGR/EnhancedX3Security 18
XML structure 18
Table description 18
Columns 18

LICMGR

LICMGR/Switch

This table contains state information about the lawful interception feature.

XML structure

```
<LICMGR>
  <Switch>
    <Switch></Switch>
  </Switch>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Switch
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	State of the lawful interception feature	N/A	Boolean: • **true**—Enable. • **false**—Disabled.

LICMGR/INEID

This table contains the INE ID.

XML structure

```
<LICMGR>
  <INEID>
    <ID></ID>
  </INEID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	INEID
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	INE ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/LICID

This table contains the LIC ID.

XML structure

```
<LICMGR>
  <LICID>
    <ID></ID>
  </LICID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	LICID
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	LIC ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/Bandwidth

This table contains X3 interface bandwidth information.

XML structure

```
<LICMGR>
  <Bandwidth>
    <Bandwidth></Bandwidth>
  </Bandwidth>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Bandwidth
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Bandwidth	X3 interface bandwidth	N/A	Unsigned integer. Value range: 8 to 1000000, in kbps.

LICMGR/Key

This table contains lawful interception key information.

XML structure

```
<LICMGR>
  <Key>
    <Key>
      <Type></Type>
      <KI></KI>
      <Password></Password>
      <SqnGroup></SqnGroup>
    </Key>
  </Key>
```

```
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Key
Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • **1**—X1. • **2**—X2. • **3**—X3 Type X3 depends on customize
KI	Key ID	N/A	String, case sensitive. Length: 16 characters.
KIConfig	Whether the key ID is configured	N/A	Enumeration: • **true**—Key ID is configured. • **false**—Key ID is not configured.
Password	Password	N/A	String, case sensitive. Length: 16 characters. This column can NOT be configured together with X3 type of interface.
PasswordConfig	Whether the password is configured	N/A	Boolean: • **true**—Password is configured. • **false**—Password is not cinfigured. This column can NOT be configured together with X3 type of interface.
ListK1	ListK1 ID	N/A	String, case sensitive. Length: 16 characters. This column can be configured together with X1 type of interface only, depends on customize.

Column name	Column description	Column type	Data type and restrictions
ListK1Config	Whether the key ID is configured	N/A	Enumeration: • **true**—Key ID is configured. • **false**—Key ID is not configured. This column can be configured together with X1 type of interface only, depends on customize.
SqnGroup	Sequence number group	N/A	Unsigned integer. Value range: 2 to 4294967295.

LICMGR/X1Timer

This table contains information about the X1 no-message timer.

XML structure

```
<LICMGR>
  <X1Timer>
    <NoMessage></NoMessage>
  </X1Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Timer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
NoMessage	No-message timer.	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.

LICMGR/X2Timer

This table contains information about X2 timers.

XML structure

```
<LICMGR>
  <X2Timer>
    <KeepAlive></KeepAlive>
    <Normal></Normal>
  </X2Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Timer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.

LICMGR/X3Timer

This table contains information about X3 timers.

XML structure

```
<LICMGR>
  <X3Timer>
    <Timer>
      <ConnectionID></ConnectionID>
      <KeepAlive></KeepAlive>
      <Normal></Normal>
      <Retry></Retry>
    </Timer>
  </X3Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Timer
Table type	Mutil-instance table
Row name	Timer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 31.
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.
Retry	Retry timer	N/A	Unsigned integer. Value range: 1 to 1000, in seconds.

LICMGR/X3Service

This table contains X3 service chassis and slot information.

XML structure

```
<LICMGR>
  <X3Service>
    <Chassis></Chassis>
    <Slot></Slot>
  </X3Service>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Service
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.

LICMGR/X1Connection

This table contains information about the X1 connection.

XML structure

```
<LICMGR>
  <X1Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
    <ConnectState></ConnectState>
  </X1Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Connection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.
ConnectState	State of the TCP connection.	N/A	Boolean: • **true**—Connected. • **false**—No connected.

LICMGR/X2Connection

This table contains information about the X2 connection.

XML structure

```
<LICMGR>
  <X2Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LICPort></LICPort>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X2Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Connection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

LICMGR/X3Connection

This table contains information about X3 connections.

XML structure

```
<LICMGR>
  <X3Connection>
    <Connection>
      <ConnectionID></ConnectionID>
      <LICIPAddress></LICIPAddress>
      <LICIPv6Address></LICIPv6Address>
      <LICPort></LICPort>
      <LocalIPAddress></LocalIPAddress>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
    </Connection>
  </X3Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Connection
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 31.
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

LICMGR/PacketsStatistics

This table contains lawful interception packet statistics.

XML structure

```
<LICMGR>
  <PacketsStatistics>
    <Statistic>
      <Type></Type>
      <PacketsIn></PacketsIn>
      <PacketsOut></PacketsOut>
      <BytesIn></BytesIn>
      <BytesOut></BytesOut>
    </Statistic>
  </PacketsStatistics>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	PacketsStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • **1**—X1. • **2**—X2. • **3**—X3.
PacketsIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
PacketsOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
BytesIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
BytesOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.

LICMGR/X3PacketsStatistics

This table contains X3 packet statistics.

XML structure

```
<LICMGR>
  <X3PacketsStatistics>
    <Statistic>
      <ConnectionID></ConnectionID>
      <PacketsIn></PacketsIn>
      <PacketsOut></PacketsOut>
      <BytesIn></BytesIn>
      <BytesOut></BytesOut>
      <Count></Count>
      <SuccessCount></SuccessCount>
    </Statistic>
  </X3PacketsStatistics>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3PacketsStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 31.
PacketsIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
PacketsOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
BytesIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
BytesOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
Count	LIC channel creation count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
SuccessCount	LIC channel creation success count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.

LICMGR/IntervalStatistics

This table contains periodically collected packet statistics.

XML structure

```
<LICMGR>
  <IntervalStatistics>
    <Statistic>
      <ID></ID>
      <X1PacketsIn></X1PacketsIn>
      <X1PacketsOut></X1PacketsOut>
      <X1BytesIn></X1BytesIn>
      <X1BytesOut></X1BytesOut>
      <X2PacketsIn></X2PacketsIn>
      <X2PacketsOut></X2PacketsOut>
      <X2BytesIn></X2BytesIn>
      <X2BytesOut></X2BytesOut>
      <X3PacketsIn></X3PacketsIn>
      <X3PacketsOut></X3PacketsOut>
      <X3BytesIn></X3BytesIn>
      <X3BytesOut></X3BytesOut>
      <Time></Time>
    </Statistic>
```

```
  </IntervalStatistics>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	IntervalStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Sequence number of a statistics collection interval	Index	Unsigned integer.
X1PacketsIn	X1 incoming packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X1PacketsOut	X1 outgoing packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X1BytesIn	X1 incoming byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X1BytesOut	X1 outgoing byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X2PacketsIn	X2 incoming packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X2PacketsOut	X2 outgoing packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X2BytesIn	X2 incoming byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X2BytesOut	X2 outgoing byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X3PacketsIn	X3 incoming packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X3PacketsOut	X3 outgoing packet count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X3BytesIn	X3 incoming byte count	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.
X3BytesOut	X3 outgoing byte count	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 2^{64} – 1.
Time	Time when the statistics were collected	N/A	String.

LICMGR/ControlTargets

This table contains target information.

XML structure

```
<LICMGR>
  <ControlTargets>
    <Target>
      <ID></ID>
      <Type></Type>
      <TargetIP></TargetIP>
      <TargetIPv6></TargetIPv6>
      <TargetMask></TargetMask>
      <TargetMaskSubnet></TargetMaskSubnet>
      <TargetPort></TargetPort>
      <TargetVRF></TargetVRF>
      <TargetVRFPort></TargetVRFPort>
      <VisitedIP></VisitedIP>
      <VisitedIPv6></VisitedIPv6>
      <VisitedMask></VisitedMask>
      <VisitedMaskSubnet></VisitedMaskSubnet>
      <VisitedPort></VisitedPort>
      <TransportPro></TransportPro>
      <ApplicationType></ApplicationType>
      <TargetMaskID></TargetMaskID>
    </Target>
  </ControlTargets>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	ControlTargets
Table type	Multi-instance table
Row name	Target
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	ID of intercepted target	Index	Unsigned integer.
Type	Type of information that identifies the target	N/A	Enumeration: • **1**—IP. • **2**—IP_SUBNET. • **7**—IP_PORT • **8**—VRF. • **9**—VRF_PORT.
TargetIP	Target IPv4 address	N/A	String, dotted decimal notation.
TargetIPv6	Target IPv6 address	N/A	String, hexadecimal notation.
TargetMask	Target subnet mask	N/A	String, dotted decimal notation.
TargetMaskSubnet	Target subnet mask length	N/A	Unsigned integer.
TargetPort	Target port	N/A	Unsigned integer.
TargetVRF	Target VRF	N/A	String.
TargetVRFPort	Target VRF and port	N/A	Unsigned integer.
VisitedIP	Visited IPv4 address	N/A	String, dotted decimal notation.
VisitedIPv6	Visited IPv6 address	N/A	String, hexadecimal notation.
VisitedMask	Subnet mask of the visited IP address	N/A	String, dotted decimal notation.
VisitedMaskSubnet	Subnet mask length of the visited IP address	N/A	Unsigned integer.
VisitedPort	Visited port	N/A	Unsigned integer.
TransportPro	Transport protocol	N/A	Enumeration: • **1**—All. • **2**—TCP. • **3**—UDP.
ApplicationType	Application type	N/A	Unsigned integer.
TargetMaskID	Target MaskID	N/A	String. This column depends on customize.

LICMGR/RandLength

This table contains RandLength information, depends on customize.

XML structure

```
<LICMGR>
  <RandLength>
    <RandLength></RandLength>
  </RandLength>
```

```
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	RandLength
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RandLength	The effective length of random number.	N/A	Unsigned integer. Value range: 7 to 10. The default value is 10.

LICMGR/EnhancedX1X2Security

This table contains information about securtiy algorithm used by X1 and X2 connection, depends on customize.

XML structure

```
<LICMGR>
  <EnhancedX1X2Security>
    <EnhancedX1X2Security></ EnhancedX1X2Security>
  </EnhancedX1X2Security>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	EnhancedX1X2Security
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnhancedX1X2Security	The effective algorithm used by X1 and X2 connection.	N/A	Enumeration: • **0**—3DS/sha1 • **1**—AES/sha512 The default value is 0.

LICMGR/EnhancedX3Security

This table contains information about securtiy algorithm used by X3 connection, depends on customize.

XML structure

```
<LICMGR>
  <EnhancedX3Security>
    <EnhancedX3Security></EnhancedX3Security>
  </EnhancedX3Security>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	EnhancedX3Security
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnhancedX3Security	The effective algorithm used by X3 connection.	N/A	Enumeration: • **0**—None • **1**—AES/sha512 The default value is 0.

Contents

LLDP 1
LLDP/GlobalStatus 1
XML structure 1
Table description 1
Columns 2
LLDP/Interfaces 3
XML structure 3
Table description 3
Columns 4
LLDP/IfAgents 5
XML structure 5
Table description 6
Columns 6
LLDP/TLVSelects 7
XML structure 7
Table description 8
Columns 8
LLDP/ELINumbers 11
XML structure 11
Table description 11
Columns 12
LLDP/CivicAddresses 12
XML structure 12
Table description 12
Columns 13

LLDP

LLDP/GlobalStatus

This table contains LLDP global status information.

XML structure

```
<LLDP>
  <GlobalStatus>
    <Enable></Enable>
    <CDP></CDP>
    <TxInterval></TxInterval>
    <FastInterval></FastInterval>
    <ReInitDelay></ReInitDelay>
    <NofityInterval></NofityInterval>
    <Mode></Mode>
    <MaxCredit></MaxCredit>
    <HoldMult></HoldMult>
    <FastCount></FastCount>
    <RxTimeout></RxTimeout>
    <ShowAllIFLocalInfo></ShowAllIFLocalInfo>
    <GlobalPortIdType>
      <Subtype></Subtype>
      <Enable></Enable>
    </GlobalPortIdType>
  </GlobalStatus>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable LLDP globally.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	
CDP	Whether to enable CDP.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	
TxInterval	Transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 32768. Unit: second.	The minimum member ID varies by device model.
FastInterval	Fast transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 3600. Unit: second.	
ReInitDelay	Re-initialization delay.	N/A	Unsigned integer. Value range: 1 to 10. Unit: second.	
NofityInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.	
Mode	Bridge mode.	N/A	Enumeration: • **0**—Customer bridge mode. • **1—**Service bridge mode.	
MaxCredit	Token bucket size for sending LLDP frames.	N/A	Unsigned integer. Value range: 1 to 100.	
HoldMult	TTL multiplier.	N/A	Unsigned integer. Value range: 2 to 10.	
FastCount	Number of LLDP frames transmitted within a fast transmission interval.	N/A	Unsigned integer. Value range: 1 to 8.	
RxTimeout	Set the timeout for receiving LLDPDUs.	N/A	Unsigned integer. Value range: 0, 30 to 32768. Unit: second.	
ShowAllIFLocalInfo	Whether to display all local information	N/A	Boolean: • **true**—Enable**.** • **false—**Disable.	
GlobalPortIdType	Global port ID type.	Data structure	Members include: Subtype. Enable.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Subtype	PortId type.	N/A	Enumeration: 5—Interface name.	The port ID type can only be interface name.
Enable	Whether to enable the port ID type.	N/A	Boolean: • **true**—Enable. • **false—**Disable.	

LLDP/Interfaces

This table contains LLDP interface information.

XML structure

```
<LLDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <CDP></CDP>
      <MEDTopoChange></MEDTopoChange>
      <PortIdType>
        <Subtype></Subtype>
        <Enable></Enable>
      </PortIdType>
      <SourceMacVlan></SourceMacVlan>
      <SourceMacVlan></SourceMacVlan>
      <ARPManagementAddressLearning>
        <State></State>
        <VlanID></VlanID>
      </ARPManagementAddressLearning>
      <NDManagementAddressLearning>
        <State></State>
        <VlanID></VlanID>
      </NDManagementAddressLearning>
    </Interface>
  </Interfaces>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	Interfaces
Table type	Multi-instance table

Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. Se e the product xsd before use. See Table 1 for the format.
Enable	Whether to enable the interface.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	
CDP	Whether to enable CDP compatibility.	N/A	Boolean: • **true**—Enable. CDP packets can be transmitted and received. • **false**—Disable.	
MEDTopoChange	Whether to enable LLDP-MED trapping.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	
PortIdType	Interface-specific port ID type.	Data structure	Members include: Subtype. Enable.	
Subtype	PortId type.	N/A	Enumeration: 5—Interface name.	The port ID type can only be interface name.
Enable	Whether to enable the port ID type.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	
SourceMacVlan	source mac of LLDP send packet	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ARPManagementAddressLearning	ARP management address learning configuration	Data structure	Members include: • State. • VlanID.	N/A
State	ARP management address state.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
VlanID	ARP management address vlan id	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
NDManagementAddressLearning	ND management address learning configuration	Data structure	Members include: • State. • VlanID.	N/A
State	ND management address state.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
VlanID	ND management address vlan id	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serail0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serail0/0/2</IfIndex>

LLDP/IfAgents

This table contains LLDP interface agent information.

XML structure

```
<LLDP>
  <IfAgents>
```

```
    <IfAgent>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <AdminStatus>
        <Tx></Tx>
        <Rx></Rx>
      </AdminStatus>
      <CheckChangeInterval></CheckChangeInterval>
      <Encap></Encap>
      <AddressFormat></AddressFormat>
      <RemoteChange></RemoteChange>
    </IfAgent>
  </IfAgents>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	IfAgents
Table type	Multi-instance table
Row name	IfAgent
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
IfIndex	Interface index.	Index	Unsigned integer.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: Tx. Rx.
Tx	Whether to enable the LLDP agent to only send LLDP frames.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
Rx	Whether to enable the LLDP agent to only receive LLDP frames.	N/A	Boolean: • **true**—Enable. • **false**—Disable.

Column name	Column description	Column type	Data type and restrictions
CheckChangeInterval	LLDP polling interval.	N/A	Unsigned integer. Value range: 1 to 30. Unit: second.
Encap	LLDP frame format.	N/A	Enumeration: • **0**—Ethernet II encapsulation. • **1**—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: • **0**—Number. • **1**—String.
RemoteChange	Whether to enable LLDP trapping.	N/A	Boolean: • **true**—Enable. • **false**—Disable.

LLDP/TLVSelects

This table contains LLDP TLV transmitting status information.

XML structure

```
<LLDP>
  <TLVSelects>
    <TLV>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <PortDesc></PortDesc>
      <SysName></SysName>
      <SysDesc></SysDesc>
      <SysCap></SysCap>
      <ManageAddress>
        <SubType></SubType>
        <Address></Address>
        <AddressIfName></AddressIfName>
        <Enable></Enable>
      </ManageAddress>
      <PVID></PVID>
      <ProtocolVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
      </ProtocolVLAN>
      <VLANName>
        <VLANID></VLANID>
        <Enable></Enable>
      </VLANName>
      <DCBX></DCBX>
      <LinkAgg></LinkAgg>
```

```
      <ManageVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
      </ManageVLAN>
      <EVB></EVB>
      <QCN></QCN>
      <MACPHY></MACPHY>
      <Power></Power>
      <MaxFrame></MaxFrame>
      <MEDCapability></MEDCapability>
      <NetworkPolicy></NetworkPolicy>
      <ExtPower></ExtPower>
      <Inventory></Inventory>
      <PrivateTLV>
        <ActualPower></ActualPower>
      </PrivateTLV>
    </TLV>
  </TLVSelects>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	TLVSelects
Table type	Multi-instance table
Row name	TLV
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
PortDesc	Whether to transmit port description TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.

Column name	Column description	Column type	Data type and restrictions
SysName	Whether to transmit system name TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
SysDesc	Whether to transmit system description TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
SysCap	Whether to transmit system capability TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
ManageAddress	Management address TLV information.	Data structure	Members include: SubType. AddressValue. Enable.
SubType	SubType of the management address.	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.
Address	Management address.	N/A	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
AddressIfName	Management address if name	N/A	String Length: 2 to 47 characters
Enable	Whether to transmit management address TLVs.		Boolean: • **true**—Yes. • **false**—No.
PVID	Whether to transmit port VLAN ID TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
ProtocolVLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: VLANID. Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit port and protocol VLAN ID TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
VLANName	VLAN name TLV information.	Data structure	Members include: VLANID. Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to transmit VLAN name TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
DCBX	Whether to transmit DCBX TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
LinkAgg	Whether to transmit link aggregation TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: VLANID. Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit management VLAN TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
EVB	Whether to transmit EVB TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
QCN	Whether to transmit QCN TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
MACPHY	Whether to transmit MAC/PHY configuration/status TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
Power	Whether to transmit power via MDI TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
MaxFrame	Whether to transmit max frame size TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
MEDCapability	Whether to transmit MED capability TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
NetworkPolicy	Whether to transmit network policy TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
ExtPower	Whether to transmit extended power via MDI TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.
Inventory	Whether to transmit inventory TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.

Column name	Column description	Column type	Data type and restrictions
PrivateTLV	H3C-proprietary TLV.	Data structure	Members include: • ActualPower.
ActualPower	Actual power.	N/A	Boolean: • **true**—Yes. • **false**—No.

LLDP/ELINumbers

This table contains information about LLDP emergency location identification numbers.

XML structure

```
<LLDP>
  <ELINumbers>
    <ELIN>
      <IfIndex></IfIndex>
      <ELINumber></ELINumber>
      <Enable></Enable>
    </ELIN>
  </ELINumbers>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	ELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ELINumber	Emergency location identification number.	N/A	Numberic String. Length: 10 to 25 characters.	
Enable	Whether to transmit location ID TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.	

LLDP/CivicAddresses

This table contains information about LLDP civic addresses.

XML structure

```
<LLDP>
  <CivicAddresses>
    <CivicAddress>
      <IfIndex></IfIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>            <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
      <Enable></Enable>
    </CivicAddress>
  </CivicAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	CivicAddresses
Table type	Multi-instance table
Row name	CivicAddress

Restrictions	The sequence of column attributes must be consistent with the table's definition.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
DeviceType	Device type.	N/A	Enumeration: • **0**—DHCP Server. • **1**—Network device. • **2**—MED endpoint.	
CountryCode	Country code.	N/A	String. Length: 2 characters. Letters in the string should be uppercased.	
CA	Civic address information.	Data structure	Members include: Type. Value.	
Type	Civic address type.	N/A	Unsigned integer. Value range: 0 to 255.	
Value	Civic address.	N/A	String. Length: 1 to 250 characters.	
Enable	Whether to transmit location ID TLVs.	N/A	Boolean: • **true**—Yes. • **false**—No.	

Contents

LLDP 1

LLDP/LLDPNeighbors 1
XML structure 1
Table description 1
Columns 1
LLDP/CDPNeighbors 2
XML structure 2
Table description 2
Columns 3
LLDP/GlobalStatus 3
XML structure 3
Table description 4
Columns 4
LLDP/SysCaps 6
XML structure 6
Table description 7
Columns 7
LLDP/Inventory 9
XML structure 9
Table description 9
Columns 9
LLDP/GlobalStatistics 10
XML structure 10
Table description 10
Columns 10
LLDP/Interfaces 11
XML structure 11
Table description 11
Columns 12
LLDP/IfAgents 13
XML structure 13
Table description 13
Columns 14
LLDP/TLVSelects 15
XML structure 15
Table description 16
Columns 16
LLDP/ELINumbers 19
XML structure 19
Table description 19
Columns 20
LLDP/CivicAddresses 20
XML structure 20
Table description 20
Columns 21
LLDP/IfStatistics 21
XML structure 21
Table description 22
Columns 22
LLDP/NbBasicInfos 23
XML structure 23
Table description 24
Columns 24
LLDP/NbSysCaps 25
XML structure 25
Table description 26
Columns 27

LLDP/NbManageAddresses 28
XML structure 28
Table description 29
Columns 29
LLDP/NbDot1Infos 30
XML structure 31
Table description 31
Columns 31
LLDP/NbProtocolVLANs 32
XML structure 32
Table description 33
Columns 33
LLDP/NbVLANNames 34
XML structure 34
Table description 34
Columns 34
LLDP/NbDot3Infos 35
XML structure 35
Table description 35
Columns 36
LLDP/NbMEDInfos 37
XML structure 37
Table description 38
Columns 38
LLDP/NbELINumbers 39
XML structure 39
Table description 40
Columns 40
LLDP/NbCivicAddresses 40
XML structure 40
Table description 41
Columns 41
LLDP/NbNetworkPolicies 41
XML structure 42
Table description 42
Columns 42
LLDP/NbUnknownBasicTLVs 43
XML structure 43
Table description 44
Columns 44
LLDP/NbUnknownOrgTLVs 45
XML structure 45
Table description 45
Columns 45
LLDP/LocalBasicInfos 46
XML structure 46
Table description 46
Columns 47
LLDP/LocalManageAddresses 47
XML structure 47
Table description 48
Columns 48
LLDP/LocalDot1Infos 49
XML structure 49
Table description 49
Columns 50
LLDP/LocalDot3Infos 51
XML structure 51
Table description 51
Columns 52
LLDP/LocalMEDInfos 53
XML structure 53

Table description 53
Columns 54
LLDP/CustomizedFeature 55
XML structure 55
Table description 55
Columns 56

LLDP

LLDP/LLDPNeighbors

This table contains LLDP neighbor information.

XML structure

```
<LLDP>
  <LLDPNeighbors>
    <LLDPNeighbor>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <SystemName></SystemName>
      <ChassisId></ChassisId>
      <PortId></PortId>
      <IfName></IfName>
    </LLDPNeighbor>
  </LLDPNeighbors>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LLDPNeighbors
Table type	Multi-instance table
Row name	LLDPNeighbor
Restrictions	This table supports only Ethernet interfaces that support LLDP.

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
SystemName	System name	N/A	String.

			Length: 0 to 255 characters.
ChassisId	Chassis name	N/A	String. Length: 0 to 255 characters.
PortId	Neighbor port name	N/A	String. Length: 0 to 255 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/CDPNeighbors

This table contains CDP neighbor information.

XML structure

```
<LLDP>
  <CDPNeighbors>
    <CDPNeighbor>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <ChassisId></ChassisId>
      <PortId></PortId>
      <ManageAddress></ManageAddress>
      <SoftwareVersion></SoftwareVersion>
      <PlatformVersion></PlatformVersion>
      <Duplex></Duplex>
      <TTL></TTL>
      <IfName></IfName>
    </CDPNeighbor>
  </CDPNeighbors>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	CDPNeighbors
Table type	Multi-instance table
Row name	CDPNeighbor
Restrictions	This table supports only Ethernet interfaces that support CDP.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.	N/A
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	N/A
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.	N/A
ChassisId	Chassis name	N/A	String. Length: 0 to 255 characters.	N/A
PortId	Port name	N/A	String. Length: 0 to 255 characters.	N/A
ManageAddress	Management address	N/A	String. Length: 0 to 31 characters.	Only IPv4 addresses are supported.
SoftwareVersion	Software version	N/A	String. Length: 0 to 255 characters.	N/A
PlatformVersion	Platform version	N/A	String. Length: 0 to 255 characters.	N/A
Duplex	Duplex type	N/A	Unsigned integer. Length: 8 bits. Enumeration: • **0**—Half duplex. • **1**—Full duplex. • Others—Unknown.	N/A
TTL	Time to live	N/A	Unsigned integer. Length: 8 bits.	N/A
IfName	Interface name	N/A	String. Length: 0 to 47 characters.	N/A

LLDP/GlobalStatus

This table contains LLDP global status information.

XML structure

```
<LLDP>
  <GlobalStatus>
```

```
    <Enable></Enable>
    <CDP></CDP>
    <TxInterval></TxInterval>
    <FastInterval></FastInterval>
    <ReInitDelay></ReInitDelay>
    <NofityInterval></NofityInterval>
    <Mode></Mode>
    <MaxCredit></MaxCredit>
    <HoldMult></HoldMult>
    <FastCount></FastCount>
    <RxTimeout></RxTimeout>
    <ShowAllIFLocalInfo></ShowAllIFLocalInfo>
    <GlobalPortIdType>
      <Subtype></Subtype>
      <Enable></Enable>
    </GlobalPortIdType>
    <ChassisID>
      <SubType></SubType>
      <ID></ID>
      <IDValue></IDValue>
    </ChassisID>
    <SystemName></SystemName>
    <SystemDesc></SystemDesc>
    <DeviceClass></DeviceClass>
  </GlobalStatus>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether LLDP is enabled globally.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	

Column name	Column description	Column type	Data type and restrictions	Remarks
CDP	Whether CDP is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	
TxInterval	Transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 32768. Unit: second.	The minimum member ID varies by device model.
FastInterval	Fast transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 3600. Unit: second.	
ReInitDelay	Re-initialization delay.	N/A	Unsigned integer. Value range: 1 to 10. Unit: second.	
NofityInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.	
Mode	Bridge mode.	N/A	Enumeration: • **0**—Customer bridge mode. • **1**—Service bridge mode.	
MaxCredit	Token bucket size for sending LLDP frames.	N/A	Unsigned integer. Value range: 1 to 100.	
HoldMult	TTL multiplier.	N/A	Unsigned integer. Value range: 2 to 10.	
FastCount	Number of fast transmitted LLDP frames.	N/A	Unsigned integer. Value range: 1 to 8.	
RxTimeout	Set the timeout for receiving LLDPDUs.	N/A	Unsigned integer. Value range: 0, 30 to 32768. Unit: second.	
ShowAllIFLocalInfo	Whether to display all local information	N/A	Boolean: • **true**—Enable. • **false—Disable.**	
GlobalPortIdType	Global port ID type.	Data structure	Members include: • Subtype. • **Enable.**	
Subtype	PortId type.	N/A	Enumeration: • **5—Interface name.**	The port ID type can only be interface name.
Enable	Whether to enable the port ID type.	N/A	Boolean: • **true**—Enable. • **false—Disable.**	

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	Chassis identifier information.	Data structure	Members include: • SubType. • ID. • IDValue.	
SubType	Chassis ID subtype.	N/A	Enumeration: • **0**—Reserved. • **1**—Chassis component. • **2**—Interface alias. • **3**—Port component. • **4**—MAC address. • **5**—Network address. • **6**—Interface name. • **7**—Locally assigned.	
ID	Chassis ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the chassis ID subtype.	
IDValue	Chassis ID value.	N/A	String. Length: 0 to 255 characters.	Chassis ID string.
SystemName	System name.	N/A	String. Length: 0 to 255 characters.	
SystemDesc	System description.	N/A	String. Length: 0 to 255 characters.	
DeviceClass	MED device class.	N/A	Enumeration: • **1**—Class I. • **2**—Class II. • **3**—Class III. • **4**—Connectivity device.	

LLDP/SysCaps

This table contains LLDP system capability information.

XML structure

```
<LLDP>
  <SysCaps>
    <Support>
      <Other></Other>
      <Repeater></Repeater>
      <Bridge></Bridge>
      <WLANAccessPoint></WLANAccessPoint>
      <Router></Router>
      <Telephone></Telephone>
      <DocsisCableDevice></DocsisCableDevice>
```

```
      <StationOnly></StationOnly>
      <CustomerBridge></CustomerBridge>
      <ServiceBridge></ServiceBridge>
      <TPMR></TPMR>
    </Support>
    <Enable>
      <Other></Other>
      <Repeater></Repeater>
      <Bridge></Bridge>
      <WLANAccessPoint></WLANAccessPoint>
      <Router></Router>
      <Telephone></Telephone>
      <DocsisCableDevice></DocsisCableDevice>
      <StationOnly></StationOnly>
      <CustomerBridge></CustomerBridge>
      <ServiceBridge></ServiceBridge>
      <TPMR></TPMR>
    </Enable>
  </SysCaps>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	SysCaps
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
Support	Supported capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.

Column name	Column description	Column type	Data type and restrictions
Other	Whether capabilities out of the list are supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Bridge	Whether bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Router	Whether router is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
TPMR	Whether TPMR is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.

LLDP/Inventory

This table contains LLDP inventory information.

XML structure

```
<LLDP>
  <Inventory>
    <HardwareRev></HardwareRev>
    <FirmwareRev></FirmwareRev>
    <SoftwareRev></SoftwareRev>
    <SerialNum></SerialNum>
    <Manufacturer></Manufacturer>
    <ModelName></ModelName>
    <AssetID></AssetID>
  </Inventory>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	Inventory
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
HardwareRev	Hardware revision	N/A	String. Length: 0 to 255 characters.
FirmwareRev	Firmware revision	N/A	String. Length: 0 to 255 characters.
SoftwareRev	Software revision	N/A	String. Length: 0 to 255 characters.
SerialNum	Serial number	N/A	String. Length: 0 to 255 characters.
Manufacturer	Manufacturer name	N/A	String. Length: 0 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
ModelName	Model name	N/A	String. Length: 0 to 255 characters.
AssetID	Asset identifier	N/A	String. Length: 0 to 255 characters.

LLDP/GlobalStatistics

This table contains LLDP global statistics information.

XML structure

```
<LLDP>
  <GlobalStatistics>
    <LastUpdate></LastUpdate>
    <NbAdd></NbAdd>
    <NbDelete></NbDelete>
    <NbDrop></NbDrop>
    <NbAged></NbAged>
  </GlobalStatistics>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LastUpdate	Time when the most recent neighbor was updated	N/A	Unsigned integer. Length: 32 bits. Unit: second.
NbAdd	Total number of added neighbors	N/A	Unsigned integer. Length: 32 bits.
NbDelete	Total number of deleted neighbors	N/A	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
NbDrop	Total number of dropped neighbors	N/A	Unsigned integer. Length: 32 bits.
NbAged	Total number of aged-out neighbors	N/A	Unsigned integer. Length: 32 bits.

LLDP/Interfaces

This table contains LLDP interface information.

XML structure

```
<LLDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <CDP></CDP>
      <MEDTopoChange></MEDTopoChange>
      <PortIdType>
        <Subtype></Subtype>
        <Enable></Enable>
      </PortIdType>
      <SourceMacVlan></SourceMacVlan>
      <ARPManagementAddressLearning>
        <State></State>
        <VlanID></VlanID>
      </ARPManagementAddressLearning>
      <NDManagementAddressLearning>
        <State></State>
        <VlanID></VlanID>
      </NDManagementAddressLearning>
      <IfName></IfName>
    </Interface>
  </Interfaces>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
Enable	Whether the interface is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
CDP	Whether CDP compatibility is enabled.	N/A	Boolean: • **true**—Enabled. CDP packets can be transmitted and received. • **false**—Disabled.
MEDTopoChange	Whether LLDP-MED trapping is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
PortIdType	Interface-specific port ID type.	Data structure	Members include: • Subtype. • Enable.
Subtype	PortId type.	N/A	Enumeration: • 5—Interface name.
Enable	Whether to enable the port ID type.	N/A	Boolean: • **true**—Enable. • false—Disable.
SourceMacVlan	source mac of LLDP send packet	N/A	Unsigned integer. Value range: 1 to 4094.
ARPManagementAddressLearning	ARP management address learning configuration	Data structure	Members include: • State. • VlanID.
State	ARP management address state.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
VlanID	ARP management address vlan id	N/A	Unsigned integer. Value range: 1 to 4094.
NDManagementAddressLearning	ND management address learning configuration	Data structure	Members include: • State. • VlanID.
State	ND management address state.	N/A	Boolean: • **true**—Enable. • **false**—Disable.

Column name	Column description	Column type	Data type and restrictions
VlanID	ND management address vlan id	N/A	Unsigned integer. Value range: 1 to 4094.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/IfAgents

This table contains LLDP interface agent information.

XML structure

```
<LLDP>
  <IfAgents>
    <IfAgent>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <AdminStatus>
        <Tx></Tx>
        <Rx></Rx>
      </AdminStatus>
      <CheckChangeInterval></CheckChangeInterval>
      <Encap></Encap>
      <AddressFormat></AddressFormat>
      <RemoteChange></RemoteChange>
      <LLDPNbNum></LLDPNbNum>
      <CDPNbNum></CDPNbNum>
      <MEDNbNum></MEDNbNum>
      <OptionalTLVNum></OptionalTLVNum>
      <UnknownTLVNum></UnknownTLVNum>
      <IfName></IfName>
    </IfAgent>
  </IfAgents>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	IfAgents
Table type	Multi-instance table
Row name	IfAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: • Tx. • Rx.
Tx	Whether an LLDP interface agent can only send LLDP frames.	N/A	Boolean: • **true**—Yes. • **false**—No.
Rx	Whether an LLDP interface agent can only receive LLDP frames.	N/A	Boolean: • **true**—Yes. • **false**—No.
CheckChangeInterval	LLDP polling interval.	N/A	Unsigned integer. Value range: 0 to 30. Unit: second.
Encap	LLDP frame format.	N/A	Enumeration: • **0**—Ethernet II encapsulation. • **1**—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: • **0**—Number. • **1**—String.
RemoteChange	Whether LLDP trapping is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
LLDPNbNum	Total number of LLDP neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.
CDPNbNum	Total number of CDP neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.
MEDNbNum	Total number of MED neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.
OptionalTLVNum	Total number of optional TLVs in the most recently transmitted LLDP frame.	N/A	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
UnknownTLVNum	Total number of unknown TLVs received in all LLDP frames.	N/A	Unsigned integer. Length: 32 bits.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/TLVSelects

This table contains LLDP TLV transmitting status information.

XML structure

```
<LLDP>
  <TLVSelects>
    <TLV>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <PortDesc></PortDesc>
      <SysName></SysName>
      <SysDesc></SysDesc>
      <SysCap></SysCap>
      <ManageAddress>
        <SubType></SubType>
        <Address></Address>
        <AddressIfName></AddressIfName>
        <AddressValue></AddressValue>
        <Enable></Enable>
      </ManageAddress>
      <PVID></PVID>
      <ProtocolVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
      </ProtocolVLAN>
      <VLANName>
        <VLANID></VLANID>
        <Enable></Enable>
      </VLANName>
      <DCBX></DCBX>
      <LinkAgg></LinkAgg>
      <ManageVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
      </ManageVLAN>
      <EVB></EVB>
```

```
      <QCN></QCN>
      <MACPHY></MACPHY>
      <Power></Power>
      <MaxFrame></MaxFrame>
      <MEDCapability></MEDCapability>
      <NetworkPolicy></NetworkPolicy>
      <ExtPower></ExtPower>
      <Inventory></Inventory>
      <IfName></IfName>
      <PrivateTLV>
        <ActualPower></ActualPower>
      </PrivateTLV>
    </TLV>
  </TLVSelects>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	TLVSelects
Table type	Multi-instance table
Row name	TLV
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
PortDesc	Whether the transmission of port description TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
SysName	Whether the transmission of system name TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
SysDesc	Whether the transmission of system description TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
SysCap	Whether the transmission of system capability TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ManageAddress	Management address TLV information.	Data structure	Members include: • SubType. • Address. • AddressValue. • Enable.
SubType	Subtype of the management address.	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.
Address	Management address.	N/A	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
AddressIfName	Management address if name	N/A	String Length: 2 to 47 characters
AddressValue	Management address value.	N/A	String. Length: 0 to 64 characters.
Enable	Whether the transmission of management address TLVs is enabled.		Boolean: • **true**—Enabled. • **false**—Disabled.
PVID	Whether the transmission of port VLAN ID TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ProtocolVLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: • VLANID. • Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of port and protocol VLAN ID TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
VLANName	VLAN name TLV information.	Data structure	Members include: • VLANID. • Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of VLAN name TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
DCBX	Whether the transmission of DCBX TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
LinkAgg	Whether the transmission of link aggregation TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: • VLANID. • Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of management VLAN TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
EVB	Whether the transmission of EVB TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
QCN	Whether the transmission of QCN TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MACPHY	Whether the transmission of MAC/PHY configuration/status TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
Power	Whether the transmission of power via MDI TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MaxFrame	Whether the transmission of max frame size TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MEDCapability	Whether the transmission of MED capability TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
NetworkPolicy	Whether the transmission of network policy TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ExtPower	Whether the transmission of extended power via MDI TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
Inventory	Whether the transmission of inventory TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.
PrivateTLV	H3C-proprietary TLV.	Data structure	Members include: • ActualPower.
ActualPower	Actual power.	N/A	Boolean: • true. • false.

LLDP/ELINumbers

This table contains information about LLDP emergency location identification numbers.

XML structure

```
<LLDP>
  <ELINumbers>
    <ELIN>
      <IfIndex></IfIndex>
      <ELINumber></ELINumber>
      <Enable></Enable>
      <IfName></IfName>
    </ELIN>
  </ELINumbers>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	ELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
ELINumber	Emergency location identification number.	N/A	Numberic String. Length: 10 to 25 characters.
Enable	Whether the transmission of location ID TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/CivicAddresses

This table contains LLDP civic address information.

XML structure

```
<LLDP>
  <CivicAddresses>
    <CivicAddress>
      <IfIndex></IfIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>            <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
      <Enable></Enable>
      <IfName></IfName>
    </CivicAddress>
  </CivicAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	CivicAddresses
Table type	Multi-instance table
Row name	CivicAddress

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
DeviceType	Device type.	N/A	Enumeration: • **0**—DHCP Server. • **1**—Network device. • **2**—MED endpoint.
CountryCode	Country code.	N/A	String. Length: 2 characters. Letters in the string should be uppercased.
CA	Civic address information.	Data structure	Members include: • Type. • Value.
Type	Civic address type.	N/A	Unsigned integer. Value range: 0 to 255.
Value	Civic address.	N/A	String. Length: 0 to 250 characters.
Enable	Whether the transmission of location ID TLVs is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/IfStatistics

This table contains LLDP interface statistics information.

XML structure

```
<LLDP>
  <IfStatistics>
    <Stats>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <TxFrameNum></TxFrameNum>
      <RxFrameNum></RxFrameNum>
      <DiscardFrameNum></DiscardFrameNum>
      <ErrorFrameNum></ErrorFrameNum>
      <DiscardTLVNum></DiscardTLVNum>
```

```
      <UnknownTLVNum></UnknownTLVNum>
      <AgedNbNum></AgedNbNum>
      <TxCDPFrameNum></TxCDPFrameNum>
      <RxCDPFrameNum></RxCDPFrameNum>
      <DiscardCDPFrameNum></DiscardCDPFrameNum>
      <ErrorCDPFrameNum></ErrorCDPFrameNum>
      <IfName></IfName>
    </Stats>
  </IfStatistics>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	IfStatistics
Table type	Multi-instance table
Row name	Stats
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
TxFrameNum	The number of transmitted LLDP frames	N/A	Unsigned integer. Length: 32 bits.
RxFrameNum	The number of received LLDP frames	N/A	Unsigned integer. Length: 32 bits.
DiscardFrameNum	The number of discarded LLDP frames	N/A	Unsigned integer. Length: 32 bits.
ErrorFrameNum	The number of LLDP error frames	N/A	Unsigned integer. Length: 32 bits.
DiscardTLVNum	The number of discarded LLDP TLVs	N/A	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
UnknownTLVNum	The number of unknown LLDP TLVs	N/A	Unsigned integer. Length: 32 bits.
AgedNbNum	The number of aged-out LLDP neighbors	N/A	Unsigned integer. Length: 32 bits.
TxCDPFrameNum	The number of transmitted CDP frames	N/A	Unsigned integer. Length: 32 bits.
RxCDPFrameNum	The number of received CDP frames	N/A	Unsigned integer. Length: 32 bits.
DiscardCDPFrameNum	The number of discarded CDP frames	N/A	Unsigned integer. Length: 32 bits.
ErrorCDPFrameNum	The number of CDP error frames	N/A	Unsigned integer. Length: 32 bits.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbBasicInfos

This table contains basic information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbBasicInfos>
    <BasicInfo>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <ChassisID>
        <SubType></SubType>
        <ID></ID>
        <IDValue></IDValue>
      </ChassisID>
      <PortID>
        <SubType></SubType>
        <ID></ID>
        <IDValue></IDValue>
      </PortID>
      <TTL></TTL>
      <PortDesc></PortDesc>
      <SystemName></SystemName>
```

```
      <SystemDesc></SystemDesc>
      <IfName></IfName>
    </BasicInfo>
  </NbBasicInfos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbBasicInfos
Table type	Multi-instance table
Row name	BasicInfo
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
ChassisID	Chassis identifier information	Data structure	Members include: • SubType. • ID. • IDValue.
SubType	Subtype of the chassis ID	N/A	Enumeration: • **0**—Reserved. • **1**—Chassis component. • **2**—Interface alias. • **3**—Port component. • **4**—MAC address. • **5**—Network address. • **6**—Interface name. • **7**—Locally assigned.

Column name	Column description	Column type	Data type and restrictions
ID	Chassis ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the chassis ID subtype.
IDValue	Chassis ID value	N/A	String. Length: 0 to 255 characters.
PortID	Port identifier information	Data structure	Members include: • SubType. • ID. • IDValue.
SubType	Subtype of the port ID	N/A	Enumeration: • **0**—Reserved. • **1**—Interface alias. • **2**—Port component. • **3**—MAC address. • **4**—Network address. • **5**—Interface name. • **6**—Agent circuit ID. • **7**—Locally assigned.
ID	Port ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the port ID subtype.
IDValue	Port ID value	N/A	String. Length: 0 to 255 characters.
TTL	Time to Live	N/A	Unsigned integer. Length: 32 bits.
PortDesc	Port description	N/A	String. Length: 0 to 255 characters.
SystemName	System name	N/A	String. Length: 0 to 255 characters.
SystemDesc	System description	N/A	String. Length: 0 to 255 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbSysCaps

This table contains information about the system capabilities of LLDP neighbors.

XML structure

```
<LLDP>
```

```
  <NbSysCaps>
    <SysCap>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <Support>
        <Other></Other>
        <Repeater></Repeater>
        <Bridge></Bridge>
        <WLANAccessPoint></WLANAccessPoint>
        <Router></Router>
        <Telephone></Telephone>
        <DocsisCableDevice></DocsisCableDevice>
        <StationOnly></StationOnly>
        <CustomerBridge></CustomerBridge>
        <ServiceBridge></ServiceBridge>
        <TPMR></TPMR>
      </Support>
      <Enable>
        <Other></Other>
        <Repeater></Repeater>
        <Bridge></Bridge>
        <WLANAccessPoint></WLANAccessPoint>
        <Router></Router>
        <Telephone></Telephone>
        <DocsisCableDevice></DocsisCableDevice>
        <StationOnly></StationOnly>
        <CustomerBridge></CustomerBridge>
        <ServiceBridge></ServiceBridge>
        <TPMR></TPMR>
      </Enable>
      <IfName></IfName>
    </SysCap>
  </NbSysCaps>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbSysCaps
Table type	Multi-instance table
Row name	SysCap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
Support	Supported capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.
Other	Whether capabilities out of the list are supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Bridge	Whether bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Router	Whether router is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.

Column name	Column description	Column type	Data type and restrictions
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
TPMR	Whether TPMR is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbManageAddresses

This table contains information about the management addresses of LLDP neighbors.

XML structure

```
<LLDP>
  <NbManageAddresses>
    <ManageAddress>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <SubType></SubType>
      <Address></Address>
```

```
      <AddressValue></AddressValue>
      <InterfaceType></InterfaceType>
      <InterfaceID></InterfaceID>
      <IfName></IfName>
    </ManageAddress>
  </NbManageAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbManageAddresses
Table type	Multi-instance table
Row name	ManageAddress
Restrictions	None.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
SubType	Subtype of the management address	Index	Enumeration: • **0**—Other. • **1**—IPv4. • **2**—IPv6. • **3**—NSAP. • **4**—HDLC. • **5**—BBN1822. • **6**—All802. • **7**—E163. • **8**—E164. • **9**—F69. • **10**—X121. • **11**—IPX. • **12**—AppleTalk. • **13**—DECNetIV. • **14**—BanyanVines. • **15**—E164WithNSAP. • **16**—DNS. • **17**—DistinguishedName. • **18**—ASNumber. • **19**—XTPoverIPv4. • **20**—XTPoverIPv6. • **21**—XTPNativeModeXTP. • **22**—FibreChannelWWPN. • **23**—FibreChannelWWNN. • **24**—GWID.
Address	Management address	Index	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
AddressValue	Management address value	N/A	String. Length: 0 to 64 characters.
InterfaceType	Interface type	N/A	Enumeration: • **1**—Unknown. • **2**—IfIndex. • **3**—PortIndex.
InterfaceID	Interface ID	N/A	Unsigned integer. Length: 32 bits.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbDot1Infos

This table contains the IEEE 802.1 organizationally specific information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbDot1Infos>
    <Dot1Info>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <PVID></PVID>
      <ManageVLAN></ManageVLAN>
      <ProtocolID></ProtocolID> <!-- Repeatable  -->
      <LinkAgg>
        <Support></Support>
        <Enable></Enable>
        <PortIndex></PortIndex>
      </LinkAgg>
      <VIDUsage></VIDUsage>
      <IfName></IfName>
    </Dot1Info>
  </NbDot1Infos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbDot1Infos
Table type	Multi-instance table
Row name	Dot1Info
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.	N/A
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.	N/A
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.	N/A
PVID	Neighbor interface PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ManageVLAN	Management VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ProtocolID	Protocol ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the protocol.	Repeatable
LinkAgg	Link aggregation information.	Data structure	Members include: • Support. • Enable. • PortIndex.	N/A
Support	Whether link aggregation is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
Enable	Whether link aggregation is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
PortIndex	Member port ID.	N/A	Unsigned integer. Length: 32 bits.	N/A
VIDUsage	VID usage digest.	N/A	Base64 Binary. Length: 4 octets.	N/A
IfName	Interface name	N/A	String. Length: 0 to 47 characters.	N/A

LLDP/NbProtocolVLANs

This table contains information about the protocol VLANs of LLDP neighbors.

XML structure

```
<LLDP>
  <NbProtocolVLANs>
    <NbProtocolVLAN>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
```

```
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <VLANID></VLANID>
      <Support></Support>
      <Enable></Enable>
      <IfName></IfName>
    </NbProtocolVLAN>
  </NbProtocolVLANs>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbProtocolVLANs
Table type	Multi-instance table
Row name	NbProtocolVLAN
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
VLANID	Protocol VLAN ID.	Index	Unsigned integer. Value range: 0 to 4094.
Support	Whether protocol VLAN is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbVLANNames

This table contains information about the VLAN names of LLDP neighbors.

XML structure

```
<LLDP>
  <NbVLANNames>
    <NbVLANName>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <VLANID></VLANID>
      <VLANName></VLANName>
      <IfName></IfName>
    </NbVLANName>
  </NbVLANNames>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbVLANNames
Table type	Multi-instance table
Row name	NbVLANName
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
VLANName	VLAN name	N/A	String. Length: 0 to 32 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbDot3Infos

This table contains the IEEE 802.3 organizationally specific information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbDot3Infos>
    <Dot3Info>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <MACPHY>
        <AutoNegSupport></AutoNegSupport>
        <AutoNegEnable></AutoNegEnable>
        <MAU></MAU>
      </MACPHY>
      <MaxFrameSize></MaxFrameSize>
      <Power>
        <PortClass></PortClass>
        <Support></Support>
        <Enable></Enable>
        <Pairs></Pairs>
        <PairsCtrlAbility></PairsCtrlAbility>
        <Classification></Classification>
      </Power>
      <IfName></IfName>
    </Dot3Info>
  </NbDot3Infos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbDot3Infos

Table type	Multi-instance table
Row name	Dot3Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
MACPHY	MAC/PHY configuration/status information.	Data structure	Members include: • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MAU	Operational media attachment unit type.	N/A	Unsigned integer. Length: 32 bits.
MaxFrameSize	Maximum frame size.	N/A	Unsigned integer. Length: 32 bits.
Power	Power over MDI information.	Data structure	Members include: • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: • **0**—PD. • **1**—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Whether PSE MDI power is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
Pairs	Power supply mode.	N/A	Enumeration: • **1**—Over signal wires. • **2**—Over spare wires.
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: • **true**—Yes. • **false**—No.
Classification	Power class.	N/A	Enumeration: • **1**—Class0. • **2**—Class1. • **3**—Class2. • **4**—Class3. • **5**—Class4.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbMEDInfos

This table contains the MED organizationally specific information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbMEDInfos>
    <MEDInfo>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <DeviceClass></DeviceClass>
      <Inventory>
        <HardwareRev></HardwareRev>
        <FirmwareRev></FirmwareRev>
        <SoftwareRev></SoftwareRev>
        <SerialNum></SerialNum>
        <Manufacturer></Manufacturer>
        <ModelName></ModelName>
        <AssetID></AssetID>
      </Inventory>
      <ExtPower>
        <Source></Source>
        <Priority></Priority>
        <Value></Value>
      </ExtPower>
      <IfName></IfName>
    </MEDInfo>
  </NbMEDInfos>
```

```
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbMEDInfos
Table type	Multi-instance table
Row name	MEDInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
DeviceClass	MED device class	N/A	Enumeration: • **1**—Class I. • **2**—Class II. • **3**—Class III. • **4**—Connectivity device.
Inventory	Device inventory information	Data structure	Members include: • HardwareRev. • FirmwareRev. • SoftwareRev. • SerialNum. • Manufacturer. • ModelName. • AssetID.
HardwareRev	Hardware revision	N/A	String. Length: 0 to 255 characters.
FirmwareRev	Firmware revision	N/A	String. Length: 0 to 255 characters.
SoftwareRev	Software revision	N/A	String. Length: 0 to 255 characters.
SerialNum	Serial number	N/A	String. Length: 0 to 255 characters.
Manufacturer	Manufacturer name	N/A	String. Length: 0 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
ModelName	Model name	N/A	String. Length: 0 to 255 characters.
AssetID	Asset ID	N/A	String. Length: 0 to 255 characters.
ExtPower	Extended power via MDI information	Data structure	Members include: • Source. • Priority. • Value.
Source	PSE power source	N/A	Enumeration: • **0**—Unknown. • **1**—Primary. • **2**—Backup.
Priority	Power priority	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Low.
Value	Power value	N/A	Unsigned integer. Length: 32 bits. Unit: milliwatt.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbELINumbers

This table contains information about the MED emergency location identification numbers of LLDP neighbors.

XML structure

```
<LLDP>
  <NbELINumbers>
    <ELIN>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <ELINumber></ELINumber>
      <IfName></IfName>
    </ELIN>
  </NbELINumbers>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
ElinNumber	Emergency location identification number	N/A	String. Length: 10 to 25 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbCivicAddresses

This table contains information about the MED civic addresses of LLDP neighbors.

XML structure

```
<LLDP>
  <NbCivicAddresses>
    <CivicAddress>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>   <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
      <IfName></IfName>
```

```
    </CivicAddress>
  </NbCivicAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbCivicAddresses
Table type	Multi-instance table
Row name	CivicAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
DeviceType	Device type	N/A	Enumeration: • **0**—DHCP Server. • **1**—Network device. • **2**—MED endpoint.
CountryCode	Country code	N/A	String. Length: 2 characters.
CA	Civic address information	Data structure	Members include: • Type. • Value.
Type	Civic address type	N/A	Unsigned integer. Value range: 0 to 255.
Value	Civic address	N/A	String. Length: 0 to 250 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbNetworkPolicies

This table contains information about the MED network policies of LLDP neighbors.

XML structure

```
<LLDP>
  <NbNetworkPolicies>
    <NetworkPolicy>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <Application> <!-- Repeatable -->
        <AppType></AppType>
        <UnknownFlag></UnknownFlag>
        <TagFlag></TagFlag>
        <VLANID></VLANID>
        <L2priority></L2priority>
        <DSCP></DSCP>
      </Application>
      <IfName></IfName>
    </NetworkPolicy>
  </NbNetworkPolicies>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbNetworkPolicies
Table type	Multi-instance table
Row name	NetworkPolicy
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
Application	Application information.	Data structure	Members include: • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: • **1**—Voice. • **2**—Voice Signaling. • **3**—Guest Voice. • **4**—Guest Voice Signaling. • **5**—Softphone Voice. • **6**—Video Conferencing. • **7**—Streaming Video. • **8**—Video Signaling.
UnknownFlag	Whether the application is unknown.	N/A	Boolean: • **true**—Yes. • **false**—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: • **true**—Yes. • **false**—No.
VLANID	Network policy VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4095.
L2priority	Layer 2 priority	N/A	Unsigned integer. Value range: 0 to 7.
DSCP	DSCP value.	N/A	Unsigned integer. Value range: 0 to 63.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbUnknownBasicTLVs

This table contains information about the unknown basic TLVs of LLDP neighbors.

XML structure

```
<LLDP>
  <NbUnknownBasicTLVs>
    <UnknownBasicTLV>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
```

```
      <TLV>  <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </TLV>
      <IfName></IfName>
    </UnknownBasicTLV>
  </NbUnknownBasicTLVs>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbUnknownBasicTLVs
Table type	Multi-instance table
Row name	UnknownBasicTLV
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
TLV	TLV information	Data structure	Member Include: • Type • Value
Type	TLV type	N/A	Unsigned integer. Length: 8 bits. Value range: 0 to 126.
Value	TLV value	N/A	Base64 Binary. Length: 0 to 511 octets.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/NbUnknownOrgTLVs

This table contains information about the unknown organizationally specific TLVs of LLDP neighbors.

XML structure

```
<LLDP>
  <NbUnknownOrgTLVs>
    <UnknownOrgTLV>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <TLV>   <!-- Repeatable -->
        <OUI></OUI>
        <SubType></SubType>
        <Value></Value>
      </TLV>
      <IfName></IfName>
    </UnknownOrgTLV>
  </NbUnknownOrgTLVs>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbUnknownOrgTLVs
Table type	Multi-instance table
Row name	UnknownOrgTLV
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.

Column name	Column description	Column type	Data type and restrictions
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
TLV	TLV information	Data structure	Member Include: • OUI • SubType • Value
OUI	Organizationally unique identifier	N/A	Base64 Binary.
SubType	TLV subtype	N/A	Unsigned integer. Length: 8 bits. Value range: 0 to 255.
Value	TLV value	N/A	Base64 Binary. Length: 0 to 511 octets.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/LocalBasicInfos

This table contains basic information about local interfaces.

XML structure

```
<LLDP>
  <LocalBasicInfos>
    <BasicInfo>
      <IfIndex></IfIndex>
      <PortID>
        <SubType></SubType>
        <ID></ID>
        <IDValue></IDValue>
      </PortID>
      <PortDesc></PortDesc>
      <IfName></IfName>
    </BasicInfo>
  </LocalBasicInfos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LocalBasicInfos

Table type	Multi-instance table
Row name	BasicInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
PortID	Port identifier information	Data structure	Members include: • SubType. • ID. • IDValue.
SubType	Subtype of the port ID	N/A	Enumeration: • **0**—Reserved. • **1**—Interface alias. • **2**—Port component. • **3**—MAC address. • **4**—Network address. • **5**—Interface name. • **6**—Agent circuit ID. • **7**—Locally assigned.
ID	Port ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the port ID subtype.
IDValue	Port ID value	N/A	String. Length: 0 to 255 characters.
PortDesc	Port description	N/A	String. Length: 0 to 255 characters.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/LocalManageAddresses

This table contains information about the management addresses of local interfaces.

XML structure

```
<LLDP>
  <LocalManageAddresses>
    <ManageAddress>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
```

```
      <SubType></SubType>
      <Address></Address>
      <AddressValue></AddressValue>
      <InterfaceType></InterfaceType>
      <InterfaceID></InterfaceID>
      <IfName></IfName>
    </ManageAddress>
  </LocalManageAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LocalManageAddresses
Table type	Multi-instance table
Row name	ManageAddress
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • **1**—Nearest bridge agent. • **2**—Nearest non-TPMR agent. • **3**—Nearest customer agent.
SubType	Subtype of the management address	Index	Enumeration: • **0**—Other. • **1**—IPv4. • **2**—IPv6. • **6**—All802.
Address	Management address	Index	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
AddressValue	Management address value	N/A	String. Length: 0 to 64 characters.
InterfaceType	Interface type	N/A	Enumeration: • **1**—Unknown. • **2**—IfIndex. • **3**—PortIndex.

Column name	Column description	Column type	Data type and restrictions
InterfaceID	Interface ID	N/A	Unsigned integer. Length: 32 bits.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/LocalDot1Infos

This table contains the IEEE 802.1 organizationally specific information about local interfaces.

XML structure

```
<LLDP>
  <LocalDot1Infos>
    <Dot1Info>
      <IfIndex></IfIndex>
      <PVID></PVID>
      <PortProtocolVLAN>
        <VLANID></VLANID>
        <Support></Support>
        <Enable></Enable>
      </PortProtocolVLAN>
      <VLANName>
        <VLANID></VLANID>
        <Name></Name>
      </VLANName>
      <ManageVLAN></ManageVLAN>
      <ProtocolID></ProtocolID>
      <LinkAgg>
        <Support></Support>
        <Enable></Enable>
        <PortIndex></PortIndex>
      </LinkAgg>
      <VIDUsage></VIDUsage>
      <IfName></IfName>
    </Dot1Info>
  </LocalDot1Infos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LocalDot1Infos

Table type	Multi-instance table
Row name	Dot1Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
PVID	Neighbor interface PVID.	N/A	Unsigned integer. Value range: 1 to 4094.
PortProtocolVLAN	Protocol VLAN information.	Data structure	Members include: • VLANID. • Support. • Enable.
VLANID	Protocol VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4094.
Support	Whether protocol VLAN is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
VLANName	VLAN name information.	Data structure	Members include: • VLANID. • Name.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Name	VLAN name.	N/A	String. Length: 0 to 32 characters.
ManageVLAN	Management VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4094.
ProtocolID	Protocol ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the protocol.
LinkAgg	Link aggregation information.	Data structure	Members include: • Support. • Enable. • PortIndex.
Support	Whether link aggregation is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether link aggregation is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
PortIndex	Member port ID.	N/A	Unsigned integer. Length: 32 bits.
VIDUsage	VID usage digest.	N/A	Base64 Binary. Length: 4 octets.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/LocalDot3Infos

This table contains the IEEE 802.3 organizationally specific information about local interfaces.

XML structure

```
<LLDP>
  <LocalDot3Infos>
    <Dot3Info>
      <IfIndex></IfIndex>
      <MACPHY>
        <AutoNegSupport></AutoNegSupport>
        <AutoNegEnable></AutoNegEnable>
        <MAU></MAU>
      </MACPHY>
      <MaxFrameSize></MaxFrameSize>
      <Power>
        <PortClass></PortClass>
        <Support></Support>
        <Enable></Enable>
        <Pairs></Pairs>
        <PairsCtrlAbility></PairsCtrlAbility>
        <Classification></Classification>
      </Power>
      <IfName></IfName>
    </Dot3Info>
  </LocalDot3Infos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP

Table name	LocalDot3Infos
Table type	Multi-instance table
Row name	Dot3Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
MACPHY	MAC/PHY configuration/status information.	Data structure	Members include: • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
MAU	Operational media attachment unit type.	N/A	Unsigned integer. Length: 32 bits.
MaxFrameSize	Maximum frame size.	N/A	Unsigned integer. Length: 32 bits.
Power	Power over MDI information.	Data structure	Members include: • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: • **0**—PD. • **1**—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.
Enable	Whether PSE MDI power is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
Pairs	Power supply mode.	N/A	Enumeration: • **1**—Over signal wires. • **2**—Over spare wires.

Column name	Column description	Column type	Data type and restrictions
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: • **true**—Yes. • **false**—No.
Classification	Power class.	N/A	Enumeration: • **1**—Class0. • **2**—Class1. • **3**—Class2. • **4**—Class3. • **5**—Class4.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/LocalMEDInfos

This table contains the MED organizationally specific information about local interfaces.

XML structure

```
<LLDP>
  <LocalMEDInfos>
    <MEDInfo>
      <IfIndex></IfIndex>
      <NetworkPolicy>  <!-- Repeatable -->
        <AppType></AppType>
        <UnknownFlag></UnknownFlag>
        <TagFlag></TagFlag>
        <VLANID></VLANID>
        <L2priority></L2priority>
        <DSCP></DSCP>
      </NetworkPolicy>
      <ExtPower>
        <Source></Source>
        <Priority></Priority>
        <Value></Value>
      </ExtPower>
      <IfName></IfName>
    </MEDInfo>
  </LocalMEDInfos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP

Table name	LocalMEDInfos
Table type	Multi-instance table
Row name	MEDInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NetworkPolicy	Network policy information.	N/A	Members include: • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: • **1**—Voice. • **2**—Voice Signaling. • **3**—Guest Voice. • **4**—Guest Voice Signaling. • **5**—Softphone Voice. • **6**—Video Conferencing. • **7**—Streaming Video. • **8**—Video Signaling.
UnknownFlag	Whether the application is unknown.	N/A	Boolean: • **true**—Yes. • **false**—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: • **true**—Yes. • **false**—No.
VLANID	Network policy VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
L2priority	Layer 2 priority	N/A	Unsigned integer. Value range: 0 to 7.
Dscp	DSCP value.	N/A	Unsigned integer. Value range: 0 to 63.
ExtPower	Extended power via MDI information.	Data structure	Members include: • Source. • Priority. • Value.

Column name	Column description	Column type	Data type and restrictions
Source	PSE power source.	N/A	Enumeration: • **0**—Unknown. • **1**—Primary. • **2**—Backup.
Priority	Power priority.	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Low.
Value	Power value.	N/A	Unsigned integer. Length: 32 bits. Unit: milliwatt.
IfName	Interface name	N/A	String. Length: 0 to 47 characters.

LLDP/CustomizedFeature

This table contains LLDP customized feature information.

XML structure

```
<LLDP>
  <CustomizedFeature>
    <DCBX></DCBX>
    <QCN></QCN>
    <EVB></EVB>
    <NetworkPolicy></NetworkPolicy>
  </CustomizedFeature>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	CustomizedFeature
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DCBX	Whether DCBX feature is customized.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
QCN	Whether QCN feature is customized..	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
EVB	Whether EVB feature is customized..	N/A	Boolean: • **true**—Enabled. • **false**—**Disabled**.
NetworkPolicy	Whether NetworkPolicy feature is customized.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Contents

LLDP 1
LLDP/Interfaces 1
LLDP/TLVSelects 1

LLDP

LLDP/Interfaces

Message	Explanation
"On a Layer 2 interface, the VLAN ID must be specified when configuring the TLV to advertise the management address." "二层接口下，配置发布管理地址TLV必须指定VLAN ID。"	二层接口无法配置 IP 地址，只能指定管理地址接口的 VLAN ID。

LLDP/TLVSelects

Message	Explanation
"The management address cannot specify the Address tag and the AddressIfName tag at the same time." "管理地址不能同时指定Address标签和AddressIfName标签。"	多次配置管理地址，最后一次执行的命令生效。NETCONF同时下发两个配置项，否则无法区分哪个配置项会生效。

Contents

LLDP event stream 1
NeighborEvent event 1
XML structure for event subscription 1
XML structure for event report 1

LLDP event stream

LLDP event stream description.

NeighborEvent event

This event is used to report LLDP neighbor change information.

XML structure for event subscription

```
<NeighborEvent>
</NeighborEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LLDP</stream>
    <filter type="subtree">
      <NeighborEvent xmlns="http://www.h3c.com/netconf/event:1.0/LLDP:1.0">
      </NeighborEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LLDP
Event name	NeighborEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LLDP:1.0
Support for extended query	No

XML structure for event report

```
<NeighborEvent>
  <IfName></IfName>
  <AgentID></AgentID>
  <NeighborIndex></NeighborIndex>
  <NeighborChassisIdSubType></NeighborChassisIdSubType>
  <NeighborChassisId></NeighborChassisId>
  <NeighborPortIdSubType></NeighborPortIdSubType>
  <NeighborPortId></NeighborPortId>
  <TTL></TTL>
  <PortDesc></PortDesc>
  <Neighborevent></Neighborevent>
  <SystemName></SystemName>
```

```
  <SystemCapability></SystemCapability>
  <SystemEnableCapability></SystemEnableCapability>
  <SystemDescription></SystemDescription>
</NeighborEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <NeighborEvent xmlns="http://www.h3c.com/netconf/event:1.0/LLDP:1.0">
    <IfName>GigabitEthernet0/0/4</IfName>
    <AgentID>1</AgentID>
    <NeighborIndex>1</NeighborIndex>
    <NeighborChassisIdSubType>4</NeighborChassisIdSubType>
    <NeighborChassisId>7002-c2bf-0200</NeighborChassisId>
    <NeighborPortIdSubType>5</NeighborPortIdSubType>
    <NeighborPortId>GigabitEthernet0/0/4</NeighborPortId>
    <TTL>121</TTL>
    <PortDesc>GigabitEthernet0/0/4 Interface</PortDesc>
    <Neighborevent>1</Neighborevent>
     <SystemName>H3C</SystemName>
     <SystemCapability>788</SystemCapability>
     <SystemEnableCapability>276</SystemEnableCapability>
     <SystemDescription>H3C Comware Platform Software Version 7.1</SystemDescription>
  </NeighborEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
AgentID	LLDP agent type	Enumeration ● 1 – Nearest bridge agent ● 2 – Nearest non-TPMR agent ● 3 – Nearest customer agent	N/A
NeighborIndex	Neighbor index	Unsigned integer. Length: 32 bits.	Index
NeighborChassisId SubType	Subtype of the chassis ID	Enumeration ● 0 – Reserved. ● 1 – Chassis component. ● 2 – Interface alias. ● 3 – Port component. ● 4 – MAC address. ● 5 – Network address. ● 6 – Interface name. ● 7 – Locally assigned.	N/A
NeighborChassisId	Neighbor chassis ID	String. Length: 0 to 255 characters.	If the value of Neighborevent is 3, this column

Column name	Column description	Data type and restrictions	Remarks
			does not exist.
NeighborPortId SubType	Subtype of the port ID	Enumeration ● 0 – Reserved. ● 1 – Interface alias. ● 2 – Port component. ● 3 – MAC address. ● 4 – Network address. ● 5 – Interface name. ● 6 – Agent circuit ID. ● 7 – Locally assigned.	N/A
NeighborPortId	Neighbor port ID	String. Length: 0 to 255 characters.	If the value of Neighborevent is 3, this column does not exist.
TTL	Time to Live	Unsigned integer. Length: 32 bits.	N/A
PortDesc	Port description	String. Length: 0 to 255 characters.	N/A
Neighborevent	Neighbor event type	Enumeration ● 1 – LLDP neighbor creation ● 2 – LLDP neighbor deletion ● 3 – No LLDP neighbor creation. ● 4 – LLDP neighbor modification.	N/A
SystemName	System name	String. Length: 0 to 255 characters.	N/A
SystemCapability	System capability set	Unsigned integer. Length: 16 bits. The system capability depends on the value represented by each bit. The bits are from low to high and have the following meanings: ● 1 – Other. ● 2 – Repeater. ● 3 – MAC bridge. ● 4 – WLAN access point. ● 5 – Router. ● 6 – Telephone. ● 7 – DOCSIS cable device. ● 8 – Station only. ● 9 – C-VLAN component of a VLAN bridge. ● 10 – S-VLAN component of a VLAN bridge. ● 11 – Two-port MAC relay (TPMR).	N/A

Column name	Column description	Data type and restrictions	Remarks
		● 12-16 – Reserved.	
SystemEnableCapability	Enable system capabilities	Unsigned integer. Length: 16 bits. The system enable capability depends on the value represented by each bit. The bits are from low to high and have the following meanings: ● 1 – Other. ● 2 – Repeater. ● 3 – MAC bridge. ● 4 – WLAN access point. ● 5 – Router. ● 6 – Telephone. ● 7 – DOCSIS cable device. ● 8 – Station only. ● 9 – C-VLAN component of a VLAN bridge. ● 10 – S-VLAN component of a VLAN bridge. ● 11 – Two-port MAC relay (TPMR). ● 12-16 – Reserved.	N/A
SystemDescription	System description	String. Length: 0 to 255 characters.	N/A

Contents

LocalBill 1
LocalBill/ClearCache 1
XML structure 1
Table description 1
Columns 1

LocalBill

LocalBill/ClearCache

This table is used to clear local-cached accounting bills.

XML structure

```
<LocalBill>
  <ClearCache>
    <Clear></Clear>
  </ClearCache>
</LocalBill>
```

Table description

Item	Description
Feature name	LocalBill
Table name	ClearCache
Table type	Single-instance table
Row name	ClearCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear local-cached accounting bills	N/A	Boolean: • **true**—Clear. • **false**—Not clear.

Contents

LocalBill 1
LocalBill/GlobalConfig 1
XML structure 1
Table description 1
Columns 1

LocalBill

LocalBill/GlobalConfig

This table is used to configure global local bill cache parameters.

XML structure

```
<LocalBill>
  <GlobalConfig>
    <Enable></Enable>
    <ExportInterval></ExportInierval>
    <ExportURL></ExportURL>
  </GlobalConfig>
</LocalBill>
```

Table description

Item	Description
Feature name	LocalBill
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the local bill cache feature	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Default: false.
ExportInterval	Set an interval at which the device automatically exports accounting bills	N/A	Unsigned integer. Value range: 1 to 65535, in minutes.	Default: 1440 minutes.
ExportURL	URL for automatic bill export	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Contents

LocalBill 1
LocalBill/Bills 1
XML structure 1
Table description 1
Columns 2
LocalBill/GlobalConfig 4
XML structure 4
Table description 4
Columns 5

LocalBill

LocalBill/Bills

This table contains detailed information about accounting bills in the cache.

XML structure

```
<LocalBill>
  <Bills>
    <Bill>
      <BillNo></BillNo>
      <SessionID></SessionID>
      <UserName></UserName>
      <StartTime></StartTime>
      <StopTime></StopTime>
      <Duration></Duration>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <Ipv6Address></Ipv6Address>
      <ServiceType></ServiceType>
      <AccessType></AccessType>
      <Interface></Interface>
      <SVLAN></SVLAN>
      <CVLAN></CVLAN>
      <Status></Status>
      <ReasonCode></ReasonCode>
      <Ref></Ref>
      <UserTraffic>
        <RecvByte></RecvByte>
        <RecvPacket></RecvPacket>
        <SentByte></SentByte>
        <SentPacket></SentPacket>
      </UserTraffic>
    </Bill>
  </Bills>
</LocalBill>
```

Table description

Item	Description
Feature name	LocalBill
Table name	Bills
Table type	Multi-instance table
Row name	Bill

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BillNo	Bill number	Index	Unsigned integer.	N/A
SessionID	Session ID, which uniquely identifies an accounting session of a user	N/A	String, case-insensitive.	N/A
UserName	Username	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
StartTime	Time from which the accounting session starts	N/A	Date Time. Format: YYYY-MM-DDTHH:MM:SS.	Example: 2020-05-21T18:14:15
StopTime	Time at which the accounting session stops	N/A	Date Time. Format: YYYY-MM-DDTHH:MM:SS	Example: 2020-05-21T18:15:35
Duration	Online duration of the user	N/A	Time. Format: HH:MM:SS	Example: 18:15:35
Ipv4Address	IPv4 address of the user	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
MacAddress	MAC address of the user	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-16-ec-b7-a8-79
Ipv6Address	IPv6 address of the user	N/A	IPv6: Hexadecimal string.	IPv6 example: `2001:12::22:33`.
ServiceType	Types of services used by the user	N/A	Enumeration: • **0**—Login. • **1**—Super**.** • **2**—Command. • **3**—LAN access. • **4**—PPP. • **5**—Default. • **6**—Portal. • **7**—IKE. • **8**—IPoE. • **9**—SSL VPN. • **13—**SSH.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessType	Access type of the user	N/A	Enumeration: • 1—DVPN. • **2**—FTP. • **3**—LANaccess. • **4**—PAD. • **5**—SSH. • **6**—Telnet. • **7**—Terminal. • **8**—Portal. • **9**—PPP. • **10**—HTTP. • **11**—HTTPS. • **12**—IKE. • **13**—IPoE. • **14**—SSL VPN. • **15**—L2TP. • **17**—Command.	N/A
Interface	Interface through which the user is connected to the device	N/A	String, case-insensitive.	Example: GigabitEthernet1/0/1
SVLAN	Service provider VLAN in which the user is connected to the device	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVLAN	Customer network VLAN in which the user is connected to the device	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Status	Accounting bill type	N/A	Enumeration: • **0**—Invalid • **1**—Readtime. • **2**—Offline • **3**—CRC Failed.	Only supports Offline.
ReasonCode	Reason that the accounting session was terminated	N/A	Unsigned integer.	N/A
Ref	Code that represents supplementary information for the session termination	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserTraffic	User traffic statistics	Data structure	Members include: • RecvByte. • RecvPacket • SentByte • SentPacket	N/A
RecvByte	Number of bytes received by the user	N/A	Unsigned integer64.	N/A
RecvPacket	Number of packets received by the user	N/A	Unsigned integer64.	N/A
SentByte	Number of bytes sent by the user	N/A	Unsigned integer64.	N/A
SentPacket	Number of packets sent by the user	N/A	Unsigned integer64.	N/A

LocalBill/GlobalConfig

This table is used to configure global local bill cache parameters.

XML structure

```
<LocalBill>
  <GlobalConfig>
    <Enable></Enable>
    <ExportInterval></ExportInierval>
    <ExportURL></ExportURL>
  </GlobalConfig>
</LocalBill>
```

Table description

Item	Description
Feature name	LocalBill
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Column name
Enable	Whether to enable the local bill cache feature	N/A	Boolean: • **true**—Enable. • **false—**Disable**.**	N/A
ExportInterval	Set an interval at which the device automatically exports accounting bills	N/A	Unsigned integer. Value range: 1 to 65535, in minutes.	N/A
ExportURL	URL for automatic bill export	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Contents

LocalBill event stream 1
LocalBill event 1
XML structure for event subscription 1
XML structure for event report 1

LocalBill event stream

LocalBill event stream description.

LocalBill event

This event is used to report that the number of local-cached accounting bills on BRAS-VM has reached the threshold.

XML structure for event subscription

```
<LBillThresholdState>
</LBillThresholdState>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LocalBill</stream>
    <filter type="subtree">
      <LBillThresholdState xmlns="http://www.h3c.com/netconf/event:1.0/LocalBill:1.0">
      </LBillThresholdState>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LocalBill
Event name	LBillThresholdState
Event namespace	http://www.h3c.com/netconf/event:1.0/ LocalBill:1.0
Support for extended query	No

XML structure for event report

```
<LBillThresholdState>
  <ThresholdState>
    <Reached></Reached>
  </ThresholdState>
</LBillThresholdState>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-07-05T10:24:36</eventTime>
  <LBillThresholdState xmlns="http://www.h3c.com/netconf/event:1.0/LocalBill:1.0">
  <ThresholdState>
    <Reached>false</Reached>
```

```
  </ThresholdState>
</LBillThresholdState>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
Reached	The number of local-cached accounting bills has reached the threshold	Boolean: • **true**—Threshold reached. • **false**—Threshold not reached.	No	N/A

Contents

GEO 1
GEO/Location/GeoLocations 1
XML structure 1
Table description 1
Columns 1
GEO/Location/LocationAddresses 2
XML structure 2
Table description 2
Columns 2
GEO/LocationGroup/Groups 3
XML structure 3
Table description 3
Columns 3
GEO/LocationGroup/LocationGroupMembers 4
XML structure 4
Table description 4
Columns 4

GEO

GEO/Location/GeoLocations

This table is used to configure locations.

XML structure

```
<GEO>
  <Location>
    <GeoLocations>
      <GeoLocation>
        <LocationName></LocationName>
        <Description></Description>
        <Longitude></Longitude>
        <Latitude></Latitude>
      </GeoLocation>
    </GeoLocations>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	GeoLocations
Table type	Multi-instance table
Row name	GeoLocation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	It can not include -.
Description	Description of the location	N/A	String, case sensitive. Length: 1 to 127 characters.	Optional.
Longitude	Longitude	N/A	String. Length: 1 to 7 characters.	Value range: –180.00 to 180.00
Latitude	Latitude	N/A	String.	Value range: –90.00 to 90.00

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 6 characters.	

GEO/Location/LocationAddresses

This table is used to configure location addresses.

XML structure

```
<GEO>
  <Location>
    <LocationAddresses>
      <Item>
        <LocationName></LocationName>
        <SeqNum></SeqNum>
        <IsIncrement></IsIncrement>
        <IPv4AddressList>
          <IPv4Address></IPv4Address>
        </IPv4AddressList>
      </Item>
    </LocationAddresses>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	LocationAddresses
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4AddressList	IPv4 address list	Data structure	Members include: • IPv4Address	N/A
IPv4Address	IPv4 address or address range	N/A	String, Format: Dotted decimal notation.	For an IP address, you must specify the mask. For an address range, specify the range in the X.X.X.X/Y.Y.Y.Y or X.X.X.X-Y.Y.Y.Y. or X.X.X.X/YY format.

GEO/LocationGroup/Groups

This table is used to configure location groups.

XML structure

```
<GEO>
  <LocationGroup>
    <Groups>
      <Group>
        <LocationGroupName></LocationGroupName>
        <Description></Description>
      </Group>
    </Groups>
  </LocationGroup>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationGroupName	Name of the location group	Index	String, case insensitive. Length: 1 to 63 characters.	It can not include -.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the location group	N/A	String, case sensitive. Length: 1 to 127 characters.	Optional.

GEO/LocationGroup/LocationGroupMembers

This table is used to configure the members of a location group.

XML structure

```
<GEO>
  <LocationGroup>
    <LocationGroupMembers>
      <LocationGroupMember>
        <LocationGroupName></LocationGroupName>
        <IsIncrement></IsIncrement>
        <MemberItem>
          <Member></Member>
          <Type></Type>
        </MemberItem>
      </LocationGroupMember>
    </LocationGroupMembers>
  </LocationGroup>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	LocationGroupMembers
Table type	Multi-instance table
Row name	LocationGroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationGroupName	Name of the location group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	increment the data		• **true**—Yes. • **false—**No (default).	
MemberItem	Member Item	Data structure	Members include: • Member • Type	N/A
Member	Name of the member	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the member	N/A	Enumeration: • 1—Location. • 2—Location group.	N/A

Contents

GEO 1
GEO/Location/GeoLocations 1
XML structure 1
Table description 1
Columns 1
GEO/Location/GeoLocationList 2
XML structure 2
Table description 2
Columns 2
GEO/Location/GetTopLocations 2
XML structure 2
Table description 3
Columns 3
GEO/Location/GetSubLocations 4
XML structure 4
Table description 4
Columns 5
GEO/Location/LocationQuery 5
XML structure 6
Table description 6
Columns 6
GEO/Location/LocationAddresses 7
XML structure 7
Table description 7
Columns 8
GEO/Location/Limit 8
XML structure 8
Table description 8
Columns 9
GEO/LocationGroup/Groups 9
XML structure 9
Table description 9
Columns 10
GEO/LocationGroup/LocationGroupMembers 10
XML structure 10
Table description 10
Columns 11
GEO/LocationGroup/GetLocationGroups 11
XML structure 11
Table description 11
Columns 12

GEO

GEO/Location/GeoLocations

This table is used to get location configuration.

XML structure

```
<GEO>
  <Location>
    <GeoLocations>
      <GeoLocation>
        <LocationName></LocationName>
        <Description></Description>
        <Longitude></Longitude>
        <Latitude></Latitude>
      </GeoLocation>
    </GeoLocations>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	GeoLocations
Table type	Multi-instance table
Row name	GeoLocation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the location	N/A	String, case sensitive. Length: 1 to 127 characters.	Optional.
Longitude	Longitude	N/A	String. Length: 1 to 7 characters.	Value range: –180.00 to 180.00
Latitude	Latitude	N/A	String.	Value range: –90.00 to 90.00

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 6 characters.	

GEO/Location/GeoLocationList

This table is used to get all location name.

XML structure

```
<GEO>
  <Location>
    <GeoLocationList>
      <Item>
        <LocationName></LocationName>
      </Item>
    </GeoLocationList>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	GeoLocationList
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

GEO/Location/GetTopLocations

This table is used to get all country and userdefed locations.

XML structure

```
<GEO>
  <Location>
```

```
    <GetTopLocations>
      <Item>
        <LocationName></LocationName>
        <LocationID></LocationID>
        <LocationType></LocationType>
        <HaveSubLocation></HaveSubLocation>
        <Description></Description>
        <Longitude></Longitude>
        <Latitude></Latitude>
        <TotalLocationCount></TotalLocationCount>
        <IPv4AddressList>
          <IPv4Address></IPv4Address>
        </IPv4AddressList>
      </Item>
    </GetTopLocations>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	GetTopLocations
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
LocationID	ID of the location	N/A	Unassigned integer. Value range: 0-65534.	N/A
LocatioinType	Type of the location	N/A	Enumeration: • 1—Predefined location. • 2—User-defined location.	N/A
HaveSubLocation	Whether there are sub-locations	N/A	Boolean: • **True.** • **False.**	Default: False.
Description	Description of the location	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
Longitude	Longitude	N/A	String. Length: 1 to 7 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Latitude	Latitude	N/A	String. Length: 1 to 6 characters.	N/A
TotalLocationCount	Total number of locations	N/A	Unassigned integer. Value range: 0-65535.	N/A
IPv4AddressList	IPv4 address list	Data structure	Members include: • IPv4Address.	N/A
IPv4Address	IPv4 address	N/A	String, Format: Dotted decimal notation.	Returned data formats: • X.X.X.X/X • X.X.X.X/Y.Y.Y.Y • X.X.X.X-Y.Y.Y.Y

GEO/Location/GetSubLocations

This table is used to get sub locations.

XML structure

```
<GEO>
  <Location>
    <GetSubLocations>
      <Item>
        <LocationName></LocationName>
        <ParentLocationName></ParentLocationName>
        <LocationID></LocationID>
        <LocationType></LocationType>
        <HaveSubLocation></HaveSubLocation>
        <Description></Description>
        <Longitude></Longitude>
        <Latitude></Latitude>
        <TotalLocationCount></TotalLocationCount>
        <IPv4AddressList>
          <IPv4Address></IPv4Address>
        </IPv4AddressList>
      </Item>
    </GetSubLocations>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO

Item	Description
Table name	GetLocations
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ParentLocationName	Name of the parent location	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
LocationID	ID of the location	N/A	Unassigned integer. Value range: 0-65534.	N/A
LocatioinType	Type of the location	N/A	Enumeration: • 1—Predefined location. • 2—User-defined location.	N/A
HaveSubLocation	Whether there are sub-locations	N/A	Boolean: • **True.** • **False.**	Default: False.
Description	Description of the location	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
Longitude	Longitude	N/A	String. Length: 1 to 7 characters.	N/A
Latitude	Latitude	N/A	String. Length: 1 to 6 characters.	N/A
TotalLocationCount	Total number of locations	N/A	Unassigned integer. Value range: 0-65535.	N/A
IPv4AddressList	IPv4 address list	Data structure	Members include: • IPv4Address.	N/A
IPv4Address	IPv4 address	N/A	String, Format: Dotted decimal notation.	Returned data formats: • X.X.X.X/X • X.X.X.X/Y.Y.Y.Y • X.X.X.X-Y.Y.Y.Y

GEO/Location/LocationQuery

This table is used to search location.

XML structure

```
<GEO>
  <Location>
    <LocationQuery>
      <Item>
        <LocationName></LocationName>
        <LocationID></LocationID>
        <LocationType></LocationType>
        <Description></Description>
        <Longitude></Longitude>
        <Latitude></Latitude>
        <TotalLocationCount></TotalLocationCount>
        <IPv4AddressList>
          <IPv4Address></IPv4Address>
        </IPv4AddressList>
      </Item>
    </LocationQuery>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	LocationQuery
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
LocationID	ID of the location	N/A	Unassigned integer. Value range: 0-65534.	N/A
LocatioinType	Type of the location	N/A	Enumeration: • 1—Predefined location. • 2—User-defined location.	N/A
Description	Description of the location	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
Longitude	Longitude	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 7 characters.	
Latitude	Latitude	N/A	String. Length: 1 to 6 characters.	N/A
TotalLocation Count	Total number of locations	N/A	Unassigned integer. Value range: 0-65535.	N/A
IPv4AddressList	IPv4 address list	Data structure	Members include: • IPv4Address.	N/A
IPv4Address	IPv4 address	N/A	String, Format: Dotted decimal notation.	Returned data formats: • X.X.X.X/X • X.X.X.X/Y.Y.Y.Y • X.X.X.X-Y.Y.Y.Y

GEO/Location/LocationAddresses

This table is used to get location addresses.

XML structure

```
<GEO>
  <Location>
    <LocationAddresses>
      <Item>
        <LocationName></LocationName>
        <SeqNum></SeqNum>
        <IsIncrement></IsIncrement>
        <IPv4AddressList>
          <IPv4Address></IPv4Address>
        </IPv4AddressList>
      </Item>
    </LocationAddresses>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	LocationAddresses
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Name of the location	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 0-65535.	N/A
IsIncrement	Whether to increment the data	N/A	This field is available only in a create, merge, or replace operation.Ignore the value in this column.	N/A
IPv4AddressList	IPv4 address list	Data structure	Members include: • IPv4Address	N/A
IPv4Address	IPv4 address or address range	N/A	String, Format: Dotted decimal notation.	For an IP address, you must specify the mask. For an address range, specify the range in the X.X.X.X/Y.Y.Y.Y or X.X.X.X-Y.Y.Y.Y. format.

GEO/Location/Limit

This table is used to get specification limits.

XML structure

```
<GEO>
  <Location>
      <Limit>
        <UserLocation></UserLocation>
        <LocationGroup></LocationGroup>
        <UserIPTotal></UserIPTotal>
        <MemNumPerGroup></MemNumPerGroup>
      </Limit>
  </Location>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	Limit
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserLocation	Maximum number of user-defined locations	N/A	Unassigned integer. Value range: 0-65535.	N/A
LocationGroup	Maximum number of location groups	N/A	Unassigned integer. Value range: 0-65535.	N/A
UserIPTotal	Maximum number of user-defined IP addresses	N/A	Unassigned integer. Value range: 0-65535.	N/A
MemNumPerGroup	Maximum number of members per group	N/A	Unassigned integer. Value range: 0-65535.	N/A

GEO/LocationGroup/Groups

This table is used to get location groups.

XML structure

```
<GEO>
  <LocationGroup>
    <Groups>
      <Group>
        <LocationGroupName></LocationGroupName>
        <Description></Description>
      </Group>
    </Groups>
  </LocationGroup>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	Groups
Table type	Multi-instance table
Row name	Group

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationGroupName	Name of the location group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the location group	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A

GEO/LocationGroup/LocationGroupMembers

This table is used to get all members in one location group.

XML structure

```
<GEO>
  <LocationGroup>
    <LocationGroupMembers>
      <LocationGroupMember>
        <LocationGroupName></LocationGroupName>
        <SeqNum></SeqNum>
        <IsIncrement></IsIncrement>
        <MemberItem>
          <Member></Member>
          <Type></Type>
        </MemberItem>
      </LocationGroupMember>
    </LocationGroupMembers>
  </LocationGroup>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	LocationGroupMembers
Table type	Multi-instance table
Row name	LocationGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationGroupName	Name of the location group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to increment the data	N/A	This field is available only in a create, merge, or replace operation.Ignore the value in this column.	N/A
MemberItem	Member Item	Data structure	Members include: • Member • Type	N/A
Member	Name of the member	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the member	N/A	Enumeration: • 1—Location. • 2—Location group.	N/A

GEO/LocationGroup/GetLocationGroups

This table is used to get a summary of all groups.

XML structure

```
<GEO>
  <LocationGroup>
    <GetLocationGroups>
      <Group>
        <LocationGroupName></LocationGroupName>
        <Description></Description>
        <TotalGroupCount></TotalGroupCount>
        <MemberItem>
          <Member></Member>
          <Type></Type>
        </MemberItem>
      </Group>
    </GetLocationGroups>
  </LocationGroup>
</GEO>
```

Table description

Item	Description
Feature name	GEO
Table name	GetLocationGroups

Item	Description
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationGroupName	Name of the location group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the location group	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
TotalGroupCount	Total number of location groups	N/A	Unassigned integer. Value range: 0-65535.	N/A
MemberItem	Member Item	Data structure	Members include: • Member. • Type.	N/A
Member	Name of the member	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the member	N/A	Enumeration: • 1—Location. • 2—Location group.	N/A

Contents

GEO 2
GEO/Location/GeoLocations 2
GEO/LocationGroup/Groups 2
GEO/Location/LocationAddresses 2
GEO/LocationGroup/LocationGroupMembers 3

GEO

GEO/Location/GeoLocations

Message	Explanation
The name is the same as a predefined location. 创建的自定义地区与预定义地区重名。	The name of a user-defined location cannot be the same as a predefined location for a create operation. 当执行create操作时，自定义地区名称不能与预定义地区名称重复。
The pre-defined location cannot be deleted. 不能删除预定义地区。	You cannot delete or remove a predefined location. 当执行delete或者remove操作时，不能删除预定义地区。
The number of user-defined locations exceeds the upper limit. 自定义地区数量超过上限。	The number of user-defined locations cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge和replace操作时，自定义地区的数量不能超过上限。
This geographic location is in use. 该地区被引用中。	When the location is in use，it can not be delete or remove. 当执行delete、remove操作时，若地区被引用，则禁止删除。
Pre-defined location cannot modify longitude and latitude. 预定义地区禁止修改经纬度。	Pre-defined location cannot modify for a merge, or replace operation. 当执行merge、replace操作时，预定义地区禁止修改经纬度。

GEO/LocationGroup/Groups

Message	Explanation
The number of location groups exceeds the upper limit. 地区组数量超过上限。	The number of location groups cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge和replace操作时，地区组的数量不能超过上限。
This geographic location group is in use. 该地区组被引用中。	When the location group is in use，it can not be delete or remove. 当执行delete、remove操作时，若地区组被引用，则禁止删除。

GEO/Location/LocationAddresses

Message	Explanation
ip-addresses1 overlaps with address *ip-addresses2* that has been added to location *location-name*. *x.x.x.x*与location-name地区已添加的*y.y.y.y*重叠	The new IP addresses cannot conflict with user configurations of the predefined locations and existing user-defined locations for a create, merge, or replace operation. 当执行create、merge和replace操作时，新增IP地址不能与预定义和自定义地区中用户的配置冲突。
The IP address of the library cannot be deleted. 禁止删除库IP地址。	You cannot delete or remove the library IP address of a predefined location. 当执行delete或者remove操作时，不能删除预定义地区中库IP地

	址。
The number of IP addresses and subnet addresses configured by users exceeds the upper limit. 用户配置的IP地址数量超过上限。	The number of IP addresses and subnet addresses configured by users cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge和replace操作时，用户配置的IP地址数量不能超过上限。
ip-addresses1 overlaps with address *ip-addresses2* that will be added to location location-name. 预添加到location-name地区的*ip-addresses1*与*ip-addresses2*重叠	The new IP addresses cannot conflict with each other for a create, merge, or replace operation. 当执行create、merge和replace操作时，地区下用户输入的新增IP地址之间配置冲突。

GEO/LocationGroup/LocationGroupMembers

Message	Explanation
The number of members in a location group exceeds the upper limit. 地区组引用成员数量超过上限。	The number of members in a location group cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge和replace操作时，地区组引用的成员数量不能超过上限。
The location group reference relationship forms a circle. 地区组引用形成循环。	The location group reference relationship cannot form a circle for a create, merge, or replace operation. 当执行create、merge和replace操作时，地区组引用关系不能形成循环。
Maximum nesting level 3 exceeded. 超过了最大嵌套级别3。	The maximum nesting level of a location group cannot exceed 3 for a create, merge, or replace operation. 当执行create、merge和replace操作时，地区组最大嵌套级别不能超过3。

Contents

Login 1
Login/Header 1
XML structure 1
Table description 1
Columns 1
Login/Class/Classes 2
XML structure 2
Table description 2
Columns 3
Login/Class/Roles 4
XML structure 4
Table description 4
Columns 4
Login/Line/Lines 5
XML structure 5
Table description 5
Columns 6
Login/Line/Roles 7
XML structure 7
Table description 7
Columns 7
Login/TextBox 8
XML structure 8
Table description 8
Columns 9

Login

Login/Header

Banner information about user login.

XML structure

```
<Login>
  <Header>
    <Incoming></Incoming>
    <Legal></Legal>
    <Login></Login>
    <Motd></Motd>
    <Shell></Shell>
  </Header>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Header
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Incoming	The banner to be displayed before a modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	The starting and ending characters for each banner must be the same character. The character can be any character and can't be included in the banner.
Legal	The banner to be displayed before a user inputs the username and password to access the CLI.	N/A	String. Length: 2 to 2002 characters.	
Login	The banner to be displayed before	N/A	String.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	password or scheme authentication is performed for a login user.		Length: 2 to 2002 characters.	
Motd	The greeting banner to be displayed before the legal banner appears.	N/A	String. Length: 2 to 2002 characters.	
Shell	The banner to be displayed before a non-modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	

Login/Class/Classes

The authentication configuration information for users on each type of line class.

XML structure

```
<Login>
  <Class>
    <Classes>
      <Class>
        <ClassType></ClassType>
        <AuthMode></AuthMode>
        <Password></Password>
        <ProtocolIn></ProtocolIn>
      </Class>
    </Classes>
  </Class>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None
Support for row creation and	No

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line class type depends on the device model.

AuthMode	Authentication mode.	N/A	Enumeration:
			• **0**—None.
			• **1**—Password.
			• **2**—Scheme.
				In FIPS mode, the authentication mode must be scheme.
				The following default settings apply:
				• In non-FIPS mode:
				  ○ Password authentication is enabled for AUX and VTY lines.
				  ○ Authentication is disabled for console and TTY lines.
				  ○ If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line.
				• In FIPS mode, scheme authentication is enabled.
				IMPORTANT:
				If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.

Password	Password for password authentication.	N/A	String, case-sensitive. Length: 4 to 16 characters.	Available only in non-FIPS mode.
ProtocolIn	Supported protocols.	N/A	Enumeration: • **0**—SSH. • **1**—Telnet. • **2**—PAD. • **5**—All.	The following default settings apply: • In non-FIPS mode, all protocols are supported. • In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Class/Roles

The user role information for users on each type of line class.

XML structure

```
<Login>
  <Class>
    <Roles>
      <Role>
        <ClassType></ClassType>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Class>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line class type depends on the device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply

Column name	Column description	Column type	Data type and restrictions	Remarks
				(MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/Line/Lines

The authentication configuration information for users on specific user lines.

XML structure

```
<Login>
  <Line>
    <Lines>
      <Line>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <AuthMode></AuthMode>
        <Password></Password>
        <ProtocolIn></ProtocolIn>
      </Line>
    </Lines>
  </Line>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Lines
Table type	Multi-instance table
Row name	Line
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.

AuthMode	Authentication mode.	N/A	Enumeration:
			• **0**—None.
			• **1**—Password.
			• **2**—Scheme.
				In FIPS mode, the authentication mode must be scheme.
				The following default settings apply:
				• In non-FIPS mode:
				  ○ Password authentication is enabled for AUX and VTY lines.
				  ○ Authentication is disabled for console and TTY lines.
				  ○ If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line.
				• In FIPS mode, scheme authentication is enabled.
				IMPORTANT:
				If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.

Password	Password for password authentication.	N/A	String, case-sensitive. Length: 4 to 16 characters.	Available only in non-FIPS mode.
ProtocolIn	Supported protocols.	N/A	Enumeration: • **0**—SSH. • **1**—Telnet. • **2**—PAD. • **5**—All.	The following default settings apply: • In non-FIPS mode, all protocols are supported. • In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Line/Roles

The user role information for users on specific user lines.

XML structure

```
<Login>
  <Line>
    <Roles>
      <Role>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Line>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	Uesr line type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.
RoleName	User role name.	Index	String,	You can assign a maximum of 64

Column name	Column description	Column type	Data type and restrictions	Remarks
			case-sensitive. Length: 1 to 63 characters.	user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/TextBox

This table contains the username text box name that appears when a user logs in.

XML structure

```
<Login>
  <TextBox>
    <Name></Name>
  </TextBox>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	TextBox
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Text box name	N/A	String, case-sensitive. Length: 1 to 16 characters.	Only Telnet and terminal login support this column and the username text box name is displayed according to the configuration.

Contents

Login 1

Login/Header 1
- XML structure 1
- Table description 1
- Columns 1

Login/Class/Classes 2
- XML structure 2
- Table description 2
- Columns 3

Login/Class/Roles 3
- XML structure 3
- Table description 4

Login/Line/Lines 5
- XML structure 5
- Table description 5
- Columns 5

Login/Line/Roles 6
- XML structure 6
- Table description 7
- Columns 7

Login/Specification 8
- XML structure 8
- Table description 8
- Columns 8

Login/TextBox 9
- XML structure 9
- Table description 9
- Columns 9

Login

Login/Header

Banner information about user login.

XML structure

```
<Login>
  <Header>
    <Incoming></Incoming>
    <Legal></Legal>
    <Login></Login>
    <Motd></Motd>
    <Shell></Shell>
  </Header>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Header
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Incoming	The banner to be displayed before a modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	The starting and ending characters for each banner must be the same character. The character can be any character and can't be included in the banner.
Legal	The banner to be displayed before a user inputs the username and password to access the CLI.	N/A	String. Length: 2 to 2002 characters.	
Login	The banner to be displayed before password or scheme	N/A	String. Length: 2 to 2002 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication is performed for a login user.			
Motd	The greeting banner to be displayed before the legal banner appears.	N/A	String. Length: 2 to 2002 characters.	
Shell	The banner to be displayed before a non-modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	

Login/Class/Classes

The authentication configuration information for users on each type of line class.

XML structure

```
<Login>
  <Class>
    <Classes>
      <Class>
        <ClassType></ClassType>
        <AuthMode></AuthMode>
        <ProtocolIn></ProtocolIn>
      </Class>
    </Classes>
  </Class>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line class type depends on the device model.

AuthMode	Authentication mode.	N/A	Enumeration:
			• **0**—None.
			• **1**—Password.
			• **2**—Scheme.
				In FIPS mode, the authentication mode must be scheme.
				The following default settings apply:
				• In non-FIPS mode:
				  ○ Password authentication is enabled for AUX and VTY lines.
				  ○ Authentication is disabled for console and TTY lines.
				  ○ If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line.
				• In FIPS mode, scheme authentication is enabled.
				IMPORTANT:
				If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.

ProtocolIn	Supported protocols.	N/A	Enumeration: • **0**—SSH. • **1**—Telnet. • **2**—PAD. • **5**—All.	The following default settings apply: • In non-FIPS mode, all protocols are supported. • In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Class/Roles

The user role information for users on each type of line class.

XML structure

```
<Login>
  <Class>
```

```
    <Roles>
      <Role>
        <ClassType></ClassType>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Class>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line class type depends on the device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/Line/Lines

The authentication configuration information for users on specific user lines.

XML structure

```
<Login>
  <Line>
    <Lines>
      <Line>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <AuthMode></AuthMode>
        <ProtocolIn></ProtocolIn>
      </Line>
    </Lines>
  </Line>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Lines
Table type	Multi-instance table
Row name	Line
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.

Column name	Column description	Column type	Data type and restrictions	Remarks

AuthMode	Authentication mode.	N/A	Enumeration:
			• **0**—None.
			• **1**—Password.
			• **2**—Scheme.
				In FIPS mode, the authentication mode must be scheme.
				The following default settings apply:
				• In non-FIPS mode:
				  ○ Password authentication is enabled for AUX and VTY lines.
				  ○ Authentication is disabled for console and TTY lines.
				  ○ If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line.
				• In FIPS mode, scheme authentication is enabled.
				IMPORTANT:
				If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.

ProtocolIn	Supported protocols.	N/A	Enumeration: • **0**—SSH. • **1**—Telnet. • **2**—PAD. • **5**—All.	The following default settings apply: • In non-FIPS mode, all protocols are supported. • In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Line/Roles

The user role information for users on specific user lines.

XML structure

```
<Login>
  <Line>
    <Roles>
      <Role>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Line>
```

```
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: • **1**—Console. • **2**—TTY. • **3**—AUX. • **4**—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/Specification

Login configuration specification table.

Login configuration capacity differs on different device models.

- Whether the AuthMode column in the tables Login/Class/Classes and Login/Line/Lines can support the none or password authentication mode.
- Whether the ProtocolIn column in the tables Login/Class/Classes and Login/Line/Lines can support Telnet or PAD.

XML structure

```
<Login>
  <Specification>
    <AuthMode>
      <NoneAuth></NoneAuth>
      <PasswordAuth></PasswordAuth>
    </AuthMode>
    <ProtocolIn>
      <Telnet></Telnet>
      <Pad></Pad>
    </ProtocolIn>
  </Specification>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMode	Supported authentication modes.	Data structure	Members include: • NoneAuth. • PasswordAuth.	N/A
NoneAuth	Whether to support the none authentication mode.	N/A	Boolean: • true. • false.	In non-FIPS mode, the none and password authentication modes are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordAuth	Whether to support the password authentication mode.	N/A	Boolean: • true. • false.	In FIPS mode, the none and password authentication modes are not supported.
ProtocolIn	Supported protocols.	Data structure	Members include: • Telnet. • Pad.	N/A
Telnet	Whether to support Telnet.	N/A	Boolean: • true. • false.	In non-FIPS mode, Telnet and PAD are supported.
Pad	Whether to support PAD.	N/A	Boolean: • true. • false.	In FIPS mode, Telnet and PAD are not supported.

Login/TextBox

This table contains the username text box name that appears when a user logs in.

XML structure

```
<Login>
  <TextBox>
    <Name></Name>
  </TextBox>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	TextBox
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Text box name	N/A	String, case-sensitive. Length: 1 to 16 characters.	Only Telnet and terminal login support this column and the username text box name is displayed according to the configuration.

Contents

Login 1
Login/Header 1
Login/Class/Classes 1
Login/Class/Roles 1
Login/Line/Lines 2
Login/Line/Roles 2

Login

Login/Header

Message	Explanation
The string must begin and end with the same character. 输入错误！请在结尾处输入与起始符一致的结束符。	The string must begin and end with the same character. Please check your input.

Login/Class/Classes

Message	Explanation
Failed to set the line authentication method: The protocol is SSH. Please change the protocol first. 设置用户线认证方式失败，请修改协议类型。	Failed to set the line authentication method: Please change the protocol first.
The device doesn't support PAD. 该设备不支持此操作。	The device doesn't support PAD.
The command is available only for VTY lines. 只有VTY用户线支持这条命令。	The command is available only for VTY lines.
Can't set the protocol to SSH. Please change the authentication method to scheme first. 不能设置SSH协议。 设置SSH协议之前，请设置认证模式为scheme。	Can't set the protocol to SSH. Please change the authentication method to scheme first.

Login/Class/Roles

Message	Explanation
Maximum number of user roles already reached. 用户角色数量已达到上限。	Maximum number of user roles already reached.
Can't delete the user role: The user role is the only user role for the user line. 最后一个用户角色不能被删除。	Can't delete the user role: The user role is the only user role for the user line.
Can't specify the security-audit user role for user lines. 用户角色security-audit不能在用户线上配置。	Can't specify the security-audit user role for user lines.
Can't specify user roles for user lines in FIPS mode. FIPS模式下，用户线视图中不支持配置用户角色。	Can't specify user roles for user lines in FIPS mode.
Can't configure the system predefined role.	Can't configure the system predefined role.

系统预定义角色不能被配置。	

Login/Line/Lines

Message	Explanation
Failed to set the line authentication method: The protocol is SSH. Please change the protocol first. 设置用户线认证方式失败，请修改协议类型。	Failed to set the line authentication method: Please change the protocol first.
The device doesn't support PAD. 该设备不支持此操作。	The device doesn't support PAD.
The command is available only for VTY lines. 只有VTY用户线支持这条命令。	The command is available only for VTY lines.
Can't set the protocol to SSH. Please change the authentication method to scheme first. 不能设置SSH协议。 设置SSH协议之前，请设置认证模式为scheme。	Can't set the protocol to SSH. Please change the authentication method to scheme first.

Login/Line/Roles

Message	Explanation
Maximum number of user roles already reached. 用户角色数量已达到上限。	Maximum number of user roles already reached.
Can't delete the user role: The user role is the only user role for the user line. 最后一个用户角色不能被删除。	Can't delete the user role: The user role is the only user role for the user line.
Can't specify the security-audit user role for user lines. 用户角色security-audit不能在用户线上配置。	Can't specify the security-audit user role for user lines.
Can't specify user roles for user lines in FIPS mode. FIPS模式下，用户线视图中不支持配置用户角色。	Can't specify user roles for user lines in FIPS mode.
Can't configure the system predefined role. 系统预定义角色不能被配置。	Can't configure the system predefined role.

Contents

LOGUPLOAD 1
LOGUPLOAD/GlobalLogUpload 1
XML structure 1
Table description 1
Columns 1

LOGUPLOAD

LOGUPLOAD/GlobalLogUpload

This table contains configurations for uploading logs to the cloud platform.

XML structure

```
<LOGUPLOAD>
  <GlobalLogUpload>
    <URL></URL>
    <LogType></LogType>
    <UploadTime></UploadTime>
    <UploadSize></UploadSize>
    <Enable></Enable>
  </GlobalLogUpload>
</LOGUPLOAD>
```

Table description

Item	Description
Feature name	LOGUPLOAD
Table name	GlobalLogUpload
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the cloud platform	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
LogType	Type of logs to be uploaded to the cloud platform	N/A	String, case insensitive. Length: 1 to 2047 characters. The string can contain only letters, digits, comma, and underscores (_).	Log types are separated by commas. The type name is same as the ntop log file name. For more imformation, refer to *xxxxx* document. Example: SSLVPN_ACCESS, SSLVPNK_RESOURCE
UploadTime	Period of time for uploading logs	N/A	Unsigned integer. Value range: 1 to 60, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			minutes.	
UploadSize	Number of logs to be uploaded	N/A	Unsigned integer. Value range: 200 to 3000.	N/A
Enable	Enable uploading logs	N/A	Boolean: • true—Enabled. • false—Disabled	N/A

Contents

LOGUPLOAD 1
GlobalLogUpload 1

LOGUPLOAD

GlobalLogUpload

Message	Explanation
Supports only HTTPS. 仅支持HTTPS协议。	The URL supports only the HTTPS protocol. URL 仅支持 HTTPS 协议。
Null or invalid log type. 日志类型为空或日志类型值无效。	No log type is specified or the specified log types contain an invalid value. 日志类型未指定或者指定的类型中含有无效值。
Invalid log upload interval. 无效的上送周期。	The upload interval value is invalid. 上送周期为无效值。
Invalid log upload size. 无效的上送条数。	The upload size is invalid. 上送条数为无效值。

Contents

LPDT 1
LPDT/SetPortLoopMode 1
XML structure 1
Table description 1
Columns 1

LPDT

LPDT/SetPortLoopMode

This table provides configuration of the loop protection action on a port of a PEX in an IRF 3.1 system. This table is for internal users only.

XML structure

```
<LPDT>
  <SetPortLoopMode>
    <IfIndex></IfIndex>
    <Block></Block>
    <NoLearning></NoLearning>
    <Confirm></Confirm>
  </SetPortLoopMode>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	SetPortLoopMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Block	Whether to block the looped port	N/A	Enumeration: • **0**—Unblock. • **1**—Block.	N/A
NoLearning	Action to take when a frame with an unknown source MAC address is received	N/A	Enumeration: • **0**—Forward. • **1**—Disable MAC address learning. • **2**—Drop.	N/A
Confirm	Check code	N/A	String. Length: 1 to 20 characters.	Fixed at **lpdt action for 1br**.

Contents

LPDT 1
LPDT/Base 1
XML structure 1
Table description 1
Columns 1
LPDT/VSIs 2
XML structure 2
Table description 2
Columns 2
LPDT/LPDTInterfaces 1
XML structure 1
Table description 1
Columns 1

LPDT

LPDT/Base

This table provides global loop detection configuration.

XML structure

```
<LPDT>
  <Base>
    <DetectVlanList></DetectVlanList>
    <DetectedAction></DetectedAction>
    <DetectInterval></DetectInterval>
  </Base>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectVlanList	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< DetectVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.
DetectedAction	Action to take on an interface where a loop is detected	N/A	Enumeration: • **0**—No action. • **1**—Shut down.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectInterval	Detection interval in seconds	N/A	Unsigned integer. • Value range:1 to 300. • Default: 30.	N/A

LPDT/VSIs

This table provides VSI loop detection configuration.

XML structure

```
<LPDT>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enable></Enable>
      <DetectVlanListEnable></DetectVlanListEnable>
      <SCvlanEnable>
        <DetectSVlanListEnable></DetectSVlanListEnable>
        <DetectCVlanListEnable></DetectCVlanListEnable>
      </SCvlanEnable>
      <DetectedAction></DetectedAction>
      <Priority></Priority>
      <IntervalTime></IntervalTime>
    </VSI>
  </VSIs>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	This table supports only VSI functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	Name of the	Index	String.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	VSI		Length: 1 to 31 characters.	
Enable	Enable loop detection for all VLANs	N/A	Boolean: • true • false (default)	You can configure only one loop detection mode.
DetectVlanListEnable	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	You can configure only one loop detection mode.
SCvlanEnable	Enable double-tagged loop detection	Data structure	Members include: • **DetectSVlanListEnable**. • **DetectCVlanListEnable**.	You can configure only one loop detection mode.
DetectSVlanListEnable	SVLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DetectCVlanListEnable	CVLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DetectedAction	Action to take on an interface where a loop is detected	N/A	Enumeration: • **0**—No action (default). • **1**—Block. • **2**—Shutdown	N/A
Priority	The priority of the VSI	N/A	Unsigned integer. Value range: 1 to 7. Default: 7.	N/A
IntervalTime	Loop detection interval	N/A	Unsigned integer. Value range: 1 to 32768. Default: 30.	N/A

LPDT/LPDTInterfaces

This table provides interface loop detection configuration.

XML structure

```
<LPDT>
  <LPDTInterfaces>
    <LPDTInterface>
      <IfName></IfName>
      <DetectVlanList></DetectVlanList>
      <DetectedAction></DetectedAction>
    </LPDTInterface>
  </LPDTInterfaces>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	LPDTInterfaces
Table type	Multi-instance table
Row name	LPDTInterface
Restrictions	This table supports only interface functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 0 to 47 characters.	N/A
DetectVlanList	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< DetectVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.
DetectedAction	Action to take on an interface where a loop is	N/A	Enumeration: • **0**—No action.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	detected		• **1**—Block • **2**—Shut down • **3**—no learning	

Contents

LPDT 1
LPDT/Base 1
XML structure 1
Table description 1
Columns 1
LPDT/VSIs 2
XML structure 2
Table description 2
Columns 2
LPDT/IfLoopInfos 3
XML structure 3
Table description 4
Columns 4
LPDT/IfVsiLoopInfos 1
XML structure 1
Table description 1
Columns 1
LPDT/ LPDTInterfaces 1
XML structure 1
Table description 1
Columns 1

LPDT

LPDT/Base

This table contains global loop detection information.

XML structure

```
<LPDT>
  <Base>
    <DetectVlanList></DetectVlanList>
    <DetectedAction></DetectedAction>
    <DetectInterval></DetectInterval>
  </Base>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectVlanList	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DetectedAction	Action to take on an interface where a loop is detected	N/A	Enumeration: • **0**—No action. • **1**—Shut down.	N/A
DetectInterval	Detection interval in seconds	N/A	Unsigned integer. • **Value range: 1 to 300**. • **Default: 30.**	N/A

LPDT/VSIs

This table provides VSI loop detection configuration.

XML structure

```
<LPDT>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enable></Enable>
      <DetectVlanListEnable></DetectVlanListEnable>
      <SCvlanEnable>
        <DetectSVlanListEnable></DetectSVlanListEnable>
        <DetectCVlanListEnable></DetectCVlanListEnable>
      </SCvlanEnable>
      <DetectedAction></DetectedAction>
      <Priority></Priority>
      <IntervalTime></IntervalTime>
    </VSI>
  </VSIs>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	This table supports only VSI functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	Name of the VSI	Index	String. Length: 1 to 31 characters.	
Enable	Enable loop detection for all VLANs	N/A	Boolean: • true. • false.	
DetectVlanListEnable	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an	

Column name	Column description	Column type	Data type and restrictions	Remarks
			individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	
SCvlanEnable	Enable double-tagged loop detection	Data structure	Members include: • **DetectSVlanListEnable**. • **DetectCVlanListEnable**.	
DetectSVlanListEnable	SVLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DetectCVlanListEnable	CVLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DetectedAction	Action to take on an interface where a loop is detected	N/A	Enumeration: • **0**—No action. • **1**—Block. • **2**—Shutdown	N/A
Priority	The priority of the VSI	N/A	Unsigned integer. Value range: 1 to 7.	N/A
IntervalTime	Loop detection interval	N/A	Unsigned integer. Value range: 1 to 32768.	N/A

LPDT/IfLoopInfos

This table provides interface loop info.

XML structure

```
<LPDT>
  <IfLoopInfos>
    <IfLoopInfo>
      <IfIndex></IfIndex>
```

```
      <IfName></IfName>
      <LoopVlanList></LoopVlanList>
      <LoopAction></LoopAction>
    </IfLoopInfo>
  </IfLoopInfos>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	IfLoopInfos
Table type	Multi-instance table
Row name	IfLoopInfo
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 0 to 47 characters.	N/A
IfIndex	Interface index	N/A	Unsigned integer. Length: 32 bits.	N/A
LoopVlanList	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
LoopAction	Loop protection action	N/A	Enumeration: • **0**—No action. • **1**—Block • **2**—Shut down. • **3**—No learning	N/A

LPDT/IfVsiLoopInfos

This table provides VSI interface loop information.

XML structure

```
<LPDT>
  <IfVsiLoopInfos>
    <IfVsiLoopInfo>
      <IfName></IfName>
      <Srv></Srv>
      <VsiName></VsiName>
      <LoopAction></LoopAction>
      <DoAction></DoAction>
      <BlockFailed></BlockFailed>
    </IfVsiLoopInfo>
  </IfVsiLoopInfos>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	IfVsiLoopInfos
Table type	Multi-instance table
Row name	IfVsiLoopInfo
Restrictions	This table supports only Layer 2 Ethernet interfaces service instance

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 0 to 47 characters.	N/A
Srv	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
VsiName	Name of the VSI	N/A	String. Length: 1 to 31 characters.	N/A
LoopAction	Loop protection action	N/A	Enumeration: • **0**—No action. • **1**—Block. • **2**—Shut down. • **3**—No learning.	N/A

DoAction	Whether the action is permitted	N/A	Boolean: • true. • false.	N/A
BlockFailed	Whether loop blocking has failed	N/A	Boolean: • true. • false.	N/A

LPDT/ LPDTInterfaces

This table provides interface loop detection configuration.

XML structure

```
<LPDT>
  <LPDTInterfaces>
    <LPDTInterface>
      <IfName></IfName>
      <DetectVlanList></DetectVlanList>
      <DetectedAction></DetectedAction>
    </LPDTInterface>
  </LPDTInterfaces>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	LPDTInterfaces
Table type	Multi-instance table
Row name	LPDTInterface
Restrictions	This table supports only interface functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 0 to 47 characters.	N/A
DetectVlanList	VLANs to be enabled with loop detection	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< DetectVlanList base:incremental="true

Column name	Column description	Column type	Data type and restrictions	Remarks
			VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.
DetectedAction	Action to take on an interface where a loop is detected	N/A	Enumeration: • **0**—No action. • **1**—Block • **2**—Shut down • **3**—no learning	N/A

Contents

LPDT 1
LPDT/VSIs 1

LPDT

LPDT/VSIs

Message	Explanation
The VSI doesn't exist. VSI不存在。	You cannot configure loop detection for a non-existent VSI. 当执行配置类操作时，不能对不存在的 VSI 进行操作。
Loop detection has been configured on the VSI. 该VSI已经配置了环路检测。	Loop detection in another mode has been configured on the VSI. 该VSI已配置其他类型的环路检测。
You can configure loop detection for one VSI in one operation. 每次只允许对一个VSI执行一种环路检测配置。	You can configure loop detection for one VSI in one operation. 一次对一个VSI进行多种环路检测配置。
To use double-tagged frames for loop detection, please specify both SVLAN ID and CVLAN ID. 携带双层VLAN Tag的环路检测功能配置不完整	To use double-tagged frames for loop detection on a VSI, you must specify both the SVLAN ID and CVLAN ID of loop detection frames. 配置携带双层VLAN Tag的环路检测功能时，必须指定内外层VLAN列表

Contents

LPDT event stream 1
IfLoopbackedEvent event 1
XML structure for event subscription 1
XML structure for event report 1
IfVlanLoopbackedEvent event 2
XML structure for event subscription 2
XML structure for event report 3
IfVsiLoopbackedEvent event 4
XML structure for event subscription 4
XML structure for event report 4
IfVsiBlockEvent event 5
XML structure for event subscription 5
XML structure for event report 6

LPDT event stream

LPDT event stream description.

IfLoopbackedEvent event

This event is used to report interface loop detection events.

XML structure for event subscription

```
<IfLoopbackedEvent>
</IfLoopbackedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LPDT</stream>
      <filter type="subtree">
      <IfLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
      </IfLoopbackedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LPDT
Event name	IfLoopbackedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LPDT:1.0
Support for extended query	No

XML structure for event report

```
<IfLoopbackedEvent>
  <IfLoopbacked>
    <IfName></IfName>
    <LoopStatus></LoopStatus>
    <APSerialID></APSerialID>
  </IfLoopbacked>
</IfLoopbackedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <IfLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
```

```
    <IfLoopbacked>
      <IfName>GigabitEthernet0/0/3</IfName>
      <LoopStatus>2</LoopStatus>
      <APSerialID>219801A17C817200001</APSerialID>
    </IfLoopbacked>
  </IfLoopbackedEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
LoopStatus	Loop recovery status	Enumeration: • **1**—A loop exists. • **2**—A loop has been removed.	N/A
APSerialID	AP serial ID	String. Length: 0 to 63 characters.	This column is not displayed if the device is not an AP.

IfVlanLoopbackedEvent event

This event is used to report VLAN loop detection events.

XML structure for event subscription

```
<IfVlanLoopbackedEvent>
</IfVlanLoopbackedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LPDT</stream>
    <filter type="subtree">
      <IfVlanLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
      </IfVlanLoopbackedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LPDT
Event name	IfVlanLoopbackedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LPDT:1.0

Item	Description
Support for extended query	No

XML structure for event report

```
<IfVlanLoopbackedEvent>
  <IfVlanLoopbacked>
    <IfName></IfName>
    <VlanId></VlanId>
    <LoopStatus></LoopStatus>
    <APSerialID></APSerialID>
  </IfVlanLoopbacked>
</IfVlanLoopbackedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <IfVlanLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
    <IfVlanLoopbacked>
      <IfName>GigabitEthernet0/0/3</IfName>
      <VlanId>1,100</VlanId>
      <LoopStatus>2</LoopStatus>
      <APSerialID>219801A17C817200001</APSerialID>
    </IfVlanLoopbacked>
  </IfVlanLoopbackedEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
VlanId	Looped VLANs on the interface	String. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.
LoopStatus	Loop recovery status	Enumeration: • **1**—A loop exists. • **2**—A loop has been removed.	N/A
APSerialID	AP serial ID	String. Length: 0 to 63 characters.	This column is not displayed if the device is not an AP.

IfVsiLoopbackedEvent event

This event is used to report VSI loop detection events.

XML structure for event subscription

```
<IfVsiLoopbackedEvent>
</IfVsiLoopbackedEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LPDT</stream>
    <filter type="subtree">
      <IfVsiLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
      </IfVsiLoopbackedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LPDT
Event name	IfVsiLoopbackedEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LPDT:1.0
Support for extended query	No

XML structure for event report

```
<IfVsiLoopbackedEvent>
  <IfVsiLoopbacked>
    <VsiName></VsiName>
    <IfName></IfName>
    <Srv></Srv>
    <LoopStatus></LoopStatus>
  </IfVsiLoopbacked>
</IfVsiLoopbackedEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <IfVsiLoopbackedEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
    <IfVsiLoopbacked>
      <VsiName>Vsi</VsiName>
      <IfName>GigabitEthernet0/0/3</IfName>
```

```
      <Srv>1</Srv>
      <LoopStatus>2</LoopStatus>
    </IfVsiLoopbacked>
  </IfVsiLoopbackedEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
VsiName	VSI name	String. Length: 0 to 31 characters.	N/A
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
Srv	Service instance ID	Unsigned integer. Value range: 1 to 4096.	N/A
LoopStatus	Loop recovery status	Enumeration: • **1**—A loop exists. • **2**—A loop has been removed.	N/A

IfVsiBlockEvent event

This event is used to report VSI loop detection block events.

XML structure for event subscription

```
<IfVsiBlockEvent>
</IfVsiBlockEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LPDT</stream>
    <filter type="subtree">
      <IfVsiBlockEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
      </IfVsiBlockEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LPDT
Event name	IfVsiBlockEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LPDT:1.0
Support for extended query	No

XML structure for event report

```
<IfVsiBlockEvent>
  <IfVsiBlock>
    <VsiName></VsiName>
    <IfName></IfName>
    <Srv></Srv>
    <BlockStatus></BlockStatus>
  </IfVsiBlock>
</IfVsiBlockEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <IfVsiBlockEvent xmlns="http://www.h3c.com/netconf/event:1.0/LPDT:1.0">
    <IfVsiBlock>
      <VsiName>Vsi</VsiName>
      <IfName>GigabitEthernet0/0/3</IfName>
      <Srv>1</Srv>
      <BlockStatus>1</BlockStatus>
    </IfVsiBlock>
  </IfVsiBlockEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
VsiName	VSI name	String. Length: 0 to 31 characters.	N/A
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
Srv	Service instance ID	Unsigned integer. Value range: 1 to 4096.	N/A
BlockStatus	Loop blocking status	Enumeration: • **1**—Blocked. • **2**—Blocking failed. • **3**—Unblocked.	N/A

Contents

LR 1
LR/Interfaces 1
XML structure 1
Table description 1
Columns 1

LR

LR/Interfaces

This table contains information about line-rate.

XML structure

```
<LR>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Interface>
  </Interfaces>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CIR	Committed information rate	N/A	Unsigned integer.	Required. The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	The value of this column depends on the device model. If **CBS** is not configured, **EBS** can not be configured
PIR	Peak information rate	N/A	Unsigned integer.	The value of this column depends on the device model.

Contents

LR 1
LR/Interfaces 1
XML structure 1
Table description 1
Columns 2
LR/IfCapabilities 3
XML structure 3
Table description 3
Columns 4

LR

LR/Interfaces

This table contains information about line-rate.

XML structure

```
<LR>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <PassedPkts></PassedPkts>
      <DiscardedPkts></DiscardedPkts>
      <DelayedPkts></DelayedPkts>
      <PassedBytes></PassedBytes>
      <DiscardedBytes></DiscardedBytes>
      <DelayedBytes></DelayedBytes>
      <Active></Active>
      <IfName></IfName>
    </Interface>
  </Interfaces>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
PassedPkts	Number of packets that have passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPkts	Number of packets that have discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelaydePkts	Number of delayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassdedBytes	Bytes of packets that have passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Bytes of packets that have discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedBytes	Bytes of delayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Active	Whether the rate limit configuration is activated	N/A	Boolean: • **true**—Activated. • **false**—Not activated.	N/A

LR/IfCapabilities

This table contains interface capability information about line-rate.

XML structure

```
<LR>
  <IfCapabilities>
    <IfCapability>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <CIRMin></CIRMin>
      <CIRMax></CIRMax>
      <CIRGranularity></CIRGranularity>
      <CBSMin></CBSMin>
      <CBSMax></CBSMax>
      <CBSGranularity></CBSGranularity>
      <EBSMin></EBSMin>
      <EBSMax></EBSMax>
      <EBSGranularity></EBSGranularity>
      <PIRMin></PIRMin>
      <PIRMax></PIRMax>
      <PIRGranularity></PIRGranularity>
    </IfCapability>
  </IfCapabilities>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interface capabilities
Table type	Multi-instance table
Row name	Interface capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
CIRMin	Minimum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CIRMax	Maximum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CIRGranularity	Granularity of CIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSMin	Minimum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSMax	Maximum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSGranularity	Granularity of CBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
EBSMin	Minimum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
EBSMax	Maximum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.

Column name	Column description	Column type	Data type and restrictions	Remarks
EBSGranularity	Granularity of EBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRMin	Minimum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRMax	Maximum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRGranularity	Granularity of PIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

Contents

LR 1
LR 1

LR

LR

Message	Explanation
PIR should not be smaller than CIR. PIR的值不能小于CIR。	PIR should not be smaller than CIR. 限速配置峰值速率不能小于承诺信息速率。
CBS is not supported on the interface. 该接口不支持CBS配置。	CBS is not supported on the interface. 该接口不支持CBS配置。
EBS is not supported on the interface. 该接口不支持EBS配置。	EBS is not supported on the interface. 该接口不支持EBS配置。
PIR is not supported on the interface. 该接口不支持PIR配置。	PIR is not supported on the interface. 该接口不支持PIR配置。
The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行本操作。	The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行限速操作。
The rate limit configuration conflicts with the GTS configuration in the user profile already applied to the interface. 限速与已应用在接口上的User Profie中的GTS配置冲突。	The rate limit configuration conflicts with the GTS configuration in the user profile already applied to the interface. 限速与已应用在接口上的User Profie中的GTS配置冲突。

Contents

MAC 1
MAC/MacClearByVLAN 1
XML structure 1
Table description 1
Columns 1
MAC/MacClearByPortIndex 1
XML structure 2
Table description 2
Columns 2
MAC/MacClearByStatus 2
XML structure 2
Table description 3
Columns 3
MAC/MacDelLearnMac 3
XML structure 3
Table description 3
Columns 4

MAC

MAC/MacClearByVLAN

This table is used to clear MAC address entries according to VLAN ID.

XML structure

```
<MAC>
  <MacClearByVLAN>
    <ClearByVLAN>
      <Status></Status>
      <VLANID></VLANID>
    </ClearByVLAN>
  </MacClearByVLAN>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByVLAN
Table type	Multi-instance table
Row name	ClearByVLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: • **2**—Learned. • **3**—Static. • **4**—Blackhole. • **5**—Multiport. • **6**—Multicast.	If you do not specify this column, all status is set.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

MAC/MacClearByPortIndex

This table is used to clear MAC address entries according to port index.

XML structure

```
<MAC>
  <MacClearByPortIndex>
    <ClearByPortIndex>
      <Status></Status>
      <PortIndex></PortIndex>
    </ClearByPortIndex>
  </MacClearByPortIndex>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByPortIndex
Table type	Multi-instance table
Row name	ClearByPortIndex
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: • **2**—Learned. • **3**—Static.	If you do not specify this column, all status is set.
PortIndex	Port index	Index	Unsigned integer.	N/A

MAC/MacClearByStatus

This table is used to clear MAC address entries according to status.

XML structure

```
<MAC>
  <MacClearByStatus>
    <ClearByStatus>
      <Status></Status>
    </ClearByStatus>
  </MacClearByStatus>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByStatus
Table type	Multi-instance table
Row name	ClearByStatus
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: • **5**—Multiport. • **6**—Multicast.	If you do not specify this column, all status is set.

MAC/MacDelLearnMac

This table is used to delete a learned MAC address entry according to MAC address and VLAN ID.

XML structure

```
<MAC>
  <MacDelLearnMac>
    <DelLearnMac>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
    </DelLearnMac>
  </MacDelLearnMac>
</MAC>
```

Table description

Item	**Description**
Feature name	MAC
Table name	MacDelLearnMac
Table type	Multi-instance table
Row name	DelLearnMac
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

Contents

MAC 1
MAC/MacUnicastTable 1
XML structure 1
Table description 1
Columns 1
MAC/MacGroupTable 2
XML structure 2
Table description 2
Columns 2
MAC/MacAging 3
XML structure 3
Table description 3
Columns 4
MAC/MacPort 4
XML structure 4
Table description 4
Columns 5
MAC/MacVLAN 5
XML structure 5
Table description 6
Columns 6
MAC/MacFwdSrcCheck 7
XML structure 7
Table description 7
Columns 7
MAC/MacPortConfig 8
XML structure 8
Table description 8
Columns 8
MAC/SRVs 9
XML structure 9
Table description 9
Columns 9
MAC/MacForwardConverseLearn 10
XML structure 10
Table description 10
Columns 10
MAC/MacGblConfig 10
XML structure 10
Table description 11
Columns 11
MAC/VsiMultiportMacs 11
XML structure 11
Table description 12
Columns 12
MAC/VsiAcSrcMacCheck 12
XML structure 13
Table description 13
Columns 13

MAC

MAC/MacUnicastTable

This table contains unicast MAC address table information.

XML structure

```
<MAC>
  <MacUnicastTable>
    <Unicast>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <Status></Status>
    </Unicast>
  </MacUnicastTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacUnicastTable
Table type	Multi-instance table
Row name	Unicast
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PortIndex	Port index	N/A	Unsigned integer.	Required when Status is Learned or Static. It must not be specified when Status is Blackhole.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	N/A	Enumeration: • **2**—Learned. • **3**—Static. • **4**—Blackhole.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```
<MAC>
  <MacGroupTable>
    <Group>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <PortList></PortList>
    </Group>
  </MacGroupTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacGroupTable
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	N/A	Enumeration: • **5**—Multiport. • **6**—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports. the string length depends on the device port number. Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. Each bit represents a port. The left-most bit represents the port with the smallest port index 1 and the right-most bit represents the port with the biggest port index. If a bit is set, the port represented by the bit is included in the port set. Otherwise, the port isn't included.

MAC/MacAging

This table contains the information of aging time for dynamic MAC address entries.

XML structure

```
<MAC>
  <MacAging>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacAging
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Aging time for dynamic MAC address entries	N/A	Unsigned integer. Value range: 0, AgingTimeMin to AgingTimeMax seconds.	The default is 300 seconds. 0 means not aging dynamic MAC address entries. Values of AgingTimeMin and AgingTimeMax depend on the device model.

MAC/MacPort

This table contains the information of MAC learning on an interface.

XML structure

```
<MAC>
  <MacPort>
    <PortLearn>
      <PortIndex></PortIndex>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <PortForwardingEnable></PortForwardingEnable>
    </PortLearn>
  </MacPort>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
LearnEnable	Whether the MAC address learning function is enable	N/A	Boolean: • **true**(default) • **false**	N/A
LearnMaxNum	MAC learning limit on an interface	N/A	Unsigned integer. Value range: 0 to PortLearnMaxNumLimit.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. 0 means the interface is disabled from learning MAC address. The value of PortLearnMaxNumLimit depends on the device model. The default setting varies by device model.
PortForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit. Whether the PortForwarding function is enable	N/A	Boolean: • **true** (default) • **false**	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.

MAC/MacVLAN

This table contains the information of MAC learning for a VLAN.

XML structure

```
<MAC>
  <MacVLAN>
    <VLANLearn>
      <VLANID></VLANID>
```

```
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <VLANForwardingEnable></VLANForwardingEnable>
    </VLANLearn>
  </MacVLAN>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	Whether the MAC address learning function is enable	N/A	Boolean: • **true**(default) • **false**	N/A
LearnMaxNum	MAC learning limit for a VLAN	N/A	Unsigned integer. Value range: 0 to VLANLearnMaxNumLimit.	0 means the VLAN is not allowed to learn MAC addresses. The value of VLANLearnMaxNumLimit depends on the device model. The default setting varies by device model.
VLANForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit. Whether the PortForwarding function is enable	N/A	Boolean: • **true**(default) • **false**	N/A

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```
<MAC>
  <MacFwdSrcCheck>
    <FwdSrcCheck>
      <IfIndex></IfIndex>
      <FwdSrcCheckEnable></FwdSrcCheckEnable>
    </FwdSrcCheck>
  </MacFwdSrcCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacFwdSrcCheck
Table type	Multi-instance table
Row name	FwdSrcCheck
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	N/A

MAC/MacPortConfig

This table contains the information of MAC config on an interface.

XML structure

```
<MAC>
  <MacPortConfig>
    <PortConfig>
      <IfIndex></IfIndex>
      <PortBridgeEnable></PortBridgeEnable>
      </PortConfig>
  </MacPortConfig>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPortConfig
Table type	Multi-instance table
Row name	PortConfig
Restrictions	This table supports interface types: Layer 2 Ethernet interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Port index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PortBridgeEnable	Whether the MAC address bridge function is enable	N/A	Boolean: • **false** (default) • **true**	N/A

MAC/SRVs

This table contains information about service instances of Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces.

XML structure

```
<MAC>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <LrnPriority></LrnPriority>
    </SRV>
  </SRVs>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 0 to 4096.	For a Layer 3 interface, the value must be 0. For a Layer 2 interface, the value range is 1 to 4096.

Column name	Column description	Column type	Data type and restrictions	Remarks
LrnPriority	Priority type of MAC address learning	N/A	Enumeration: • **1**—high • **2**—low	N/A

MAC/MacForwardConverseLearn

This table contains configuration of MAC conversational learning.

XML structure

```
<MAC>
  <MacForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
  </MacForwardConverseLearn>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether MAC conversational learning is enabled	N/A	Boolean: • **true**. • **false** (default).	N/A

MAC/MacGblConfig

This table contains global configuration of MAC.

XML structure

```
<MAC>
  <MacGblConfig>
```

```
    <FwdSrcCheckSwitch></FwdSrcCheckSwitch>
    <HardwareLearningMode></HardwareLearningMode>
  </MacGblConfig>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacGblConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FwdSrcCheckSwitch	Global source MAC address checking	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	N/A
HardwareLearningMode	Mac Learning hardware mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A

MAC/VsiMultiportMacs

This table contains information about the local multi-port unicast MAC address entry configuration.

XML structure

```
<MAC>
  <VsiMultiportMacs>
    <VsiMultiportMac>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <MacType></MacType>
      <Port>
          <IfIndex></IfIndex>
          <SrvID></SrvID>
          <PortType></PortType>
      </Port>
    </VsiMultiportMac>
  </VsiMultiportMacs>
```

```
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	VsiMultiportMacs
Table type	Multi-instance table
Row name	VsiMultiportMac
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
MacType	Type of the MAC address entry	N/A	Enumeration: • **1**—Multiport • **2**—Multicast	N/A
Port	Port attributes	Data structure	Members include: • IfIndex • SrvID • PortType	N/A
IfIndex	Port index	N/A	• Unsigned integer.	N/A
SrvID	Service instance ID	N/A	Unsigned integer. • Value range: 0 to 4096.	0 is an invalid value and is required if the interface is a tunnel or peer link.
PortType	Port type	N/A	Enumeration: • **1**—Tunnel • **2**—AC • **3**—Peer link	N/A

MAC/VsiAcSrcMacCheck

This table contains information about the source MAC address check table item of AC entry configuration.

XML structure

```
<MAC>
  <VsiAcSrcMacCheck>
    <AcSrcMacCheck>
      <VsiName></VsiName>
      <MacAddress></MacAddress>
      <MacAddressMask></MacAddressMask>
    </AcSrcMacCheck>
  </VsiAcSrcMacCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	VsiAcSrcMacCheck
Table type	Multi-instance table
Row name	AcSrcMacCheck
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. For the get/get-confg operation,get/get-config the data same as the index column. For the create/merge/repleace operation,the MacAddress's data after configuration is the result of MacAddress & MacAddressMask. For the delete operation,the MacAddress must be the result of the MacAddress & MacAddressMask.

				For the remove operation,remove the configuration of MacAddress & MacAddressMask.
MacAddressMask	MAC address mask	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-00

Contents

MAC 1

MAC/MacUnicastTable 1
XML structure 1
Table description 1
Columns 1
MAC/MacGroupTable 2
XML structure 2
Table description 2
Columns 3
MAC/MacAging 3
XML structure 3
Table description 3
Columns 3
MAC/MacPort 4
XML structure 4
Table description 4
Columns 5
MAC/MacVLAN 5
XML structure 5
Table description 6
Columns 6
MAC/MacSpecification 6
XML structure 6
Table description 7
Columns 7
MAC/MacFwdSrcCheck 8
XML structure 8
Table description 8
Columns 8
MAC/MacPortConfig 8
XML structure 9
Table description 9
Columns 9
MAC/SRVs 9
XML structure 9
Table description 10
Columns 10
MAC/MacForwardConverseLearn 11
XML structure 11
Table description 11
Columns 11
MAC/MacGblConfig 11
XML structure 11
Table description 12
Columns 12
MAC/VsiMultiportMacs 12
XML structure 12
Table description 13
Columns 13
MAC/VsiAcSrcMacCheck 13
XML structure 14
Table description 14
Columns 14

MAC

MAC/MacUnicastTable

This table contains unicast MAC address table information.

XML structure

```
<MAC>
  <MacUnicastTable>
    <Unicast>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <PortName></PortName>
      <NickName></NickName>
      <Status></Status>
      <Aging></Aging>
    </Unicast>
  </MacUnicastTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacUnicastTable
Table type	Multi-instance table
Row name	Unicast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PortIndex	Port index	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
NickName	RB through which packets leave the TRILL network	N/A	Hexadecimal string of 16-bit number	N/A
Status	Status of the MAC address entry	N/A	Enumeration: • **0**—Other. • **1**—Security. • **2**—Learned. • **3**—Static. • **4**—Blackhole.	N/A
Aging	Aging time	N/A	Boolean: • **true**—The entry is aging. • **false**—The entry does not age.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```
<MAC>
  <MacGroupTable>
    <Group>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <PortList></PortList>
    </Group>
  </MacGroupTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacGroupTable
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Status	Status of the MAC address entry	N/A	Enumeration: • **5**—Multiport. • **6**—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports.

MAC/MacAging

This table contains the information of aging time for dynamic MAC address entries.

XML structure

```
<MAC>
  <MacAging>
    <AgingTimeMin></AgingTimeMin>
    <AgingTimeMax></AgingTimeMax>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacAging
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTimeMin	Lower limit of the aging time	N/A	Unsigned integer.	**N/A**
AgingTimeMax	Upper limit of the aging time	N/A	Unsigned integer.	N/A
AgingTime	Aging time for dynamic MAC address entries	N/A	Unsigned integer. Value range: 0, AgingTimeMin to AgingTimeMax seconds.	The default is 300 seconds. 0 means not aging dynamic MAC address entries. Values of AgingTimeMin and AgingTimeMax depend on the device model.

MAC/MacPort

This table contains the information of MAC learning on an interface.

XML structure

```
<MAC>
  <MacPort>
    <PortLearn>
      <PortIndex></PortIndex>
      <PortName></PortName>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <PortForwardingEnable></PortForwardingEnable>
    </PortLearn>
  </MacPort>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	Index	Unsigned integer.	N/A
PortName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
LearnEnable	MAC address learning	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	N/A
LearnMaxNum	MAC learning limit on an interface	N/A	Unsigned integer. Value range: 0 to PortLearnMaxNumLimit.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. 0 means the interface is disabled from learning MAC address. The value of PortLearnMaxNumLimit depends on the device model. The default setting varies by device model.
PortForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.

MAC/MacVLAN

This table contains the information of MAC learning for a VLAN.

XML structure

```
<MAC>
  <MacVLAN>
    <VLANLearn>
      <VLANID></VLANID>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <VLANForwardingEnable></VLANForwardingEnable>
    </VLANLearn>
```

```
  </MacVLAN>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	MAC address learning	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	N/A
LearnMaxNum	MAC learning limit for a VLAN	N/A	Unsigned integer. Value range: 0 to VLANLearnMaxNumLimit.	0 means the VLAN is not allowed to learn MAC addresses. The value of VLANLearnMaxNumLimit depends on the device model. The default setting varies by device model.
VLANForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	N/A

MAC/MacSpecification

This table contains MAC specifications information.

XML structure

```
<MAC>
```

```
  <MacSpecification>
    <SupportMacGroup></SupportMacGroup>
    <SupportMacVLANLearnLimit></SupportMacVLANLearnLimit>
    <PortLearnMaxNumLimit></PortLearnMaxNumLimit>
    <VLANLearnMaxNumLimit></VLANLearnMaxNumLimit>
    <SupportPortBridgeEnable></SupportPortBridgeEnable>
    <SupportGblSrcCheckSwitch></SupportGblSrcCheckSwitch>
  </MacSpecification>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportMacGroup	Supports for multiport MAC addresses.	N/A	Boolean: • **true**—Support. • **false**—Not support.
SupportMacVLANLearnLimit	Supports for configuring the MAC learning limit for a VLAN.	N/A	Boolean: • **true**—Support. • **false**—Not support.
PortLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit on an interface.	N/A	Unsigned integer.
VLANLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit for a VLAN.	N/A	Unsigned integer.
SupportPortBridgeEnable	Supports for bridge function.	N/A	Boolean: • **true**—Support. • **false**—Not support.
SupportGblSrcCheckSwitch	Supports for global source MAC check switch.	N/A	Boolean: • **true**—Support. • **false**—Not support.

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```
<MAC>
  <MacFwdSrcCheck>
    <FwdSrcCheck>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <FwdSrcCheckEnable></FwdSrcCheckEnable>
    </FwdSrcCheck>
  </MacFwdSrcCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacFwdSrcCheck
Table type	Multi-instance table
Row name	FwdSrcCheck
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	N/A

MAC/MacPortConfig

This table contains the information of MAC config on an interface.

XML structure

```
<MAC>
  <MacPortConfig>
    <PortConfig>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PortBridgeEnable></PortBridgeEnable>
    </PortConfig>
  </MacPortConfig>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPortConfig
Table type	Multi-instance table
Row name	PortConfig
Restrictions	This table supports interface types: Layer 2 Ethernet interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Port index	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
PortBridgeEnable	Whether the MAC address bridge function is enable	N/A	Boolean: • **false** (default) • **true**	N/A

MAC/SRVs

This table contains information about service instances of Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces..

XML structure

```
<MAC>
```

```
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
      <LrnPriority></LrnPriority>
    </SRV>
  </SRVs>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 0 to 4096.	For a Layer 3 interface, the value must be 0. For a Layer 2 interface, the value range is 1 to 4096.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
LrnPriority	Priority type of MAC address learning	N/A	Enumeration: • **1—high** • **2—low**	N/A

MAC/MacForwardConverseLearn

This table contains configuration of MAC conversational learning.

XML structure

```
<MAC>
  <MacForwardConverseLearn>
    <ForwardConverseLearnEnable></ForwardConverseLearnEnable>
  </MacForwardConverseLearn>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacForwardConverseLearn
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardConverseLearnEnable	Whether MAC conversational learning is enabled	N/A	Boolean: • **true**. • **false**.	N/A

MAC/MacGblConfig

This table contains global configuration of MAC.

XML structure

```
<MAC>
  <MacGblConfig>
    <FwdSrcCheckSwitch></FwdSrcCheckSwitch>
    <HardwareLearningMode></HardwareLearningMode>
  </MacGblConfig>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacGblConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FwdSrcCheckSwitch	Global source MAC address checking	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
HardwareLearningMode	Mac Learning hardware mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

MAC/VsiMultiportMacs

This table contains information about the local multi-port unicast MAC address entry configuration.

XML structure

```
<MAC>
  <VsiMultiportMacs>
    <VsiMultiportMac>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <MacType></MacType>
      <Port>
          <IfIndex></IfIndex>
          <SrvID></SrvID>
          <PortType></PortType>
      </Port>
    </VsiMultiportMac>
  </VsiMultiportMacs>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	VsiMultiportMacs
Table type	Multi-instance table
Row name	VsiMultiportMac
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
MacType	Type of the MAC address entry	N/A	Enumeration: • **1**—Multiport • **2**—Multicast	N/A
Port	Port attributes	Data structure	Members include: • IfIndex • SrvID • PortType	N/A
IfIndex	Port index	N/A	• Unsigned integer.	N/A
SrvID	Service instance ID	N/A	Unsigned integer. • Value range: 0 to 4096.	0 is an invalid value and is required if the interface is a tunnel or peer link.
PortType	Port type	N/A	Enumeration: • **1**—Tunnel • **2**—AC • **3**—Peer link	N/A

MAC/VsiAcSrcMacCheck

This table contains information about the source MAC address check table item of AC entry configuration.

XML structure

```
<MAC>
  <VsiAcSrcMacCheck>
    <AcSrcMacCheck>
      <VsiName></VsiName>
      <MacAddress></MacAddress>
      <MacAddressMask></MacAddressMask>
    </AcSrcMacCheck>
  </VsiAcSrcMacCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	VsiAcSrcMacCheck
Table type	Multi-instance table
Row name	AcSrcMacCheck
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. For the get/get-confg operation,get/get-config the data same as the index column.
MacAddressMask	MAC address mask	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-00

Contents

MAC 1

MAC/MacUnicastTable 1
MAC/MacGroupTable 2
MAC/MacPort 3
MAC/MacVLAN 3
MAC/MacFwdSrcCheck 4
MAC/MacPortConfig 5
MAC/MacClearByVLAN 5
MAC/MacGblConfig 6
MAC/VsiMultiportMacs 6
MAC/VsiAcSrcMacCheck 7

MAC

MAC/MacUnicastTable

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 当前配置不符合配置要求，请按照配置说明修改
Broadcast MAC address is not supported. 不支持广播MAC地址。	Broadcast MAC address is not supported, please modify configuration under guidance. 不支持广播MAC地址，请按照配置说明修改
Multicast MAC address is not supported. 不支持多播MAC地址。	Multicast MAC address is not supported, please modify configuration under guidance. 不支持多播MAC地址，请按照配置说明修改
Invalid MAC address. 非法的MAC地址。	Invalid MAC address configuration, please modify configuration under guidance. 非法的MAC地址，请按照配置说明修改
Subinterface is not supported. 不支持子接口	Subinterface is not supported, please modify configuration under guidance. 不支持子接口，请按照配置说明修改
Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications. 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications. 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached, please check configuration or specifications. 静态MAC地址个数超过上限，请检查配置或者设备规格
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists, please check MAC entry in device. 该MAC地址已经存在，请检查MAC表
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN, please check vlan and port configuration. 一些配置端口与VLAN不匹配，请检查vlan和端口配置
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another, please check MAC entry. 与其他MAC地址冲突

The VLAN doesn't exist. 该VLAN不存在。	The VLAN doesn't exist. 该VLAN不存在
The port is not assigned to the VLAN, or the VLAN is not permitted on the port. 该端口没有在该VLAN下，或者该端口禁止该VLAN。	The port is not assigned to the VLAN, or the VLAN is not permitted on the port. please check vlan and port configuration. 该端口没有在该VLAN下，或者该端口禁止该VLAN，请检查vlan和端口配置

MAC/MacGroupTable

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid MAC address. 非法的MAC地址。	Invalid MAC address. 非法的MAC地址。
Maximum number of ports that can be configured at a time already reached. 一次性可配端口个数超过上限。	Maximum number of ports that can be configured at a time already reached ,please check configuration or specifications 一次性可配端口个数超过上限，请检查配置或者设备规格
Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached ,please check configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached. please check configuration or specifications 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached, please check configuration or specifications 静态MAC地址个数超过上限，请检查配置或者设备规格
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists,please check MAC entry 该MAC地址已经存在， 请检查MAC 表
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN, please check VLAN and port configuration. 一些配置端口与VLAN不匹配，请检查VLAN和端口配置
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another. please check MAC configuration. 与其他MAC地址冲突。请检查MAC配置
No port exists. 无端口存在。	No port exists, please modify configuration under guidance.

	无端口存在，请按照配置说明修改
Multicast and multiport MAC addresses are not supported. 不支持多播和多端口MAC地址。	Multicast and multiport MAC addresses are not supported, please modify configuration under guidance. 不支持多播和多端口MAC地址，无效配置，请按照配置说明修改
The VLAN doesn't exist. 该VLAN不存在。	The VLAN doesn't exist，please check vlan configuration 该VLAN不存在，请检查vlan配置

MAC/MacPort

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached,please check configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached,please check configuration or specifications 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached,please check configuration or specifications 静态MAC地址个数超过上限，请检查配置或者设备规格
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists,please check MAC entry 该MAC地址已经存在,请检查MAC表
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN,please check configuration. 一些配置端口与VLAN不匹配。
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another, please check configuration. 与其他MAC地址冲突,请检查配置
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围，请按照配置说明修改

MAC/MacVLAN

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改

Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached, please check configuration or specifications 静态MAC地址个数超过上限，请检查配置或者设备规格
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists, please check configuration. 该MAC地址已经存在,请检查配置
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN, please modify configuration under guidance. 一些配置端口与VLAN不匹配，请按照配置说明修改
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another, please check configuration. 与其他MAC地址冲突,请检查配置
The VLAN doesn't exist. 该VLAN不存在。	The VLAN doesn't exist，please check vlan configuration 该VLAN不存在，请检查vlan配置
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围，请按照配置说明修改

MAC/MacFwdSrcCheck

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached, please check configuration or specifications 静态MAC地址个数超过上限，请检查配置或者设备规格

The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists, please check configuration. 该MAC地址已经存在,请检查配置
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN, please modify configuration under guidance. 一些配置端口与VLAN不匹配，请按照配置说明修改
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another, please check configuration. 与其他MAC地址冲突,请检查配置

MAC/MacPortConfig

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached. 可配多端口MAC地址的端口个数超过上限。	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
Maximum number of static MAC addresses already reached. 静态MAC地址个数超过上限。	Maximum number of static MAC addresses already reached, please check configuration or specifications 静态MAC地址个数超过上限，请检查配置或者设备规格
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists, please check configuration. 该MAC地址已经存在,请检查配置
Some configured ports are not in the VLAN. 一些配置端口与VLAN不匹配。	Some configured ports are not in the VLAN, please modify configuration under guidance. 一些配置端口与VLAN不匹配，请按照配置说明修改
The MAC address conflicts with another. 与其他MAC地址冲突。	The MAC address conflicts with another, please check configuration. 与其他MAC地址冲突,请检查配置

MAC/MacClearByVLAN

Message	Explanation
The VLAN doesn't exist. 该VLAN不存在。	The VLAN doesn't exist，please check vlan configuration 该VLAN不存在，请检查vlan配置

MAC/MacGblConfig

Message	Explanation
This operation is not supported. 不支持此操作。	This operation is not supported. 不支持此操作
There is no enough resource. 系统资源不足。	Insufficient resources (ACL resource, for example) exist to complete the operation. 系统资源不足，比如ACL资源不足等

MAC/VsiMultiportMacs

Message	Explanation
The specified service instance doesn't exist. 指定的服务实例不存在。	The specified service instance doesn't exist, please modify the configuration under guidance. 指定的服务实例不存在，请按照配置说明修改。
The tunnel interface doesn't belong to the VSI. 隧道接口不属于该VSI。	The tunnel interface doesn't belong to the VSI, please modify the configuration under guidance. 隧道接口不属于该VSI，请按照配置说明修改。
The service interface doesn't belong to the VSI. 服务实例不属于该VSI。	The service interface doesn't belong to the VSI, please modify the configuration under guidance. 服务实例不属于该VSI，请按照配置说明修改。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration, please modify the configuration under guidance. 无效配置，请按照配置说明修改。
No port exists. 无端口存在。	No port exists, please modify the configuration under guidance. 无端口存在，请按照配置说明修改。
Maximum number of ports that can be configured at a time already reached. 一次性可配端口个数超过上限。	Maximum number of ports that can be configured at a time already reached, please check configuration or specifications. 一次性可配端口个数超过上限，请检查配置或者设备规格。
Invalid MAC address. 非法的MAC地址。	Invalid MAC address. 非法的MAC地址。
The specified VSI doesn't exist. 指定的VSI不存在。	The specified VSI doesn't exist, please modify the configuration under guidance. 指定的VSI不存在，请按照配置说明修改。
The MAC address already exists. 该MAC地址已经存在。	The MAC address already exists,please check MAC entry 该MAC地址已经存在， 请检查MAC 表
Maximum number of ports that can be configured with a multiport MAC address	Maximum number of ports that can be configured with a multiport MAC address already reached ,please check

already reached. 可配多端口MAC地址的端口个数超过上限。	configuration or specifications 可配多端口MAC地址的端口个数超过上限，请检查配置或者设备规格
Maximum number of multicast and multiport MAC addresses already reached. 多播和多端口MAC地址个数超过上限。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications. 多播和多端口MAC地址个数超过上限，请检查配置或者设备规格
The specified interface is a peer-link interface, Please select the peer-link type. 指定的接口是pee-link接口，请使用peer-link接口类型	The specified interface is a peer-link interface, Please select the peer-link type. 指定的接口是pee-link接口，请使用peer-link接口类型
The peer-link interface does not exist. Peer-link接口不存在	The peer-link interface does not exist. Peer-link接口不存在

MAC/VsiAcSrcMacCheck

Message	Explanation
Illegal MAC address. 非法MAC地址。	Illegal MAC address configuration, please modify configuration under guidance. 非法的MAC地址，请按照配置说明修改
Can't specify the broadcast MAC address. 无法指定广播MAC地址。	Broadcast MAC address is not supported, please modify configuration under guidance. 不支持广播MAC地址，请按照配置说明修改
Can't specify a multicast MAC address. 无法指定多播MAC地址。	Multicast MAC address is not supported, please modify configuration under guidance. 不支持多播MAC地址，请按照配置说明修改
Invalid MAC address mask 无效的MAC地址掩码	Invalid MAC address Mask configuration, please modify configuration under guidance. 非法的MAC地址掩码，请按照配置说明修改
The specified VSI doesn't exist. 指定的 VSI 不存在。	The specified VSI doesn't exist, please modify the configuration under guidance. 指定的VSI不存在，请按照配置说明修改。
This source MAC check entry already exists. 此源MAC检查已存在。	This source MAC check entry already exists, please check source MAC check entry configuration. 一些配置端口与VLAN不匹配，请检查源MAC检查配置。
The MAC address range cannot overlap with the MAC address range of another source MAC check entry. MAC地址范围不能与另一个源MAC检查条目的MAC地址范围重叠。	The MAC address range cannot overlap with the MAC address range of another source MAC check entry, please check source MAC check entry configuration. MAC地址范围不能与另一个源MAC检查条目的MAC地址范围重叠，请检查源MAC检查配置。
Too many entries. 表项过多。	Maximum number of source MAC check entry already reached, please check configuration or specifications

	静态MAC地址个数超过上限，请检查配置或者设备规格

Contents

Underlay MAC event stream 2
Underlay MAC Event 2
XML structure for event subscription 2
XML structure for event report 2
Overlay MAC Event 5
XML structure for event subscription 5
XML structure for event report 6

Underlay MAC event stream

Underlay MAC stream description.

Underlay MAC Event

This event is used to report underlay MAC change information.

XML structure for event subscription

```
<UnderlayMacEvent>
</UnderlayMacEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MAC</stream>
    <filter type="subtree">
      <UnderlayMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/MAC:1.0">
      </UnderlayMacEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MAC
Event name	UnderlayMacEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MAC:1.0
Support for extended query	No

XML structure for event report

```
<UnderlayMacEvent>
 <UnderlayMacs>
    <EventType></EventType>
    <Sequence></Sequence>
    <VlanID></VlanID>
    <MacAddr></MacAddr>
```

```
    <IfIndex></IfIndex>
    <MacType></MacType>
    <Aging></Aging>
  </UnderlayMacs>
</UnderlayMacEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <UnderlayMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/MAC:1.0">
    <UnderlayMacs>
      <EventType>1</EventType>
      <Sequence>1</Sequence>
      <VlanID>100</VlanID>
      <MacAddr>00-0c-af-e3-5d-c0</MacAddr>
      <IfIndex>10</IfIndex>
      <MacType>1</MacType>
      <Aging>true</Aging>
    </UnderlayMacs>
  </UnderlayMacEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration 1 – Add 2 – Delete 3 – Update 4 –BatchBegin 5 –BatchAdd 6 - BatchEnd	The operation type specifies the operation that MAC should perform.
Sequence	Periodic sequence of the MAC messages.	Unsigned integer. Value range: 1 to 4294967295.	N/A
VlanID	VLAN ID	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddr	MAC address.	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
IfIndex	Output interface index.	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. It must not be specified when MacType is Blackhole.
MacType	Type of the MAC address entry.	Enumeration: • **0**—Other. • **1**—Static. • **2**—Blackhole. • **3**—Dynamic. • **4**—Security. • **5**—8021x.	N/A

Column name	Column description	Data type and restrictions	Remarks
		• **6**—Macauth. • **7**—Voicevlan. • **8**—Openflow.	
Aging	Aging time	Boolean: • **true**—The entry is aging. • **false**—The entry does not age.	N/A

Overlay MAC Event

This event is used to report overlay MAC change information.

XML structure for event subscription

```
<OverlayMacEvent>
</OverlayMacEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MAC</stream>
    <filter type="subtree">
      <OverlayMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/MAC:1.0">
      </OverlayMacEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MAC
Event name	OverlayMacEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MAC:1.0
Support for extended query	No

XML structure for event report

```
<OverlayMacEvent>
 <OverlayMacs>
   <EventType></EventType>
   <Sequence></Sequence>
   <VsiName></VsiName>
   <MacAddr></MacAddr>
   <L2VifType></L2VifType>
   <TunnelID></TunnelID>
   <IfIndex></IfIndex>
   <SrvID></SrvID>
   <MacType></MacType>
   <Aging></Aging>
  </OverlayMacs>
 </OverlayMacEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <OverlayMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/MAC:1.0">
    <OverlayMacs>
      <EventType>1</EventType>
      <Sequence>1</Sequence>
      <VsiName>vsia</VsiName>
      <MacAddr>00-0c-af-e3-5d-c0</MacAddr>
      <L2VifType>2</L2VifType>
      <TunnelID>1</TunnelID>
      <MacType>1</MacType>
    </OverlayMacs>
  </OverlayMacEvent>
</notification>

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <OverlayMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/MAC:1.0">
    <OverlayMacs>
      <EventType>1</EventType>
      <Sequence>1</Sequence>
      <VsiName>vsia</VsiName>
      <MacAddr>00-0c-af-e3-5d-c0</MacAddr>
      <L2VifType>1</L2VifType>
      <IfIndex>1</IfIndex>
      <SrvID>1</SrvID>
      <MacType>1</MacType>
```

```
    </OverlayMacs>
  </OverlayMacEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration 1 – Add 2 – Delete 3 – Update 4 –BatchBegin 5 –BatchAdd 6 - BatchEnd	The operation type specifies the operation that MAC should perform.
Sequence	Periodic sequence of the MAC messages.	Unsigned integer. Value range: 1 to 4294967295.	N/A
L2VifType	L2VPN Logical port type	Enumeration: • **0**—MAC_L2VIF_INVALID_TYPE • **1**—MAC_L2VIF_AC_TYPE • **2**—MAC_L2VIF_TUNNEL_TYPE.	N/A
VsiName	VSI name	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address.	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	Unsigned integer.	Required when L2VifType is MAC_L2VIF_ TUNNEL _TYPE.
IfIndex	Interface index.	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. Required when L2VifType

			is MAC_L2VIF_AC_TYPE.
SrvID	Service instance ID	Unsigned integer. Value range: 1 to 4096.	Required when L2VifType is MAC_L2VIF_AC_TYPE.
MacType	Type of the MAC address entry.	Enumeration: • **0**—Other. • **1**—Static. • **2**—Dynamic. • **3**—Evpn. • **4**—Ovsdb. • **5**—Openflow.	N/A
Aging	Aging time	Boolean: • **true**—The entry is aging. • **false**—The entry does not age.	N/A

Contents

MACA 1
MACA/ClearAllStatistics 1
XML structure 1
Table description 1
Columns 1
MACA/ClearInterStatistics 1
XML structure 1
Table description 2
Columns 2
MACA/ResetGVLANUser 2
XML structure 2
Table description 3
Columns 3
MACA/ResetOneGVLANUser 3
XML structure 3
Table description 3
Columns 4
MACA/ResetCVLANUser 4
XML structure 4
Table description 4
Columns 5
MACA/ResetOneCVLANUser 5
XML structure 5
Table description 5
Columns 5
MACA/ResetAccessUsers 6
XML structure 6
Table description 6
Columns 6
MACA/ResetCMicroSegmentUser 7
XML structure 7
Table description 7
Columns 7
MACA/ResetOneCMicroSegmentUser 8
XML structure 8
Table description 8
Columns 8
MACA/ManualRecoverUser 9
XML structure 9
Table description 9
Columns 9

MACA

MACA/ClearAllStatistics

This table clears MAC authentication statistics for all interfaces.

XML structure

```
<MACA>
  <ClearAllStatistics>
    <Clear></Clear>
  </ClearAllStatistics>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ClearAllStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears MAC authentication statistics for all interfaces.	N/A	This column must be empty.

MACA/ClearInterStatistics

This table clears MAC authentication statistics for an interface.

XML structure

```
<MACA>
  <ClearInterStatistics>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <Clear></Clear>
    </Interface>
  </ClearInterStatistics>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ClearInterStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's statistics .	Index	Unsigned integer.
Clear	Clears the interface's statistics.	N/A	This column must be empty.

MACA/ResetGVLANUser

This table removes all MAC authentication users from the guest VLAN on an interface.

XML structure

```
<MACA>
  <ResetGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetGVLANUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetGVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
ResetAll	Removes all MAC authentication users from the guest VLAN on the interface.	N/A	This column must be empty.

MACA/ResetOneGVLANUser

This table removes the specified MAC authentication user from the guest VLAN on an interface.

XML structure

```
<MACA>
  <ResetOneGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneGVLANUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetOneGVLANUser
Table type	Multi-instance table

Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
UserMAC	Specifies a user by its MAC address.	Index	MAC address.
Reset	Removes the specified user from the guest VLAN on the interface.	N/A	This column must be empty.

MACA/ResetCVLANUser

This table removes all MAC authentication users from the critical VLAN on an interface.

XML structure

```
<MACA>
  <ResetCVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetCVLANUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetCVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
ResetAll	Removes all MAC authentication users from the critical VLAN on the interface.	N/A	This column must be empty.

MACA/ResetOneCVLANUser

This table removes the specified MAC authentication user from the critical VLAN on an interface.

XML structure

```
<MACA>
  <ResetOneCVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneCVLANUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetOneCVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.

UserMAC	Specifies a user by its MAC address.	Index	MAC address.
Reset	Removes the specified MAC authentication user from the critical VLAN on the interface.	N/A	This column must be empty.

MACA/ResetAccessUsers

This table logs off MAC authentication users.

XML structure

```
<MACA>
  <ResetAccessUsers>
    <IfIndex></IfIndex>
    <MAC></MAC>
    <UserName></UserName>
    <Vlan></Vlan>
    <Vsi></Vsi>
    <MicroSegmentID></MicroSegmentID>
    <OnlineType></OnlineType>
  </ResetAccessUsers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetAccessUsers
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	N/A	Unsigned integer.
MAC	User MAC address	N/A	MAC address.

Column name	Column description	Column type	Data type and restrictions
UserName	Username	N/A	String. Length: 1 to 55 characters.
Vlan	User VLAN	N/A	Unsigned integer. Value range: 1 to 4094.
Vsi	User VSI	N/A	String. Length: 1 to 31 characters.
MicroSegmentID	User micro-segment-id	N/A	Unsigned integer. Value range: 1 to 65535
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successful. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.

MACA/ResetCMicroSegmentUser

This table removes all MAC authentication users from the critical segment on an interface.

XML structure

```
<MACA>
  <ResetCMicroSegmentUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetCMicroSegmentUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetCMicroSegmentUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
ResetAll	Removes all MAC authentication users from the critical micro-segment on the interface.	N/A	This column must be empty.

MACA/ResetOneCMicroSegmentUser

This table removes the specified MAC authentication user from the critical micro-segment on an interface.

XML structure

```
<MACA>
  <ResetOneCMicroSegmentUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneCMicroSegmentUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetOneCMicroSegmentUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.

UserMAC	Specifies a user by its MAC address.	Index	MAC address.
Reset	Removes the specified MAC authentication user from the critical VLAN on the interface.	N/A	This column must be empty.

MACA/ManualRecoverUser

This table contains information for requesting user information from a RESTful server.

XML structure

```
<MACA>
  <ManualRecoverUser>
    <ProfileName></ProfileName>
    <IfIndex></IfIndex>
  </ManualRecoverUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ManualRecoverUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name	Index	String, case-insensitive. Length: 1 to 31 characters.
IfIndex	Interface index	N/A	Unsigned integer. Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions
			Reference.

Contents

MACA 1
MACA/Common 1
XML structure 1
Table description 1
Columns 2
MACA/Interfaces 3
XML structure 3
Table description 4
Columns 4
MACA/OfflineDetectTimers 7
XML structure 7
Table description 7
Columns 7
MACA/AccessUserLog 8
XML structure 8
Table description 8
Columns 8
MACA/ProxyPorts 9
XML structure 9
Table description 9
Columns 9
MACA/UserRecoveryProfiles 10
XML structure 10
Table description 10
Columns 10
MACA/AutoRecoverUser 11
XML structure 12
Table description 12
Columns 12
MACA/RedirectUrls 12
XML structure 12
Table description 13
Columns 13

MACA

MACA/Common

This table contains information about MAC authentication global parameters.

XML structure

```
<MACA>
  <Common>
    <Enable></Enable>
    <Domain></Domain>
    <UserNameFormat></UserNameFormat>
    <Section></Section>
    <LowerCase></LowerCase>
    <UserName></UserName>
    <UserPassword></UserPassword>
    <IdleInterval></IdleInterval>
    <QuietInterval></QuietInterval>
    <ServerInterval></ServerInterval>
    <CVlanInterval></CVlanInterval>
    <CVsiInterval></CVsiInterval>
    <GVlanInterval></GVlanInterval>
    <GVsiInterval></GVsiInterval>
    <CSegInterval></CSegInterval>
    <MaxSilentMac></MaxSilentMac>
    <TempUserInterval></TempUserInterval>
    <AuthenMethod></AuthenMethod>
  </Common>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global MAC authentication status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).
Domain	Authentication domain	N/A	String. Length: 1 to 255 characters. Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.
UserNameFormat	User account format	N/A	Enumeration: • **1**—Fixed. • **2**—Individual MAC address(default).
Section	MAC address format	N/A	Enumeration: • **1**—Six sections. • **2**—Without hyphen (default). • **3**—Three sections.
LowerCase	Letters in lower case	N/A	Enumeration: • **1**—Lower case (default). • **2**—Upper case.
UserName	Fixed username of the device	N/A	String. Length: 1 to 55 characters. Default value is “mac”.
UserPassword	Password for the fixed user name	N/A	String. Length: 1 to 63 characters. Default is not configured. The user password is in plain text.
IdleInterval	Value for the offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds. Default: 300 seconds.
QuietInterval	Value for the quiet timer	N/A	Unsigned integer. Value range: 1 to 3600 seconds. Default: 60 seconds.
ServerInterval	Value for the server timeout timer	N/A	Unsigned integer. Value range: 100 to 300 seconds. Default: 100 seconds.
CVlanInterval	User aging timer value for MAC authentication critical	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	VLANs		Value range: 60 to 2147483647 seconds.
CVsiInterval	User aging timer value for MAC authentication critical VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVlanInterval	User aging timer value for MAC authentication guest VLANs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVsiInterval	User aging timer value for MAC authentication guest VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
CSegInterval	User aging timer value for MAC authentication critical microsegments	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
MaxSilentMac	Maximum number of silent MACs on every device	N/A	Unsigned integer. Value range: 1000 to product customization. Default: 1024.
TempUserInterval	Value for the temporary user aging timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds. Default: 60 seconds.
AuthenMethod	Authentication method of MAC authentication	N/A	Enumeration: • PAP—The Authentication method is PAP(default). • CHAP—The Authentication method is CHAP.

MACA/Interfaces

This table contains MAC authentication information on interfaces.

XML structure

```
<MACA>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <AuthDelayInterval></AuthDelayInterval>
      <MaxUser></MaxUser>
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MultiVLAN></MultiVLAN>
```

```
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <CriticalVSI>
        <VSIName></VSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </CriticalVSI>
      <GuestVSI></GuestVSI>
      <Carry>
        <UserIP></UserIP>
        <ACLNumber></ACLNumber>
      </Carry>
      <Domain></Domain>
      <AuthOrder></AuthOrder>
      <CriticalMicroSegment>
        <CriticalMicroSegmentID></CriticalMicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </CriticalMicroSegment>
      <CriticalProfile></CriticalProfile>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Status of MAC authentication	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).
AuthDelayInterval	Value for MAC authentication delay timer	N/A	Unsigned integer. Value range: 1 to 180 seconds.

Column name	Column description	Column type	Data type and restrictions
			Default: Not configured.
MaxUser	Maximum number of users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295. Default: 4294967295.
MaxPreAuthUser	Maximum number of preauth-domain users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295. Default: 4294967295.
MaxAuthFailUser	Maximum number of auth-fail-domain users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295. Default: 4294967295.
ReauthUnreachableMode	Status of users when the AAA server is not available for MAC reauthentication	N/A	Enumeration: • **1**—Offline(default). • **2**—Online.
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: • **0**—Single VLAN(default). • **1**—Multiple VLAN.
CriticalVLAN	VLAN for users that have failed MAC authentication because of unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094. Default: Not configured.
GuestVLAN	VLAN for users that have failed MAC authentication because of any reason other than unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094. Default: Not configured.
CriticalVSI	VSI for users that have failed MAC authentication because of unreachable servers	Data structure	Members include: • VSIName. • UrlUserLogoff.
VSIName	Critical VSI name	N/A	String. Length: 1 to 31 characters.
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on the port when the first user is assigned to the critical VSI	N/A	Enumeration: • **0**—Keeps the users online (default). • **1**—Logs off the users.
GuestVSI	VSI for users that have failed MAC authentication because of any reason other than unreachable servers	N/A	String. Length: 1 to 31 characters.
Carry	Settings for the feature of including user IP addresses in MAC authentication requests	Data structure	Members include: • UserIP. ACLNumber.
UserIP	Whether to include user IP addresses in MAC authentication requests	N/A	Boolean: • **true**—Include. **false**—Exclude.

Column name	Column description	Column type	Data type and restrictions
ACLNumber	ACL used to filter source IP addresses that can or cannot trigger MAC authentication	N/A	Unsigned integer. Value range: 2000 to 2999 and 5000 to 5999. Default: 0 (no ACL is specified to filter source IP addresses).
Domain	Authentication domain of users on the interface	N/A	String. Length: 1 to 255 characters. Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.
AuthOrder	Whether to process MAC authentication immediately after 802.1X authentication is triggered	N/A	Boolean: • **true** • **false**
CriticalMicroSegment	Micro-segment for users that have failed MAC authentication because of unreachable servers	Data structure	N/A
CriticalMicroSegmentID	Critical microsegmen ID	N/A	Unsigned integer. Value range: 1 to 65535
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on the port when the first user is assigned to the critical microsegment Whether to log off users that have been assigned authorization URLs on the port when the first user is assigned to the critical segment	N/A	Enumeration: • **0**—Keeps the users online (default) • **1**—Logs off the users..
CriticalProfile	Critical profile for users that have failed MAC authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0**—Disables online users to bypass offline detection when all authentication servers are unavailable. **1**—Enables online users to bypass offline detection and stay online when all authentication servers are unavailable.

MACA/OfflineDetectTimers

This table contains the parameters for configuring MAC authentication offline detection on a per-user basis.

XML structure

```
<MACA>
  <OfflineDetectTimers>
    <OfflineDetectTimer>
      <MacAddr></MacAddr>
      <Timer></Timer>
      <CheckSnooping></CheckSnooping>
    </OfflineDetectTimer>
  </OfflineDetectTimers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	OfflineDetectTimers
Table type	Multi-instance table
Row name	OfflineDetectTimer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	User MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Timer	User offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds. 0: Skips offline detection for the specified user.	N/A
CheckSnooping	Whether to use the ARP snooping or ND snooping table to determine the offline state of	N/A	Boolean: • **true**. • **false**	• If the ARP snooping or ND snooping table is used, the device searches the ARP snooping or ND snooping table before it checks for traffic from the user within the detection interval. If a matching ARP

Column name	Column description	Column type	Data type and restrictions	Remarks
	the user			snooping or ND snooping entry is found, the device resets the offline detect timer and the user stays online. If the offline detect timer expires because the device has not found a matching snooping entry for the user or received traffic from the user, the device disconnects the user. • If the ARP or ND snooping table is not used, the device disconnects the user if it has not received traffic from that user before the offline detect timer expires.

MACA/AccessUserLog

This table controls the enabling status of logging about MAC authentication users.

XML structure

```
<MACA>
  <AccessUserLog>
    <FailedLogin></FailedLogin>
    <Logoff></Logoff>
    <SuccessfulLogin></SuccessfulLogin>
  </AccessUserLog>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	AccessUserLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
FailedLogin	Whether to enable logging about MAC authentication	N/A	Boolean: • **true**—Enable.

Column name	Column description	Column type	Data type and restrictions
	user login failures		• **false**—Disable(default).
Logoff	Whether to enable logging about MAC authentication user logoffs	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).
SuccessfulLogin	Whether to enable logging about successful MAC authentication user logins	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).

MACA/ProxyPorts

This table contains proxy port infomation of mac-auth.

XML structure

```
<MACA>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
      <ProxyType></ProxyType>
    </ProxyPort>
  </ProxyPorts>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PortNumber	Port number of TCP	Index	Unsigned integer. Value range: 1-65535. except 80,443
ProxyType	Type of proxy	N/A	Enumeration: • **0**—HTTP • **1**—HTTPS.

MACA/UserRecoveryProfiles

This table contains information for requesting user information from restful server.

XML structure

```
<MACA>
  <UserRecoveryProfiles>
    <UserRecoveryProfile>
      <ProfileName></ProfileName>
      <Server>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Port></Port>
        <VRF></VRF>
        <URI></URI>
      </Server>
      <LoginName>
        <UserName></UserName>
        <UserPassword></UserPassword>
      </LoginName>
      <NasIp>
        <NasIpType></NasIpType>
        <NasIpAddress></NasIpAddress>
      </NasIp>
    </UserRecoveryProfile>
  </UserRecoveryProfiles>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	UserRecoveryProfiles
Table type	Multi-instance table
Row name	UserRecoveryProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name.	Index	String, case-insensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 31 characters.
Server	Server information.	Data structure	Members include: • IpType. • Host. • Port. • VRF • URI
IpType	IP version of the restful server IP address	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.
IpAddress	IP address of the restful server.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
Port	Port number of the restful server.	N/A	Unsigned integer. Value range: 1 to 65535. The default value is 80.
VRF	VPN instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.
URI	URI for requesting user information form the restful server.	N/A	String. Length: 1 to 255 characters.
LoginName	Login name for connecting to the restful server.	Data structure	Members include: • UserName. • UserPassword.
UserName	Login user name.	N/A	String. Length: 1 to 55 characters.
UserPassword	Login password.	N/A	String. Length: 1 to 63 characters. Default is not configured. The user password is in plain text.
NasIp	NAS IP	Data structure	Members include: • NasIpType. • NasIpAddress.
NasIpType	IP version of the NAS IP address.	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.
NasIpAddress	NAS IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.

MACA/AutoRecoverUser

This table specifies profiles for requesting user information.

XML structure

```
<MACA>
  <AutoRecoverUsers>
    <AutoRecoverUser>
      <ProfileName></ProfileName>
    </AutoRecoverUser>
  </AutoRecoverUsers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	AutoRecoverUsers
Table type	Multi-instance table
Row name	AutoRecoverUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name.	Index	String, case-insensitive. Length: 1 to 31 characters.

MACA/RedirectUrls

This table specifies URLs of Web servers to be tracked for reachability changes.

XML structure

```
<MACA>
  <RedirectUrls>
    <RedirectUrl>
      <Url></Url>
      <TrackId></TrackId>
    </RedirectUrl>
  </RedirectUrls>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	RedirectUrls
Table type	Multi-instance table
Row name	RedirectUrl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Url	URL of a Web server	N/A	String. Length: 1 to 255 characters. Default is not configured.
TrackId	Track ID associated with the URL	N/A	Unsigned integer. Value range: 1 to 1024.

Contents

MACA 1

MACA/Common 1
XML structure 1
Table description 1
Columns 2
MACA/SilentMAC 3
XML structure 3
Table description 3
Columns 3
MACA/Interfaces 4
XML structure 4
Table description 5
Columns 5
MACA/InterfaceUsers 7
XML structure 7
Table description 8
Columns 8
MACA/OfflineDetectTimers 9
XML structure 9
Table description 10
Columns 10
MACA/AccessUserLog 11
XML structure 11
Table description 11
Columns 11
MACA/InterfaceUsersCount 11
XML structure 11
Table description 12
Columns 12
MACA/ProxyPorts 12
XML structure 12
Table description 12
Columns 13
MACA/UserMACs 13
XML structure 13
Table description 13
Columns 14
MACA/UserRecoveryProfiles 14
XML structure 14
Table description 14
Columns 15
MACA/AutoRecoverUser 16
XML structure 16
Table description 16
Columns 16
MACA/RedirectUrls 16
XML structure 16
Table description 17
Columns 17

MACA

MACA/Common

This table contains information about MAC authentication global parameters.

XML structure

```
<MACA>
  <Common>
    <Enable></Enable>
    <Domain></Domain>
    <UserNameFormat></UserNameFormat>
    <Section></Section>
    <LowerCase></LowerCase>
    <UserName></UserName>
    <IdleInterval></IdleInterval>
    <QuietInterval></QuietInterval>
    <ServerInterval></ServerInterval>
    <OnlineUserNum></OnlineUserNum>
    <SilentMACNum></SilentMACNum>
    <SilentMACNum></SilentMACNum>
    <CVlanInterval></CVlanInterval>
    <ClVsiInterval></CVsiInterval>
    <GVlanInterval></GVlanInterval>
    <GVsiInterval></GVsiInterval>
    <CSegInterval></CSegInterval>
    <MaxSilentMac></MaxSilentMac>
    <TempUserInterval></TempUserInterval>
    <AuthenMethod></AuthenMethod>
  </Common>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global MAC authentication status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
Domain	Authentication domain of the user	N/A	String. Length: 1 to 255 characters.
UserNameFormat	User account format	N/A	Enumeration: • **1**—Fixed. • **2**—Individual MAC address.
Section	MAC address format	N/A	Enumeration: • **1**—Six sections. • **2**—Without hyphen. • **3**—Three sections.
LowerCase	Letters in lower case	N/A	Enumeration: • **1**—Lower case. • **2**—Upper case.
UserName	Fixed username of the device	N/A	String. Length: 1 to 55 characters.
IdleInterval	Value for the offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
QuietInterval	Value for the quiet timer	N/A	Unsigned integer. Value range: 1 to 3600 seconds.
ServerInterval	Value for the server timeout timer	N/A	Unsigned integer. Value range: 100 to 300 seconds.
OnlineUserNum	Current online user count	N/A	Unsigned integer.
SilentMACNum	Current silent MAC count	N/A	Unsigned integer.
CVlanInterval	User aging timer value for MAC authentication critical VLANs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
CVsiInterval	User aging timer value for MAC authentication critical VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVlanInterval	User aging timer value for MAC authentication guest VLANs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
GVsiInterval	User aging timer value for MAC authentication guest VSIs	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
CSegInterval	User aging timer value for MAC authentication critical microsegments	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.

Column name	Column description	Column type	Data type and restrictions
MaxSilentMac	Maximum number of silent MACs on every device	N/A	Unsigned integer. Value range: 1000 to product customization.
TempUserInterval	Value for the temporary user aging timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
AuthenMethod	Authentication method of MAC authentication	N/A	Enumeration: • PAP—The Authentication method is PAP. • CHAP—The Authentication method is CHAP.

MACA/SilentMAC

This table contains silent MAC information of MAC authentication.

XML structure

```
<MACA>
  <SilentMACs>
    <SilentMAC>
      <MAC></MAC>
      <VLANID></VLANID>
      <IfIndex></IfIndex>
    </SilentMAC>
  </SilentMACs>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	SilentMACs
Table type	Multi-instance table
Row name	SilentMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MAC	Silent MAC address	Index	MAC address.
VLANID	From which VLAN the MAC	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	tries to logs on		Value range: 1 to 4094.
IfIndex	Interface index	Index	Unsigned integer.

MACA/Interfaces

This table contains MAC authentication information on interfaces.

XML structure

```
<MACA>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <AuthDelayEnable></AuthDelayEnable>
      <AuthDelayInterval></AuthDelayInterval>
      <MaxUser></MaxUser>
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MultiVLAN></MultiVLAN>
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <CriticalVSI>
        <VSIName></VSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </CriticalVSI>
      <GuestVSI></GuestVSI>
      <Carry>
        <UserIP></UserIP>
        <ACLNumber></ACLNumber>
      </Carry>
      <OnlineUserNum></OnlineUserNum>
      <Domain></Domain>
      <AuthOrder></AuthOrder>
      <CriticalMicroSegment>
        <CriticalMicroSegmentID></CriticalMicroSegmentID>
        <MicroSegmentVSIName></MicroSegmentVSIName>
        <UrlUserLogoff></UrlUserLogoff>
      </CriticalMicroSegment>
      <CriticalProfile></CriticalProfile>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Status of MAC authentication	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
AuthDelayEnable	Status of MAC authentication delay	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
AuthDelayInterval	Value for MAC authentication delay timer	N/A	Unsigned integer Value range: 1 to 180 seconds.
MaxUser	Maximum number of users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295.
MaxPreAuthUser	Maximum number of preauth-domain users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295.
MaxAuthFailUser	Maximum number of auth-fail-domain users on this interface	N/A	Unsigned integer. Value range:1 to 4294967295.
ReauthUnreachableMode	Status of users when the AAA server is not available for MAC reauthentication	N/A	Enumeration: • **1**—Offline. • **2**—Online.
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: • **0**—Single VLAN. • 1—Multiple VLAN.
CriticalVLAN	VLAN for users that have failed MAC authentication because of unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094.
GuestVLAN	VLAN for users that have failed MAC authentication because of any reason other than unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094.

Column name	Column description	Column type	Data type and restrictions
CriticalVSI	VSI for users that have failed MAC authentication because of unreachable servers	Data structure	Members include: • VSIName. • UrlUserLogoff.
VSIName	Critical VSI name	N/A	String. Length: 1 to 31 characters.
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on the port when the first user is assigned to the critical VSI	N/A	Enumeration: • **0**—Keeps the users online. • **1**—Logs off the users.
GuestVSI	VSI for users that have failed MAC authentication because of any reason other than unreachable servers	N/A	String. Length: 1 to 31 characters.
Carry	Settings for the feature of including user IP addresses in MAC authentication requests	Data structure	Members include: • UserIP. • ACLNumber.
UserIP	Whether to include user IP addresses in MAC authentication requests	N/A	Boolean: • **true**—Include. • **false**—Exclude.
ACLNumber	ACL used to filter source IP addresses that can or cannot trigger MAC authentication	N/A	Unsigned integer. Value range: 2000 to 2999 and 5000 to 5999. Default: 0 (no ACL is specified to filter source IP addresses).
OnlineUserNum	Current online user count on the interface	N/A	Unsigned integer.
Domain	Authentication domain of users on the interface	N/A	String. Length: 1 to 255 characters. Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.
AuthOrder	Whether to process MAC authentication immediately after 802.1X authentication is triggered	N/A	Boolean: • **true** • **false**
CriticalMicroSegment	Micro-segment for users that have failed MAC authentication because of unreachable servers	Data structure	N/A
CriticalMicroSegmentID	Critical microsegment ID	N/A	Unsigned integer. Value range: 1 to 65535
MicroSegmentVSIName	VSI name used to match user packets in VSIs	N/A	String. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs on the port when the first user is assigned to the critical microsegment	N/A	Enumeration: • **0**—Keeps the users online • **1**—Logs off the users..
CriticalProfile	Critical profile for users that have failed MAC authentication because of unreachable servers	N/A	String. Length: 1 to 31 characters.
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0**—Disables online users to bypass offline detection when all authentication servers are unavailable. • **1**—Enables online users to bypass offline detection and stay online when all authentication servers are unavailable.

MACA/InterfaceUsers

This table displays MAC authentication user information.

XML structure

```
<MACA>
  <InterfaceUsers>
    <InterfaceUser>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Name></Name>
      <Domain></Domain>
      <InitialVLAN></InitialVLAN>
      <AuthzVLAN></AuthzVLAN>
      <AuthzACLGroup></AuthzACLGroup>
      <AuthzUserProfile></AuthzUserProfile>
      <TermAction></TermAction>
      <TimeoutPeriod></TimeoutPeriod>
      <LogonTime></LogonTime>
      <OnlineDuration></OnlineDuration>
      <AuthzVSI></AuthzVSI>
      <AuthzMicroSegmentID></AuthzMicroSegmentID>
      <AuthzURL></AuthzURL>
      <AuthzIPv6URL></AuthzIPv6URL>
      <DrniNasIpType></DrniNasIpType>
      <DrniUserState></DrniUserState>
```

```
      <MLagNasIpType></MLagNasIpType>
      <MLagUserState></MLagUserState>
      <OnlineType></OnlineType>
    </InterfaceUser>
  </InterfaceUsers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	InterfaceUsers
Table type	Multi-instance table
Row name	InterfaceUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
UserMAC	MAC address of the user on the interface	Index	MAC address.
Name	Username of the user	N/A	String. Length: 1 to 253 characters.
Domain	ISP domain used for MAC authentication	N/A	String. Length: 1 to 255 characters.
InitialVLAN	VLAN to which the user belongs before MAC authentication	N/A	Unsigned integer. Value range: 1 to 4094.
AuthzVLAN	VLAN authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 4094.
AuthzACLGroup	ACL authorized to the authenticated user	N/A	Unsigned integer.
AuthzUserProfile	User profile authorized to the authenticated user	N/A	String.
TermAction	Action attribute assigned by the AAA server when the session timeout timer expires	N/A	Enumeration: • **0**—Default. • **1—**Radius-request.
TimeoutPeriod	Value for the AAA server-assigned session timeout timer	N/A	Unsigned integer

Column name	Column description	Column type	Data type and restrictions
LogonTime	Time at which the user logs into the device	N/A	String. Format: YYYY-MM-DD HH:MM:SS.
OnlineDuration	Online duration of the user	N/A	Unsigned integer.
AuthzVSI	VSI name allocated for authenticated user by the AAA server	N/A	String. Length: 1 to 31 characters.
AuthzMicroSegmentID	Microsegment ID authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 65535
AuthzURL	URL assigned to the user after the user passes authentication	N/A	String. Length: 1 to 255 characters.
AuthzIPv6URL	IPv6 URL assigned to the user after the user passes authentication	N/A	String. Length: 1 to 255 characters.
DrniNasIpType	In DRNI networking, the nas ip address type used for user authentication on DR interface	N/A	Enumeration: • **1**—Local. • **2**—Peer.
DrniUserState	User status on DR interface in DRNI network	N/A	Enumeration: • **0**—Inactive. • **1**—Active.
MLagNasIpType	In MLAG networking, the nas ip address type used for user authentication on MLAG interface	N/A	Enumeration: • “Local”. • “Peer**”.**
MLagUserState	User status on MLAG interface in MLAG network	N/A	Enumeration: • “Inactive”. • “Active**”.**
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successful. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.

MACA/OfflineDetectTimers

This table contains the parameters for configuring MAC authentication offline detection on a per-user basis.

XML structure

```
<MACA>
  <OfflineDetectTimers>
    <OfflineDetectTimer>
      <MacAddr></MacAddr>
```

```
    <Timer></Timer>
    <CheckSnooping></CheckSnooping>
  </OfflineDetectTimer>
 </OfflineDetectTimers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	OfflineDetectTimers
Table type	Multi-instance table
Row name	OfflineDetectTimer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	User MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Timer	User offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds. 0: Skips offline detection for the specified user.	N/A
CheckSnooping	Whether to use the ARP snooping or ND snooping table to determine the offline state of the user	N/A	Boolean: • **true**. • **false**	• If the ARP snooping or ND snooping table is used, the device searches the ARP snooping or ND snooping table before it checks for traffic from the user within the detection interval. If a matching ARP snooping or ND snooping entry is found, the device resets the offline detect timer and the user stays online. If the offline detect timer expires because the device has not found a matching snooping entry for the user or received traffic from the user, the device disconnects the user. • If the ARP or ND snooping table is not used, the device disconnects the user if it has not received traffic from that user before the offline detect timer expires.

MACA/AccessUserLog

This table controls the enabling status of logging about MAC authentication users.

XML structure

```
<MACA>
  <AccessUserLog>
    <FailedLogin></FailedLogin>
    <Logoff></Logoff>
    <SuccessfulLogin></SuccessfulLogin>
  </AccessUserLog>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	AccessUserLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FailedLogin	Whether logging about MAC authentication user login failures is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
Logoff	Whether logging about MAC authentication user logoffs is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
SuccessfulLogin	Whether logging about successful MAC authentication user logins is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

MACA/InterfaceUsersCount

This table contains the number of current online MAC authentication users.

XML structure

```
<MACA>
```

```
  <InterfaceUsersCount>
    <Count></Count>
  </InterfaceUsersCount>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	InterfaceUsersCount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Count	Number of current online users	N/A	Unsigned integer.

MACA/ProxyPorts

This table contains proxy port infomation of mac-auth.

XML structure

```
<MACA>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
      <ProxyType></ProxyType>
    </ProxyPort>
  </ProxyPorts>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PortNumber	Port number of TCP	Index	Unsigned integer. Value range: 1-65535. except 80,443
ProxyType	Type of proxy	N/A	Enumeration: • **0**—HTTP • **1**—HTTPS.

MACA/UserMACs

This table displays MAC authentication MAC-Address information.

XML structure

```
<MACA>
  <UserMACs>
    <UserMAC>
      <Type></Type>
      <IfIndex></IfIndex>
      <MAC></MAC>
    </UserMAC>
  </UserMACs>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	UserMACs
Table type	Multi-instance table
Row name	UserMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Where are the users in	index	Enumeration: • **1**—Critical VLAN. • **2**—Critical VSI. • **3**—Guest VLAN. • **4**—Guest VSI. • **5**—Critical microsegment.
IfIndex	Interface index	index	Unsigned integer.
MAC	Mac-address of the users	index	MAC address.

MACA/UserRecoveryProfiles

This table contains information for requesting user information from restful server.

XML structure

```
<MACA>
  <UserRecoveryProfiles>
    <UserRecoveryProfile>
      <ProfileName></ProfileName>
      <Server>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Port></Port>
        <VRF></VRF>
        <URI></URI>
      </Server>
      <LoginName>
        <UserName></UserName>
      </LoginName>
      <NasIp>
        <NasIpType></NasIpType>
        <NasIpAddress></NasIpAddress>
      </NasIp>
    </UserRecoveryProfile>
  </UserRecoveryProfiles>
</MACA>
```

Table description

Item	Description
Feature name	MACA

Table name	UserRecoveryProfiles
Table type	Multi-instance table
Row name	UserRecoveryProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name.	Index	String, case-insensitive. Length: 1 to 31 characters.
Server	Server information.	Data structure	Members include: • IpType. • Host. • Port. • VRF • URI
IpType	IP version of the restful server IP address	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.
IpAddress	IP address of the restful server.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
Port	Port number of the restful server.	N/A	Unsigned integer. Value range: 1 to 65535. The default value is 80.
VRF	VPN instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.
URI	URI for requesting user information form the restful server.	N/A	String. Length: 1 to 255 characters.
LoginName	Login name for connecting to the restful server.	Data structure	Members include: • UserName.
UserName	Login user name.	N/A	String. Length: 1 to 55 characters.
NasIp	NAS IP	Data structure	Members include: • NasIpType. • NasIpAddress.
NasIpType	IP version of the NAS IP address.	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.
NasIpAddress	NAS IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.

MACA/AutoRecoverUser

This table specifies profiles for requesting user information.

XML structure

```
<MACA>
  <AutoRecoverUsers>
    <AutoRecoverUser>
      <ProfileName></ProfileName>
    </AutoRecoverUser>
  </AutoRecoverUsers>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	AutoRecoverUsers
Table type	Multi-instance table
Row name	AutoRecoverUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name.	Index	String, case-insensitive. Length: 1 to 31 characters.

MACA/RedirectUrls

This table specifies URLs of Web servers to be tracked for reachability changes.

XML structure

```
<MACA>
  <RedirectUrls>
    <RedirectUrl>
      <Url></Url>
      <TrackId></TrackId>
    </RedirectUrl>
```

```
  </RedirectUrls>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	RedirectUrls
Table type	Multi-instance table
Row name	RedirectUrl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Url	URL of a Web server	N/A	String. Length: 1 to 255 characters. Default is not configured.
TrackId	Track ID associated with the URL	N/A	Unsigned integer. Value range: 1 to 1024.

Contents

MAC Authentication 1
MACA/IF 1
MACA /Univerauth 2
MACA/ProxyPorts 3

MAC Authentication

MACA/IF

Message	Explanation
Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。	Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。
Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。	Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。
The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。	The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。
Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。	Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。
Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。	Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。
Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。	Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。
Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。	Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。
Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。	Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。
Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。	Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。
This operation conflicts with VSI configuration. 此操作和VSI配置冲突。	VLAN or microsegmentation configuration conflicts with VSI configuration. VLAN或微分段的配置和VSI配置冲突。
This operation conflicts with VLAN configuration. 此操作和VLAN配置冲突。	VSI or microsegmentation configuration conflicts with VLAN configuration. VSI或微分段的配置和VLAN配置冲突

This operation conflicts with microsegment configuration. 此操作和Micro-Segment配置冲突。	VLAN or VSI configuration conflicts with microsegment configuration. VLAN或VSI配置和微分段的配置冲突。
Can't enable MAC authentication on an IPP port. 不能使能MAC地址认证，因为这是一个IPP接口。	Can't enable MAC authentication on an IPP port. 不能使能MAC地址认证，因为这是一个IPP接口。
This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。	This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。
This operation conflicts with the URL-unavailable domain configuration. 此操作和URL逃生域配置冲突。	The MAC authentication guest VLAN or VSI and critical VLAN, VSI, microsegment, or profile settings conflict with the URL-unavailable domain configuration. MAC地址认证的Guest VLAN/VSI和Critical VLAN/VSI/microsegment/profile配置都与URL逃生域配置冲突。
Can’t configure the MAC authentication max user number. 当前不支持MAC地址认证最大用户数配置。	Can’t configure the MAC authentication max user number. 当前不支持MAC地址认证最大用户数配置。
Can’t configure the MAC authentication multi-vlan. 当前不支持MAC地址认证VLAN模式配置。	Can’t configure the MAC authentication multi-vlan. 当前不支持MAC地址认证VLAN模式配置。
Can’t configure the MAC authentication critical vlan. 当前不支持MAC地址认证Critical VLAN配置。	Can’t configure the MAC authentication critical vlan. 当前不支持MAC地址认证Critical VLAN配置。
Can’t configure the MAC authentication guest vlan. 当前不支持MAC地址认证Guest VLAN配置。	Can’t configure the MAC authentication guest vlan. 当前不支持MAC地址认证Guest VLAN配置。

MACA /Univerauth

Message	Explanation
Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。	Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。
Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。	Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。
The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。	The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。
Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。	Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。
Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。	Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。
Can't set a nonexistent VLAN as the guest VLAN.	Can't set a nonexistent VLAN as the guest VLAN.

无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。	无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。
Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。	Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。
Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。	Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。
Can't disable MAC authentication when port security is already enabled. 不能关闭MAC地址认证，因为已经使能端口安全。	Can't disable MAC authentication when port security is already enabled. 不能关闭MAC地址认证，因为已经使能端口安全。
Can't disable MAC authentication on the port when the port security mode is not noRestriction. 不能在端口上关闭MAC地址认证，因为端口安全模式不为noRestriction。	Can't disable MAC authentication on the port when the port security mode is not noRestriction. 不能在端口上关闭MAC地址认证，因为端口安全模式不为noRestriction。
Invalid username. 用户名不合法。	Invalid username. 用户名不合法。
Can't configure the username and password when the user account format is individual MAC address. 当用户账号格式为MAC地址时，不允许配置用户名和密码。	Can't configure the username and password when the user account format is individual MAC address. 当用户账号格式为MAC地址时，不允许配置用户名和密码。
Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。	Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。
Can't disable MAC authentication on the port when port-based access control is used. 不能在端口上关闭MAC地址认证，因为端口的接入控制方式为基于端口认证。	Can't disable MAC authentication on the port when port-based access control is used. 不能在端口上关闭MAC地址认证，因为端口的接入控制方式为基于端口认证。
Can't enable MAC authentication when EAD assistant is already enabled. 不能开启MAC地址认证，因为已使能EAD快速部署。	Can't enable MAC authentication when EAD assistant is already enabled. 不能开启MAC地址认证，因为已使能EAD快速部署。
Can't disable MAC authentication when EAD assistant function is enabled. 不能关闭MAC地址认证，因为已使能EAD快速部署。	Can't disable MAC authentication when EAD assistant function is enabled. 不能关闭MAC地址认证，因为已使能EAD快速部署。
Can't configure the MAC address format and change the case of letters in MAC addresses when the user account format is fixed. 当用户账号格式为固定用户名时，不允许设置MAC地址格式和字母大小写格式。	Can't configure the MAC address format and change the case of letters in MAC addresses when the user account format is fixed. 当用户账号格式为固定用户名时，不允许设置MAC地址格式和字母大小写格式。

MACA/ProxyPorts

Message	Explanation
Maximum number of Web proxy ports already reached代理端口数配置已达到最大值。	Maximum number of Web proxy ports already reached代理端口数配置已达到最大值。

Can't configure the same Web proxy port for HTTP and HTTPS. 无法将一个端口同时配置为HTTP和HTTPS。	Can't configure the same Web proxy port for HTTP and HTTPS. 无法将一个端口同时配置为HTTP和HTTPS。
User-configured port number can't be 80 (default for HTTP) or 443 (default for HTTPS). 用户配置的端口号不能为80（HTTP默认端口号）或443（HTTPS默认端口号）。	User-configured port number can't be 80 (default for HTTP) or 443 (default for HTTPS). 用户配置的端口号不能为80（HTTP默认端口号）或443（HTTPS默认端口号）。

Contents

MACA event stream 1
MACA event 1
XML structure for event subscription 1
XML structure for event report 1

MACA event stream

MAC authentication event stream description.

MACA event

This event is used to report MAC authentication information, including user login time and logoff time, or authentication failure time and reason.

XML structure for event subscription

```
<MACAuthTrace>
</MACAuthTrace>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MACA</stream>
    <filter type="subtree">
      <MACAuthTrace xmlns="http://www.h3c.com/netconf/event:1.0/MACA:1.0">
      </MACAuthTrace>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MACA
Event name	MACAuthTrace
Event namespace	http://www.h3c.com/netconf/event:1.0/ MACA:1.0
Support for extended query	No

XML structure for event report

```
<MACAuthTrace>
  <User>
    <UserMAC></UserMAC>
    <SN></SN>
    <UserName></UserName>
    <IfName></IfName>
    <AuthorVLAN></AuthorVLAN>
    <Type></Type>
    <StartTime></StartTime>
    <LoginTime></LoginTime>
    <AuthFailTime></AuthFailTime>
```

```
    <AuthFailReason></AuthFailReason>
    <LogoffTime></LogoffTime>
    <LogoffReason></LogoffReason>
    <ErrorCode></ErrorCode>
  </User>
</MACAuthTrace>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-07-05T10:24:36</eventTime>
  <MACAuthTrace xmlns="http://www.h3c.com/netconf/event:1.0/MACA:1.0">
    <User>
      <UserMAC>00-01-00-01-00-01</UserMAC>
      <SN>DPPMWWB76</SN>
      <UserName>00-01-00-01-00-01</UserName>
      <IfName>GigabitEthernet1/0/1</IfName>
      <AuthorVLAN>1</AuthorVLAN>
      <Type>1</Type>
      <StartTime>1562322257484</StartTime>
      <LoginTime>1562322264066</LoginTime>
      <AuthFailTime></AuthFailTime>
      <AuthFailReason></AuthFailReason>
      <LogoffTime></LogoffTime>
      <LogoffReason></LogoffReason>
      <ErrorCode>0</ErrorCode>
    </User>
</MACAuthTrace>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
UserMAC	User MAC address	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	No	Example: 00-01-00-01-00-01.
SN	Device serial number	String. Length: 1 to 32 characters.	No	N/A
UserName	Username	String. Length: 1 to 55 characters.	No	N/A
IfName	Name of the interface through which the user accesses the device	String. Length: 2 to 47 characters.	No	Example: GigabitEthernet2/0/2.

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
AuthorVLAN	ID of the authorization VLAN	Unsigned short. Value range: 1 to 4094.	No	This column is empty when the event type is 3.
Type	Authentication event type	Enumeration: • **1**—User login. • **2**—User logoff. • **3**—User authentication failure.	No	N/A
StartTime	Time when the authentication started	Unsigned integer64. Unit: microsecond.	No	N/A
LoginTime	Time when the user logged in	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 3.
AuthFailTime	Time when the user failed authentication	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 1 or 2.
AuthFailReason	Authentication failure reason	String. Length: 1 to 253 characters.	No	This column is empty when the event type is 1 or 2.
LogoffTime	Time when the user logged off	Unsigned integer64. Unit: microsecond.	No	This column is empty when the event type is 1 or 3.
LogoffReason	User logoff reason	String. Length: 1 to 253 characters.	No	This column is empty when the event type is 1 or 3. Logoff reasons: • Supplicant logoff. • Supplicant restart. • Reauthentication failure. • Port went down and then came up again. • The port was administratively down. • Online handshake failure. • Idle timeout. • Session timeout. • Real-time accounting failure. • Port status error. • Deauthorization by the device. • The server logged the user off. • Unknown reason.
ErrorCode	Error code	Unsigned integer.	No	Error codes: • **0**—Authentication success code.

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
				• **1 to 19999**—Authentication failure codes. • **20000 to 39999**—User logoff reason codes. • **50000**—Unknown reason code. Authentication failure codes: • **1 to 1999**—Supplicant reasons. • **2000 to 3999**—Device reasons. • **4000 to 5999**—Authentication server reasons. User logoff reason codes: • **20000 to 21999**—Supplicant reasons. • **22000 to 23999**—Device reasons. • **24000 to 25999**—Authentication server reasons.

Contents

MACSEC 1
MACSEC/MACSECResetMkaSession 1
XML structure 1
</MACSEC>Table description 1
Columns 1
MACSEC/MACSECResetMkaStat 1
XML structure 1
Table description 2
Columns 2

MACSEC

MACSEC/MACSECResetMkaSession

The MACSECResetMkaSession table is used to rebuild the MKA session on the interface.

XML structure

```
<MACSEC>
  <MACSECResetMkaSession>
     <IfName></IfName>
  </MACSECResetMkaSession>
```

</MACSEC>Table description

Item	Description
Feature name	MACSEC
Table name	MACSECResetMkaSession
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A

MACSEC/MACSECResetMkaStat

The MACSECResetMkaSession table is used to clear MKA statistics on the interface.

XML structure

```
<MACSEC>
  <MACSECResetMkaStat>
    <IfName></IfName>
  </MACSECResetMkaStat>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECResetMkaStat
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A

Contents

MACSEC 1
MACSEC/MACSECGlobal 1
XML structure 1
Table description 1
Columns 1
MACSEC/MACSECInterfaces 1
XML structure 1
Table description 2
Columns 2
MACSEC/MACSECPolicies 4
XML structure 4
Table description 4
Columns 4

MACSEC

MACSEC/MACSECGlobal

This table contains global MACSEC global information.

XML structure

```
<MACSEC>
  <MACSECGlobal>
    <SessionLogState></SessionLogState>
  </MACSECGlobal>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECGlobal
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLogState	MKA-Session Enable	N/A	Boolean: • false—Disable (default). • true—Enable.	N/A

MACSEC/MACSECInterfaces

This table contains information about MACSEC interface.

XML structure

```
<MACSEC>
  <MACSECInterfaces>
    <MACSECInterface>
      <IfName></IfName>
```

```
      <MaintainMode></MaintainMode>
      <CipherSuite></CipherSuite>
      <ConfidentialityOffset></ConfidentialityOffset>
      <DesireState></DesireState>
      <ReplayProtectionState></ReplayProtectionState>
      <ReplayProtectionSize></ReplayProtectionSize>
      <ValidationMode></ValidationMode>
      <MkaEnableState></MkaEnableState>
      <AppliedPolicy></AppliedPolicy>
      <MkaPriority></MkaPriority>
      <MkaPsk>
        <Ckn></Ckn>
        <Cak></Cak>
        <CakType></CakType>
      </MkaPsk>
      <MkaLife></MkaLife>
      <IncludeSCI></IncludeSCI>
    </MACSECInterface>
  </MACSECInterfaces>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECInterfaces
Table type	Multi-instance table
Row name	MACSECInterface
Restrictions	This table supports only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
MaintainMode	Maintain mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
CipherSuite	MACsec cipher suite	N/A	Enumeration: • **1**—GCM-AES-128 (default). • **2**—GCM-AES-256. • **3**—GCM-AES-XPN-128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—GCM-AES-XPN-256.	
ConfidentialityOffset	Confidentiality offset	N/A	Enumeration: • **0**—None (default). • **30**—Offsec-value30. • **50**—Offsec-value50.	N/A
DesireState	Desire state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
ReplayProtectionState	Replay protection state	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	N/A
ReplayProtectionSize	Replay protection size	N/A	Unsigned integer. Value range: 0 to 4294967295.	
ValidationMode	Validation mode	N/A	Enumeration: • **1**—Disable. • **2**—Check (default). • **3**—Strict.	N/A
MkaEnableState	MKA enable state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AppliedPolicy	Applied MKA policy name	N/A	String: Length: 1 to 16 characters	N/A
MkaPriority	MKA priority	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Ckn	CAK name	N/A	String: Length: 2 to 64 characters.	N/A
Cak	CAK	N/A	String: • Length: 2 to 64 characters(Even hexadecimal numbers). • Length: 2 to 117 characters.	Cipher: Length: 2 to 64 characters, Even hexadecimal numbers Simple: Length: 2 to 117 characters
CakType	CAK type	N/A	Enumeration: • 1—cipher. • 2—simple.	N/A
MkaLife	MKA life time	N/A	Unsigned integer. Value range: 6 to 60.	N/A
IncludeSCI	Whether SCI is included in the SecTAG field of MACsec data frames	N/A	Boolean: • **true**—The SCI is included in the SecTAG field of MACsec data frames. • **false**—The SCI is not included in the SecTAG field of MACsec data	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			frames.	

MACSEC/MACSECPolicies

This table contains information about MACSEC policies.

XML structure

```
<MACSEC>
  <MACSECPolicies>
    <MACSECPolicy>
      <PolicyName></PolicyName>
      <ReplayProtectionState></ReplayProtectionState>
      <ReplayProtectionSize></ReplayProtectionSize>
      <ConfidentialityOffset></ConfidentialityOffset>
      <ValidationMode></ValidationMode>
    </MACSECPolicy>
  </MACSECPolicies>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECPolicies
Table type	Multi-instance table
Row name	MACSECPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	MKA policy name	Index	String: Length: 1 to 16 characters	Case sensitive
ReplayProtectionState	Replay-protection state	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A
ReplayProtectionSize	Replay-protection window-size	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ConfidentialityOffset	Confidentiality offset	N/A	Enumeration: • 0—None (default). • 30—Offsec-value30. • 50—Offsec-value50.	N/A
ValidationMode	Validation mode	N/A	Enumeration: • 0—Check (default). • 1—Strict. • 2—Disable.	N/A

Contents

MACSEC 1
MACSEC/MACSECGlobal 1
XML structure 1
Table description 1
Columns 1
MACSEC/MACSECInterfaces 1
XML structure 1
Table description 2
Columns 3
MACSEC/MACSECMkaSessionInterfaces 5
XML structure 5
Table description 6
Columns 6
MACSEC/MACSECMkaSessionInterfaces/MACSECMkaSessionInterface/LivePeerLists 7
XML structure 7
Table description 8
Columns 8
MACSEC/MACSECMkaSessionInterfaces/MACSECMkaSessionInterface/PotentialPeerLists 8
XML structure 9
Table description 9
Columns 9
MACSEC/MACSECMkaStatInterfaces 10
XML structure 10
Table description 10
Columns 10
MACSEC/MACSECPolicies 11
XML structure 11
Table description 11
Columns 12

MACSEC

MACSEC/MACSECGlobal

This table contains global MACSEC global information.

XML structure

```
<MACSEC>
  <MACSECGlobal>
    <SessionLogState></SessionLogState>
  </MACSECGlobal>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECGlobal
Table type	Multi-instance table
Row name	MACSECGlobal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLogState	MKA-Session Enable	N/A	Boolean: • **false**—Disable. • **true**—Enable.	N/A

MACSEC/MACSECInterfaces

This table contains information about MACSEC interface.

XML structure

```
<MACSEC>
  <MACSECInterfaces>
    <MACSECInterface>
      <IfName></IfName>
      <MacsecSupport></MacsecSupport>
      <MaintainMode></MaintainMode>
```

```
      <CipherSuite></CipherSuite>
      <ConfidentialityOffset></ConfidentialityOffset>
      <DesireState></DesireState>
      <ReplayProtectionState></ReplayProtectionState>
      <ReplayProtectionSize></ReplayProtectionSize>
      <ValidationMode></ValidationMode>
      <MkaEnableState></MkaEnableState>
      <AppliedPolicy></AppliedPolicy>
      <MkaPriority></MkaPriority>
      <MkaPsk>
        <Ckn></Ckn>
      </MkaPsk>
      <MkaLife></MkaLife>
      <TxSC>
        <SCI></SCI>
        <ElapseTime></ElapseTime>
        <CurrentSAAN></CurrentSAAN>
        <CurrentSAPN></CurrentSAPN>
      </TxSC>
      <RxSC>
        <SCI></SCI>
        <ElapseTime></ElapseTime>
        <CurrentSAAN></CurrentSAAN>
        <CurrentSALPN></CurrentSALPN>
        <PreviousSAAN></PreviousSAAN>
        <PreviousSALPN></PreviousSALPN>
      </RxSC>
      <ProtectFrameState></ProtectFrameState>
      <ActivePolicy></ActivePolicy>
      <IncludeSCI></IncludeSCI>
      <SCIConflict></SCIConflict>
    </MACSECInterface>
  </MACSECInterfaces>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECInterfaces
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
MacsecSupport	MACsec support	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MaintainMode	Maintain mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
CipherSuite	MACsec cipher suite	N/A	Enumeration: • **1**—GCM-AES-128. • **2**—GCM-AES-256. • **3**—GCM-AES-XPN-128. • **4**—GCM-AES-XPN-256.	N/A
ConfidentialityOffset	Confidentiality offset	N/A	Enumeration: • **0**—None. • **30**—Offsec-value30. • **50**—Offsec-value50.	N/A
DesireState	Desire state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ReplayProtectionState	Replay protection state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ReplayProtectionSize	Replay protection size	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ValidationMode	Validation mode	N/A	Enumeration: • **1**—Disable. • **2**—Check. • **3**—Strict.	N/A
MkaEnableState	MKA enable state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
AppliedPolicy	Applied MKA policy name	N/A	String: Length: 1 to 16 characters	N/A
MkaPriority	MKA priority	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Ckn	CAK name	N/A	String: Length: 2 to 64 characters,	N/A
MkaLife	MKA life time	N/A	Unsigned integer. Value range: 6 to 60.	N/A
SCI	SCI information	N/A	String:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Hexadecimal number Length: 1 to 16 characters.	
ElapseTimeHour	Elapsed time hour	N/A	Unsigned integer.	N/A
ElapseTimeMinute	Elapsed time minute	N/A	Unsigned integer.	N/A
ElapseTimeSecond	Elapsed time second	N/A	Unsigned integer.	N/A
CurrentSAAN	Current SA AN	N/A	Unsigned integer.	N/A
CurrentSAPN	Current SA PN	N/A	Unsigned integer.	N/A
SCI	SCI information	N/A	String: Hexadecimal number Length: 1 to 16 characters.	N/A
ElapseTimeHour	Elapsed time hour	N/A	Unsigned integer.	N/A
ElapseTimeMinute	Elapsed time minute	N/A	Unsigned integer.	N/A
ElapseTimeSecond	Elapsed time second	N/A	Unsigned integer.	N/A
CurrentSAAN	Current SA AN	N/A	Unsigned integer.	N/A
CurrentSALPN	Current SA LPN	N/A	Unsigned integer.	N/A
PreviousSAAN	Previous SA AN	N/A	Unsigned integer.	N/A
PreviousSALPN	Previous SA LPN	N/A	Unsigned integer.	N/A
ProtectFrameState	Protect frames	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ActivePolicy	Active MKA policy	N/A	String: Length: 1 to 16 characters.	N/A
IncludeSCI	Whether SCI is included in the SecTAG field of MACsec data frames	N/A	Boolean: • **true**—The SCI is included in the SecTAG field of MACsec data frames. • **false**—The SCI is not included in the SecTAG field of MACsec data frames.	N/A
SCIConflict	SCI conflict	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

MACSEC/MACSECMkaSessionInterfaces

This table contains global MACSEC MKA session interface information.

XML structure

```
<MACSEC>
  <MACSECMkaSessionInterfaces>
    <MACSECMkaSessionInterface>
      <IfName></IfName>
      <TxSCI></TxSCI>
      <Priority></Priority>
      <Capability></Capability>
      <ParticipantCKN></ParticipantCKN>
      <KeyServer></KeyServer>
      <MI></MI>
      <LivePeers></LivePeers>
      <PotentialPeers></PotentialPeers>
      <PrincipalActor></PrincipalActor>
      <MkaSessionState></MkaSessionState>
      <ConfidentialityOffset></ConfidentialityOffset>
      <CurrentSAKStatus></CurrentSAKStatus>
      <CurrentSAKAN></CurrentSAKAN>
      <CurrnetSAKKI></CurrnetSAKKI>
      <PreviousSAKStatus></PreviousSAKStatus>
      <PreviousSAKAN></PreviousSAKAN>
      <PreviousSAKKI></PreviousSAKKI>
      <LivePeerLists>
        <LivePeerList>
          <MI></MI>
          <MN></MN>
          <Priority></Priority>
          <Capability></Capability>
          <RxSCI></RxSCI>
        </LivePeerList>
      </LivePeerLists>
      <PotentialPeerLists>
        <PotentialPeerList>
          <MI></MI>
          <MN></MN>
          <Priority></Priority>
          <Capability></Capability>
          <RxSCI></RxSCI>
        </PotentialPeerList>
      </PotentialPeerLists>
    </MACSECMkaSessionInterface>
  </MACSECMkaSessionInterfaces>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECMkaSessionInterfaces
Table type	Single-instance table
Row name	MACSECMkaSessionInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
TxSCI	Tx SCI	N/A	String: Hexadecimal number Length: 1 to 16 characters.	N/A
Priority	Priority	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Capability	Capability	N/A	Enumeration: • 0—Disable MACsec. • 1—Only support integrity service, not confidentiality service. • 2—Support integrity service, optional confidentiality service (encryption offset can only be 0). • 3—Support integrity service, optional confidentiality service (encryption offset can support 0, 30, 50).	N/A
ParticipantCKN	Participant CKN	N/A	String: Length: 2 to 64 characters.	N/A
KeyServer	Key server	N/A	Boolean: • true—Yes. • false—No.	N/A
MI	MI	N/A	String: Hexadecimal number Length: 1 to 24 characters.	N/A
LivePeers	Live peers	N/A	Unsigned integer.	N/A
PotentialPeers	Potential peers	N/A	Unsigned integer.	N/A
PrincipalActor	Principal actor	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true—Yes. • false—No.	
MkaSessionState	MKA session state	N/A	Enumeration: • 0—Unknown. • 1—Pending. • 2—Unauthenticated. • 3—Authenticated. • 4—Secured.	N/A
ConfidentialityOffset	Confidentiality offset	N/A	Enumeration: • 0—None. • 30—Offsec-value30. • 50—Offsec-value50.	N/A
CurrentSAKStatus	Current SAK status	N/A	Enumeration: • 0—Tx. • 1—Rx. • 2—Tx&Rx.	N/A
CurrentSAKAN	Current SAK AN	N/A	Unsigned integer.	N/A
CurrnetSAKKI	Current SAK KI	N/A	String: Length: 1 to 34 characters.	N/A
PreviousSAKStatus	Previous SAK status	N/A	Enumeration: • 0—Tx. • 1—Rx. • 2—Tx&Rx.	N/A
PreviousSAKAN	Previous SAK AN	N/A	Unsigned integer.	N/A
PreviousSAKKI	Previous SAK KI	N/A	String: Length: 1 to 34 characters.	N/A
LivePeerLists	LivePeerLists tables	Sublist	N/A	Reference the table MACSECMkaSessionInterface/LivePeerLists.
PotentialPeerLists	PotentialPeerLists tables	Sublist	N/A	Reference the table MACSECMkaSessionInterface/PotentialPeerLists.

MACSEC/MACSECMkaSessionInterfaces/MACSECMkaSessionInterface/LivePeerLists

This table contains information of MACSEC MKA session interface.

XML structure

Please refer to the XML structure of MACSEC/MACSECMkaSessionInterfaces

Table description

Item	Description
Feature name	MACSEC
Table name	LivePeerLists
Table type	Multi-instance table
Row name	LivePeerList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
MI	MI	N/A	String: Hexadecimal number Length: 1 to 24 characters.	N/A
MN	MN	N/A	Unsigned integer.	N/A
Priority	Priority	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Capability	Capability	N/A	Enumeration: • 0—Disable MACsec. • 1—Only support integrity service, not confidentiality service. • 2—Support integrity service, optional confidentiality service (encryption offset can only be 0). • 3—Support integrity service, optional confidentiality service (encryption offset can support 0, 30, 50).	N/A
RxSCI	Rx SCI	N/A	String: Hexadecimal number Length: 1 to 16 characters.	N/A

MACSEC/MACSECMkaSessionInterfaces/MACSECMkaSessionInterface/PotentialPeerLists

This table contains information of MACSEC MKA session interface.

XML structure

Please refer to the XML structure of MACSEC/MACSECMkaSessionInterfaces

Table description

Item	Description
Feature name	MACSEC
Table name	PotentialPeerLists
Table type	Multi-instance table
Row name	PotentialPeerList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
MI	MI	N/A	String: Hexadecimal number Length: 1 to 24 characters.	N/A
MN	MN	N/A	Unsigned integer.	N/A
Priority	Priority	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Capability	Capability	N/A	Enumeration: • 0—Disable MACsec. • 1—Only support integrity service, not confidentiality service. • 2—Support integrity service, optional confidentiality service (encryption offset can only be 0). • 3—Support integrity service, optional confidentiality service (encryption offset can support 0, 30, 50).	N/A
RxSCI	Rx SCI	N/A	String: Hexadecimal number Length: 1 to 16 characters.	N/A

MACSEC/MACSECMkaStatInterfaces

This table contains global MACSEC MKA Stat interface information.

XML structure

```
<MACSEC>
  <MACSECMkaStatInterfaces>
    <MACSECMkaStatInterface>
      <IfName></IfName>
      <InvalidCKN></InvalidCKN>
      <InvalidICV></InvalidICV>
      <ParticipantCKN></ParticipantCKN>
      <TxPdus></TxPdus>
      <RxPdus></RxPdus>
      <InvalidMN></InvalidMN>
      <TxError></TxError>
      <RxError></RxError>
      <DistributedSAKs></DistributedSAKs>
      <ReceivedSAKs></ReceivedSAKs>
    </MACSECMkaStatInterface>
  </MACSECMkaStatInterfaces>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECMkaStatInterfaces
Table type	Multi-instance table
Row name	MACSECMkaStatInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 2 to 47 characters	N/A
InvalidCKN	MKPDUs with invalid CKN	N/A	Unsigned integer.	N/A
InvalidICV	MKPDUs with invalid ICV	N/A	Unsigned integer.	N/A
ParticipantCKN	CKN for oarticipant	N/A	String: Length: 2 to 64 characters,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TxPdus	Tx MKPDUs	N/A	Unsigned integer.	N/A
RxPdus	Rx MKPDUs	N/A	Unsigned integer.	N/A
InvalidMN	MKPDUs with invalid MU	N/A	Unsigned integer.	N/A
TxError	MKPDUs with Tx error	N/A	Unsigned integer.	N/A
RxError	MKPDUs with Rx error	N/A	Unsigned integer.	N/A
DistributedSAKs	SAKs distributed	N/A	Unsigned integer.	N/A
ReceivedSAKs	SAKs received	N/A	Unsigned integer.	N/A

MACSEC/MACSECPolicies

This table contains information about MACSEC policies.

XML structure

```
<MACSEC>
  <MACSECPolicies>
    <MACSECPolicy>
      <PolicyName></PolicyName>
      <ReplayProtectionState></ReplayProtectionState>
      <ReplayProtectionSize></ReplayProtectionSize>
      <ConfidentialityOffset></ConfidentialityOffset>
      <ValidationMode></ValidationMode>
    </MACSECPolicy>
  </MACSECPolicies>
</MACSEC>
```

Table description

Item	Description
Feature name	MACSEC
Table name	MACSECPolicies
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global get operation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	MKA policy name	Index	String: Length: 1 to 16 characters	Case sensitive
ReplayProtectionState	Replay-protection state	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
ReplayProtectionSize	Replay-protection window-size	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ConfidentialityOffset	Confidentiality offset	N/A	Enumeration: • 0—None. • 30—Offsec-value30. • 50—Offsec-value50.	N/A
ValidationMode	Validation mode	N/A	Enumeration: • 0—Check. • 1—Strict. • 2—Disable.	N/A

Contents

MACSEC 1
MACSEC/MACSECGlobal 1
MACSEC/MACSECInterfaces 1
MACSEC/MACSECPolices 1

MACSEC

MACSEC/MACSECGlobal

Message	**Explanation**

MACSEC/MACSECInterfaces

Message	**Explanation**
The interface doesn't support the GCM-AES-256 cipher suite. 该接口不支持配置GCM-AES-256加密套件	The interface doesn't support the GCM-AES-256 cipher suite. 该接口不支持配置GCM-AES-256加密套件
The interface doesn't support the GCM-AES-XPN cipher suite. 该接口不支持配置GCM-AES-XPN加密套件	The interface doesn't support the GCM-AES-XPN cipher suite. 该接口不支持配置GCM-AES-XPN加密套件
The interface doesn't support the configuration of including SCI in the SecTAG field of MACsec data frames. 该接口不支持配置MACSEC TAG中携带SCI	The interface doesn't support the configuration of including SCI in the SecTAG field of MACsec data frames. 该接口不支持配置MACSEC TAG中携带SCI

MACSEC/MACSECPolices

Message	**Explanation**

Contents

Mail 2
Mail/EmailServerTest 2
XML structure 2
Table description 2
Columns 2

Mail

Mail/EmailServerTest

This table is used to test the e-mail server.

XML structure

```
<Mail>
  <EmailServerTest>
      <Address></Address>
      <HostType></HostType>
      <PortNumber></PortNumber>
      <UserName></UserName>
      <Password></Password>
      <PasswordType></PasswordType>
      <VPN></VPN>
      <SSLClientPolicy></SSLClientPolicy>
  </EmailServerTest>
</Mail>
```

Table description

Item	Description
Feature name	MAIL
Table name	EmailServerTest
Table type	single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the mail server	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. HostName example: www.example.com.

Column name	Column description	Column type	Data type and restrictions	Remarks
			HostName: Case-insensitive string, Length: 1 to 253 characters.	
HostType	Host Address type.	N/A	• Enumeration: 1— Domain. 2— IPv4. 3— IPv6	Use with the column of Address.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\).
Password	E-mail server login password in encrypted form or plaintext form.	N/A	String, case-sensitive. Length: 1 to 117 characters.	Configure CipherKey or SimpleKey, but not both. This column cannot be configured if the username is not configured.
PasswordType	E-mail server login password type, encrypted form or plaintext form.	N/A	Enumeration: 1— plaintext form. 2— encrypted form.	Password type of CipherKey or SimpleKey. This column cannot be configured if the password is not configured.
VPN	Name of the VPN instance associated with the VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
SSLClientPolicy	Name of the SSL client policy used by the SSL	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old table.

Column name	Column description	Column type	Data type and restrictions	Remarks
	context			

Contents

Mail 2
Mail/EmailServers 2
XML structure 2
Table description 2
Columns 3
Mail/EmailServers/EmailRecipients 5
XML structure 5
Table description 5
Columns 6
Mail/EmailServers/EmailCopytos 6
XML structure 6
Table description 6
Columns 7

Mail

Mail/EmailServers

This table contains information about the e-mail server.

XML structure

```
<Mail>
  <EmailServers>
    <EmailServer>
      <Name></Name>
      <Address></Address>
      <HostType></HostType>
      <PortNumber></PortNumber>
      <UserName></UserName>
      <Password></Password>
      <PasswordType></PasswordType>
      <EmailSubject></EmailSubject>
      <EmailSender></EmailSender>
      <EmailRecipients>
          <EmailRecipient></EmailRecipient>
      </EmailRecipients>
      <EmailCopytos>
          <EmailCopyto></EmailCopyto>
      </EmailCopytos>
      <VPN></VPN>
      <SSLClientPolicy></SSLClientPolicy>
    </EmailServer>
  </EmailServers>
</Mail>
```

Table description

Item	Description
Feature name	MAIL
Table name	EmailServers
Table type	Multi-instance table
Row name	EmailServer
Restrictions	Only e-mail server can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the e-mail server.	Index	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|"',:%<>/\).
Address	Address of the mail host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	1. IPv4 example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported. 2. IPv6 example: 1:2:3:4:5:6:7:8. 3. HostName example: www. example.com. The string can contain letters, numbers, hyphens(-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can

Column name	Column description	Column type	Data type and restrictions	Remarks
				appear in the domain name. Question marks and asterisks can appear in the domain name at the same time. Domain separated by dot (.), each segment shall not exceed 63 characters. This column cannot be configured if the Type is not configured.
HostType	Host Address type.	N/A	Enumeration: 1— Domain. 2— IPv4. 3— IPv6	Use with the column of Address.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	N/A
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\).?
Password	E-mail server login password in encrypted form or plaintext form.	N/A	String, case-sensitive. Length: 1 to 117 characters.	Configure CipherKey or SimpleKey, but not both. This column cannot be configured if the username is not configured.
PasswordType	E-mail server login password type, encrypted form or plaintext form.	N/A	Enumeration: 1— plaintext form. 2— encrypted form.	Password type of CipherKey or SimpleKey. This column cannot be configured if the password is not configured.
EmailSubject	Subject for e-mail.	N/A	String. Length: 1 to 255 characters.	String cannot include special characters as follows:

Column name	Column description	Column type	Data type and restrictions	Remarks
				(&|"',:%<>/\).
EmailSender	E-mail sender address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Only one e-mail sender can be configured.
EmailRecipients	E-mail receiver address.	Subtable	N/A	EmailRecipients tables. For more information, see the Mail/EmailServers/EmailRecipients table.
EmailCopytos	E-mail copyto recipients address.	Subtable	N/A	EmailCopytos tables. For more information, see the Mail/EmailServers/EmailCopytos table.
VPN	Name of the VPN instance associated with the VPN context.	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
SSLClientPolicy	Name of the SSL client policy used by the SSL context.	N/A	String, case insensitive. Length: 1 to 31 characters.	The SSL client policy is effective only for SMTPS protocol.

Mail/EmailServers/EmailRecipients

This table contains information about the e-mail server's recipients.

XML structure

See the XML structure of Mail/EmailServers.

Table description

Item	Description
Feature name	Mail
Table name	EmailRecipients
Table type	Multi-instance table
Row name	EmailRecipient
Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailRecipient	E-mail receiver address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is repeatable. The max number of repeat column is 24.

Mail/EmailServers/EmailCopytos

This table contains information about the e-mail server's copyto recipients.

XML structure

See the XML structure of Mail/EmailServers.

Table description

Item	Description
Feature name	Mail
Table name	EmailCopytos
Table type	Multi-instance table
Row name	EmailCopyto

Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailCopyto	E-mail copyto receiver address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is repeatable. The max number of repeat column is 24.

Contents

Mail 2
Mail/EmailServers 2
XML structure 2
Table description 2
Columns 3
Mail/EmailServers/EmailRecipients 4
XML structure 5
Table description 5
Columns 5
Mail/EmailServers/EmailCopytos 5
XML structure 5
Table description 6
Columns 6

Mail

Mail/EmailServers

This table contains information about the e-mail server.

XML structure

```
<Mail>
  <EmailServers>
    <EmailServer>
      <Name></Name>
      <Address></Address>
      <HostType></HostType>
      <PortNumber></PortNumber>
      <UserName></UserName>
      <Password></Password>
      <PasswordType></PasswordType>
      <EmailSubject></EmailSubject>
      <EmailSender></EmailSender>
      <EmailRecipients>
         <EmailRecipient></EmailRecipient>
      </EmailRecipients>
      <EmailCopytos>
         <EmailCopyto></EmailCopyto>
      </EmailCopytos>
      <VPN></VPN>
      <SSLClientPolicy></SSLClientPolicy>
    </EmailServer>
  </EmailServers>
</Mail>
```

Table description

Item	Description
Feature name	MAIL

Table name	EmailServers
Table type	Multi-instance table
Row name	EmailServer
Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the e-mail server.	Index	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\).?
Address	Address of the mail host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	N/A
HostType	Host Address type.	N/A	• Enumeration: 1— Domain. 2— IPv4. 3— IPv6	Use with the column of Address. Domain name, IPv4 or IPv6 address
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 25.	N/A
UserName	E-mail server login username.	N/A	String. Length: 1 to 63 characters.	String cannot include special characters as follows: (&|'",:%<>/\).
Password	E-mail server login password in encrypted form or plaintext form.	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordType	E-mail server login password type, encrypted form or plaintext form.	N/A	Enumeration: 1— plaintext form. 2— encrypted form.	N/A
EmailSubject	Subject for e-mail.	N/A	String. Length: 1 to 255 characters.	String cannot include special characters as follows: (&|'",:%<>/\).
EmailSender	E-mail sender address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EmailRecipients	E-mail receiver address.	Subtable	N/A	EmailRecipients tables. For more information, see the MAIL/EmailServers/EmailRecipients table.
EmailCopytos	E-mail copyto recipients address.	Subtable	N/A	EmailCopytos tables. For more information, see the MAIL/EmailServers/EmailCopytos table.
VPN	Name of the VPN instance associated with the VPN context	N/A	String. Length: 0 to 31 characters.	N/A
SSLClientPolicy	Name of the SSL client policy used by the SSL context	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A

Mail/EmailServers/EmailRecipients

This table contains information about the e-mail server's recipients.

XML structure

See the XML structure of Mail/EmailServers.

Table description

Item	Description
Feature name	MAIL
Table name	EmailRecipients
Table type	Multi-instance table
Row name	EmailRecipient
Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailRecipient	E-mail receiver address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is repeatable. The max number of repeat column is 24.

Mail/EmailServers/EmailCopytos

This table contains information about the e-mail server’s copyto recipients.

XML structure

See the XML structure of Mail/EmailServers.

Table description

Item	Description
Feature name	MAIL
Table name	EmailCopytos
Table type	Multi-instance table
Row name	EmailCopyto
Restrictions	Only E-mail Server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailCopyto	E-mail copyto receiver address.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is repeatable. The max number of repeat column is 24.

Contents

MDC 1
MDC/ClearRebootInfo 1
XML structure 1
Table description 1
Columns 1

MDC

MDC/ClearRebootInfo

This table clears MDC reboot information.

XML structure

```
<MDC>
  <ClearRebootInfo>
    <MDCID></MDCID>
  </ClearRebootInfo>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	ClearRebootInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
MDCID	MDC index	Index

Contents

MDC 1
MDC/Contexts 1
XML structure 1
Table description 1
Columns 1
MDC/Resources/Disks 2
XML structure 2
Table description 2
Columns 2
MDC/Resources/Memories 3
XML structure 3
Table description 3
Columns 4
MDC/Resources/CPUs 4
XML structure 4
Table description 4
Columns 5
MDC/LocationEntitys 5
XML structure 5
Table description 5
Columns 6
MDC/LocationBladeControllerTeam 6
XML structure 6
Table description 6
Columns 7
MDC/AllocationIdentities 7
XML structure 7
Table description 7
Columns 8

MDC

MDC/Contexts

This table is used to configure MDCs for a device and show MDC's state.

XML structure

```
<MDC>
 <Contexts>
    <Context>
      <MDCID></MDCID>
      <Name></Name>
      <State></State>
    </Context>
  </Contexts>
 </MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	Only support default MDC.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model. 0 means the system assigns the lowest ID number among the available IDs to the MDC.
Name	Full name of an MDC	N/A	String. Length: 1 to 15 characters.	N/A
State	State of the MDC	N/A	Enumeration:	tart—Start the

Column name	Column description	Column type	Data type and restrictions	Remarks
			1: start 2: stop	MDC. stop—Stop the MDC.

MDC/Resources/Disks

This table contains disk infomation.

XML structure

```
<MDC>
  <Resources>
    <Disks>
      <Disk>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of disk(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of disk(%)	N/A	Positive integer. Value range: 1 to 100.	The default value is 100.

MDC/Resources/Memories

This table contains memory infomation.

XML structure

```
<MDC>
  <Resources>
    <Memories>
      <Memory>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Memories
Table type	Multi-instance table
Row name	Memory

Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	The default value is 100.

MDC/Resources/CPUs

This table contains cpu infomation.

XML structure

```
<MDC>
  <Resources>
    <CPUs>
      <CPU>
        <MDCID></MDCID>
        <Weight></Weight>
      </CPU>
    </CPUs>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC

Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Weight	CPU weight-maximum of available resources of CPU(weight)	N/A	Positive integer. Value range:1-10	Limit maxmum of cpu resource. Default:Each MDC has a CPU weight of 10.

MDC/LocationEntitys

This table contains location state.

XML structure

```
<MDC>
  <Locations>
    <Location>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <State></State>
    </Location>
  </Locations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Locations
Table type	Multi-instance table
Row name	Location
Restrictions	Only support default MDC.Blade controllers must be locationed by

	BladeControllerTeam table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the interface cards. Default: All interface cards of the device belong to the default MDC.

MDC/LocationBladeControllerTeam

This table contains location state of BladeControllerTeam.

XML structure

```
<MDC>
  <LocationBladeControllerTeams>
    <LocationBladeControllerTeam>
      <MDCID></MDCID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBladeControllerTeam>
  </LocationBladeControllerTeams>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBladeControllerTeam
Restrictions	Only support default MDC.

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the resource of BladeControllerTeams. Default: All BladeControllerTeams of the device belong to the default MDC.

MDC/AllocationIdentities

This table contains physical interface.

XML structure

```
<MDC>
  <Allocations>
    <Allocation>
      <MDCID></MDCID>
      <InterfaceList></InterfaceList>
    </Allocation>
  </Allocations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.
InterfaceList	List of interfaces	N/A	String.	Different interfaces combinations(a sigle interface or interface list)are separated by comma‘,’,interface lists are separated by ‘ to ’(There is a apace on both sides of the word ‘to’). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48

Contents

MDC 1

MDC/Contexts 1
XML structure 1
Table description 1
Columns 1
MDC/Resources/Disks 2
XML structure 2
Table description 3
Columns 3
MDC/Resources/Memories 4
XML structure 4
Table description 4
Columns 4
MDC/Resources/CPUs 5
XML structure 5
Table description 6
Columns 6
MDC/LocationEntitys 6
XML structure 6
Table description 7
Columns 7
MDC/AllocationIdentities 7
XML structure 7
Table description 8
Columns 8
MDC/InterfaceAllocations 8
XML structure 8
Table description 9
Columns 9
MDC/Allocations 9
XML structure 9
Table description 9
Columns 10
MDC/Locations 10
XML structure 10
Table description 10
Columns 11
MDC/LocationBladeControllerTeam 11
XML structure 11
Table description 11
Columns 12
MDC/RebootInfos 12
XML structure 12
Table description 12
Columns 13

MDC

MDC/Contexts

This table contains MDC's status.

XML structure

```
<MDC>
  <Contexts>
    <Context>
      <MDCID></MDCID>
      <Name></Name>
      <State></State>
      <Status></Status>
    </Context>
  </Contexts>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	Default MDC can query infomation of all MDCs. Non-default MDC can only query the current MDC change without

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Name	Full name of an MDC	N/A	String. Length: 1 to 15 characters.	N/A
State	State of the MDC	N/A	Enumeration: 1: start 2: stop	start—Start the MDC. stop—Stop the MDC.
Status	Status of the	N/A	Enumeration:	• inactive—The MDC is

Column name	Column description	Column type	Data type and restrictions	Remarks
	MDC		• 1: inactive • 2: starting • 3: active • 4: stopping • 5: updating	stopped or not started yet. • starting—The device is executing the mdc start command to start the MDC. • active—The MDC is operating correctly. • stopping—The device is executing the undo mdc start command to stop the MDC. • updating—The MDC is updating.

MDC/Resources/Disks

This table contains disk infomation.

XML structure

```
<MDC>
  <Resources>
    <Disks>
      <Disk>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Partition></Partition>
        <Reserved></Reserved>
        <Quota></Quota>
        <Used></Used>
        <Available></Available>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	Default MDC can query infomation of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Partition	Instance name of disk resource	Index	String. Length: 1 to 31 characters.	N/A
Reserved	reserve resources of disk (KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the MDC doesn't have reserve resource of disk.
Quota	The total limit resources of disk (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maxmum of disk resource.
Used	Current usage of disk resources (KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of disk(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used) and idle resource of disk.
ReservedRatio	reserve resources of disk(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of disk(%)	N/A	Positive integer. Value range: 1 to 100.	N/A

MDC/Resources/Memories

This table contains memory infomation.

XML structure

```
<MDC>
  <Resources>
    <Memories>
      <Memory>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Reserved></Reserved>
        <Quota></Quota>
        <Used></Used>
        <Available></Available>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	Default MDC can query infomation of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Reserved	reserve resources of memory (KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the MDC doesn't have reserve resource of memory.
Quota	The total limit resources of memory (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maxmum of disk resource.
Used	Current usage of memory resources (KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of memory(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used)and idle resource of disk.
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	N/A

MDC/Resources/CPUs

This table contains cpu infomation.

XML structure

```
<MDC>
  <Resources>
    <CPUs>
      <CPU>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Weight></Weight>
        <Usage></Usage>
      </CPU>
    </CPUs>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Default MDC can query infomation of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Weight	CPU weight-maximum of available resources of CPU (weight)	N/A	Positive integer.	Limit maxmum of cpu resource. Default:Each MDC has a CPU weight of 10.
Usage	Current usage of CPUresources (%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A

MDC/LocationEntitys

This table contains location state.

XML structure

```
<MDC>
  <LocationEntitys>
    <LocationEntity>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <State></State>
```

```
    </LocationEntity>
  </LocationEntitys>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	LocationEntitys
Table type	Multi-instance table
Row name	LocationEntity
Restrictions	Information of BladeControllerTeam table will be changed to c-s-c and display in LocationEntitys table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location:Authorize the MDC to use the interface cards. Default: All interface cards of the device belong to the default MDC.

MDC/AllocationIdentities

This table contains physical interface.

XML structure

```
<MDC>
  <AllocationIdentities>
    <AllocationIdentity>
      <PhysicalIndex></PhysicalIndex>
```

```
      <IfName></IfName>
      <AllocationIdentity></AllocationIdentity>
    </AllocationIdentity>
  </AllocationIdentities>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	AllocationIdentities
Table type	Multi-instance table
Row name	AllocationIdentity
Restrictions	Default MDC can query infomation of all interface group. Non-default MDC can only query the current MDC's interface group.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index of an interface	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
AllocationIdentity	Group Identifier	N/A	String. Length: 1 to 255 characters.	The interfaces in a group must be assigned to the same MDC at the same time or removed from an MDC at the same time.

MDC/InterfaceAllocations

This table contains MDC of interface.

XML structure

```
<MDC>
  <InterfaceAllocations>
    <InterfaceAllocation>
      <PhysicalIndex></PhysicalIndex>
      <IfName></IfName>
      <MDCID></MDCID>
    </InterfaceAllocation>
  </InterfaceAllocations>
```

```
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	InterfaceAllocations
Table type	Multi-instance table
Row name	InterfaceAllocation
Restrictions	Default MDC can query infomation of all interface. Non-default MDC can only query the current MDC's interface.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index of an interface	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.

MDC/Allocations

This table contains physical interface.

XML structure

```
<MDC>
  <Allocations>
    <Allocation>
      <MDCID></MDCID>
      <InterfaceList></InterfaceList>
    </Allocation>
  </Allocations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Allocations

Table type	Multi-instance table
Row name	Allocation
Restrictions	Only support default MDC.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.
InterfaceList	List of interfaces	N/A	String. Length: 1 to 32767 characters.	Different interfaces combinations(a sigle interface or interface list)are separated by comma‘,’,interface lists are separated by ‘ to ’(There is a apace on both sides of the word ‘to’). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48

MDC/Locations

This table contains location state.

XML structure

```
<MDC>
  <Locations>
    <Location>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <State></State>
    </Location>
  </Locations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Locations
Table type	Multi-instance table

Row name	Location
Restrictions	Only support default MDC.Blade controllers must be locationed by BladeControllerTeam table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the interface cards.

MDC/LocationBladeControllerTeam

This table contains location state of BladeControllerTeam.

XML structure

```
<MDC>
  <LocationBladeControllerTeams>
    <LocationBladeControllerTeam>
      <MDCID></MDCID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBladeControllerTeam>
  </LocationBladeControllerTeams>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBladeControllerTeam
Restrictions	Only support default MDC.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the resource of BladeControllerTeams.

MDC/RebootInfos

This table contains reboot information of MDC.

XML structure

```
<MDC>
  <RebootInfos>
    <RebootInfo>
      <MDCID></MDCID>
      <Index></Index>
      <Time></Time>
      <Reason></Reason>
      <Detail></Detail>
    </RebootInfo>
  </RebootInfos>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	RebootInfos
Table type	Multi-instance table
Row name	RebootInfo
Restrictions	Default MDC can query information of all MDC. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
`Index`	Index of reboot information	Index	Unsigned integer. Value range: 1 to 20.	N/A
`Time`	Time of reboot information	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
`Reason`	Time of reboot information	N/A	String. Length: 1 to 256 characters.	N/A
Detail	Detail of reboot information	N/A	String. Length: 1 to 256 characters.	N/A

Contents

MDC 1
MDC/Contexts 1
MDC/Resources/Disks 1
MDC/Resources/Memories 2
MDC/Resources/CPUs 2
MDC/Locations 2
MDC/AllocationIdentities 3

MDC

MDC/Contexts

Message	Explanation
Please install the license for the MDC feature first. MDC特性没有可用的license。	The license is invalid during executing create or start MDC operations. Please check the license's validity and install. 创建 MDC 或者启动 MDC 时没有安装 license，或者 license 无效。
Number of MDCs exceeded the limit. 操作失败，MDC个数超过最大限额。	During executing MDC creation, The MDC numbers exceeded the limit. 创建MDC时，MDC个数已经超过系统限制个数，不能继续创建了。
The MDC is not authorized to use this slot. MDC没有进驻该板。	The MDC is not authorized to use this slot, so that it cannot set or require this slot memory resource. MDC 没有进驻改板，无法设置和查询 memory 资源
Not enough resources available. 资源不足导致操作失败。	Memory space is not enough to operating start a MDC. 启动MDC时，各资源申请内存资源不足导致失败。
Restoring MDC configuration. Please try again later. MDC正在恢复配置，请稍后重试。	Set operations is forbidden, when MDC is not start over. 当MDC还没有配置恢复完成是，不允许设置相关的操作。
The MDC is busy. Please try again later. MDC正在忙，请稍后重试。	It cannot start or stop the MDC, due to the MDC is starting or stopping. 该MDC正在启动或者停止，不能再进行启动或者停止操作。
The MDC name and ID must identify the same MDC. 输入的MDC名称有误，请输入与ID对应的名称。	The MDC name and ID must identify the same MDC. 输入MDC名称错误，与MDC id不匹配。
Invalid MDC ID or MDC name. 输入的MDC ID或者名称无效。	Invalid MDC ID or MDC name. 输入的MDC ID或者名称无效。
The default MDC can't be deleted. 不允许删除缺省MDC。	The default MDC can't be deleted. 不允许删除缺省MDC。
Not enough resources available. 资源不足，创建MDC失败。	Not enough resources available. 资源不足，创建MDC失败。

MDC/Resources/Disks

Message	Explanation
Not enough disk space available. 磁盘资源不足。	It has not enough disk space, please check the disk space. 限制MDC磁盘使用率时，磁盘空间不足，请检查。
The MDC is not authorized to use this slot. MDC没有进驻该板。	The MDC is not authorized to use this slot, so that it cannot set or require this slot disk resource. MDC没有进驻改板，无法设置和查询disk资源

Not enough resources available. 资源不足导致操作失败。	Malloc memory to operating this table is failed. 申请内存资源失败。
Restoring MDC configuration. Please try again later. MDC正在恢复配置，请稍后重试。	Set operations is forbidden, when MDC is not start over. 当MDC还没有配置恢复完成是，不允许设置相关的操作。

MDC/Resources/Memories

Message	Explanation
Not enough resources available. 资源不足导致操作失败。	Malloc memory to operating this table is failed. 申请内存资源失败。
Restoring MDC configuration. Please try again later. MDC正在恢复配置，请稍后重试。	Set operations is forbidden, when MDC is not start over. 当MDC还没有配置恢复完成是，不允许设置相关的操作。

MDC/Resources/CPUs

Message	Explanation
Not enough resources available. 资源不足导致操作失败。	Malloc memory to operating this table is failed. 申请内存资源失败。
Restoring MDC configuration. Please try again later. MDC正在恢复配置，请稍后重试。	Set operations is forbidden, when MDC is not start over. 当MDC还没有配置恢复完成是，不允许设置相关的操作。

MDC/Locations

Message	Explanation
Not enough resources available. 资源不足导致操作失败。	During executing location operation, it may fail and return error message: ” Not enough resources available. ”. The reasons may be exceeding the mdc number limit, lack of memory space or disk space in this slot,. Location单板失败时会返回资源不足，包括当前单板mdc个数，内存不足和磁盘资源不足等情况。
Operation failed. There are IRF physical ports. 存在IRF物理端口，不允许MDC退出接口板。	The IRF devices will be devided, If MDC exiting the IO board which has IRF physics ports. 当MDC在接口板上存在IRF的物理端口，不允许该MDC undo location接口板，否则会导致堆叠分裂。
Restoring MDC configuration. Please try again	Set operations is forbidden, when MDC is not start over.

later. MDC正在恢复配置，请稍后重试。	当MDC还没有配置恢复完成是，不允许设置相关的操作。
The MDC is busy. Please try again later. MDC正在忙，请稍后重试。	It cannot location the MDC, due to the MDC is starting or stopping. 该MDC正在启动或者停止，不能再进行location操作。
Not enough hardware resources available. 硬件资源不足导致操作失败。	This slot is lack of hardware resources. 单板的内存不足或者其他问题。

MDC/AllocationIdentities

Message	Explanation
Some interfaces group have not include all of its interface. 接口组未包含全部的接口，分配失败。	Some interfaces group have not include all of its interface. 接口组未包含全部的接口，分配失败。
Some type of interfaces can not be allocated to an MDC exclusively. 接口列表中包含不能独占分配的接口。	Some type of interfaces can not be allocated to an MDC exclusively. 接口列表中包含不能独占分配的接口。
Some interfaces are duplicated. 接口列表中包含重复的接口名。	The MDC alloc interfaces failed. MDC 分配接口失败
Some interfaces are invalid. 存在不合法接口。	Some interfaces are invalid. 存在不合法接口。

Contents

MGROUP 1
MGROUP/Groups 1
XML structure 1
Table description 1
Columns 1
MGROUP/MonitorPort 2
XML structure 2
Table description 2
Columns 3
MGROUP/ReflectorPort 4
XML structure 4
Table description 4
Columns 4
MGROUP/EgressPort 4
XML structure 5
Table description 5
Columns 5
MGROUP/ProbeVlan 5
XML structure 5
Table description 6
Columns 6
MGROUP/SourcePorts 6
XML structure 6
Table description 7
Columns 7

MGROUP

MGROUP/Groups

This table contains information about mirroring groups.

XML structure

```
<MGROUP>
  <Groups>
    <Group>
      <ID></ID>
      <Type></Type>
      <KeepLinkHeader></KeepLinkHeader>
      <Sampler></Sampler>
    </Group>
  </Groups>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256	The range of mirroring group ID depends on the device model.
Type	Mirroring group type.	N/A	Enumeration: • **1**—Local. • **2**—Remote-source. • **3**—Remote-destination.	Required. Can not change the type if the mirroring group has been created.
KeepLinkHeader	Keep source or destination MAC unchanged.	N/A	Boolean: • **true**—Keep source or destination MAC	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			unchanged. • **false**—Do nothing.	
Sampler	References the sampler to limit the volume of traffic to be mirrored.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Can not change this item if the mirroring group has been created. Support for this option depends on the device model.

MGROUP/MonitorPort

This table contains information about monitor port of mirroring groups.

XML structure

```
<MGROUP>
  <MonitorPort>
    <Group>
      <ID></ID>
      <Port></Port>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VRF></VRF>
        <ReflectorPort></ReflectorPort>
        <ProbeVlan></ProbeVlan>
      </IP>
      <Mac></Mac>
    </Group>
  </MonitorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	MonitorPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is local or remote destination, monitor port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of monitor port.	N/A	Unsigned integer.	Required. Can not change the port if the monitor port has been created.
IP	Specify IP for mirroring to interface	Data structure	Members include: • **DestIP.** • **SrcIP.** • **DSCP.** • **VLAN.** • **VRF.**	DestIP and SrcIP must both be specified. DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured.
DestIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ReflectorPort	Index of reflector port	N/A	Unsigned integer.	ReflectorPort and ProbeVlan must both be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ProbeVlan	Probe VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Mac	Specify destination MAC for mirroring to interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

MGROUP/ReflectorPort

This table contains information about reflector port of mirroring groups.

XML structure

```
<MGROUP>
  <ReflectorPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </ReflectorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ReflectorPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source, reflector port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of reflector port.	N/A	Unsigned integer.	Required. Can not change the port if the reflector port has been created.

MGROUP/EgressPort

This table contains information about egress port of mirroring groups.

XML structure

```
<MGROUP>
  <EgressPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </EgressPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	EgressPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source, egress port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of egress port.	N/A	Unsigned integer.	Required. Can not change the port if the egress port has been created.

MGROUP/ProbeVlan

This table contains information about remote probe VLAN of mirroring groups.

XML structure

```
<MGROUP>
  <ProbeVlan>
    <Group>
      <ID></ID>
```

```
      <VlanID></VlanID>
    </Group>
  </ProbeVlan>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ProbeVlan
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source or remote destination, remote probe VLAN can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
VlanID	Probe VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	Required. Can not change the vlan if the probe vlan has been created.

MGROUP/SourcePorts

This table contains information about source ports of the mirroring group.

XML structure

```
<MGROUP>
  <SourcePorts>
    <SourcePort>
      <ID></ID>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </SourcePort>
  </SourcePorts>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	SourcePorts
Table type	Multi-instance table
Row name	SourcePort
Restrictions	When the type of mirroring group is remote source or local, source port can be configured.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Direction of source port.	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound. • **3**—Both.	Required

Contents

MGROUP 1
MGROUP/Groups 1
XML structure 1
Table description 1
Columns 1
MGROUP/MonitorPort 2
XML structure 2
Table description 2
Columns 3
MGROUP/ReflectorPort 4
XML structure 4
Table description 4
Columns 4
MGROUP/EgressPort 4
XML structure 5
Table description 5
Columns 5
MGROUP/ProbeVlan 5
XML structure 5
Table description 6
Columns 6
MGROUP/SourcePorts 6
XML structure 6
Table description 6
Columns 7
MGROUP/Capabilities 7
XML structure 7
Table description 8
Columns 8

MGROUP

MGROUP/Groups

This table contains information about mirroring groups.

XML structure

```
<MGROUP>
  <Groups>
    <Group>
      <ID></ID>
      <Type></Type>
      <KeepLinkHeader></KeepLinkHeader>
      <Sampler></Sampler>
      <Status></Status>
    </Group>
  </Groups>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Type	Mirroring group type.	N/A	Enumeration: • **1**—Local. • **2**—Remote-source. • **3**—Remote-destination.	N/A
KeepLinkHeader	Keep source or destination MAC unchanged.	N/A	Boolean: • **true**—Keep source or destination MAC unchanged.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Do nothing.	
Sampler	References the sampler to limit the volume of traffic to be mirrored.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Support for this option depends on the device model.
Status	Mirroring group status.	N/A	Enumeration: • **1**—Incomplete. • **2**—Active.	N/A

MGROUP/MonitorPort

This table contains information about monitor port of mirroring groups.

XML structure

```
<MGROUP>
  <MonitorPort>
    <Group>
      <ID></ID>
      <Port></Port>
      <IfName></IfName>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VRF></VRF>
        <ReflectorPort></ReflectorPort>
        <ReflectorPort></ReflectorPort>
        <ProbeVlan></ProbeVlan>
      </IP>
      <Mac></Mac>
    </Group>
  </MonitorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	MonitorPort
Table type	Multi-instance table
Row name	Group

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of monitor port.	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
IP	Specify IP for mirroring to interface	Data structure	Members include: • **DestIP.** • **SrcIP.** • **DSCP.** • **VLAN.** • **VRF.**	DestIP and SrcIP must both be specified. DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured.
DestIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ReflectorPort	Index of reflector port	N/A	Unsigned integer.	ReflectorPort and ProbeVlan must both be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ReflectorPort Name	Name of reflector port	N/A	String. Length: 1 to 47 characters.	N/A
ProbeVlan	Probe VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Mac	Specify destination MAC	N/A	Six groups of two hexadecimal digits,	Example: 00-0c-af-e3-5d-c0.

Column name	Column description	Column type	Data type and restrictions	Remarks
	for mirroring to interface		hyphen-separated.	

MGROUP/ReflectorPort

This table contains information about reflector port of mirroring groups.

XML structure

```
<MGROUP>
  <ReflectorPort>
    <Group>
      <ID></ID>
      <Port></Port>
      <IfName></IfName>
    </Group>
  </ReflectorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ReflectorPort
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of reflector port.	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MGROUP/EgressPort

This table contains information about egress port of mirroring groups.

XML structure

```
<MGROUP>
  <EgressPort>
    <Group>
      <ID></ID>
      <Port></Port>
      <IfName></IfName>
    </Group>
  </EgressPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	EgressPort
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of egress port.	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MGROUP/ProbeVlan

This table contains information about remote probe VLAN of mirroring groups.

XML structure

```
<MGROUP>
  <ProbeVlan>
    <Group>
      <ID></ID>
      <VlanID></VlanID>
    </Group>
```

```
  </ProbeVlan>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ProbeVlan
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
VlanID	Probe VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MGROUP/SourcePorts

This table contains information about source ports of the mirroring group.

XML structure

```
<MGROUP>
  <SourcePorts>
    <SourcePort>
      <ID></ID>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <IfName></IfName>
    </SourcePort>
  </SourcePorts>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP

Table name	SourcePorts
Table type	Multi-instance table
Row name	SourcePort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Direction of source port.	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound. • **3**—Both.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MGROUP/Capabilities

This table contains capability information about mirroring group.

XML structure

```
<MGROUP>
  <Capabilities>
    <MaxGroupNum></MaxGroupNum>
    <SourceType></SourceType>
    <VlanTagMode></VlanTagMode>
    <MultiMonitor></MultiMonitor>
    <Sampler></Sampler>
    <MultiMonitorInOneGroup></MultiMonitorInOneGroup>
  </Capabilities>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroupNum	Max mirroring group number.	N/A	Unsigned integer	The range of mirroring group ID depends on the device model.
SourceType	Mirroring group source type.	N/A	Each bit represents a type as follows: 1—VLAN inbound 2—VLAN outbound 4—CPU inbound 8—CPU outbound	N/A
VlanTagMode	The VLAN tag on the message of the remote source mirroring group.	N/A	Each bit represents a type as follows: 1—Reflector 2—Egress 4—Reflector inner	N/A
MultiMonitor	Whether one port can be the source port of multiple mirroring groups.	N/A	Boolean: true—Support false—Not support	N/A
Sampler	The mirroring group type which support sampler.	N/A	Each bit represents a type as follows: 1—Local 2—Source 4—Remote destination	N/A
MultiMonitorInOneGroup	Whether one mirroring group supports multiple monitor ports.	N/A	Boolean: true—Support • false—Not support	N/A

Contents

MLAG 1
MLAG/ResetDrcpStatisticsTable 1
XML structure 1
Table description 1
Columns 1

MLAG

MLAG/ResetDrcpStatisticsTable

This table is used to reset the DRCP statistics.

XML structure

```
<MLAG>
  <ResetDrcpStatisticsTable>
    <ResetDrcpStatistics>
      <IfIndex></IfIndex>
    </ResetDrcpStatistics>
  </ResetDrcpStatisticsTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	ResetDrcpStatisticsTable
Table type	Multi-instance table
Row name	ResetDrcpStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the value of the column is set to 0, all entries will be cleared.

Contents

MLAG/Base 1
XML structure 1
Table description 1
Columns 1
MLAG/Role 2
XML structure 2
Table description 3
Columns 3
MLAG/Keepalive 3
XML structure 3
Table description 4
Columns 4
MLAG/PeerLinkTable 5
XML structure 5
Table description 5
Columns 5
MLAG/MLagPortTable 6
XML structure 6
Table description 6
Columns 6
MLAG/MLagAllPortTable 7
XML structure 7
Table description 7
Columns 8
MLAG/MAD/MADTable 8
XML structure 8
Table description 8
Columns 9
MLAG/MAD/UserIncludeInterfaces 9
XML structure 9
Table description 10
Columns 10
MLAG/MAD/UserExcludeInterfaces 10
XML structure 10
Table description 11
Columns 11
MLAG/GlobalConsistencyTable 11
XML structure 11
Table description 11
Columns 12
MLAG/IfVirtualIpAddressTable 12
XML structure 12
Table description 12
Columns 13
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress 13
Table description 13
Columns 13
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable 14
Table description 14
Columns 14
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress 14
Table description 14
Columns 15

MLAG

MLAG/Base

This table contains M-LAG Base information.

XML structure

```
<MLAG>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
    <AuthenticationKey></AuthenticationKey>
    <SequenceCheckEnable></SequenceCheckEnable>
    <StandaloneDelay></StandaloneDelay>
    <ReservedVlanList></ReservedVlanList>
  </Base>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMAC	M-LAG system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same M-LAG MAC address for the M-LAG member devices in an M-LAG system.
SystemPriority	M-LAG system priority	N/A	Unsigned integer. Value range: 0 to 65535.	Configure the same M-LAG system priority for the M-LAG member

			Default: 32768.	devices in an M-LAG system.
SystemNumber	M-LAG system number	N/A	Unsigned integer. Value range: 1 or 2.	Assign different M-LAG system numbers to the M-LAG member devices in an M-LAG system.
RestoreDelay	Data restoration interval in seconds	N/A	Unsigned integer. Value range: 1 to 3600. Default: 30.	N/A
AutoRecoveryReloadDelay	Reload delay timer in seconds for M-LAG system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A
AuthenticationKey	Encrypted authentication key of packets.	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form.
SequenceCheckEnable	Whether the sequence number check on packets is enabled	N/A	Boolean: • true • false(default)	N/A
StandaloneDelay	Delay that the device must wait before changing to M-LAG standalone mode, in seconds	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
ReservedVlanList	Reserved VLANs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. When the VLAN does not exist, the delivery fails.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< ReservedVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.

MLAG/Role

This table contains M-LAG Role information.

XML structure

```
<MLAG>
  <Role>
    <LocalRolePriority></LocalRolePriority>
```

```
  </Role>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalRolePriority	M-LAG role priority of the local M-LAG member device	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	The lower the value, the higher the priority.

MLAG/Keepalive

This table contains M-LAG Keepalive information.

XML structure

```
<MLAG>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
    <KeepaliveHoldTime></KeepaliveHoldTime>
    <VRF></VRF>
```

```
  </Keepalive>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Keepalive
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV4. • KeepaliveSourceIPV4.	N/A
KeepaliveDestinationIPV4	Destination IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPV4	Source IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.2 This column must be with the KeepaliveDestinationIPV4 column.
IPV6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV6. • KeepaliveSourceIPV6.	N/A
KeepaliveDestinationIPV6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPV6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:2 This column must be with the KeepaliveDestinationIPV6 column.
KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535. Default: 6400	The KeepaliveUDPPort must be with the IP address and KeepaliveUDPPort will be deleted when you delete IP address.
KeepaliveInte	Keepalive	N/A	Unsigned integer	N/A

rval	interval in milliseconds		Value range: 100 to 10000. Default: 1000.	
KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20 Default: 5.	The M-ALG keepalive timeout timer must be two times the M-LAG keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10. Default: 3.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.

MLAG/PeerLinkTable

This table contains information about M-LAG peer-link interface

XML structure

```
<MLAG>
  <PeerLinkTable>
    <PeerLink>
      <PeerLinkNumber></PeerLinkNumber>
      <IfIndex></IfIndex>
    </PeerLink>
  </PeerLinkTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	PeerLinkTable
Table type	Multi-instance table
Row name	PeerLink
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerLinkNumber	M-LAG Peer-link interface ID	Index	Unsigned integer.	The peer-link interface ID must be fixed at 1.

IfIndex	Interface index	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/MLagPortTable

This table contains information about M-LAG interfacess.

XML structure

```
<MLAG>
  <MLagPortTable>
    <MLagPort>
      <MLagGroupId></MLagGroupId>
      <IfIndex></IfIndex>
      <AllowSingleMember></AllowSingleMember>
    </MLagPort>
  </MLagPortTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	MLagPortTable
Table type	Multi-instance table
Row name	MLagPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MLagGroupId	M-Lag group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A

IfIndex	IfIndex value of the Layer 2 aggregate interface.	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllowSingleMember	Whether allow the aggregate interface to be the single member in the M-LAG group	N/A	Boolean: • true • false(default)	N/A

MLAG/MLagAllPortTable

This table contains port information about M-LAG.

XML structure

```
<MLAG>
  <MLagAllPortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrcpShortPeriodEnable></DrcpShortPeriodEnable>
      <PortSystemPriority></PortSystemPriority>
      <PortSystemMAC></PortSystemMAC>
    </Port>
  </MLagAllPortTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	MLagAllPortTable
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DrcpShortPeriodEnable	Whether enable the short DRCP timeout timer.	N/A	Boolean: • true • false(default)	N/A
PortSystemPriority	M-LAG interface system priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	Configure the same M-LAG system priority on the M-LAG interfaces in the same M-LAG group
PortSystemMAC	M-LAG interface system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same M-LAG MAC address on the M-LAG interfaces in the same M-LAG group

MLAG/MAD/MADTable

This table contains information about M-LAG MAD.

XML structure

```
<MLAG>
  <MAD>
    <MADTable>
      <MADDefaultAction></MADDefaultAction>
      <MADPersistent></MADPersistent>
      <ExcludeLogicalInterfaces></ExcludeLogicalInterfaces>
    </MADTable>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG

Item	Description
Table name	MADTable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MADDefaultAction	The default action of M-LAG MAD.	N/A	Enumeration: • down(Default). • none.	• Down. Interfaces will be set to M-LAG MAD SHUTDOWN state when the peer link goes down except excluded interfaces. • None: Interfaces will not be set to M-LAG MAD SHUTDOWN state when the peer link goes down except included interfaces.
`MADPersistent`	M-LAG MAD DOWN state persistence	N/A	Boolean: • true • false(default)	N/A
`ExcludeLogicalInterfaces`	Whether all logical interfaces are excluded from the shutdown action by M-LAG MAD	N/A	Boolean: • true • false(default)	N/A

MLAG/MAD/UserIncludeInterfaces

This table contains interfaces manually included in the M-LAG MAD shutdown action.

XML structure

```
<MLAG>
  <MAD>
    <UserIncludeInterfaces>
      <UserIncludeInterface>
        <IfIndex></IfIndex>
      </UserIncludeInterface>
```

```
    </UserIncludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	UserIncludeInterfaces
Table type	Multi-instance table
Row name	UserIncludeInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/MAD/UserExcludeInterfaces

This table contains interfaces manually excluded from the M-LAG MAD shutdown action.

XML structure

```
<MLAG>
  <MAD>
    <UserExcludeInterfaces>
      <UserExcludeInterface>
        <IfIndex></IfIndex>
      </UserExcludeInterface>
    </UserExcludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	UserExcludeInterfaces
Table type	Multi-instance table
Row name	UserExcludeInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/GlobalConsistencyTable

This table contains M-LAG global consistency information.

XML structure

```
<MLAG>
  <GlobalConsistencyTable>
    <LocalConsistencyEnable></LocalConsistencyEnable>
    <LocalConsistencyMode></LocalConsistencyMode>
  </GlobalConsistencyTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	GlobalConsistencyTable
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LocalConsistencyEnable	Whether the local consistency check function is enabled.	N/A	Boolean: • true(Default) • false
LocalConsistencyMode	Local consistency check mode.	N/A	Enumeration: • strict(Default). • loose.

MLAG/IfVirtualIpAddressTable

This table contains information about virtual IP addresses on interfaces.

XML structure

```
<MLAG>
  <IfVirtualIpAddressTable>
    <IfVirtualIpAddress>
      <IfIndex></IfIndex>
      <VirtualIpAddressTable>
        <VirtualIpAddress>
          <IpAddress></IpAddress>
          <PrefixLength></PrefixLength>
          <MacAddress></MacAddress>
          <ActiveMode></ActiveMode>
        </VirtualIpAddress>
      </VirtualIpAddressTable>
    </IfVirtualIpAddress>
  </IfVirtualIpAddressTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	IfVirtualIpAddressTable
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfVirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress

This table contains information about virtual IP addresses on all interfaces.

Table description

Item	Description
Feature name	MLAG
Table name	IfVirtualIpAddress
Table type	Multi-instance table
Row name	IfVirtualIpAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
VirtualIpAddressTable	Virtual IP address list	Subtable	N/A	For more information, see the MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/Virtu

Column name	Column description	Column type	Data type and restrictions	Remarks
				allpAddressTable table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

This table contains information about all virtual IP addresses on an interface.

Table description

Item	Description
Feature name	MLAG
Table name	VirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress

This table contains information about a virtual IP address on an interface.

Table description

Item	Description
Feature name	MLAG
Table name	VirtualIpAddress
Table type	Multi-instance table
Row name	VirtualIpAddress

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	M-LAG virtual IP address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLengh	Length of the address prefix	N/A	Unsigned integer	Value range: 1 to 128 for IPv6 1 to 32 for IPv4
MacAddress	MAC address of the M-LAG virtual IP address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1
ActiveMode	Whether the virtual IP address is effective on the local device.	N/A	Enumeration: • primary (Default). • active. • standby.	N/A

Contents

MLAG 1

MLAG/Base 1
XML structure 1
Table description 1
Columns 1
MLAG/Role 2
XML structure 2
Table description 3
Columns 3
MLAG/Keepalive 4
XML structure 4
Table description 5
Columns 5
MLAG/PeerLinkTable 6
XML structure 6
Table description 7
Columns 7
MLAG/MLagPortTable 7
XML structure 7
Table description 8
Columns 8
MLAG/MLagAllPortTable 8
XML structure 8
Table description 9
Columns 9
MLAG/MAD/MADTable 11
XML structure 11
Table description 12
Columns 12
MLAG/MAD/UserIncludeInterfaces 13
XML structure 13
Table description 13
Columns 13
MLAG/MAD/SystemIncludeInterfaces 14
XML structure 14
Table description 14
Columns 14
MLAG/MAD/UserExcludeInterfaces 15
XML structure 15
Table description 15
Columns 15
MLAG/MAD/SystemExcludeInterfaces 16
XML structure 16
Table description 16
Columns 16
MLAG/GlobalConsistencyTable 16
XML structure 16
Table description 17
Columns 17
MLAG/InterfaceConsistencyTable 18
XML structure 18
Table description 18
Columns 18
MLAG/DrcpStatisticsTable 19
XML structure 19
Table description 19
Columns 20

MLAG/IfVirtualIpAddressTable ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress ····· 22
Table description ····· 22
Columns ····· 22
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable ····· 22
Table description ····· 23
Columns ····· 23
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress ····· 23
Table description ····· 23
Columns ····· 23

MLAG

MLAG/Base

This table contains M-LAG Base information.

XML structure

```
<MLAG>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
    <AuthenticationKey></AuthenticationKey>
    <SequenceCheckEnable></SequenceCheckEnable>
    <StandaloneDelay></StandaloneDelay>
    <ReservedVlanList></ReservedVlanList>
  </Base>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMAC	M-LAG system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1. Configure the same M-LAG MAC address for the M-LAG member devices in an M-LAG system.
SystemPriority	M-LAG system priority	N/A	Unsigned integer. Value range: 0 to 65535.	Configure the same M-LAG system priority for the M-LAG member devices in an M-LAG system.

SystemNumber	M-LAG system number	N/A	Unsigned integer. Value range: 1 to.2.	Assign different M-LAG system numbers to the M-LAG member devices in an M-LAG system.
RestoreDelay	Data restoration interval in seconds	N/A	Unsigned integer. Value range: 1 to 3600.	N/A
AutoRecoveryReloadDelay	Reload delay timer in seconds for M-LAG system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A
AuthenticationKey	Encrypted authentication key of packets	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form.
SequenceCheckEnable	Whether the sequence number check on packets is enabled	N/A	Boolean: • true • false	N/A
StandaloneDelay	Delay that the device must wait before changing to M-LAG standalone mode, in seconds	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
ReservedVlanList	Reserved VLANs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. When the VLAN does not exist, the delivery fails.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “< ReservedVlanList base:incremental="true ">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.

MLAG/Role

This table contains M-LAG Role information.

XML structure

```
<MLAG>
  <Role>
    <LocalRolePriority></LocalRolePriority>
    <PeerRolePriority></PeerRolePriority>
    <LocalBridgeMAC></LocalBridgeMAC>
```

```
    <PeerBridgeMAC></PeerBridgeMAC>
    <LocalConfiguredRole></LocalConfiguredRole>
    <PeerConfiguredRole></PeerConfiguredRole>
    <LocalEffectiveRole></LocalEffectiveRole>
    <PeerEffectiveRole></PeerEffectiveRole>
    <LocalRoleTrigger></LocalRoleTrigger>
  </Role>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalRolePriority	M-LAG role priority of the local M-LAG member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
PeerRolePriority	M-LAG role priority of the peer M-LAG member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
LocalBridgeMAC	Bridge MAC address of the local M-LAG member device	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PeerBridgeMAC	Bridge MAC address of the peer M-LAG member device	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
LocalConfiguredRole	M-LAG role calculated based on the role priority and bridge MAC address of the local M-LAG member device	N/A	Enumeration: • none. • primary. • secondary.	N/A
PeerConfiguredRole	M-LAG role calculated based on the role priority and	N/A	Enumeration: • none. • primary. • secondary.	N/A

	bridge MAC address of the peer M-LAG member device			
LocalEffective Role	Current role of the local M-LAG member device	N/A	Enumeration: • none. • primary. • secondary.	N/A
PeerEffective Role	Current role of the peer M-LAG member device	N/A	Enumeration: • none. • primary. • secondary.	N/A
LocalRoleTrigger	The trigger for the current role	N/A	String: • M-LAG system initialization. • Peer link down and all M-LAG interfaces down. • Peer link and keepalive link down. • Peer link calculation. • Peer link down and role calculation based on keepalive link. • Local role is None and peer role is Primary before peer link comes up. • Local role is Primary and peer role is None before peer link comes up. • Peer down and all peer M-LAG interfaces down • Peer link and Keepalive link down. All local M-LAG interfaces down	N/A

MLAG/Keepalive

This table contains M-LAG Keepalive information.

XML structure

```
<MLAG>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
```

```
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
    <KeepaliveHoldTime></KeepaliveHoldTime>
    <KeepaliveLinkStatus></KeepaliveLinkStatus>
    <VRF></VRF>
    <LastDropCausation></LastDropCausation>
  </Keepalive>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	Keepalive
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV4. • KeepaliveSourceIPV4.	N/A
KeepaliveDestinationIPV4	Destination IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPV4	Source IPv4 address of the keepalive link	N/A	String, dotted decimal notation.	Example: 1.1.1.2 This column must be with the **KeepaliveDestinationIPV4** column.
IPV6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: • KeepaliveDestinationIPV6. • KeepaliveSourceIPV6.	N/A
KeepaliveDestinationIPV6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPV6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:2 This column must be with the **KeepaliveDestinationIPV6** column.

KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535.	The **KeepaliveUDPPort** must be with the IP address and **KeepaliveUDPPort** will be deleted when you delete IP address.
KeepaliveInterval	Keepalive Interval in milliseconds	N/A	Unsigned integer. Value range: 100 to 10000.	N/A
KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20.	The M-LAG keepalive timeout timer must be two times the M-LAG keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10.	N/A
KeepaliveLinkStatus	Keepalive link status	N/A	Enumeration: • unknown. • up. • down.	N/A
VRF	VPN instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.
LastDropCausation	Cause for keepalive packet drop	N/A	String: • None. • Invalid packet type. • The local role is none. • Incorrect packet length. • System MAC inconsistency. • System priority inconsistency. • Incorrect system number. • Invalid packet interval. • Sequence number check failed. • Failed authentication.	If an incoming keepalive packet is not dropped, the cause is None.

MLAG/PeerLinkTable

This table contains M-LAG peer-link interface information.

XML structure

```
<MLAG>
  <PeerLinkTable>
    <PeerLink>
      <PeerLinkNumber></PeerLinkNumber>
      <IfIndex></IfIndex>
    </PeerLink>
```

```
  </PeerLinkTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	PeerLinkTable
Table type	Multi -instance table
Row name	PeerLink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerLinkNumber	M-LAG peer-link interface ID	Index	Unsigned integer. Value range: 1.	The peer-link inteface ID must be fixed at 1.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/MLagPortTable

This table contains information about M-LAG interfaces.

XML structure

```
<MLAG>
  <MLagPortTable>
    <MLagPort>
      <MLagGroupId></MLagGroupId>
      <IfIndex></IfIndex>
      <AllowSingleMember></AllowSingleMember>
    </MLagPort>
  </MLagPortTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	MLagPortTable
Table type	Multi-instance table
Row name	MLagPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MLagGroupId	M-Lag group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
IfIndex	IfIndex value of the Layer 2 aggregate interface	N/A	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
`AllowSingleMember`	Whether allow the aggregate interface to be the single member in the M-Lag group	N/A	Boolean: • true • false	N/A

MLAG/MLagAllPortTable

This table contains port information about M-LAG.

XML structure

```
<MLAG>
```

```
  <MLagAllPortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrcpShortPeriodEnable></DrcpShortPeriodEnable>
      <PortStatus></PortStatus>
      <LocalDRCPState></LocalDRCPState>
      <PeerDRCPState></PeerDRCPState>
      <LocalSelectedMemberList></LocalSelectedMemberList>
      <PeerSelectedMemberList></PeerSelectedMemberList>
      <PortStatusCausation></PortStatusCausation>
      <PortSystemMAC></PortSystemMAC>
      <PortSystemPriority></PortSystemPriority>
    </Port>
  </MLagAllPortTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	MLagAllPortTable
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DrcpShortPeriodEnable	Whether the short DRCP timeout timer is enable	N/A	Boolean: • true • false	N/A
PortStatus	Port status	N/A	Enumeration: • down. • up.	N/A
LocalDRCPState	DRCP state on the local port	N/A	DRCP state flags. The flag field is one byte long, represented by ABCDEFGH	N/A

			from the lowest bit to the highest bit. A letter is displayed when its bit is 1 and is not displayed when its bit is 0. • A—Indicates whether DRCP is enabled on the local device.1 indicates enabled.0 indicates disabled. • B—Indicates whether DRCP is enabled on the M-LAG peer member device.1 indicates enabled.0 indicates disabled. • C—Indicates whether DRCP is enabled on a third M-LAG member device. 1 indicates enabled.0 indicates disabled. • D—Indicates whether the local peer-link interface has determined that DRCP is enabled on the M-LAG peer member device.1 indicates yes.0 indicates no. • E—Indicates the DRCP timeout timer.1 indicates the short timeout timer.0 indicates the long timeout timer. • F—Indicates whether the local peer-link interface permits the packets that contain the negotiated gateway conversation IDs.1 indicates yes.0 indicates no. • G—Indicates whether the local peer-link interface permits the packets that contain the negotiated port conversation IDs.1 indicates yes.0 indicates no. • H—Indicates whether the local DRCPDU receive machine is in default or expired state.1 indicates yes.0 indicates no.	
PeerDRCPState	DRCP state on the peer port	N/A	This column has the same data type and restrictions as **LocalDRCPState**.	N/A
LocalSelectedMemberList	Local M-LAG member device's selected aggregate member ports in a distributed	N/A	Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8,the second octet specifying ports 9	N/A

	relay group		through 16,and so on. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Each port of the bridge is represented by a single bit within the value of this object If a bit has a value of 1 then the port is included in the set of ports; a port is not included if its bit has a value of 0.	
PeerSelected MemberList	Peer M-ALG member device's selected aggregate member ports in a distributed relay group	N/A	This column has the same data type and restrictions as **LocalSelectedMemberList**.	N/A
PortStatusCa usation	The cause for the port status change	N/A	String: • None. • Aggregate interface down. • No correct DRCPDUs received. • Tunnel interface down. • The device role was None. • No peer M-LAG interface configured. • M-LAG MAD check. • Configuration consistency check failed. • Removed from an M-LAG group	N/A
PortSystemM AC	M-LAG interfae system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same M-LAG MAC address on the M-LAG interfaces in the same M-LAG group
PortSystemPri ority	M-LAG interface system priority	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	Configure the same M-LAG system priority on the M-LAG interfaces in the same M-LAG group

MLAG/MAD/MADTable

This table contains information about M-LAG MAD.

XML structure

```
<MLAG>
```

```
  <MAD>
    <MADTable>
      <MADDefaultAction></MADDefaultAction>
      <MADState></MADState>
      <MADPersistent></MADPersistent>
      <ExcludeLogicalInterfaces></ExcludeLogicalInterfaces>
    </MADTable>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	MADTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MADDefaultAction	The default action of M-LAG MAD	N/A	Enumeration: • down. • none.	• Down. Interfaces will be set to M-LAG MAD SHUTDOWN state when the peer link goes down except excluded interfaces. • None: Interfaces will not be set to M-LAG MAD SHUTDOWN state when the peer link goes down except included interfaces.
MADState	Whether the M-LAG system is on MAD state	N/A	Boolean: • true • false	N/A
`MADPersistent`	M-LAG MAD DOWN state persistence	N/A	Boolean: • true • false	N/A
`ExcludeLogicalInterfaces`	Whether all logical interfaces are excluded from the shutdown action	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	by M-LAG MAD			

MLAG/MAD/UserIncludeInterfaces

This table contains interfaces manually included in the M-LAG MAD shutdown action.

XML structure

```
<MLAG>
  <MAD>
    <UserIncludeInterfaces>
      <UserIncludeInterface>
        <IfIndex></IfIndex>
        <Active></Active>
      </UserIncludeInterface>
    </UserIncludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	UserIncludeInterfaces
Table type	Multi-instance table
Row name	UserIncludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Active	Whether the manual configuration is	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	effective			

MLAG/MAD/SystemIncludeInterfaces

This table contains interfaces included in the M-LAG MAD shutdown action by the system.

XML structure

```
<MLAG>
  <MAD>
    <SystemIncludeInterfaces>
      <SystemIncludeInterface>
        <IfIndex></IfIndex>
      </SystemIncludeInterface>
    </SystemIncludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	SystemIncludeInterfaces
Table type	Multi-instance table
Row name	SystemIncludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/MAD/UserExcludeInterfaces

This table contains interfaces manually excluded from the M-LAG MAD shutdown action.

XML structure

```
<MLAG>
  <MAD>
    <UserExcludeInterfaces>
      <UserExcludeInterface>
        <IfIndex></IfIndex>
        <Active></Active>
      </UserExcludeInterface>
    </UserExcludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	UserExcludeInterfaces
Table type	Multi-instance table
Row name	UserExcludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Active	Whether the manual configuration is effective	N/A	Boolean: • true • false	N/A

MLAG/MAD/SystemExcludeInterfaces

This table contains interfaces excluded from the M-LAG MAD shutdown action by the system.

XML structure

```
<MLAG>
  <MAD>
    <SystemExcludeInterfaces>
      <SystemExcludeInterface>
        <IfIndex></IfIndex>
      </SystemExcludeInterface>
    </SystemExcludeInterfaces>
  </MAD>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	SystemExcludeInterfaces
Table type	Multi-instance table
Row name	SystemExcludeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MLAG/GlobalConsistencyTable

This table contains information about M-LAG global consistency check.

XML structure

```
<MLAG>
```

```
  <GlobalConsistencyTable>
    <LocalConsistencyEnable></LocalConsistencyEnable>
    <PeerConsistencyEnable></PeerConsistencyEnable>
    <LocalConsistencyMode></LocalConsistencyMode>
    <PeerConsistencyMode></PeerConsistencyMode>
    <Type1Result></Type1Result>
    <Type1InConsistency></Type1InConsistency>
    <Type2Result></Type2Result>
    <Type2InConsistency></Type2InConsistency>
  </GlobalConsistencyTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	GlobalConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LocalConsistencyEnable	Whether local consistency check function is enabled	N/A	Boolean: • true • false
PeerConsistencyEnable	Whether peer consistency check function is enabled	N/A	Boolean: • true • false
LocalConsistencyMode	Local consistency check mode	N/A	Enumeration: • strict. • loose.
PeerConsistencyMode	Peer consistency check mode	N/A	Enumeration: • strict. • loose.
Type1Result	The result of type1 consistency check	N/A	Enumeration: • none. • success. • failed.
Type1InConsistency	The module that failed type1 consistency check	N/A	String.

Column name	Column description	Column type	Data type and restrictions
Type2Result	The result of type2 consistency check	N/A	Enumeration: • none. • success. • failed.
Type2InConsistency	The module that failed type2 consistency check	N/A	String.

MLAG/InterfaceConsistencyTable

This table contains information about M-LAG interface consistency check.

XML structure

```
<MLAG>
  <InterfaceConsistencyTable>
    <InterfaceConsistency>
      <IfIndex></IfIndex>
      <Type1Result></Type1Result>
      <Type1InConsistency></Type1InConsistency>
      <Type2Result></Type2Result>
      <Type2InConsistency></Type2InConsistency>
    </InterfaceConsistency>
  </InterfaceConsistencyTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	InterfaceConsistencyTable
Table type	Multi-instance table
Row name	InterfaceConsistency
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Type1Result	The result of type1 consistency check	N/A	Enumeration: • none. • success. • failed.	N/A
Type1InConsistency	The module that failed type1 consistency check	N/A	String.	N/A
Type2Result	The result of type2 consistency check	N/A	Enumeration: • none. • success. • failed.	N/A
Type2InConsistency	The module that failed type2 consistency check	N/A	String.	N/A

MLAG/DrcpStatisticsTable

This table contains information about DRCPDU statistics.

XML structure

```
<MLAG>
  <DrcpStatisticsTable>
    <DrcpStatistics>
      <IfIndex></IfIndex>
      <SendPackets></SendPackets>
      <RcvNormalPackets></RcvNormalPackets>
      <RcvErrPackets></RcvErrPackets>
      <RcvUnKnownPackets></RcvUnKnownPackets>
      <LastRcvFailedReason></LastRcvFailedReason>
      <LastRcvSrcMAC></LastRcvSrcMAC>
    </DrcpStatistics>
  </DrcpStatisticsTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG

Item	Description
Table name	DrcpStatisticsTable
Table type	Multi-instance table
Row name	DrcpStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SendPackets	The count of sent packets	N/A	Unsigned integer.	N/A
RcvNormalPackets	The count of received normal packets	N/A	Unsigned integer.	N/A
RcvErrPackets	The count of received error packets	N/A	Unsigned integer.	N/A
RcvUnKnownPackets	The count of received unknown packets	N/A	Unsigned integer.	N/A
LastRcvFailedReason	Last dropped packet reason	N/A	String: • None. • Incorrect port. • Incorrect packet type. • Incorrect packet version. • Incorrect packet length. • Received packets of oneself. • Local M-LAG interface not configured. • System MAC inconsistency. • System priority inconsistency. • Incorrect system number. • ncorrect sequence number. • Failed authentication. • Other error.	If receive packet successful, the reason is none.

Column name	Column description	Column type	Data type and restrictions	Remarks
LastRcvSrcMAC	The source MAC address of last received packet.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-01-00-01-00-01.

MLAG/IfVirtualIpAddressTable

This table contains information about virtual IP addresses on interfaces.

XML structure

```
<MLAG>
  <IfVirtualIpAddressTable>
    <IfVirtualIpAddress>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VirtualIpAddressTable>
        <VirtualIpAddress>
          <IpAddress></IpAddress>
          <PrefixLength></PrefixLength>
          <MacAddress></MacAddress>
          <ActiveMode></ActiveMode>
        </VirtualIpAddress>
      </VirtualIpAddressTable>
    </IfVirtualIpAddress>
  </IfVirtualIpAddressTable>
</MLAG>
```

Table description

Item	Description
Feature name	MLAG
Table name	IfVirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfVirtualIpAddress	Virtual IP address list	Sublist	N/A	For more information, see the MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress

This table contains information about virtual IP addresses on all interface.

Table description

Item	Description
Feature name	MLAG
Table name	IfVirtualIpAddress
Table type	Multi-instance table
Row name	IfVirtualIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
VirtualIpAddressTable	Virtual IP address list	Subtable	N/A	For more information, see the MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

This table contains information about all virtual IP addresses on an interface.

Table description

Item	Description
Feature name	MLAG
Table name	VirtualIpAddressTable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualIpAddr ess	Virtual IP address list	Sublist	N/A	For more information, see the MLAG/ IfVirtualIpAddressTable /IfVirtualIpAddress/Virtu alIpAddressTable/Virtu alIpAddress table.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress /VirtualIpAddressTable/VirtualIpAddress

This table contains information about a virtual IP address on an interface.

Table description

Item	Description
Feature name	MLAG
Table name	VirtualIpAddress
Table type	Multi-instance table
Row name	VirtualIpAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	M-LAG virtual IP address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLengh	Length of the address prefix	N/A	Unsigned integer	Value range:

Column name	Column description	Column type	Data type and restrictions	Remarks
				1 to 128 for IPv6 1 to 32 for IPv4
MacAddress	MAC address of the M-LAG virtual IP address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1
ActiveMode	Whether the virtual IP address is effective on the local device	N/A	Enumeration: • primary. • active. • standby.	N/A

Contents

MLAG 2
MLAG/Base 2
MLAG/Role 2
MLAG/Keepalive 2
MLAG/PeerLinkTable 3
MLAG/MLagPortTable 3
MLAG/MLagAllPortTable 4
MLAG/MAD/MADTable 4
MLAG/MAD/UserIncludeInterfaces 4
MLAG/MAD/SystemIncludeInterfaces 5
MLAG/MAD/UserExcludeInterfaces 5
MLAG/MAD/SystemExcludeInterfaces 5
MLAG/GlobalConsistencyTable 5
MLAG/InterfaceConsistencyTable 5
MLAG/DrcpStatisticsTable 5
MLAG/ResetDrcpStatisticsTable 6
MLAG/IfVirtualIpAddressTable 6
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress 6
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable 6
MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress 6

MLAG

MLAG/Base

Message	Explanation
The MAC address cannot be an all-zero address, a multicast address, or a broadcast address. 不允许配置MAC地址为全零MAC地址、组播MAC地址或广播MAC地址。	The system MAC address cannot be an all-zero address, a multicast address, or a broadcast address.

MLAG/Role

Message	Explanation
None. 无。	None.

MLAG/Keepalive

Message	Explanation
Please specify the destination IP addresses of keepalive packets. 指定Keepalive报文的目的IP地址。	Specify the destination IP address of the keepalive link.
The destination and source IP addresses cannot be the same. 目的IP地址和源IP地址不能相同。	The destination address must be different from the source address.
You cannot specify both IPv4 and IPv6 addresses for keepalive packets. Keepalive报文参数不能同时指定IPv4地址和IPv6地址。	The destination and source addresses of the keepalive link must both be IPv4 or IPv6.
Invalid destination or source IP address. 无效的源/目的IP地址。	The IP address is invalid. You must specify a valid destination or source IP address for the keepalive link.
Please delete all parameters of keepalive configuration. 请删除所有的keepalive配置参数。	You need to delete all parameters.
The source and destination IP addresses of keepalive packets must have the same Internet protocol version. Keepalive报文的源IP地址和目的IP地址必须使用相同的IP地址协议。	The Internet protocol version of destination and source address must be the same.

MLAG/PeerLinkTable

Message	Explanation
The interface is already configured as an M-LAG interface. 该接口已经是M-LAG接口。	The interface is an M-LAG interface. You cannot configure it as a peer-link interface.
The device already has a peer-link interface. 设备已经存在一个peer-link接口。	A device can have only one peer-link interface.
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.
The tunnel interface must be in VXLAN mode. Tunnel接口想要配置为peer-link接口，该Tunnel接口必须处于VXLAN模式。	If you want to configure a tunnel interface as the peer-link interface, it must be in VXLAN mode. 如果想要指定一个Tunnel接口为peer-link接口，该Tunnel接口必须处于VXLAN模式。
Operation failed. The VXLAN tunnel has been assigned to a VXLAN, or the VXLAN tunnel interface is automatically created. 操作失败，该Tunnel已经与VXLAN关联，或者该Tunnel接口是自动生成的Tunnel接口。	The VXLAN tunnel interface that you want to configure as a peer-link interface has already been assigned to a VXLAN, or it is automatically created. 想要配置为peer-link口的Tunnel接口不能与VXLAN关联，或者Tunnel接口不能是自动生成的Tunnel接口。
The interface cannot act as a peer-link inteface. 该类型的接口不支持配置为peer-link接口。	The peer-link interface must be a Layer 2 aggregate interface or tunnel interface.仅支持将二层聚合接口和Tunnel接口配置为peer-link接口。
`Can't configure the interface as a peer-link interface because of a driver error.` 不能配置为peer-link接口，因为驱动错误	An error occurred in assigning the peer-link interface role to an interface. 绑定peer-link接口时，驱动发生错误

MLAG/MLagPortTable

Message	Explanation
The interface is already configured as a peer-link interface. 该接口已经是peer-link接口。	The interface is already a peer-link interface. You cannot configure it as an M-LAG interface.
The interface must be a Layer 2 aggregate interface. 该接口必须是二层聚合接口。	You must specify a Layer 2 aggregate interface.
The M-LAG group with the specified ID is already configured on another interface. 该MLAG组ID已经存在。	A device cannot have two M-LAG groups with the same ID.
Please specify a valid interface index. 请指定有效的接口索引。	The interface index must exist.
The interface is already an M-LAG interface in another M-LAG group.	The interface is an M-LAG interface in another M-LAG group. You must specify another interface.

接口已经是另外一个M-LAG组中的成员接口了。	接口已经是另外一个M-LAG组中的成员接口，可以尝试更换为另一个接口。
The interface is a member of an S-MLAG group. 接口是一个S-MLAG组的成员接口。	Can't assign the interface to the M-LAG groupe because the interface is a member of an S-MLAG group. 接口无法加入该M-LAG组，因为它已经是一个S-MLAG组的成员接口。
Can't configure the interface as an M-LAG interface because of a driver error. 不能配置为M-LAG成员接口，因为驱动错误。	An error occurred in assigning the M-LAG interface role to an interface. 绑定M-LAG成员接口时，驱动发生错误。
Please first remove the aggregate interface from the M-LAG group. 请先将该聚合接口从M-LAG组中移除。	The interface is already in the M-LAG group. You can enable an aggregate interface to be the single member in an M-LAG group only when you assign the aggregate interface to the M-LAG group. 已经存在该M-LAG组，且与当前配置冲突。

MLAG/MLagAllPortTable

Message	Explanation
Can’t change the system MAC address. Please first assign the interface to an M-LAG group. 只有聚合接口配置为M-LAG接口后，才允许在该聚合接口视图下配置系统MAC地址。	The interface must be an M-LAG interface. 该接口必须是M-LAG成员接口。
Can’t change the system priority. Please first assign the interface to an M-LAG group. 只有聚合接口配置为M-LAG成员接口后，才允许在该聚合接口视图下配置系统优先级。	The interface must be an M-LAG interface.. 该接口必须是M-LAG接口。

MLAG/MAD/MADTable

Message	Explanation
None. 无。	None.

MLAG/MAD/UserIncludeInterfaces

Message	Explanation
The interface is already excluded from the MAD shutdown action by M-LAG. 该接口已经配置为M-LAG保留接口。	The interface has been excluded from Mad shutdown action, you must undo the operation first. 该接口已经配置为M-LAG保留接口，请先删除该配置。

MLAG/MAD/SystemIncludeInterfaces

Message	Explanation
None. 无。	None.

MLAG/MAD/UserExcludeInterfaces

Message	Explanation
The interface is already included in the MAD shutdown action by M-LAG. 该接口已经配置为需要被置为M-LAG MAD DOWN状态。	The interface has been included in Mad shutdown action, you must undo the operation first. 该接口已经配置为需要被置为M-LAG MAD DOWN状态，请先删除该配置。

MLAG/MAD/SystemExcludeInterfaces

Message	Explanation
None. 无。	None.

MLAG/GlobalConsistencyTable

Message	Explanation
None. 无。	None.

MLAG/InterfaceConsistencyTable

Message	Explanation
None. 无。	None.

MLAG/DrcpStatisticsTable

Message	Explanation
None. 无。	None.

MLAG/ResetDrcpStatisticsTable

Message	Explanation
None. 无。	None.

MLAG/IfVirtualIpAddressTable

Message	Explanation
None. 无。	None.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress

Message	Explanation
None. 无。	None.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable

Message	Explanation
None. 无。	None.

MLAG/IfVirtualIpAddressTable/IfVirtualIpAddress/VirtualIpAddressTable/VirtualIpAddress

Message	Explanation
Invalid IP address or subnet mask. 无效的IP地址或子网掩码长度。	Invalid IP address or subnet mask. 无效的IP地址或子网掩码长度。
The number of virtual IP addresses assigned to the interface has reached the upper limit. 虚拟IP地址的数量已达到上限。	Maximum number of virtual IP addresses is already reached. 接口下已配置的虚拟IP地址数已达到上限。
The subnet overlaps with another interface. 虚拟IP地址的网段与其他接口下IP地址的网段重复。	The subnet of the IP address overlaps with the subnet of another interface on the device. 接口IP地址配置所在网段与本设备其他接口网段重复。
The IPv6 address overlaps with another interface.	The IPv6 address is used by another interface on the device.

虚拟IPv6地址与其他接口上的IPv6地址重复。	本接口的IPv6地址与本设备其他接口的IPv6地址冲突。
Invalid IPv6 address. You must enter an IPv6 global unicast address. 无效的IPv6地址。仅支持IPv6单播地址。	The IPv6 address is not a valid IPv6 global unicast address. 该IPv6地址不是一个有效的单播地址。
The MAC address has been associated with another IPv4 address. 该MAC地址已经被其他虚拟IPv4地址使用。	The MAC address is used by another IP address. MAC地址已经被其他IP地址使用。
The MAC address has been associated with another IPv6 address. 该MAC地址已经被其他虚拟IPv6地址使用。	The MAC address is used by another IPv6 address. MAC地址已经被其他IPv6地址使用。
Make sure the IP addresses associated with this MAC address are in the same state. 对于同一MAC地址，虚拟IPv4地址和虚拟IPv6地址在M-LAG设备上的状态必须一致。	All IP addresses associated with this MAC address must be in the same state. MAC地址对应的所有IP地址必须处于相同的状态。
The MAC address cannot be an all-zero address, a multicast address, or a broadcast address. 不允许配置MAC地址为全零MAC地址、组播MAC地址或广播MAC地址。	The system MAC address cannot be an all-zero address, a multicast address, or a broadcast address.

Contents

MLAG event stream 1
BaseInfoEvent event 1
XML structure for event subscription 1
XML structure for event report 1
RoleInfoEvent event 2
XML structure for event subscription 2
XML structure for event report 3
PortInfoEvent event 3
XML structure for event subscription 3
XML structure for event report 4
KeepaliveInfoEvent event 4
XML structure for event subscription 5
XML structure for event report 5
PortStatusEvent event 6
XML structure for event subscription 6
XML structure for event report 6

MLAG event stream

BaseInfoEvent event

This event is used to report M-LAG BaseInfo.

XML structure for event subscription

```
<BaseInfoEvent>
</BaseInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MLAG</stream>
    <filter type="subtree">
      <BaseInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
      </BaseInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MLAG
Event name	BaseInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MLAG:1.0
Support for extended query	No

XML structure for event report

```
<BaseInfoEvent>
  <BaseInfo>
    <SystemMAC></SystemMAC>
    <OperationType></OperationType>
  </BaseInfo>
</BaseInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BaseInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
    <BaseInfo>
      <SystemMAC>00-01-00-01-00-01</SystemMAC>
      <OperationType>create</OperationType>
```

```
    </BaseInfo>
  </BaseInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
SystemMAC	M-LAG system MAC address	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No	You must configure the same M-LAG system MAC address for the M-LAG member devices in an M-LAG system.
OperationType	Operation type	Enumeration: • create. • modify. • delete.	No	The operation type specifies the operation that M-LAG BaseInfo should perform.

RoleInfoEvent event

This event is used to report M-LAG RoleInfo.

XML structure for event subscription

```
<RoleInfoEvent>
</RoleInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MLAG</stream>
    <filter type="subtree">
      <RoleInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
      </RoleInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MLAG
Event name	RoleInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MLAG:1.0
Support for extended query	No

XML structure for event report

```
<RoleInfoEvent>
  <LocalBridgeMAC></LocalBridgeMAC>
  <PeerBridgeMAC></PeerBridgeMAC>
</RoleInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <RoleInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
    <RoleInfo>
      <LocalBridgeMAC>00-01-00-01-00-01</LocalBridgeMAC>
      <PeerBridgeMAC>00-01-00-01-00-03</PeerBridgeMAC>
    </RoleInfo>
  </RoleInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query
LocalBridgeMAC	Bridge MAC address of the local device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No
PeerBridgeMAC	Bridge MAC address of the peer device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No

PortInfoEvent event

This event is used to report M-LAG PortInfo.

XML structure for event subscription

```
<PortInfoEvent>
</PortInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MLAG</stream>
    <filter type="subtree">
      <PortInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
      </PortInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MLAG
Event name	PortInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MLAG:1.0
Support for extended query	No

XML structure for event report

```
<PortInfoEvent>
  <PortInfo>
    <IfIndex></IfIndex>
    <MLAGGroupId></MLAGGroupId>
    <OperationType></OperationType>
  </PortInfo>
</PortInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PortInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
    <PortInfo>
      <IfIndex>66</IfIndex>
      <MLAGGroupId>66</MLAGGroupId>
      <OperationType>create</OperationType>
    </PortInfo>
  </PortInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Aggregation interface ifIndex	Unsigned integer.	No	Interface name is not supported.
MLAGGroupId	M-LAG group ID	Unsigned integer. Value range: 1 to 1024.	No	N/A
OperationType	Operation type	Enumeration: • create. • modify. • delete.	No	The operation type specifies the operation that DNRI PortInfo should perform.

KeepaliveInfoEvent event

This event is used to report M-LAG keepalive information.

XML structure for event subscription

```
<KeepaliveInfoEvent>
</KeepaliveInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MLAG</stream>
    <filter type="subtree">
      <KeepaliveInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
      </KeepaliveInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MLAG
Event name	KeepaliveInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MLAG:1.0
Support for extended query	No

XML structure for event report

```
<KeepaliveInfoEvent>
  <KeepaliveLinkStatus></KeepaliveLinkStatus>
</KeepaliveInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <KeepaliveInfoEvent     xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
    <KeepaliveInfo>
      <KeepaliveLinkStatus>down</KeepaliveLinkStatus>
    </KeepaliveInfo>
  </KeepaliveInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query
KeepaliveLink Status	Keepalive link status	Enumeration: • up. • down.	No

PortStatusEvent event

This event is used to report peer-link interface andM-LAG interfacestatus.

XML structure for event subscription

```
<PortStatusEvent>
</PortStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MLAG</stream>
    <filter type="subtree">
      <PortStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
      </PortStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MLAG
Event name	PortStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MLAG:1.0
Support for extended query	No

XML structure for event report

```
<PortStatusEvent>
  <PortStatusInfo>
    <IfIndex></IfIndex>
    <IfName></IfName>
    <PortStatus></PortStatus>
    <PortStatusCausation></PortStatusCausation>
  </PortStatusInfo>
</PortStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PortStatusEvent     xmlns="http://www.h3c.com/netconf/event:1.0/MLAG:1.0">
    <PortStatusInfo>
      <IfIndex>66</IfIndex>
      <IfName>Bridge-Aggregation1</IfName>
      <PortStatus>down</PortStatus>
      <PortStatusCausation>Aggregate interface down</PortStatusCausation>
```

```
    </PortStatusInfo>
  </PortStatusEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	Interface name is not supported.
IfName	Interface name	String Length: 1 to 47 characters.	No	N/A
PortStatus	Port status	Enumeration: • down. • up.	No	N/A
PortStatusCausation	The cause for the port status change	String: • None. • Aggregate interface down. • No correct DRCPDUs received. • Tunnel interface down. • Peer no correct DRCPDUs received. • Removed from a peer-link interface group. • The device role was None. • No peer M-LAG interface configured. • MLAG MAD check. • Configuration consistency check failed. • Removed from an M-LAG group.	No	N/A

Contents

MLD 1
MLD/Interfaces 1
XML structure 1
Table description 1
Columns 2
MLD/UserProfiles 3
XML structure 3
Table description 4
Columns 4
MLD/Instances 4
XML structure 4
Table description 5
Columns 5
MLD/SsmMappings 5
XML structure 5
Table description 6
Columns 6

MLD

MLD/Interfaces

This table contains MLD interface information.

XML structure

```
<MLD>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
      <AuthEnabled></AuthEnabled>
      <JoinBySession></JoinBySession>
      <UserAggOuterVlan></UserAggOuterVlan>
      <UserAggInnerVlan></UserAggInnerVlan>
      <DynamicVlan></DynamicVlan>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastListenerQueryInterval></LastListenerQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
      <GroupPolicy>
        <Acl></Acl>
        <MldVersion></MldVersion>
      </GroupPolicy>
    </Interface>
  </Interfaces>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*
Enabled	MLD enabling status	N/A	Boolean: • **true**—Enabled • **false**—Disabled (default)	N/A
Version	MLD version	N/A	Enumeration: • **1**—MLD version 1 (default) • **2**—MLD version 2	N/A
AuthEnabled	MLD authorization enabling status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
JoinBySession	Per-session multicast forwarding status	N/A	Enumeration: • **1**—Per-session multicast forwarding is enabled for BRAS access users. • **2**—Per-session multicast forwarding is enabled for non-BRAS access users. • **3**—Per-session multicast forwarding is enabled for both BRAS and non-BRAS access users.	N/A
UserAggOuterVlan	Outer VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
UserAggInnerVlan	Inner VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
DynamicVlan	Status of user-VLAN-based dynamic VLAN tagging on multicast packets	N/A	Enumeration: • **0**—Disabled (default). • **1**—Enabled.	N/A
QueryInterval	Specify a general query interval.	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RobustCount	Specify a robustness count.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
LastMemberQueryInterval	Specify a lLast member query interval.	N/A	Unsigned integer. Value range: 1 to 25, in seconds.	N/A
MaxResponseTime	Specify a maximum response time.	N/A	Unsigned integer. Value range: 1 to 3174, in seconds.	N/A
OtherQuerierPresentInterval	Specify an other querier present interval.	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
GroupPolicy	Multicast group policy	Data structure	Members include: • Acl MLDVersion	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: • 2000 to 3999. ACL name: • String. Length: 1 to 63.	If the ACL does not exist or does not have valid rules, hosts cannot join any multicast groups.
MldVersion	Version number.	N/A	Unsigned integer. Value range: 1 to 2.	By default, this commanda multicast group policy takes effect on MLD reports of all versions.

MLD/UserProfiles

This table contains MLD user profile information.

XML structure

```
<MLD>
  <UserProfiles>
    <UserProfile>
      <UserProfileName></UserProfileName>
      <AccessPolicy></AccessPolicy>
    </UserProfile>
  </UserProfiles>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	UserProfiles
Table type	Multi-instance table
Row name	UserProfile
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with a letter or digit, and cannot contain only digits. The name must be unique globally.
AccessPolicy	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A

MLD/Instances

This table contains MLD instance information.

XML structure

```
<MLD>
  <Instances>
    <Instance>
      <VRF></VRF>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastListenerQueryInterval></LastListenerQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
    </Instance>
  </Instances>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
QueryInterval	Query interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 125.	N/A
RobustCount	Robustness count	N/A	Unsigned integer. Value range: 1 to 255. Default: 2.	N/A
LastListenerQueryInterval	Last listener query interval	N/A	Unsigned integer. Value range: 1 to 25 , in seconds. Default: 1.	N/A
MaxResponseTime	Maximum response time	N/A	Unsigned integer. Value range: 1 to 3174, in seconds. Default: 10.	N/A
OtherQuerierPresentInterval	Other querier present interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds. Default: 255	N/A

MLD/SsmMappings

This table contains MLD SSM mapping information.

XML structure

```
<MLD>
  <SsmMappings>
    <SsmMapping>
```

```
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <Policy></Policy>
    </SsmMapping>
  </SsmMappings>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	SsmMappings
Table type	Multi-instance table
Row name	SsmMapping
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A
Policy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range:2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A

Contents

MLD 1
MLD/Interfaces 1
XML structure 1
Table description 1
Columns 2
MLD/Groups 3
XML structure 3
Table description 4
Columns 4
MLD/SrcList 4
XML structure 4
Table description 5
Columns 5
MLD/UserProfiles 6
XML structure 6
Table description 6
Columns 6
MLD/Instances 7
XML structure 7
Table description 7
Columns 7
MLD/SsmMappings 8
XML structure 8
Table description 8
Columns 8

MLD

MLD/Interfaces

This table contains MLD interface information.

XML structure

```
<MLD>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
      <AuthEnabled></AuthEnabled>
      <JoinBySession></JoinBySession>
      <UserAggOuterVlan></UserAggOuterVlan>
      <UserAggInnerVlan></UserAggInnerVlan>
      <DynamicVlan></DynamicVlan>
      <IfName></IfName>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastListenerQueryInterval></LastListenerQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
      <GroupPolicy>
        <Acl></Acl>
        <MldVersion></MldVersion>
      </GroupPolicy>
    </Interface>
  </Interfaces>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*
Enabled	MLD enabling status	N/A	Boolean: • **true**—Enabled • **false**—Disabled	N/A
Version	MLD version	N/A	Enumeration: • **1**—MLD version 1 • **2**—MLD version 2	N/A
AuthEnabled	MLD authorization enabling status	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
JoinBySession	Per-session multicast forwarding status	N/A	Enumeration: • **1**—Per-session multicast forwarding is enabled for BRAS access users. • **2**—Per-session multicast forwarding is enabled for non-BRAS access users. • **3**—Per-session multicast forwarding is enabled for both BRAS and non-BRAS access users.	N/A
UserAggOuterVlan	Outer VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
UserAggInnerVlan	Inner VLAN for static VLAN tagging on multicast packets	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
DynamicVlan	Status of user-VLAN-based dynamic VLAN tagging on multicast packets	N/A	Enumeration: • **0**—Disabled (default). • **1**—Enabled.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
QueryInterval	Specify a general query	N/A	Unsigned integer. Value range: 1 to 31744, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interval.		seconds.	
RobustCount	Specify a robustness count.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
LastMemberQueryInterval	Specify a lLast member query interval.	N/A	Unsigned integer. Value range: 1 to 25, in seconds.	N/A
MaxResponseTime	Specify a maximum response time.	N/A	Unsigned integer. Value range: 1 to 3174, in seconds.	N/A
OtherQuerierPresentInterval	Specify an other querier present interval.	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
GroupPolicy	Multicast group policy	Data structure	Members include: • Acl • MLDVersion	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: • 2000 to 3999. ACL name: • String. • Length: 1 to 63.	If the ACL does not exist or does not have valid rules, hosts cannot join any multicast groups.
MldVersion	Version number.	N/A	Unsigned integer. Value range: 1 to 2.	By default, this commanda multicast group policy takes effect on Mld reports of all versions.

MLD/Groups

This table contains MLD group information.

XML structure

```
<MLD>
  <Groups>
    <Group>
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Group>
  </Groups>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	This table supports only Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*
GroupAddr	IPv6 multicast group address	Index	Hexadecimal string, colon-separated	Example: FF1E::1
Uptime	Length of time since the IPv6 multicast group was reported	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the IPv6 multicast group	N/A	Unsigned integer (in seconds)	A value of 0xFFFFFFFF indicates that the multicast group will not expire
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

MLD/SrcList

This table contains source information of MLD groups.

XML structure

```
<MLD>
  <SrcList>
    <Src>
```

```
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Src>
  </SrcList>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	SrcList
Table type	Multi-instance table
Row name	Src
Restrictions	This table supports only Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
GroupAddr	IPv6 multicast group address	Index	Hexadecimal string, colon-separated	Example: FF1E::1
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated	Example: 2100::1
Uptime	Length of time since the multicast source was reported	N/A	Unsigned integer (in seconds)	N/A
Expires	Remaining time of the multicast source	N/A	Unsigned integer (in seconds)	A value of 0xFFFFFFFF indicates that the multicast group will not expire
IfName	Interface name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 2 to 47 characters.	

MLD/UserProfiles

This table contains MLD user profile information.

XML structure

```
<MLD>
  <UserProfiles>
    <UserProfile>
      <UserProfileName></UserProfileName>
      <AccessPolicy></AccessPolicy>
    </UserProfile>
  </UserProfiles>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	UserProfiles
Table type	Multi-instance table
Row name	UserProfile
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with a letter or digit, and cannot contain only digits. The name must be unique globally.
AccessPolicy	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A

MLD/Instances

This table contains MLD instance information.

XML structure

```
<MLD>
  <Instances>
    <Instance>
      <VRF></VRF>
      <QueryInterval></QueryInterval>
      <RobustCount></RobustCount>
      <LastListenerQueryInterval></LastListenerQueryInterval>
      <MaxResponseTime></MaxResponseTime>
      <OtherQuerierPresentInterval></OtherQuerierPresentInterval>
    </Instance>
  </Instances>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
QueryInterval	Query interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A
RobustCount	Robustness count	N/A	Unsigned integer. Value range: 1 to 255.	N/A
LastListenerQueryInterval	Last listener query interval	N/A	Unsigned integer. Value range: 1 to 25, in seconds.	N/A
MaxResponseTime	Maximum response time	N/A	Unsigned integer. Value range: 1 to 3174, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			seconds.	
OtherQuerierPresentInterval	Other querier present interval	N/A	Unsigned integer. Value range: 1 to 31744, in seconds.	N/A

MLD/SsmMappings

This table contains MLD SSM mapping information.

XML structure

```
<MLD>
  <SsmMappings>
    <SsmMapping>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <Policy></Policy>
    </SsmMapping>
  </SsmMappings>
</MLD>
```

Table description

Item	Description
Feature name	MLD
Table name	SsmMappings
Table type	Multi-instance table
Row name	SsmMapping
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range:2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A

Contents

MLD 2
MLD/Interfaces 2
MLD/Groups 3
MLD/SrcList 3
MLD/UserProfiles 3
MLD/Instances 3
MLD/SsmMappings 4

MLD

MLD/Interfaces

Message	Explanation
MLD is not configured. MLD尚未配置。	During executing set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	During executing set operation, MLD is not complete startup. 对该表进行配置时，MLD还未完全启动。
Can’t specify an inner VLAN ID if no outer VLAN ID is specified. 若需要配置内层VLAN，则必须先配置外层VLAN。	During executing set operation, you must specify an outer VLAN ID before you can specify an inner VLAN ID. 对该表进行配置时，若需要配置内层VLAN，则必须先配置外层VLAN。
VLAN tagging for multicast packets and per-session multicast forwarding are mutually exclusive on a subinterface. 对组播报文进行VLAN封装与按会话记录用户加入的组播组，这两种配置互斥，不允许在同一个子接口上配置。	During executing set operation, you cannot configure both VLAN tagging for multicast packets and per-session multicast forwarding on a subinterface. 对该表进行SET操作时，对组播报文进行VLAN封装与按会话记录用户加入的组播组，这两种配置互斥，不允许在同一个子接口上配置。
Static VLAN tagging and user-VLAN-based dynamic VLAN tagging for multicast packets are mutually exclusive on a subinterface. 对组播报文的静态VLAN封装与基于用户VLAN的动态VLAN封装，这两种配置互斥，不允许在同一个子接口上配置。	During executing set operation, you cannot configure both static VLAN tagging and user-VLAN-based dynamic VLAN tagging for multicast packets on a subinterface. 对该表进行SET操作时，对组播报文的静态VLAN封装与基于用户VLAN的动态VLAN封装，这两种配置互斥，不允许在同一个子接口上配置。
User-VLAN-based dynamic VLAN tagging for multicast cannot be configured or de-configured while users are online. 当有用户在线时，不能对基于用户VLAN的动态VLAN封装进行配置或者去配置。	During executing set operation, User-VLAN-based dynamic VLAN tagging for multicast cannot be configured or de-configured while users are online. 对该表进行SET操作时，当有用户在线时，不能对基于用户VLAN的动态VLAN封装进行配置或者去配置。
The column of MldVersion can’t exist alone without Acl. MLD Version属性列不能脱离Acl而单独存在。	The set operation is forbidden if only MldVersion is configured. 对该表进行配置时，将导致MLD Version单独存在的操作禁止下发。
The ACL is invalid. ACL输入不合法。	In a set operation, the ACLis invalid. 对该表进行配置时，ACL输入不合法。
The MldVersion and Acl columns must be both configured. MLD版本和ACL必须同时配置。	The MldVersion and Acl columns must be both configured. 对该表进行配置时，MLD版本和ACL必须同时配置。
The UserAggInnerVlan and UserAggOuterVlan columns must be both configured. 组播报文封装的内外层VLAN Tag必须同时配置。	The UserAggInnerVlan and UserAggOuterVlan columns must be both configured. 对该表进行配置时，组播报文封装的内外层VLAN Tag必须同时配置。
The JoinBySession column can only be configured as 3. 按会话记录用户加入的组播组只可配置为3。	The JoinBySession column can only be configured as 3. 对该表进行配置时，按会话记录用户加入的组播组只可配置为3。

MLD/Groups

Message	Explanation
MLD is not configured. MLD尚未配置。	During executing set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	During executing set operation, MLD is not complete startup. 对该表进行配置时，MLD还未完全启动。

MLD/SrcList

Message	Explanation
MLD is not configured. MLD尚未配置。	During executing set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	During executing set operation, MLD is not complete startup. 对该表进行配置时，MLD还未完全启动。

MLD/UserProfiles

Message	Explanation
MLD is not configured. MLD尚未配置。	During executing set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	During executing set operation, MLD does not completely start up. 对该表进行配置时，MLD还未完全启动。

MLD/Instances

Message	Explanation
MLD is not configured. MLD尚未配置。	During executing set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	During executing set operation, MLD is not complete startup. 对该表进行配置时，MLD还未完全启动。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the VPN instance does not exist. 对该表进行配置时，VPN实例不存在。

MLD/SsmMappings

Message	Explanation
MLD is not configured. MLD尚未配置。	In a set operation, MLD is not configured. 对该表进行配置时，MLD 还未配置。
MLD is not ready. MLD尚未就绪。	In a set operation, MLD is not completely started. 对该表进行配置时，MLD还未完全启动。
The VPN instance does not exist. VPN实例不存在。	In a set operation, the VPN instance does not exist. 对该表进行配置时，VPN实例不存在。
The ACL must be set with an index. ACL必须同索引一起下发。	In a set operation, The ACL must be set with an index. 对该表进行配置时，ACL必须同索引一起下发。
The ACL must be deleted with configuration objects. ACL必须同配置对象一起删除。	In a set operation, the ACL must be deleted with configuration objects. 对该表进行配置时，ACL必须同配置对象一起删除。
The ACL is invalid. ACL输入不合法。	In a set operation, the ACL is invalid. 对该表进行配置时，ACL输入不合法。
The specified MLD vpn-instance view does not exist. 指定的VPN实例的MLD视图不存在。	In a set operation, the specified MLD vpn-instance view does not existd. 对该表进行配置时，指定VPN实例的MLD视图不存在。

Contents

MLDSnooping 1
MLDSnooping/Configuration 1
XML structure 1
Table description 1
Columns 1
MLDSnooping/VLANs 1
XML structure 1
Table description 2
Columns 2
MLDSnooping/VSIs 3
XML structure 4
Table description 4
Columns 4
MLDSnooping/FastLeavePorts 5
XML structure 6
Table description 6
Columns 6
MLDSnooping/GroupLimitPorts 6
XML structure 6
Table description 7
Columns 7
MLDSnooping/StaticGroupPorts 8
XML structure 8
Table description 8
Columns 8

MLDSnooping

MLDSnooping/Configuration

This table contains global MLD snooping information.

XML structure

```
<MLDSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set MLD snooping state globally.	N/A	Enumeration: • **disable**(default) • **enable**

MLDSnooping/VLANs

This table contains the MLD snooping information for VLANs.

XML structure

```
<MLDSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
```

```
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <DoneSourceAddr></DoneSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
      <TriggeredQueryPortDown></TriggeredQueryPortDown>
      <TriggeredQueryPortUp></TriggeredQueryPortUp>
    </VLAN>
  </VLANs>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set MLD snooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: • **1**(default) • **2**	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Querier	Set MLD	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	snooping querier for specified VLAN.		• **disable**(default) • **enable**	
QueryInterval	Specify MLD snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to31744.	N/A
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD group-specific queries for specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QuerierElection	Enable MLD snooping querier election for the specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
TriggeredQueryPortDown	MLD snooping query triggered by port-down events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A
TriggeredQueryPortUp	IGMP snooping query triggered by port-up events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A

MLDSnooping/VSIs

This table contains the MLD snooping information for VSIs.

XML structure

```
<MLDSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <DoneSourceAddr></DoneSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
    </VSI>
  </VSIs>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable MLD snooping for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: • **1**(default) • **2**	N/A
DropUnknow	Enable MLD	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
n	snooping dropping unknown IPv6 multicast data for the specified VSI.		• **disable**(default) • **enable**	
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QueryInterval	Set the MLD snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD multicast-address-specific queries for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
QuerierElection	Enable MLD snooping querier election for the specified VSI.	N/A	Enumeration: • **disable**(default) • **enable**	N/A

MLDSnooping/FastLeavePorts

This table contains the MLD snooping fast leave information on ports.

XML structure

```
<MLDSnooping>
  <FastLeavePorts>
    <Interface>
      <IfIndex></IfIndex>
      <FastLeaveVlanList></FastLeaveVlanList>
    </Interface>
  </FastLeavePorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
FastLeaveVlanList	Set MLD snooping fast leave for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.

MLDSnooping/GroupLimitPorts

This table contains the MLD snooping group limit information on ports.

XML structure

```
<MLDSnooping>
```

```
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList></GroupLimitVlanList>
    </Interface>
  </GroupLimitPorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set MLD snooping group limit for VLANs on a port.	N/A	VLAN list.	You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Example: 1,2,3,5-8,10-20.

MLDSnooping/StaticGroupPorts

This table contains the MLD snooping group information of ports based on service-instance.

XML structure

```
<MLDSnooping>
  <StaticGroupPorts>
    <StaticGroupPort>
      <IfIndex></IfIndex>
      <VSIStaticGroups>
        <VSIStaticGroup>
          <SrvID></SrvID>
          <GroupAddr></GroupAddr>
          <SourceAddr></SourceAddr>
        </VSIStaticGroup>
      </VSIStaticGroups>
    </StaticGroupPort>
  </StaticGroupPorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	StaticGroupPorts
Table type	Multi-instance table
Row name	StaticGroupPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4096.	
GroupAddr	Specify an IPV6 multicast group address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SourceAddr	Specify an IPV6 multicast source address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

Contents

MLDSnooping 1

MLDSnooping/Configuration 1
XML structure 1
Table description 1
Columns 1
MLDSnooping/VLANs 1
XML structure 1
Table description 2
Columns 2
MLDSnooping/VSIs 3
XML structure 3
Table description 4
Columns 4
MLDSnooping/FastLeavePorts 5
XML structure 5
Table description 6
Columns 6
MLDSnooping/GroupLimitPorts 6
XML structure 6
Table description 7
Columns 7
MLDSnooping/IPv6Layer2MulticastGroups 7
XML structure 8
Table description 8
Columns 8
MLDSnooping/VsiIPv6Layer2MulticastGroups 9
XML structure 9
Table description 10
Columns 10
MLDSnooping/StaticGroupPorts 11
XML structure 11
Table description 11
Columns 12

MLDSnooping

MLDSnooping/Configuration

This table contains global MLD snooping information.

XML structure

```
<MLDSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set MLD snooping state globally.	N/A	Enumeration: • **enable** • **disable**

MLDSnooping/VLANs

This table contains the MLD snooping information for VLANs.

XML structure

```
<MLDSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
```

```
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <DoneSourceAddr></DoneSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
      <TriggeredQueryPortDown></TriggeredQueryPortDown>
      <TriggeredQueryPortUp></TriggeredQueryPortUp>
    </VLAN>
  </VLANs>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set MLD snooping state for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: • **1** • **2**	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A
Querier	Set MLD snooping querier for specified VLAN.	N/A	Enumeration: • **enable** • **disable**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueryInterval	Specify MLD snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD group-specific queries for specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VLAN.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VLAN.	N/A	Enumeration: • **disable** • **enable**	N/A
QuerierElection	Enable MLD snooping querier election for the specified VLAN.	N/A	Enumeration: • **disable** • **enable**	N/A
TriggeredQueryPortDown	IGMP snooping query triggered by port-down events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A
TriggeredQueryPortUp	IGMP snooping query triggered by port-up events in a VLAN.	N/A	Enumeration: • **disable**—Disabled (default). • **enable**—Enabled.	N/A

MLDSnooping/VSIs

This table contains the MLD snooping information for VSIs.

XML structure

```
<MLDSnooping>
```

```
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
      <ReportSourceAddr></ReportSourceAddr>
      <DoneSourceAddr></DoneSourceAddr>
      <Proxy></Proxy>
      <QuerierElection></QuerierElection>
    </VSI>
  </VSIs>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable MLD snooping for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: • **1** • **2**	N/A
DropUnknown	Enable MLD snooping dropping unknown IPv6 multicast data for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
QueryInterval	Set the MLD snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD multicast-address-specific queries for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VSI.	N/A	Hexadecimal string, colon-separated.	Example: FE80:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A
QuerierElection	Enable MLD snooping querier election for the specified VSI.	N/A	Enumeration: • **disable** • **enable**	N/A

MLDSnooping/FastLeavePorts

This table contains the MLD snooping fast leave information on ports.

XML structure

```
<MLDSnooping>
  <FastLeavePorts>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <FastLeaveVlanList></FastLeaveVlanList>
      <IfName></IfName>
    </Interface>
  </FastLeavePorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
FastLeaveVlanList	Set MLD snooping fast leave for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

MLDSnooping/GroupLimitPorts

This table contains the MLD snooping group limit information on ports.

XML structure

```
<MLDSnooping>
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
```

```
      <GroupLimitVlanList></GroupLimitVlanList>
      <IfName></IfName>
    </Interface>
  </GroupLimitPorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set MLD snooping group limit for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

MLDSnooping/IPv6Layer2MulticastGroups

This table contains information about Layer 2 IPv6 multicast groups for VLANs.

XML structure

```
<MLDSnooping>
  <IPv6Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <PortAttribute></PortAttribute>
      <IfName></IfName>
    </VLAN>
  </IPv6Layer2MulticastGroups>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	IPv6Layer2MulticastGroups
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
GroupIpAddr	IPv6 multicast address.	Index	Hexadecimal string, colon-separated.	N/A
SourceIpAddr	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
IfIndex	Interface IfIndex.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
PortAttribute	Port attribute.	N/A	Each bit represents a port attribute. Values: • 1—Learned from MLD packets.	Examples: • 129—means a port learned from MLD packets and processed successfully. • 136—means a port

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Learned from MLD packets with Exclude filter mode. • 4—Configured statically. • 8—Learned from IPv6 PIM packets. • 16—Obtained from the kernel. • 32—Learned from (*, *) entries. • 64—Learned from (*, G) entries. • 128—Processed successfully. • 256—Failed to being processed. • 512—TRILL port that floods IPv6 multicast data after the topology changes in VLAN.	learned from IPv6 PIM packets and processed successfully.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

MLDSnooping/VsiIPv6Layer2MulticastGroups

This table contains information about Layer 2 IPv6 multicast groups for VSIs.

XML structure

```
<MLDSnooping>
  <VsiIPv6Layer2MulticastGroups>
    <VSI>
      <VsiName></VsiName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <LinkID></LinkID>
      <PortAttribute></PortAttribute>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
    </VSI>
  </VsiIPv6Layer2MulticastGroups>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VsiIPv6Layer2MulticastGroups
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name.	Index	String. Length: 1 to 31 characters.	N/A
GroupAddr	IPv6 multicast address.	Index	Hexadecimal string, colon-separated.	N/A
SourceAddr	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
LinkID	Link ID.	Index	Unsigned integer.	N/A
PortAttribute	Port attribute.	N/A	Each bit represents a port attribute. Values: • 1—Learned from MLD packets. • 2—Learned from MLD packets with Exclude filter mode. • 8—Learned from IPv6 PIM packets. • 16—Obtained from the kernel. • 32—Learned from (*, *) entries. • 64—Learned from (*, G) entries. • 128—Processed successfully. • 256—Failed to being processed. • 512—TRILL port that floods IPv6 multicast data after the topology changes in VLAN. • 1024—Learned from EVPN BGP route. • 2048—Port in Exclude filter-mode and learned from EVPN BGP route.	Examples: • 129—means a port learned from MLD packets and processed successfully. • 1152—means a port learned from EVPN BGP route and processed successfully.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Ethernet service instance ID.	N/A	Unsigned integer. Value range: 0 to 4096.	The value is 0 if the interface is not a Layer 2 Ethernet interface.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

MLDSnooping/StaticGroupPorts

This table contains the MLD snooping group information of ports based on service-instance.

XML structure

```
<MLDSnooping>
  <StaticGroupPorts>
    <StaticGroupPort>
      <IfIndex></IfIndex>
      <VSIStaticGroups>
        <VSIStaticGroup>
          <SrvID></SrvID>
          <GroupAddr></GroupAddr>
          <SourceAddr></SourceAddr>
        </VSIStaticGroup>
      </VSIStaticGroups>
    </StaticGroupPort>
  </StaticGroupPorts>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	StaticGroupPorts
Table type	Multi-instance table
Row name	StaticGroupPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
GroupAddr	Specify an IPV6 multicast group address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SourceAddr	Specify an IPV6 multicast source address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

Contents

MLDSnooping 2
MLDSnooping/Configuration 2
MLDSnooping/VLANs 2
MLDSnooping/VSIs 3
MLDSnooping/FastLeavePorts 3
MLDSnooping/GroupLimitPorts 4
MLDSnooping/Ipv6Layer2MulticastGroups 4
MLDSnooping/ VSIIPv6Layer2MulticastGroups 4

MLDSnooping

MLDSnooping/Configuration

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
MLD snooping is disabling globally. 全局MLD snooping正在去使能。	During executing set operation to enable global MLD snooping, MLD snooping is disabling globally. 使能全局MLD snooping时，全局MLD snooping正在去使能。

MLDSnooping/VLANs

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
MLD snooping drop-unknown is enabled globally. 全局MLD snooping已配置drop-unknown。	During executing set operation to enable drop-unkown for this VLAN, MLD snooping drop-unknown is enabled globally. 使能VLAN内drop-unknown时，全局drop-unkown已经使能。
MLD snooping is disabled on the VLAN. VLAN未使能MLD snooping。	During executing set operation for this VLAN, MLD snooping is disabled on the VLAN. 对该VLAN进行设置时，VLAN未使能MLD snooping。
MLD snooping is disabled globally. 全局MLD snooping未使能。	During executing set operation for this VLAN, MLD snooping is disabled globally. 对该VLAN进行设置时，全局MLD snooping未使能。
Invalid source address of general queries. 通用查询报文源IP地址错误。	During executing set operation for GeneralQuerySourceAddr of this VLAN, the value of GeneralQuerySourceAddr is invalid. 对该VLAN内GeneralQuerySourceAddr进行设置时，GeneralQuerySourceAddr值错误。
Invalid source address of group-specific queries. 特定组查询报文源IP地址错误。	During executing set operation for SpecialQuerySourceAddr of this VLAN, the value of SpecialQuerySourceAddr is invalid. 对该VLAN内SpecialQuerySourceAddr进行设置时，SpecialQuerySourceAddr值错误。
Invalid source address of reports. Report报文源IP地址错误。	During executing set operation for ReportSourceAddr of this VLAN, the value of ReportSourceAddr is invalid. 对该VLAN内ReportSourceAddr进行设置时，ReportSourceAddr值错误。
Invalid source address of done messages. Done报文源IP地址错误。	During executing set operation for DoneSourceAddr of this VLAN, the value of DoneSourceAddr is invalid. 对该VLAN内DoneSourceAddr进行设置时，DoneSourceAddr值错误。

MLDSnooping/VSIs

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
MLD snooping drop-unknown is enabled globally. 全局MLD snooping已配置drop-unknown。	During executing set operation to enable drop-unkown for this VSI, MLD snooping drop-unknown is enabled globally. 使能VSI内drop-unknown时，全局drop-unkown已经使能。
MLD snooping is disabled on the VSI. VSI未使能MLD snooping。	During executing set operation for this VSI, MLD snooping is disabled on the VSI. 对该VSI进行设置时，VSI未使能MLD snooping。
MLD snooping is disabled globally. 全局MLD snooping未使能。	During executing set operation for this VSI, MLD snooping is disabled globally. 对该VSI进行设置时，全局MLD snooping未使能。
Invalid source address of general queries. 通用查询报文源IP地址错误。	During executing set operation for GeneralQuerySourceAddr of this VSI, the value of GeneralQuerySourceAddr is invalid. 对该VSI内GeneralQuerySourceAddr进行设置时，GeneralQuerySourceAddr值错误。
Invalid source address of group-specific queries. 特定组查询报文源IP地址错误。	During executing set operation for SpecialQuerySourceAddr of this VSI, the value of SpecialQuerySourceAddr is invalid. 对该VSI内SpecialQuerySourceAddr进行设置时，SpecialQuerySourceAddr值错误。
Invalid source address of reports. Report报文源IP地址错误。	During executing set operation for ReportSourceAddr of this VSI, the value of ReportSourceAddr is invalid. 对该VSI内ReportSourceAddr进行设置时，ReportSourceAddr值错误。
Invalid source address of done messages. Done报文源IP地址错误。	During executing set operation for DoneSourceAddr of this VSI, the value of DoneSourceAddr is invalid. 对该VSI内DoneSourceAddr进行设置时，DoneSourceAddr值错误。

MLDSnooping/FastLeavePorts

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation,daemon receives invalid message type. Get或者set操作时，守护进程收到了错误的消息类型。
MLD snooping is disabled globally. 全局MLD snooping未使能。	During executing set operation, MLD snooping is disabled globally. 对该表进行配置时，全局 MLD snooping 未使能。

MLDSnooping/GroupLimitPorts

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。
MLD snooping is disabled globally. 全局MLD snooping未使能。	During executing set operation, MLD snooping is disabled globally. 对该表进行配置时，全局 MLD snooping 未使能。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	GroupLimitVLANList can’t be removed alone, and should be removed together with Limit. GroupLimitVLANList不能单独删除，需要和Limit一起删除。

MLDSnooping/Ipv6Layer2MulticastGroups

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。

MLDSnooping/ VSIIPv6Layer2MulticastGroups

Message	Explanation
Invalid message type. 配置消息错误。	During executing get or set operation, daemon receives invalid message type. Get 或者 set 操作时，守护进程收到了错误的消息类型。

Contents

MODEM 1
MODEM/ModemEnable 1
XML structure 1
Table description 1
Columns 1

MODEM

MODEM/ModemEnable

This table contains information about modem call direction.

XML structure

```
<MODEM>
  <ModemEnable>
    <Enable>
      <IfIndex></IfIndex>
      <CallType></CallType>
    </Enable>
  </ModemEnable>
</MODEM>
```

Table description

Item	Description
Feature name	MODEM
Table name	ModemEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This table supports interface types: Asynchronous serial port; Synchronous serial port in asynchronous way; AM interface/TTY subscriber line view; AUX interface/AUX subscribe line view. Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in *Ifmgr NETCONF XML API Configuration Reference*.
CallType	Modem call direction	N/A	Enumeration: • 0—none(default). • 1—call-in. • 2—call-out • 3—both.	N/A

Contents

MODEM 1
MODEM/ModemEnable 1
XML structure 1
Table description 1
Columns 1

MODEM

MODEM/ModemEnable

This table contains information about modem call direction.

XML structure

```
<MODEM>
  <ModemEnable>
    <Enable>
      <IfIndex></IfIndex>
      <CallType></CallType>
    </Enable>
  </ModemEnable>
</MODEM>
```

Table description

Item	Description
Feature name	MODEM
Table name	ModemEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This table supports interface types: Asynchronous serial port; Synchronous serial port in asynchronous way; AM interface/TTY subscriber line view; AUX interface/AUX subscribe line view. Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in *Ifmgr NETCONF XML API Configuration Reference*.
CallType	Modem call direction	N/A	Enumeration: • 0—none. • 1—call-in. • 2—call-out • 3—both.	N/A

Contents

ModuleProxy 1
ModuleProxy/Global 1
XML structure 1
Table description 1
Columns 1
ModuleProxy/Job 1
XML structure 1
Table description 2
Columns 2
ModuleProxy/Schedule 2
XML structure 2
Table description 3
Columns 3
ModuleProxy/DeleteJob 3
XML structure 3
Table description 4
Columns 4
ModuleProxy/DeleteSchedule 4
XML structure 4
Table description 4
Columns 5
ModuleProxy/WolMacs 5
XML structure 5
Table description 5
Columns 5

ModuleProxy

ModuleProxy/Global

This table contains information of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
  </Global>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: • 0—default • 1—brige • 2—route	N/A

ModuleProxy/Job

This table contains job information.

XML structure

```
<ModuleProxy>
```

```
  <Job>
    <Name></Name>
    <Command>
      <Id></Id>
      <CommandString><CommandString>
    <Command>
  </Job>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Job
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
Command	String of execute based on time.	Data structure	Contains Id and CommandString	N/A
Id	Command Id.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
CommandString	Command String.	N/A	String, case-insensitive. Length: 1 to 512 characters.	N/A

ModuleProxy/Schedule

This table contains Schedule information.

XML structure

```
<ModuleProxy>
  <Schedule>
```

```
    <Name></Name>
    <JobName></JobName>
    <TimeString><TimeString>
  </Schedule>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Schedule
Table type	Single-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Schedule name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
JobName	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
TimeString	Time String.	N/A	String, case-insensitive. Length: 1 to 512 characters.	N/A

ModuleProxy/DeleteJob

This table delete job information.

XML structure

```
<ModuleProxy>
  <DeleteJob>
    <Name></Name>
  </DeleteJob>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	DeleteJob
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

ModuleProxy/DeleteSchedule

This table delete Schedule information.

XML structure

```
<ModuleProxy>
  <DeleteSchedule>
    <Name></Name>
  </DeleteSchedule>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	DeleteSchedule
Table type	Single-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Schedule name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

ModuleProxy/WolMacs

This table contains information.of WOL MAC address.

XML structure

```
<ModuleProxy>
  <WolMacs>
    <WolMac>
      <MacAddress></MacAddress>
    </WolMac>
  </WolMacs>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	WolMacs
Table type	Single-instance table
Row name	WolMac
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0..	N/A

Contents

ModuleProxy 1
ModuleProxy/Global 1
XML structure 1
Table description 1
Columns 1
ModuleProxy/ContainerPort 2
XML structure 2
Table description 2
Columns 3

ModuleProxy

ModuleProxy/Global

This table contains the informations of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
    <Sample></Sample>
    <EnergySaving></EnergySaving>
  </Global>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: • 0—default • 1—brige • 2—route	N/A
Sample	Sampling at regular time.	N/A	Boolean: • true—Support. • false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnergySaving	Green energy saving.	N/A	Boolean: • true—Support. • false—Not support.	N/A

ModuleProxy/ContainerPort

This table contains container information.

XML structure

```
<ModuleProxy>
  <ContainerPort>
    <Container>
      <Name></Name>
      <PoeIndex></PoeIndex>
      <PoePortInfo></PoePortInfo>
    </Container>
  </ContainerPort>
<ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	ContainerPort
Table type	Multi-instance table
Row name	Container
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Container name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
PoeIndex	Port of the container.	N/A	Port of the container.	N/A
PoePortInfo	PoE information.	N/A	String. Length: 1 to 255 characters.	N/A

Contents

ModuleProxy 1
ModuleProxy/Global 1
XML structure 1
Table description 1
Columns 1
ModuleProxy/HistoryStatistics/Interfaces 2
XML structure 2
Table description 2
Columns 3
ModuleProxy/HistoryStatistics/AP 3
XML structure 3
Table description 4
Columns 4
ModuleProxy/APStatistics 5
XML structure 5
Table description 5
Columns 5
ModuleProxy/ContainerPort 6
XML structure 6
Table description 6
Columns 7

ModuleProxy

ModuleProxy/Global

This table contains the informations of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
    <Sample></Sample>
    <EnergySaving></EnergySaving>
  </Global>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: • 0—default • 1—brige • 2—route	N/A
Sample	Sampling at regular time.	N/A	Boolean: • true—Support. • false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnergySaving	Green energy saving.	N/A	Boolean: • true—Support. • false—Not support.	N/A

ModuleProxy/HistoryStatistics/Interfaces

This table contains interfaces information of history statistics.

XML structure

```
<ModuleProxy>
  <HistoryStatistics>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <Name></Name>
        <InPkts></InPkts>
        <OutPkts></OutPkts>
        <InOctets></InOctets>
        <OutOctets></OutOctets>
        <RecordTime></RecordTime>
      </Interface>
    </Interfaces>
  </HistoryStatistics>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	HistoryStatistics
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	The Index of interface.	Index	Unsigned Integer. Value range: 0 to 65535.	N/A
Name	The name of interface.	N/A	String, lowercase. Length: 2 to 47 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Enter the bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
RecordTime	The date of the record flow.	N/A	Format: YYYY-MM-DD. Value range:1970-01-01 to 2100-12-31.	N/A

ModuleProxy/HistoryStatistics/AP

This table contains AP information of history statistics.

XML structure

```
<ModuleProxy>
  <HistoryStatistics>
    <APs>
      <AP>
        <Name></Name>
        <InPkts></InPkts>
        <OutPkts></OutPkts>
        <InOctets></InOctets>
        <OutOctets></OutOctets>
        <RecordTime></RecordTime>
```

```
      </AP>
    </APs>
  </HistoryStatistics>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	HistoryStatistics
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
InOctets	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
RecordTime	The date of the record flow.	N/A	Format: YYYY-MM-DD. Value range:1970-01-01 to 2100-12-31.	N/A

ModuleProxy/APStatistics

This table contains statistics information of AP.

XML structure

```
<ModuleProxy>
  <APStatistics>
    <AP>
      <Name></Name>
      <InPkts></InPkts>
      <OutPkts></OutPkts>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
    </AP>
  </APStatistics>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	APStatistics
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InOctets	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A

ModuleProxy/ContainerPort

This table contains container information.

XML structure

```
<ModuleProxy>
  <ContainerPort>
    <Container>
      <Name></Name>
      <PoeIndex></PoeIndex>
      <PoePortInfo></PoePortInfo>
    </Container>
  </ContainerPort>
<ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	ContainerPort
Table type	Multi-instance table
Row name	Container
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Container name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase characters, it will be converted to lowercase automatically.
PoeIndex	Port of the container.	N/A	Unsigned short.	N/A
PoePortInfo	PoE information.	N/A	String. Length: 1 to 255 characters.	N/A

Contents

LSPPing 1
LSPPing/DisablePing 1
XML structure 1
Table description 1
Columns 1

LSPPing

LSPPing/DisablePing

Use this table to stop LSP ping operations.

XML structure

```
<LSPPing>
  <DisableLSPPings>
    <DisableLSPPing>
      <TestName></TestName>
    </DisableLSPPing>
  </DisableLSPPings>
</LSPPing>
```

Table description

Item	Description
Feature name	LSPPing
Table name	DisableLSPPings
Table type	Multi-instance table
Row name	DisableLSPPing
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TestName	LSP Ping test name.	Index	String. Length: 1 to 31 characters.

Contents

LSPPing 1
IPv4Ping event 1
XML structure for event subscription 1
XML structure for event report 3
TEv4Ping event 7
XML structure for event subscription 7
XML structure for event report 9
OutLabelsPing event 12
XML structure for event subscription 12
XML structure for event report 15
PWv4Ping event 18
XML structure for event subscription 18
XML structure for event report 20
SRPolicyv4Ping event 23
XML structure for event subscription 23
XML structure for event report 26

LSPPing

IPv4Ping event

This table is used to report ping information for an IPv4 LSP ping operation.

XML structure for event subscription

```
<IPv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <PacketsCount></PacketsCount>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <FecType></FecType>
    <FecIPAddr></FecIPAddr>
    <FecIPAddrMaskLen></FecIPAddrMaskLen>
    <LoopDestAddrStart></LoopDestAddrStart>
    <LoopDestAddrEnd></LoopDestAddrEnd>
    <LoopDestAddrIncr></LoopDestAddrIncr>
  </PingInfo>
</IPv4PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
    <filter type="subtree">
      <IPv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
        <PingInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <PacketsCount></PacketsCount>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <WaitTime></WaitTime>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
```

```
        <PacketSize></PacketSize>
        <TimerOut></TimerOut>
        <Verbose></Verbose>
        <FecType></FecType>
        <FecIPAddr></FecIPAddr>
        <FecIPAddrMaskLen></FecIPAddrMaskLen>
        <LoopDestAddrStart></LoopDestAddrStart>
        <LoopDestAddrEnd></LoopDestAddrEnd>
        <LoopDestAddrIncr></LoopDestAddrIncr>
      </PingInfo>
    </IPv4PingEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVPING
Event name	IPv4PingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 1—Do not reply. • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		• 4—Reply via a VCCV control channel.	
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed information	No
FecType	LSP FEC type.	Enumeration: • 1—LDP IPv4 LSP. • 2—Generic IPv4 LSP. • 3—ISIS IPv4 LSP • 4—OSPF IPv4 LSP • 5—BGP IPv4 LSP	No
FecIPAddr	LSP FEC IPv4 address.	IPv4: String, dotted decimal notation.	No
FecIPAddrMaskLen	LSP FEC IPv4 address mask length.	Unsigned integer. Value range: 0 to 32.	No
LoopDestAddrStart	Destination address of IP header in echo request of first test packet.	IPv4: String, dotted decimal notation.	No
LoopDestAddrEnd	Destination address of IP header in echo request of last test packet.	IPv4: String, dotted decimal notation.	No
LoopDestAddrIncr	Incremental value of destination address.	Unsigned integer. Value range: 1 to 16777215.	No

XML structure for event report

```
<IPv4PingEvent>
  <PingInfo>
    <TestName ></TestName >
    <LoopDestAddr></LoopDestAddr>
    <PacketSize></PacketSize>
```

```
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
  </PingInfo>
</IPv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName ></TestName >
    <LoopDestAddr></LoopDestAddr>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
LoopDestAddr	Destination address of IP header in echo request.	IPv4: String, dotted decimal notation.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0—The packet test succeeded. • other—The packet test failed.	No

```
<IPv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <FecIPAddr></FecIPAddr>
    <FecIPAddrMaskLen></FecIPAddrMaskLen>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</IPv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <FecIPAddr></FecIPAddr>
    <FecIPAddrMaskLen></FecIPAddrMaskLen>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </IPv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
FecIPAddr	LSP FEC type.	IPv4: String, dotted decimal notation.	No
FecIPAddrMaskLen	LSP FEC IPv4 address.	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

TEv4Ping event

This table is used to report ping information for an IPv4 TE tunnel ping operation.

XML structure for event subscription

```
<TEv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <PacketsCount></PacketsCount>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <TunnelName></TunnelName>
    <TunnelNum></TunnelNum>
    <HotStandby></HotStandby>
  </PingInfo>
</TEv4PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
    <filter type="subtree">
      <TEv44PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
        <PingInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <PacketsCount></PacketsCount>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <WaitTime></WaitTime>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <PacketSize></PacketSize>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <TunnelName></TunnelName>
          <TunnelNum></TunnelNum>
          <HotStandby></HotStandby>
        </PingInfo>
```

```
    </TEv4PingEvent>
   </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVPing
Event name	TEv4PingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 1—Do not reply. • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert. • 4—Reply via a VCCV control channel.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed information	No
TunnelName	Tunnel name.	String. Length: 1 to 47 characters.	No
TunnelNum	Tunnel number	String. Length: 1 to 27 characters.	No
HotStandby	Hot Standby	Boolean: • **true**—Hot standby LSP TE tunnel • **false—**Main LSP of TE tunnel	No

XML structure for event report

```
<TEv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
  </PingInfo>
</TEv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TEv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </TEv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<TEv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <TunnelName></TunnelName>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</TEv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TEv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
```

```
    <PingInfo>
    <TestName></TestName>
    <TunnelName></TunnelName>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </TEv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
TunnelName	Tunnel name.	String. Length: 1 to 33 characters.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

OutLabelsPing event

This table is used to report ping information for an out labels ping operation.

XML structure for event subscription

```
<OutLabelsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <PacketsCount></PacketsCount>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <OutLabelLists>
      <OutLabelList>
        <OutLabel></OutLabel>
      </OutLabelList>
    </OutLabelLists>
    <NextHop></NextHop>
    <OutInterface></OutInterface>
    <OutInterfaceType></OutInterfaceType>
    <OutInterfaceNum></OutInterfaceNum>
  </PingInfo>
</OutLabelsPingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
```

```
<create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <stream>LSPVPing</stream>
  <filter type="subtree">
    <OutLabelsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
      <PingInfo>
        <TestName></TestName>
        <SourceAddr></SourceAddr>
        <PacketsCount></PacketsCount>
        <ExpValue></ExpValue>
        <TTLValue></TTLValue>
        <WaitTime></WaitTime>
        <ReplyMode></ReplyMode>
        <TosValue></TosValue>
        <PacketSize></PacketSize>
        <TimerOut></TimerOut>
        <Verbose></Verbose>
        <OutLabelLists>
          <OutLabelList>
            <OutLabel></OutLabel>
          </OutLabelList>
        </OutLabelLists>
        <NextHop></NextHop>
        <OutInterface></OutInterface>
        <OutInterfaceType></OutInterfaceType>
        <OutInterfaceNum></OutInterfaceNum>
      </PingInfo>
    </OutLabelsPingEvent>
  </filter>
</create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVPing
Event name	OutlabelsPingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 1—Do not reply. • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert. • 4—Reply via a VCCV control channel.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed information	No
OutLabel	Out label.	Unsigned integer. Value range: 0, 3, 16 to 1048575	No
NextHop	Next hop	IPv4: String, dotted decimal notation.	No
OutInterface	Out interface name	String. Length: 1 to 47 characters.	No
OutInterfaceType	Out interface Type	String. Length: 1 to 20 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
OutInterfaceNum	Out interface number	String. Length: 1 to 27 characters.	No

XML structure for event report

```
<OutLabelsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
  </PingInfo>
</OutLabelsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <OutLabelsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </OutLabelsPingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<OutLabelsPingEvent>
  <PingInfo>
    <TestName></TestName>
    <OutLabelLists>
      <OutLabelList>
        <OutLabel></OutLabel>
      </OutLabelList>
    </OutLabelLists>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</OutLabelsPingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <OutLabelsPingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <OutLabelLists>
```

```
      <OutLabelList>
        <OutLabel></OutLabel>
      </OutLabelList>
    </OutLabelLists>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </OutLabelsPingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
OutLabel	Out label.	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

PWv4Ping event

This table is used to report ping information for an IPv4 PW ping operation.

XML structure for event subscription

```
<PWv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <PacketsCount></PacketsCount>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <PWPeerIPAddr></PWPeerIPAddr>
    <PWID></PWID>
    <RemotePeerIPAddr></RemotePeerIPAddr>
    <RemotePWID></RemotePWID>
  </PingInfo>
</PWv4PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
    <filter type="subtree">
      <PWv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
```

```
        <PingInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <PacketsCount></PacketsCount>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <WaitTime></WaitTime>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <PacketSize></PacketSize>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <PWPeerIPAddr></PWPeerIPAddr>
          <PWID></PWID>
        </PingInfo>
      </PWv4PingEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVPing
Event name	PWv4PingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReplyMode	Reply mode.	Enumeration: • 1—Do not reply. • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert. • 4—Reply via a VCCV control channel.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed information	No
PWPeerIPAddr	IP address of the peer PE	IPv4: String, dotted decimal notation.	No
PWID	PW ID of the peer PE	Unsigned integer. Value range: 1 to 4294967295.	No
RemotePeerIPAddr	IP address of the egress node of the multisegment PW	IPv4: String, dotted decimal notation.	No
RemotePWID	ID of the last segment PW	Unsigned integer. Value range: 1 to 4294967295.	No

XML structure for event report

```
<PWv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
  </PingInfo>
```

```
</PWv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PWv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </PWv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<PWv4PingEvent>
  <PingInfo>
    <TestName></TestName>
```

```
    <PWPeerIPAddr></PWPeerIPAddr>
    <PWID></PWID>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</PWv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PWv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
    <TestName></TestName>
    <PWPeerIPAddr></PWPeerIPAddr>
    <PWID></PWID>
    <TestResult></TestResult>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </PWv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
PWPeerIPAddr	IP address of the peer PE	IPv4: String, dotted decimal notation.	No
PWID	PW ID of the peer PE	Unsigned integer. Value range: 0 to 4294967295.	No

Column name	Column description	Data type and restrictions	Support for extended queries
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

SRPolicyv4Ping event

This table is used to report ping information for an IPv4 SR policy ping operation.

XML structure for event subscription

```
<SRPolicyv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <PacketsCount></PacketsCount>
    <ExpValue></ExpValue>
```

```
    <TTLValue></TTLValue>
    <WaitTime></WaitTime>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <PacketSize></PacketSize>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <SRPolicyName></SRPolicyName>
    <EndPointAddr></EndPointAddr>
    <Color></Color>
    <BindingSID></BindingSID>
  </PingInfo>
</SRPolicyv4PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVPing</stream>
    <filter type="subtree">
      <SRPolicyv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
        <PingInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <PacketsCount></PacketsCount>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <WaitTime></WaitTime>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <PacketSize></PacketSize>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <SRPolicyName></SRPolicyName>
          <EndPointAddr></EndPointAddr>
          <Color></Color>
          <BindingSID></BindingSID>
        </PingInfo>
      </SRPolicyv4PingEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVPing
Event name	SRPolicyv4PingEvent

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
PacketsCount	Number of echo requests.	Unsigned integer. Value range: 1 to 4294967295.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
WaitTime	The interval time to send a LSP Ping echo request.	Unsigned integer. Value range: 1 to 10000 milliseconds.	No
ReplyMode	Reply mode.	Enumeration: • 1—Do not reply. • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert. • 4—Reply via a VCCV control channel.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
PacketSize	Payload length.	Unsigned integer. Value range: 65 to 8100 bytes.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—Reply packet has detailed information • **false—**Reply packet has no detailed information	No
SRPolicyName	SR-TE policy name.	String. Length: 1 to 59 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
EndPointAddr	SR-TE policy endpoint IPv4 address.	IPv4: String, dotted decimal notation.	No
Color	SR-TE policy color attribute.	Unsigned integer. Value range: 0 to 4294967295.	No
BindingSID	SR-TE policy binding SID.	Unsigned integer. Value range: 16 to 1048575.	No

XML structure for event report

```
<SRPolicyv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <PacketSize></PacketSize>
    <ReplierIPAddr></ReplierIPAddr>
    <IcmpSequence></IcmpSequence>
    <ReplyTime></ReplyTime>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
  </PingInfo>
</SRPolicyv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SRPolicyv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <PacketSize></PacketSize>
      <ReplierIPAddr></ReplierIPAddr>
      <IcmpSequence></IcmpSequence>
      <ReplyTime></ReplyTime>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
    </PingInfo>
  </SRPolicyv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
PacketSize	Number of bytes in a received response packet.	Unsigned integer. Value range: 65 to 8100 bytes.	No
ReplierIPAddr	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
EchoErrorReason	Error reason per packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

```
<SRPolicyv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SeglistID></SeglistID>
    <Preference></Preference>
    <PathType></PathType>
    <ProtocolOrign></ProtocolOrign>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <RepeatPacket></RepeatPacket>
    <TimeoutPacket></TimeoutPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
  </PingInfo>
</SRPolicyv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SRPolicyv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <SeglistID></SeglistID>
      <Preference></Preference>
      <PathType></PathType>
      <ProtocolOrign></ProtocolOrign>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <RepeatPacket></RepeatPacket>
      <TimeoutPacket></TimeoutPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
    </PingInfo>
  </SRPolicyv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SeglistID	SID list ID.	Unsigned integer.	No
Preference	Path priority.	Unsigned integer.	No
PathType	Path type	Enumeration: • 1—Main. • 2—Backup.	No
ProtocolOrign	Protocol origin	Enumeration: • 1—**PCEP**. • 2—**BGP**. • 3—**Local** • 4—**Unknown**.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No

Column name	Column description	Data type and restrictions	Support for extended queries
RepeatPacket	Number of repeat ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

```
<SRPolicyv4PingEvent>
  <PingInfo>
    <TestName></TestName>
    <SRPolicyName></SRPolicyName>
    <TestResult></TestResult>
  </PingInfo>
</SRPolicyv4PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SRPolicyv4PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvping:1.0">
    <PingInfo>
      <TestName></TestName>
      <SRPolicyName></SRPolicyName>
      <TestResult></TestResult>
    </PingInfo>
  </SRPolicyv4PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Ping test name.	String. Length: 1 to 64 characters.	No
SRPolicyName	SR policy name	String. Length: 1 to 59 characters.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Error Stop. • **1**—User Stop.	No
SummaryErrorReason	Error reason of Summary packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

Contents

LSPV 2
LspvEvent 2

LSPV

LspvEvent

Message	Explanation
The specified test name already exists. 指定的检测对象已存在。	The test name must be unique. 对象名称必须唯一。
The specified test name doesn't exist. 指定的检测对象不存在。	Please enter the correct test name. 请输入正确的对象名称。
The destination address must be in subnet 127.0.0.0/8. 指定的目的地址必须是127.0.0.0网段的地址。	Please use an address in 127.0.0.0 network segment. 请使用 127.0.0.0 网段的地址
End address must be higher than start address. 结束地址必须大于起始地址。	The start address cannot be higher than the end address. 起始地址不能大于结束地址。
The specified tunnel interface doesn't exist. 指定的Tunnel接口不存在。	Please enter the correct tunnel interface. 请输入正确的Tunnel接口。
The tunnel must be an MPLS TE tunnel. 必须是MPLS TE隧道。	You must specify an MPLS TE tunnel. 此处隧道必须是MPLS TE隧道。
The specified out label is invalid. 指定的出标签值无效。	Please enter a valid out label value. 请输入有效的出标签值。
The null label must be the outermost (top) label in the stack. 空标签必须在标签栈最外层。	The implicit null label 3 and explicit null label 0 must be configured on the outermost layer. 隐式空标签3和显示空标签0必须配置在最外层。
The specified nexthop address is invalid. 指定的下一跳地址值无效。	Please enter a valid nexthop address. 请输入一个有效的下一跳地址。
The specified out interface is invalid. 指定的出接口无效。	Please enter a valid out interface. 请输入一个有效的出接口。
The outgoing interface is a P2P interface, which cannot be specified with a next hop address. 出接口是P2P类型接口，不能指定下一跳地址。	When the outgoing interface is P2P, the next hop address cannot be entered. 当出接口是P2P时，不能输入下一跳地址。
The outgoing interface must be specified with the next hop address. 请同时指定出接口和下一跳地址。	Specifying an interface must also specify the next hop address. 指定出接口必须同时指定下一跳地址。

The specified IPv4 LSP doesn't exist. 指定的IPv4地址前缀类型的MPLS LSP不存在。	Please use the existing IPv4 LSP. 请使用已存在的 IPv4 LSP。
IPv4 LSP and FEC type mismatch. 指定的IPv4地址前缀类型的MPLS LSP与指定的FEC类型不匹配。	The specified IPv4 LSP should use the matching FEC type. 指定的 IPv4 LSP 应使用匹配的 FEC 类型。
IPv4 over IPv6 not supported. 不支持IPv4 over IPv6。	Detection of connectivity for MPLS LSP of IPv4 address prefix type: Nexthop address cannot be an IPv6 address. 检测 IPv4 地址前缀类型的 MPLS LSP 的连通性时下一跳地址不能为 IPv6 地址。
The specified TE tunnel doesn't exist. 指定的TE Tunnel不存在。	The MPLS TE tunnel information could not be obtained. 无法获取到 MPLS TE 的信息。
The specified TE Hot Standby LSP doesn't exist. 指定的TE热备LSP不存在。	The backup LSP created by the MPLS TE hot backup function does not exist. 由 MPLS TE 热备份功能创建的备份 LSP 不存在。
The specified PW doesn't exist. 指定的PW不存在。	Please enter the existing PW LSP. 请输入存在的 PW LSP。
LSP ping for the PW is not supported. PW不支持LSP ping功能。	The device must support PW LSP PING first. 设备须首先支持 PW LSP ping。
No suitable control channel for the PW. PW没有合适的控制通道。	The suitable control channel for PW was not found. 没有找到适合 PW 的控制通道。
Please configure pseudowire control-word for control channel. 请配置控制字使能因为PW控制通道为控制字方式。	Please specify the VCCV control channel type as the control word type, because the PW control channel is the control word mode. 请指定 VCCV 控制通道类型为控制字类型，因为 PW 控制通道为控制字方式。
The specified SR-TE policy doesn't exist. 指定的SR-TE Policy不存在。	Please enter an existing SR-TE policy. 请输入存在的 SR-TE Policy。
The payload length of echo requests is too small. 指定的MPLS echo request报文长度过小。	Please enter a reasonable message length. 请输入合理的报文长度。
TEv4 table not supported. 不支持指定TEv4表。	The device must support TEv4 table first before you can specify it. 设备须首先支持 TEv4 表。
PW Table not supported. 不支持指定PW表。	The device must support PW table first before you can specify it. 设备须首先支持 PW 表。

SRPOLICYv4 Table not supported. 不支持指定SRPolicyv4表。	The device must support SRPOLICYv4 table first before you can specify it. 设备须首先支持 SRPolicyv4 表。
BSID value must be smaller than max label value. SRPolicy的BSID值应小于最大的标签值。	The BSID must be in the specified range. SRPolcy 的 BSID 值必须在设备的定制范围内。

Contents

LSPTracert 1
LSPTracert/DisableTracert 1
XML structure 1
Table description 1
Columns 1

LSPTracert

LSPTracert/DisableTracert

Use this table to stop LSP tracert operations.

XML structure

```
<LSPTracert>
  <DisableTracerts>
    <DisableTracert>
      <TestName></TestName>
    </DisableTracert>
  </DisableTracerts>
</LSPTracert>
```

Table description

Item	Description
Feature name	LSPTracert
Table name	DisableTracerts
Table type	Multi-instance table
Row name	DisableTracert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TestName	LSP tracert test name.	Index	String. Length: 1 to 31 characters.

Contents

LSPTracert 1
IPv4Tracert event 1
XML structure for event subscription 1
XML structure for event report 4
TEv4Tracert event 7
XML structure for event subscription 7
XML structure for event report 10
OutLabelsTracert event 12
XML structure for event subscription 12
XML structure for event report 16
SRPolicyv4Tracert event 18
XML structure for event subscription 18
XML structure for event report 21

LSPTracert

IPv4Tracert event

This table is used to trace the path that an IPv4 LSP traverses from source to destination.

XML structure for event subscription

```
<IPv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <DDMap></DDMap>
    <FecCheck></FecCheck>
    <FecType></FecType>
    <FecIPAddr></FecIPAddr>
    <FecIPAddrMaskLen></FecIPAddrMaskLen>
    <LoopDestAddrStart></LoopDestAddrStart>
    <LoopDestAddrEnd></LoopDestAddrEnd>
    <LoopDestAddrIncr></LoopDestAddrIncr>
  </TracertInfo>
</IPv4TracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVTracert</stream>
    <filter type="subtree">
      <IPv4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
        <TestName></TestName>
        <SourceAddr></SourceAddr>
        <ExpValue></ExpValue>
        <TTLValue></TTLValue>
        <ReplyMode></ReplyMode>
        <TosValue></TosValue>
        <TimerOut></TimerOut>
        <Verbose></Verbose>
        <DDMap></DDMap>
```

```
        <FecCheck></FecCheck>
        <FecType></FecType>
        <FecIPAddr></FecIPAddr>
        <FecIPAddrMaskLen></FecIPAddrMaskLen>
        <LoopDestAddrStart></LoopDestAddrStart>
        <LoopDestAddrEnd></LoopDestAddrEnd>
        <LoopDestAddrIncr></LoopDestAddrIncr>
        </TracertInfo>
      </IPv4TracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVTracert
Event name	IPv4TracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPv4 UDP packet. • 3—Reply via an IPv4 UDP packet with router alert.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—The reply packet has detailed information.	No

Column name	Column description	Data type and restrictions	Support for extended queries
		• **false—**The reply packet has no detailed information.	
DDMap	Encapsulates the Downstream Detailed Mapping (DDMAP) TLV in MPLS echo reply and MPLS echo request packets.	Boolean: • **true**—The reply packet has Downstream Detailed Mapping information • **false—**The reply packet has no Downstream Detailed Mapping information	No
FecCheck	Checks the FEC stack at transit nodes.	Boolean: • **true**—Checks the FEC stack at transit nodes. • **false—**Not checks the FEC stack at transit nodes.	No
FecType	LSP FEC type.	Enumeration: • 1—LDP IPv4 LSP. • 2—Generic IPv4 LSP. • 3—ISIS IPv4 LSP • 4—OSPF IPv4 LSP • 5—BGP IPv4 LSP	No
FecIPAddr	LSP FEC IPv4 address.	IPv4: String, dotted decimal notation.	No
FecIPAddrMaskLen	LSP FEC IPv4 address mask length.	Unsigned integer. Value range: 0 to 32.	No
LoopDestAddrStart	Destination address of IP header in echo request of first test packet.	IPv4: String, dotted decimal notation.	No
LoopDestAddrEnd	Destination address of IP header in echo request of last test packet.	IPv4: String, dotted decimal notation.	No
LoopDestAddrIncr	Incremental value of destination address.	Unsigned integer. Value range: 1 to 16777215.	No

XML structure for event report

```
<IPv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <TTLValue></TTLValue>
    <ReplierIPAddr></ReplierIPAddr>
    <ReplyTime></ReplyTime>
    <Type></Type>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    <DownStreamInforms>
      <DownStreamInform>
        <DSIPAdress></DSIPAdress>
        <DSLabel></DSLabel>
      </DownStreamInform>
    </DownStreamLabels>
  </TracertInfo>
</IPv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPV4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
      <DownStreamInforms>
        <DownStreamInform>
          <DSIPAdress></DSIPAdress>
          <DSLabel></DSLabel>
        </DownStreamInform>
      </DownStreamLabels>
    </TracertInfo>
  </IPv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	IPv4: String, dotted decimal notation.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
DSIPAdress	Address of the downstream LSR.	IPv4: String, dotted decimal notation.	No
DSLabel	Outgoing label	Unsigned integer.	No

```
<IPv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <LoopDestAddr></LoopDestAddr>
    <DestTestResult></DestTestResult>
  </TracertInfo>
</IPv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPV4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <LoopDestAddr></LoopDestAddr>
      <DestTestResult></DestTestResult>
```

```
    </TracertInfo>
  </IPv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
RoundEndErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No
LoopDestAddr	Destination address of the related hop in a test.	IPv4: String, dotted decimal notation.	No
DestTestResult	Destinaton address test result	Enumeration: • **0**—Successful. • **1**—Failed.	No

```
<IPv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <FecIPAddr></FecIPAddr>
    <FecIPAddrMaskLen></FecIPAddrMaskLen>
    <TestResult></TestResult>
  </TracertInfo>
</IPv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <FecIPAddr></FecIPAddr>
      <FecIPAddrMaskLen></FecIPAddrMaskLen>
      <TestResult></TestResult>
    </TracertInfo>
  </IPv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
FecIPAddr	LSP FEC type.	IPv4: String, dotted decimal notation.	No
FecIPAddrMaskLen	LSP FEC IPv4 address.	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Failed.	No
SummaryErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

TEv4Tracert event

This table is used to trace the path that an IPv4 TE tunnel traverses from source to destination.

XML structure for event subscription

```
<TEv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <FecCheck></FecCheck>
    <TunnelName></TunnelName>
    <TunnelNum></TunnelNum>
    <HotStandby></HotStandby>
  </TracertInfo>
</TEv4TracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVTracert</stream>
    <filter type="subtree">
      <TEv4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <FecCheck></FecCheck>
          <TunnelName></TunnelName>
          <TunnelNum></TunnelNum>
          <HotStandby></HotStandby>
        </TracertInfo>
      </TEv4TracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVTracert
Event name	TEv4TracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—The reply packet has detailed information. • **false—**The reply packet has no detailed information.	No
FecCheck	Checks the FEC stack at transit nodes.	Boolean: • **true**—Checks the FEC stack at transit nodes. • **false—**Not checks the FEC stack at transit nodes.	No
TunnelName	Tunnel name.	String. Length: 1 to 47 characters.	No
TunnelNum	Tunnel num.	String. Length: 1 to 27 characters.	No
HotStandby	Hot Standby	Boolean: • **true**—Hot standby LSP TE tunnel • **false—**Main LSP of TE tunnel	No

XML structure for event report

```
<TEv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <TTLValue></TTLValue>
    <ReplierIPAddr></ReplierIPAddr>
    <ReplyTime></ReplyTime>
    <Type></Type>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    <DownStreamInforms>
      <DownStreamInform>
        <DSIPAdress></DSIPAdress>
        <DSLabel></DSLabel>
      </DownStreamInform>
    </DownStreamLabels>
  </TracertInfo>
</TEv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TEv4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
      <DownStreamInforms>
        <DownStreamInform>
          <DSIPAdress></DSIPAdress>
          <DSLabel></DSLabel>
        </DownStreamInform>
      </DownStreamLabels>
    </TracertInfo>
  </TEv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	IPv4: String, dotted decimal notation.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR Type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
DSIPAdress	Address of the downstream LSR.	IPv4: String, dotted decimal notation.	No
DSLabel	Outgoing label	Unsigned integer.	No

```
<TEv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <TunnelName></TunnelName>
    <TestResult></TestResult>
  </TracertInfo>
</TEv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TEv4TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TunnelName></TunnelName>
```

```
      <TestResult></TestResult>
    </TracertInfo>
  </TEv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
TunnelName	Tunnel name.	String. Length: 1 to 47 characters.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Failed.	No
SummaryErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

OutLabelsTracert event

This table is used to trace the LSPs with the specified out labels from source to destination.

XML structure for event subscription

```
<OulLabelsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
    <FecCheck></FecCheck>
    <OutLabelLists>
      <OutLabelList>
        <OutLabel></OutLabel>
      </OutLabelList>
    </OutLabelLists>
    <NextHop></NextHop>
```

```
    <OutInterface></OutInterface>
    <OutInterfaceType></OutInterfaceType>
    <OutInterfaceNum></OutInterfaceNum>
  </TracertInfo>
</OulLabelsTracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVTracert</stream>
    <filter type="subtree">
      <OutLabelsTracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <FecCheck></FecCheck>
          <OutLabelLists>
            <OutLabelList>
              <OutLabel></OutLabel>
            </OutLabelList>
          </OutLabelLists>
          <NextHop></NextHop>
          <OutInterface></OutInterface>
          <OutInterfaceType></OutInterfaceType>
          <OutInterfaceNum></OutInterfaceNum>
        </TracertInfo>
      </OutLabelsTracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVTracert
Event name	OulLabelsTracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—The reply packet has detailed information. • **false—**The reply packet has no detailed information.	No
FecCheck	Checks the FEC stack at transit nodes.	Boolean: • **true**—Checks the FEC stack at transit nodes. • **false—**Not checks the FEC stack at transit nodes.	No
OutLabel	Out label.	Unsigned integer. Value range: 0, 3, 16 to 1048575.	No
NextHop	Next hop	IPv4: String, dotted decimal notation.	No
OutInterface	Out interface name	String. Length: 1 to 47 characters.	No
OutInterfaceType	Out interface type	String. Length: 1 to 20 characters.	No
OutInterfaceNum	Out interface number	String. Length: 1 to 27 characters.	No

XML structure for event report

```
<OutLabelsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <TTLValue></TTLValue>
    <ReplierIPAddr></ReplierIPAddr>
    <ReplyTime></ReplyTime>
    <Type></Type>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    <DownStreamInforms>
      <DownStreamInform>
        <DSIPAdress></DSIPAdress>
        <DSLabel></DSLabel>
      </DownStreamInform>
    </DownStreamLabels>
  </TracertInfo>
</OutLabelsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <OutLabelsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
      <DownStreamInforms>
        <DownStreamInform>
          <DSIPAdress></DSIPAdress>
          <DSLabel></DSLabel>
        </DownStreamInform>
      </DownStreamLabels>
    </TracertInfo>
  </OutLabelsTracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	IPv4: String, dotted decimal notation.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR Type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
DSIPAdress	Address of the downstream LSR.	IPv4: String, dotted decimal notation.	No
DSLabel	Outgoing label	Unsigned integer.	No

```
<OutlabelsTracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <OutLabelLists>
      <OutLabelList>
        <OutLabel></OutLabel>
      </OutLabelList>
    </OutLabelLists>
    <TestResult></TestResult>
  </TracertInfo>
</OutlabelsTracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <OutLabelsTracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
```

```
    <TracertInfo>
      <TestName></TestName>
      <OutLabelLists>
        <OutLabelList>
          <OutLabel></OutLabel>
        </OutLabelList>
      </OutLabelLists>
      <TestResult></TestResult>
    </TracertInfo>
  </OutLabelsTracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
OutLabel	Out label.	Unsigned integer.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Failed.	No
SummaryErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

SRPolicyv4Tracert event

This table is used to trace the path of an IPv4 SR policy from source to destination.

XML structure for event subscription

```
<SRPolicyv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SourceAddr></SourceAddr>
    <ExpValue></ExpValue>
    <TTLValue></TTLValue>
    <ReplyMode></ReplyMode>
    <TosValue></TosValue>
    <TimerOut></TimerOut>
    <Verbose></Verbose>
```

```
    <SRPolicyName></SRPolicyName>
    <EndPointAddr></EndPointAddr>
    <Color></Color>
    <BindingSID></BindingSID>
  </TracertInfo>
</SRPolicyv4TracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>LSPVTracert</stream>
    <filter type="subtree">
      <SRPolicyv4TracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
        <TracertInfo>
          <TestName></TestName>
          <SourceAddr></SourceAddr>
          <ExpValue></ExpValue>
          <TTLValue></TTLValue>
          <ReplyMode></ReplyMode>
          <TosValue></TosValue>
          <TimerOut></TimerOut>
          <Verbose></Verbose>
          <SRPolicyName></SRPolicyName>
          <EndPointAddr></EndPointAddr>
          <Color></Color>
          <BindingSID></BindingSID>
        </TracertInfo>
      </SRPolicyv4TracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LSPVTracert
Event name	SRPolicyv4TracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
SourceAddr	Source IPv4 address of echo requests.	IPv4: String, dotted decimal notation.	No
ExpValue	EXP value of echo request.	Unsigned integer. Value range: 0 to 7	No
TTLValue	Time to live.	Unsigned integer. Value range: 1 to 255.	No
ReplyMode	Reply mode.	Enumeration: • 2—Reply via an IPV4 UDP packet. • 3—Reply via an IPV4 UDP packet with router alert.	No
TosValue	ToS value of echo reply.	Unsigned integer. Value range: 0 to 7.	No
TimerOut	The wait time for each reply.	Unsigned integer. Value range: 0 to 65535 milliseconds.	No
Verbose	Detailed information of reply.	Boolean: • **true**—The reply packet has detailed information. • **false—**The reply packet has no detailed information.	No
SRPolicyName	SR-TE policy name.	String. Length: 1 to 59 characters.	No
EndPointAddr	SR-TE policy endpoint IPv4 address.	IPv4: String, dotted decimal notation.	No
Color	SR-TE policy color attribute.	Unsigned integer. Value range: 1 to 4294967295.	No
BindingSID	SR-TE policy binding SID.	Unsigned integer. Value range: 16 to 1048575.	No

XML structure for event report

```
<SRPolicyv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <TTLValue></TTLValue>
    <ReplierIPAddr></ReplierIPAddr>
    <ReplyTime></ReplyTime>
    <Type></Type>
    <ReturnCode></ReturnCode>
    <ReturnSubCode></ReturnSubCode>
    <DownStreamInforms>
      <DownStreamInform>
        <DSIPAdress></DSIPAdress>
        <DSLabel></DSLabel>
      </DownStreamInform>
    </DownStreamLabels>
  </TracertInfo>
</SRPolicyv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SRPolicyv44TracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <TTLValue></TTLValue>
      <ReplierIPAddr></ReplierIPAddr>
      <ReplyTime></ReplyTime>
      <Type></Type>
      <ReturnCode></ReturnCode>
      <ReturnSubCode></ReturnSubCode>
      <DownStreamInforms>
        <DownStreamInform>
          <DSIPAdress></DSIPAdress>
          <DSLabel></DSLabel>
        </DownStreamInform>
      </DownStreamLabels>
    </TracertInfo>
  </SRPolicyv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
TTLValue	Number of hops.	Unsigned integer.	No
ReplierIPAddr	Address of the LSR that replied the request.	IPv4: String, dotted decimal notation.	No
ReplyTime	Reply time of test packets, in milliseconds.	Unsigned integer. milliseconds.	No
Type	LSR Type.	Enumeration: • 1—Ingress. • 2—Transit. • 3—Egress.	No
ReturnCode	Return code.	Unsigned integer.	No
ReturnSubCode	Return sub-code.	Unsigned integer.	No
DSIPAdress	Address of the downstream LSR.	IPv4: String, dotted decimal notation.	No
DSLabel	Outgoing label	Unsigned integer.	No

```
<SRPolicyv4TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SeglistID></SeglistID>
    <Preference></Preference>
    <PathType></PathType>
    <ProtocolOrign></ProtocolOrign>
    <SeglistResult></SeglistResult>
  </TracertInfo>
</SRPolicyv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```

```
  <SRPolicyv4TracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <SeglistID></SeglistID>
      <Preference></Preference>
      <PathType></PathType>
      <ProtocolOrign></ProtocolOrign>
      <SeglistResult></SeglistResult>
    </TracertInfo>
  </SRPolicyv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
RoundEndErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No
SeglistID	SID list ID.	Unsigned integer.	No
Preference	Path priority.	Unsigned integer.	No
PathType	Path type	Enumeration: • 1—Main. • 2—Backup.	No
ProtocolOrign	Protocol origin	Enumeration: • 1—**PCEP**. • 2—**BGP**. • 3—**Local** • 4—**Unknown**.	No
SeglistResult	Seglist test result	Enumeration: • **0**—Successful. • **1**—Failed.	No

```
<SRPolicyv44TracertEvent>
  <TracertInfo>
    <TestName></TestName>
    <SRPolicyName></SRPolicyName>
    <TestResult></TestResult>
  </TracertInfo>
</SRPolicyv4TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SRPolicyv4TracertEvent
xmlns="http://www.h3c.com/netconf/event:1.0/lspvtracert:1.0">
    <TracertInfo>
      <TestName></TestName>
      <SRPolicyName></SRPolicyName>
      <TestResult></TestResult>
    </TracertInfo>
  </SRPolicyv4TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TestName	LSPV Tracert test name.	String. Length: 1 to 64 characters.	No
SRPolicyName	SR policy name	String. Length: 1 to 59 characters.	No
TestResult	Test result	Enumeration: • **0**—Successful. • **1**—Failed.	No
SummaryErrorReason	Error reason of RoundEnd packet.	Enumeration: • 0— The packet test succeeded. • other—The packet test failed.	No

Contents

MPLS 1
MPLS/ResetStatistics 1
XML structure 1
Table description 1
Columns 1
MPLS/ResetVrfStatistics 1
XML structure 1
Table description 2
Columns 2
MPLS/ResetTETunnelStatistics 2
XML structure 2
Table description 2
Columns 3
MPLS/ResetTeStatistics 3
XML structure 3
Table description 3
Columns 3

MPLS

MPLS/ResetStatistics

This table is used to reset mpls statistics.

XML structure

```
<MPLS>
  <ResetStatistics>
    <All></All>
    <Static></Static>
  </ResetStatistics>
 </MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	ResetStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
All	Specify all LSPs.	N/A	• This column must be empty.	N/A
Static	Specify static LSPs.	N/A	• This column must be empty.	N/A

MPLS/ResetVrfStatistics

This table is used to reset vrf MPLS statistics information.

XML structure

```
<MPLS>
  <ResetVrfStatistics>
    <ResetVrfStatistic>
      <VrfName></VrfName>
```

```
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
    </ResetVrfStatistic>
  </ResetVrfStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	ResetVrfStatistics
Table type	Multi-instance table
Row name	ResetVrfStatistic
Restrictions	Enable MPLS statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	The name of Vpn Instance.	Index	String. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 LSP prefix address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

MPLS/ResetTETunnelStatistics

This table is used to reset TE tunnel statistics.

XML structure

```
<MPLS>
  <ResetTETunnelStatistics>
   <ResetTETunnelStatistic>
      <TunnelID></TunnelID>
   </ResetTETunnelStatistic>
  </ResetTETunnelStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS

Table name	ResetTETunnelStatistics
Table type	Single-instance table
Row name	ResetTETunnelStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	The tunnel interface number

MPLS/ResetTeStatistics

This table contains tunnel statistics information.

XML structure

```
<MPLS>
  <ResetTeStatistics>
    <ResetTeStatistic>
      <LsrID></LsrID>
      <TunnelID></TunnelID>
    </ResetTeStatistic>
  </ResetTeStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	ResetTeStatistics
Table type	Multi-instance table
Row name	ResetTeStatistics
Restrictions	Enable Tunnel statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LsrID	Lsrl ID.	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A

Contents

MPLS 1

MPLS/Base 1
XML structure 1
Table description 1
Columns 1
MPLS/Interfaces 2
XML structure 2
Table description 3
Columns 3
MPLS/LabelSegments 3
XML structure 4
Table description 4
Columns 4
MPLS/SegmentRouting 4
XML structure 4
Table description 5
Columns 5
MPLS/TunnelPolicies 5
XML structure 6
Table description 6
Columns 6
MPLS/PreferredTunnelPolicies 7
XML structure 7
Table description 7
Columns 7
MPLS/TunnelMbfds 8
XML structure 8
Table description 8
Columns 8
MPLS/Tunnelbfds 9
XML structure 10
Table description 10
Columns 10
MPLS/TunnelSbfds 11
XML structure 11
Table description 12
Columns 12
MPLS/TunnelBfdPara 12
XML structure 12
Table description 13
Columns 13
MPLS/TunnelTBfdPara 13
XML structure 13
Table description 14
Columns 14
MPLS/Mbfds 14
XML structure 14
Table description 15
Columns 15
MPLS/LspTbfds 16
XML structure 16
Table description 17
Columns 17
MPLS/Statistics 18
XML structure 18
Table description 18
Columns 18

MPLS/VrfStatistics 19
XML structure 19
Table description 19
Columns 19
MPLS/VrfStatistics/VrfStatistic/Ipv4Prefixs 19
XML structure 20
Table description 20
Columns 20
MPLS/TeStatistics 20
XML structure 20
Table description 21
Columns 21
MPLS/StaticEgressLSPs 21
XML structure 21
Table description 21
Columns 22
MPLS/StaticIngressLSPs 22
XML structure 22
Table description 22
Columns 23
MPLS/StaticTransitLSPs 23
XML structure 23
Table description 24
Columns 24
MPLS/StaticSRLSPs 24
XML structure 25
Table description 25
Columns 25
MPLS/StaticSRAdjacencies 25
XML structure 25
Table description 26
Columns 26
MPLS/StaticSRPrefixs 26
XML structure 27
Table description 27
Columns 27
MPLS/MPLSVRFs 28
XML structure 28
Table description 28
Columns 29

MPLS

MPLS/Base

This table contains global MPLS information.

XML structure

```
<MPLS>
  <Base>
    <LSRID></LSRID>
    <CBTSStatInterval></CBTSStatInterval>
    <MPLSBFD></MPLSBFD>
    <FwdSplitHorizon></FwdSplitHorizon>
    <LabelAdvertise></LabelAdvertise>
    <TtlExpiration></TtlExpiration>
    <TtlPropagatePub></TtlPropagatePub>
    <TtlPropagateVPN></TtlPropagateVPN>
    <MbfdEnable></MbfdEnable>
    <BandwidthBasedSharing></BandwidthBasedSharing>
  </Base>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSRID	The LSR ID.	N/A	String, dotted decimal notation.	N/A
CBTSStatInterval	CBTS statistics collection interval in seconds	N/A	Unsigned short. Value range: 5~65535. The default value is 5.	N/A
MPLSBFD	MPLS BFD global enable.	N/A	Boolean: • **true**—Enabled.	Some versions support MPLSBFD and

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false—**Disabled(default)	some versions support MbfdEnable. For relevant information, see the XSD document of your product.
FwdSplitHorizon	Whether is enabled mpls forwarding split-horizon	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
LabelAdvertise	Specify the type of labels advertised by egress	N/A	Enumeration: • 0—Implicit-null. • 1—Explicit-null. • 2—Non-null.	N/A
TtlExpiration	Enable sending of ICMP time exceeded messages	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TtlPropagatePub	Propagate the Public TTL to and from the MPLS header	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TtlPropagateVPN	Propagate the VPN TTL to and from the MPLS header	N/A	Boolean: • **true**—Enabled. • **false—Disabled.**	N/A
MbfdEnable	Enable MPLS BFD	N/A	Boolean: • **true**—Enabled. • **false—Disabled.**	Some versions support MPLSBFD and some versions support MbfdEnable. For relevant information, see the XSD document of your product.
BandwidthBasedSharing	Enable MPLS bandwidth based sharing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Support for this column depends on the device model.

MPLS/Interfaces

This table contains MPLS interface information.

XML structure

```
<MPLS>
  <Interfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <Enable></Enable>
      <Mtu></Mtu>
    </Interface>
  </Interfaces>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable MPLS	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
Mtu	Specify the MPLS Maximum Transmission Unit (MTU)	N/A	Unsigned integer. Value range: 46 to 65535.	N/A

MPLS/LabelSegments

This table contains MPLS label segments information.

XML structure

```
<MPLS>
  <LabelSegments>
    <LabelSegment>
      <ProtocolType></ProtocolType>
      <MinLabel></MinLabel>
      <MaxLabel></MaxLabel>
    </LabelSegment>
  </LabelSegments>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LabelSegments
Table type	Multi-instance table
Row name	LabelSegment
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol Type.	Index	Enumeration: • 8—VPN	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A

MPLS/SegmentRouting

This table contains segment routing label block infomation.

XML structure

```
<MPLS>
  <SegmentRouting>
    <GlobalSRGB>
```

```
      <Lowerbound></Lowerbound>
      <Upperbound></Upperbound>
    </GlobalSRGB>
    <SRLB>
      <Lowerbound></Lowerbound>
      <Upperbound></Upperbound>
    </SRLB>
  </SegmentRouting>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	SegmentRouting
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalSRGB	Global SRGB configuration.	N/A	Members include: • Lowerbound • Upperbound	N/A
SRLB	SR Local Block configuration.	N/A	Members include: • Lowerbound • Upperbound	N/A
Lowerbound	Lower bound of the label block.	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to16.	N/A
Upperbound	Upper bound of the label block.	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to17.	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```
<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>
      <PolicyName></PolicyName>
      <Default></Default>
      <Sequence>
        <Strict></Strict>
        <PrefLspType></PrefLspType>
        <LoadBalancingNum></LoadBalancingNum>
      </Sequence>
    </TunnelPolicy>
  </TunnelPolicies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelPolicies
Table type	Multi-instance table
Row name	TunnelPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the tunnel policy	Index	String. Length: 1 to 19 characters.	Some product 1 to 126 characters.
Default	The default tunnel policy	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
Sequence	Tunnel selection setting	N/A	Members include: • PrefLspType. • LoadBalancingNum.	The members of PrefLspType and LoadBalancingNum must be specified.
Strict	Using only one type of tunnels for load balancing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
PrefLspType	Preferred tunnel type	N/A	Enumeration: • 0—LSP.	Up to 4 repeats are allowed for PrefLspType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—GRE. • 2—CR-LSP. • 3—SR-LSP.	Support for GRE depends on the device model.
LoadBalancingNum	Number of tunnels for load balancing	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/PreferredTunnelPolicies

This table contains preferred tunnel information in a tunnel policy.

XML structure

```
<MPLS>
  <PreferredTunnelPolicies>
    <PreferredTunnelPolicy>
      <PolicyName></PolicyName>
      <TunnelType></TunnelType>
      <TunnelID></TunnelID>
    </PreferredTunnelPolicy>
  </PreferredTunnelPolicies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	PreferredTunnelPolicies
Table type	Multi-instance table
Row name	PreferredTunnelPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters.	Some product 1 to 126 characters.
TunnelType	Preferred tunnel type.	Index	Enumeration: • 0—TUNNEL. • 1—TUNNEL-BUNDLE.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A

MPLS/TunnelMbfds

This table contains MBFD tunnel LSP information.

XML structure

```
<MPLS>
  <TunnelMbfds>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Echo></Echo>
      <Template></Template>
      <Backup></Backup>
      <BackupTemplate></BackupTemplate>
      <Seamless></Seamless>
      <ReverseLabel></ReverseLabel>
      <SourceIP></SourceIP>
    </TunnelMbfd>
  </TunnelMbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean:	This column is

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **true**—BFD and SBFD enabled. • **false—**BFD and SBFD disabled (default).	used to enable or disable BFD and SBFD.
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	If Remote discriminator is not configured for SBFD, SBFD uses the destination of the tunnel.
Echo	Echo style of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate,the tempate also apply to backup LSP.
Backup	Enable MBFD for backup LSP	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
BackupTemplate	The MBFD parameter of backup LSP	N/A	String. Length: 1 to 63 characters.	N/A
Seamless	Enable SBFD	N/A	Boolean: • **true**—SBFD enabled. • **false—**SBFD disabled, BFD enabled (default).	If this column is configured, the table configures SBFD for the tunnel. If this column is not available, the table configures BFD for the tunnel.
ReverseLabel	Reverse Label	N/A	Unsigned integer. Value range: 16 to 1048575	
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/Tunnelbfds

This table contains BFD tunnel interface information.

XML structure

```
<MPLS>
  <Tunnelbfds>
    <Tunnelbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Echo></Echo>
      <Template></Template>
      <Seamless></Seamless>
      <ReverseLabel></ReverseLabel>
      <SourceIP></SourceIP>
    </Tunnelbfd>
  </Tunnelbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Tunnelbfds
Table type	Multi-instance table
Row name	Tunnelbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: • **true**—Tunnel BFD and tunnel SBFD enabled. • **false—**Tunnel BFD and tunnel SBFD disabled (default).	This column is used to enable or disable BFD and SBFD.
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscriminator	Remote discriminator of the MBFD	N/A	Unsigned integer. Value range: 1 to 4294967295.	If Remote discriminator is not configured for SBFD, SBFD uses

Column name	Column description	Column type	Data type and restrictions	Remarks
	session			the destination of the tunnel.
Echo	Echo style of MBFD	N/A	Boolean: • **true**—Enabled. **false—**Disabled.	N/A
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate,the tempate also apply to backup LSP.
Seamless	Enable SBFD	N/A	Boolean: • **true**—Tunnel SBFD enabled. • **false—**Tunnel SBFD disabled, tunnel BFD enabled (default).	If this column is configured, the table configures SBFD for the tunnel. If this column is not available, the table configures BFD for the tunnel.
ReverseLabel	Reverse Label	N/A	Unsigned integer. Value range: 16 to 1048575	
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/TunnelSbfds

This table contains SBFD Tunnel interface information.

XML structure

```
<MPLS>
  <TunnelSbfds>
    <TunnelSbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
      <BackupTemplate></BackupTemplate>
      <SourceIP></SourceIP>
    </TunnelSbfd>
  </TunnelSbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default).	N/A
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	this column must be specified if SBFD set be true.
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate,the tempate also apply to backup LSP.
BackupTemplate	The MBFD parameter of backup LSP	N/A	String. Length: 1 to 63 characters.	N/A
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/TunnelBfdPara

This table contains the BFD and SBFD configuration on a tunnel interface.

XML structure

```
<MPLS>
  <TunnelBfdParas>
    <TunnelBfdPara>
      <TunnelID></TunnelID>
      <BfdMinTx></BfdMinTx>
```

```
      <BfdMinRx></BfdMinRx>
      <BfdDetectMultiplier></BfdDetectMultiplier>
    </TunnelBfdPara>
  </TunnelBfdParas>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
BfdMinTx	The minimum interval for transmitting BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdMinRx	The minimum interval for receiving BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdDetectMultiplier	The detection time multiplier	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.

MPLS/TunnelTBfdPara

This table contains the Tunnel-BFD and Tunnel-SBFD configuration on a tunnel interface.

XML structure

```
<MPLS>
  <TunnelTBfdParas>
    <TunnelTBfdPara>
      <TunnelID></TunnelID>
      <BfdMinTx></BfdMinTx>
      <BfdMinRx></BfdMinRx>
      <BfdDetectMultiplier></BfdDetectMultiplier>
```

```
    </TunnelTBfdPara>
  </TunnelTBfdParas>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelTBfdParas
Table type	Multi-instance table
Row name	TunnelTBfdPara
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
BfdMinTx	The minimum interval for transmitting BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdMinRx	The minimum interval for receiving BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdDetectMultiplier	The detection time multiplier	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.

MPLS/Mbfds

This table contains MBFD LSP information.

XML structure

```
<MPLS>
  <Mbfds>
    <Mbfd>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
      <Nexthop></Nexthop>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
```

```
      <NilFec></NilFec>
      <LdpFec></LdpFec>
      <Echo></Echo>
      <Seamless></Seamless>
      <LspType></LspType>
      <SourceIP></SourceIP>
    </Mbfd>
  </Mbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Mbfds
Table type	Multi-instance table
Row name	Mbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Ipv4Address	FEC destination address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLen th	Mask length of the FEC destination address	Index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop address	Index	String, dotted decimal notation.	N/A
LocalDiscrimi nator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscri minator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	The remote discriminator must be configured together with the local discriminator.
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	N/A
NilFec	Support MPLS echo packets with Nil FEC type	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	It cannot be configured together with LdpFec, Echo, LocalDiscriminator,

Column name	Column description	Column type	Data type and restrictions	Remarks
				RemoteDiscriminator, or lspType.
LdpFec	Support MPLS echo packets with LDP IPv4 Prefix	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	It cannot be configured together with NilFec, Echo, LocalDiscriminator, RemoteDiscriminator, or LspType.
Echo	Echo mode of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	It cannot be configured together with NilFec, LdpFec, LocalDiscriminator, RemoteDiscriminator, or LspType.
Seamleass	Enable seamless BFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	Represents whether it is sbfd or not. When it is false, it is BFD
LspType	LSP type	N/A	Enumeration: • 0—Static. • 1—LDP. • 2—BGP. • 3—OSPF. • 4—ISIS.	It cannot be configured NilFec, LdpFec, or Echo. It can only be configured together with LocalDiscriminator and RemoteDiscriminator.
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/LspTbfds

This table contains LSP tunnel BFD information.

XML structure

```
<MPLS>
  <LspTbfds>
    <LspTbfd>
     <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
      <NilFec></NilFec>
      <LdpFec></LdpFec>
      <Echo></Echo>
      <LspType></LspType>
      <SourceIP></SourceIP>
    </LspTbfd>
```

```
  </LspTbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LspTbfds
Table type	Multi-instance table
Row name	LspTbfd
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	FEC destination address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLen th	Mask length of the FEC destination address	Index	Unsigned integer. Value range: 0 to 32.	N/A
LocalDiscrimi nator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscri minator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	N/A
NilFec	Support MPLS echo packets with Nil FEC type	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	N/A
LdpFec	Support MPLS echo packets with LDP IPv4 Prefix	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	N/A
Echo	Echo mode of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled (default).	N/A
LspType	LSP type	N/A	Enumeration: • 0—Static • 1—LDP • 2—BGP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—OSPF • 4—ISIS	
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/Statistics

This table contains MPLS statistics information.

XML structure

```
<MPLS>
  <Statistics>
    <All></All>
    <Interval></Interval>
    <Static></Static>
  </Statistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Statistics
Table type	Single-instance table
Row name	None
Restrictions	Enable MPLS statistics collection.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
All	Specify all LSPs.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Interval	Set the statistics collection interval.	N/A	Unsigned integer. Value range: 30 to 65535.	N/A
Static	Specify static LSPs.	N/A	Boolean: • **true**—Enabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disabled.	

MPLS/VrfStatistics

This table contains MPLS statistics information.

XML structure

```
<MPLS>
  <VrfStatistics>
    <VrfStatistic>
      <VrfName></VrfName>
      <Ipv4Prefixs></Ipv4Prefixs>
    </VrfStatistic>
  </VrfStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	VrfStatistics
Table type	Multi-instance table
Row name	VrfStatistic
Restrictions	Enable MPLS statistics collection.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	The name of Vpn Instance.	Index	String. Length: 1 to 31 characters.	N/A
Ipv4Prefixs	The ipv4 statistics information.	Sublist	NA	NA

MPLS/VrfStatistics/VrfStatistic/Ipv4Prefixs

This table contains MPLS ipv4 statistics information.

XML structure

```
<Ipv4Prefixs>
  <Ipv4Prefix>
    <Ipv4Address></Ipv4Address>
    <Ipv4PrefixLenth></Ipv4PrefixLenth>
  </Ipv4Prefix>
</Ipv4Prefixs>
```

Table description

Item	Description
Feature name	MPLS
Table name	Ipv4Prefixs
Table type	Multi-instance table
Row name	Ipv4Prefix
Restrictions	Enable MPLS statistics collection.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 LSP prefix address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

MPLS/TeStatistics

This table contains tunnel statistics information.

XML structure

```
<MPLS>
  <TeStatistics>
    <TeStatistic>
      <LsrID></LsrID>
      <TunnelID></TunnelID>
    </TeStatistic>
  </TeStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TeStatistics
Table type	Multi-instance table
Row name	TeStatistic
Restrictions	Enable Tunnel statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LsrID	Ingress LSR ID of the tunnel..	Index	String, dotted decimal notation.	N/A
TunnelID	MPLS TE tunnel ID.	Index	Unsigned integer.	N/A

MPLS/StaticEgressLSPs

This table contains static egress LSP information.

XML structure

```
<MPLS>
  <StaticEgressLSPs>
    <StaticEgressLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
    </StaticEgressLSP>
  </StaticEgressLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticEgressLSPs
Table type	Multi-instance table
Row name	StaticEgressLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer. The value range varies by device model.	No modification.

MPLS/StaticIngressLSPs

This table contains static ingress LSP information.

XML structure

```
<MPLS>
  <StaticIngressLSPs>
    <StaticIngressLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
      <DestAddress></DestAddress>
      <DestWildcardMask></DestWildcardMask>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
    </StaticIngressLSP>
  </StaticIngressLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticIngressLSPs
Table type	Multi-instance table
Row name	StaticIngressLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified.
DestAddress	IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestWildcardMask must also be specified.
DestWildcard Mask	Mask of the IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestAddress must also be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	One and only one of this column or NextHop must be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticTransitLSPs

This table contains static transit LSP information.

XML structure

```
<MPLS>
  <StaticTransitLSPs>
    <StaticTransitLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
```

```
    </StaticTransitLSP>
  </StaticTransitLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticTransitLSPs
Table type	Multi-instance table
Row name	StaticTransitLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	This column must be specified.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticSRLSPs

This table contains static segment routing LSP information.

XML structure

```
<MPLS>
  <StaticSRLSPs>
    <StaticSRLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
    </StaticSRLSP>
  </StaticSRLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRLSPs
Table type	Multi-instance table
Row name	StaticSRLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static segment routing LSP.	Index	String. Length: 1 to 15 characters.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/StaticSRAdjacencies

This table contains static segment routing adjacency information.

XML structure

```
<MPLS>
  <StaticSRAdjacencies>
    <StaticSRAdjacency>
      <AdjName></AdjName>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
```

```
    </StaticSRAdjacency>
  </StaticSRAdjacencies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRAdjacencies
Table type	Multi-instance table
Row name	StaticSRAdjacency
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdjName	Name of static segment routing adjacency.	Index	String. Length: 1 to 15 characters.	N/A
InLabel	Adjacency incoming label	N/A	Unsigned integer.	This column must be specified.
NextHop	Adjacency next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Adjacency outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticSRPrefixs

This table contains static segment routing prefix information.

XML structure

```
<MPLS>
  <StaticSRPrefixs>
   <StaticSRPrefix>
      <PrefixName></PrefixName>
      <DestAddress></DestAddress>
      <DestMask></DestMask>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutLabel></OutLabel>
    </StaticSRPrefix>
  </StaticSRPrefixs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRPrefixs
Table type	Multi-instance table
Row name	StaticSRPrefix
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Name of static segment routing prefix.	Index	String. Length: 1 to 15 characters.	N/A
DestAddress	IPv4 prefix destination address	Index	String, dotted decimal notation.	N/A
DestMask	Prefix destination address mask	Index	Unsigned integer.	N/A
InLabel	Prefix incoming label	Index	Unsigned integer.	N/A
NextHop	Prefix next hop address	Index	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Prefix outgoing interface index	Index	Unsigned integer.	One and only one of this column and NextHop must be specified. Some versions

Column name	Column description	Column type	Data type and restrictions	Remarks
				support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OutLabel	Prefix outgoing label	N/A	Unsigned integer.	This column must be specified, and repetitions are not allowed for this column.

MPLS/MPLSVRFs

This table contains MPLS VRF information.

XML structure

```
<MPLS>
  <MPLSVRFs>
    <MPLSVRF>
      <VRF></VRF>
      <Statistics></Statistics>
    </MPLSVRF>
  </MPLSVRFs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	MPLSVRFs
Table type	Multi-instance table
Row name	MPLSVRF
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Statistics	Whether statistics is enabled for the VRF	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this column depends on the device model.

Contents

MPLS 1

MPLS/Base 1
XML structure 1
Table description 1
Columns 1
MPLS/Interfaces 3
XML structure 3
Table description 3
Columns 4
MPLS/TunnelPolicies 4
XML structure 4
Table description 5
Columns 5
MPLS/PreferredTunnelPolicies 5
XML structure 5
Table description 6
Columns 6
MPLS/LabelRanges 6
XML structure 6
Table description 7
Columns 7
MPLS/LabelSegments 7
XML structure 7
Table description 7
Columns 8
MPLS/SegmentRouting 8
XML structure 8
Table description 9
Columns 9
MPLS/TunnelMbfds 9
XML structure 9
Table description 10
Columns 10
MPLS/Tunnelbfds 11
XML structure 11
Table description 11
Columns 12
MPLS/TunnelSbfds 12
XML structure 13
Table description 13
Columns 13
MPLS/TunnelBfdPara 14
XML structure 14
Table description 14
Columns 14
MPLS/TunnelTBfdPara 15
XML structure 15
Table description 15
Columns 15
MPLS/Mbfds 16
XML structure 16
Table description 16
Columns 17
MPLS/LspTbfds 18
XML structure 18
Table description 18
Columns 18

MPLS/MbfdSessions 19
XML structure 19
Table description 20
Columns 20
MPLS/Statistics 22
XML structure 23
Table description 23
Columns 23
MPLS/VrfStatistics 23
XML structure 23
Table description 24
Columns 24
MPLS/VrfStatistics/VrfStatistic/Ipv4Prefixs 24
XML structure 24
Table description 24
Columns 25
MPLS/TeStatistics 25
XML structure 25
Table description 25
Columns 25
MPLS/StaticEgressLSPs 26
XML structure 26
Table description 26
Columns 26
MPLS/StaticIngressLSPs 26
XML structure 26
Table description 27
Columns 27
MPLS/StaticTransitLSPs 28
XML structure 28
Table description 28
Columns 28
MPLS/StaticSRLSPs 29
XML structure 29
Table description 29
Columns 30
MPLS/StaticSRAdjacencies 30
XML structure 30
Table description 30
Columns 30
MPLS/StaticSRPrefixs 31
XML structure 31
Table description 32
Columns 32
MPLS/IPv4LSP 33
XML structure 33
Table description 34
Columns 34
MPLS/FlexAlgoIPv4LSP 36
XML structure 36
Table description 37
Columns 37
MPLS/TEv4LSP 40
XML structure 40
Table description 41
Columns 41
MPLS/SRv4LSP 44
XML structure 44
Table description 44
Columns 45
MPLS/StaticLSP 47
XML structure 47

Table description 47
Columns 48
MPLS/MPLSVRFs 50
XML structure 50
Table description 50
Columns 50
MPLS/TETunnelStatistics 51
XML structure 51
Table description 51
Columns 51
MPLS/TunnelForwarding 52
XML structure 52
Table description 53
Columns 53
MPLS/ILMForwarding 54
XML structure 54
Table description 54
Columns 54
MPLS/Labels 55
XML structure 55
Table description 56
Columns 56
MPLS/NHLFEForwardings 56
XML structure 56
Table description 57
Columns 57
MPLS/LSPStatistics 58
XML structure 58
Table description 58
Columns 59
MPLS/NIBs 59
XML structure 59
Table description 60
Columns 60
MPLS/NIDs 60
XML structure 60
Table description 61
Columns 61
MPLS/TunnelInfos 61
XML structure 61
Table description 62
Columns 62
MPLS/TunnelStatistics 62
XML structure 62
Table description 63
Columns 63
MPLS/MPLSVRFs 63
XML structure 63
Table description 64
Columns 64

MPLS

MPLS/Base

This table contains global MPLS information.

XML structure

```
<MPLS>
  <Base>
    <LSRID></LSRID>
    <StaticLabelMax></StaticLabelMax>
    <SupportGRE></SupportGRE>
    <SupportStaticSR></SupportStaticSR>
    <SRMaxLabelDepth></SRMaxLabelDepth>
    <CBTSStatInterval></CBTSStatInterval>
    <MPLSBFD></MPLSBFD>
    <FwdSplitHorizon></FwdSplitHorizon>
    <LabelAdvertise></LabelAdvertise>
    <TtlExpiration></TtlExpiration>
    <TtlPropagatePub></TtlPropagatePub>
    <TtlPropagateVPN></TtlPropagateVPN>
    <MbfdEnable></MbfdEnable>
    <TPNameMaxLen></TPNameMaxLen>
    <BandwidthBasedSharing></BandwidthBasedSharing>
  </Base>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSRID	The LSR ID	N/A	String, dotted decimal notation.	N/A
StaticLabelM	The max label	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ax	value for static lsp			
SupportGRE	Whether GRE feature is supported	N/A	Boolean: • **true**—Supported. • **false**—**Not supported**.	N/A
SupportStaticSR	Whether static segment routing with MPLS feature is supported	N/A	Boolean: • **true**—Supported. • **false**—**Not supported**.	N/A
SRMaxLabelDepth	The max. label stack depths for segment routing with MPLS	N/A	• Unsigned integer	N/A
CBTSStat Interval	The CBTS statistics collection interval in seconds	N/A	Unsigned short. Value range: 5~65535	Unit of time is second.
MPLSBFD	MPLS BFD global enable.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled	Some versions support MPLSBFD and some versions support MbfdEnable. For relevant information, see the XSD document of your product.
FwdSplitHorizon	Whether is enabled mpls forwarding split-horizon	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
LabelAdvertise	Specify the type of labels advertised by egress	N/A	Enumeration: • 0—Implicit-null. • 1—Explicit-null. • 2—Non-null.	N/A
TtlExpiration	Enable sending of ICMP time exceeded messages	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TtlPropagatePub	Propagate the Public TTL to and from the MPLS header	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TtlPropagateVPN	Propagate the VPN TTL to and from the MPLS header	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MbfdEnable	Enable MPLS BFD	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Some versions support MPLSBFD and some versions support MbfdEnable. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product.
TPNameMaxLen	Tunnel Policy Name Max Length	N/A	Unsigned integer	N/A
BandwidthBasedSharing	Enable MPLS bandwidth based sharing	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Support for this column depends on the device model.

MPLS/Interfaces

This table contains MPLS interface information.

XML structure

```
<MPLS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
      <Status></Status>
      <Mtu></Mtu>
    </Interface>
  </Interfaces>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Enable	Enable MPLS	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Status	Interface status	N/A	Enumeration: • 0—up. • 1—down.	N/A
Mtu	Specify the MPLS Maximum Transmission Unit (MTU)	N/A	Unsigned integer. Value range: 46 to 65535.	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```
<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>
      <PolicyName></PolicyName>
      <Default></Default>
      <Sequence>
        <Strict></Strict>
        <PrefLspType></PrefLspType>
        <LoadBalancingNum></LoadBalancingNum>
      </Sequence>
    </TunnelPolicy>
  </TunnelPolicies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelPolicies
Table type	Multi-instance table
Row name	TunnelPolicy
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the tunnel policy	Index	String. Length: 1 to 19 characters.	Some product 1 to 126 characters.
Default	The default tunnel policy	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Sequence	Tunnel selection setting	N/A	Member include: • PrefLspType. • LoadBalancingNum.	N/A
Strict	Using only one type of tunnels for load balancing	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
PrefLspType	Preferred tunnel type	N/A	Enumeration: • 0—LSP. • 1—GRE. • 2—CR-LSP. • 3—SR-LSP.	Up to 4 repeats are allowed for PrefLspType. Support for GRE depends on the device model.
LoadBalancingNum	Number of tunnels for Load balancing	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/PreferredTunnelPolicies

This table contains preferred tunnel information in a tunnel policy.

XML structure

```
<MPLS>
  <PreferredTunnelPolicies>
    <PreferredTunnelPolicy>
      <PolicyName></PolicyName>
      <TunnelType></TunnelType>
```

```
      <TunnelID></TunnelID>
      <PriorityLevel></PriorityLevel>
    </PreferredTunnelPolicy>
  </PreferredTunnelPolicies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	PreferredTunnelPolicies
Table type	Multi-instance table
Row name	PreferredTunnelPolicy
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters.	Some product 1 to 126 characters.
TunnelType	Preferred tunnel type.	Index	Enumeration: • 0—TUNNEL. • 1—TUNNEL-BUNDLE.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer.	A smaller number has a higher priority.

MPLS/LabelRanges

This table contains MPLS label ranges information.

XML structure

```
<MPLS>
  <LabelRanges>
    <ProtocolType></ProtocolType>
    <MinLabel></MinLabel>
    <MaxLabel></MaxLabel>
  </LabelRanges>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LabelRanges
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol Type.	N/A	Enumeration: • 0—STATIC.	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A

MPLS/LabelSegments

This table contains MPLS label segments information.

XML structure

```
<MPLS>
  <LabelSegments>
    <LabelSegment>
      <ProtocolType></ProtocolType>
      <MinLabel></MinLabel>
      <MaxLabel></MaxLabel>
    </LabelSegment>
  </LabelSegments>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS

Table name	LabelSegments
Table type	Multi-instance table
Row name	LabelSegment
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol Type.	Index	Enumeration: • 0—STATIC. • 1—EGRESS. • 2—DYNAMIC • 3—L3VPN • 4—VPWS • 5—VPLS • 6—SRGB • 7—SRLB • 8—VPN	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. • The value range varies by device model.	N/A

MPLS/SegmentRouting

This table contains segment routing label block infomation.

XML structure

```
<MPLS>
  <SegmentRouting>
    <GlobalSRGB>
      <Lowerbound></Lowerbound>
      <Upperbound></Upperbound>
    </GlobalSRGB>
    <SRLB>
      <Lowerbound></Lowerbound>
      <Upperbound></Upperbound>
    </SRLB>
  </SegmentRouting>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	SegmentRouting
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalSRGB	Global SRGB configuration.	N/A	Members include: • Lowerbound • Upperbound	N/A
SRLB	SR Local Block configuration.	N/A	Members include: • Lowerbound • Upperbound	N/A
Lowerbound	Lower bound of the label block.	N/A	Unsigned integer. The value range varies by device model.	N/A
Upperbound	Upper bound of the label block.	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/TunnelMbfds

This table contains MBFD tunnel LSP information.

XML structure

```
<MPLS>
  <TunnelMbfds>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Echo></Echo>
      <Template></Template>
      <Backup></Backup>
      <BackupTemplate></BackupTemplate>
      <SRLspBfdState></SRLspBfdState>
      <BackupSRLspBfdState></BackupSRLspBfdState>
```

```
      <Seamless></Seamless>
      <ReverseLabel></ReverseLabel>
      <SourceIP></SourceIP>
    </TunnelMbfd>
  </TunnelMbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Echo	Echo style of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	This template also applies to the backup LSP if no template is specified for the backup LSP.
Backup	Enable MBFD for backup LSP	N/A	Boolean: • **true**—Enabled. **false—**Disabled.	N/A
BackupTemplate	MBFD session parameter tempate for the	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	backup LSP			
SRLspBfdState	MBFD session state for the primary SRLSP	N/A	Boolean: • **true**—Up. • **false—**Down.	N/A
BackupSRLspBfdState	MBFD session state for the backup SRLSP	N/A	Boolean: • **true**—Up. • **false—**Down.	N/A
Seamless	Enable SBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
ReverseLabel	Reverse Label	N/A	Unsigned integer. Value range: 16 to 1048575	
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/Tunnelbfds

This table contains BFD tunnel interface information.

XML structure

```
<MPLS>
  <Tunnelbfds>
    <Tunnelbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Echo></Echo>
      <Template></Template>
      <TunnelBfdState></TunnelBfdState>
      <Seamless></Seamless>
      <ReverseLabel></ReverseLabel>
      <SourceIP></SourceIP>
    </Tunnelbfd>
  </Tunnelbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS

Table name	Tunnelbfds
Table type	Multi-instance table
Row name	Tunnelbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	
Echo	Echo style of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate,the tempate also apply to backup LSP.
TunnelBfdState	The state of tunnel bfd	N/A	Boolean: • **true**—Up. • **false—**Down.	N/A
Seamless	Enable SBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
ReverseLabel	Reverse Label	N/A	Unsigned integer. Value range: 16 to 1048575	
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/TunnelSbfds

This table contains SBFD Tunnel interface information.

XML structure

```
<MPLS>
  <TunnelSbfds>
    <TunnelSbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
      <BackupTemplate></BackupTemplate>
      <SourceIP></SourceIP>
    </TunnelSbfd>
  </TunnelSbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	this column must be specified if SBFD set be true.
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate,the tempate also apply to backup LSP.
BackupTemplate	The MBFD parameter of backup LSP	N/A	String. Length: 1 to 63 characters.	N/A
SourceIP	Source IP	N/A	String, dotted decimal notation.	If this column is

Column name	Column description	Column type	Data type and restrictions	Remarks
	address			not available, the table uses LSR ID as Source IP address.

MPLS/TunnelBfdPara

This table contains BFD and SBFD information on a tunnel interface.

XML structure

```
<MPLS>
  <TunnelBfdParas>
    <TunnelBfdPara>
      <TunnelID></TunnelID>
      <BfdMinTx></BfdMinTx>
      <BfdMinRx></BfdMinRx>
      <BfdDetectMultiplier></BfdDetectMultiplier>
    </TunnelBfdPara>
  </TunnelBfdParas>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfds
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
BfdMinTx	The minimum interval for transmitting BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdMinRx	The minimum interval for receiving BFD	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets			
BfdDetectMultiplier	The detection time multiplier	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.

MPLS/TunnelTBfdPara

This table contains Tunnel-BFD and Tunnel-SBFD information on a tunnel interface.

XML structure

```
<MPLS>
  <TunnelTBfdParas>
    <TunnelTBfdPara>
      <TunnelID></TunnelID>
      <BfdMinTx></BfdMinTx>
      <BfdMinRx></BfdMinRx>
      <BfdDetectMultiplier></BfdDetectMultiplier>
    </TunnelTBfdPara>
  </TunnelTBfdParas>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelTBfdParas
Table type	Multi-instance table
Row name	TunnelTBfdPara
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
BfdMinTx	The minimum interval for transmitting BFD packets	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.
BfdMinRx	The minimum interval for	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device

Column name	Column description	Column type	Data type and restrictions	Remarks
	receiving BFD packets			model.
BfdDetectMultiplier	The detection time multiplier	N/A	Unsigned integer. Value range: 1 to 4294967295.	The value range varies by device model.

MPLS/Mbfds

This table contains MBFD LSP information.

XML structure

```
<MPLS>
  <Mbfds>
    <Mbfd>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
      <Nexthop></Nexthop>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
      <NilFec></NilFec>
      <LdpFec></LdpFec>
      <Echo></Echo>
      <Seamless></Seamless>
      <LspType></LspType>
      <SourceIP></SourceIP>
    </Mbfd>
  </Mbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Mbfds
Table type	Multi-instance table
Row name	Mbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	FEC destination address.	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLength	Mask length of the FEC destination address.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop address.	Index	String, dotted decimal notation.	N/A
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	The value range varies by device model.
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	N/A
NilFec	Support MPLS echo packets with Nil FEC type	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LdpFec	Support MPLS echo packets with LDP IPv4 Prefix	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Echo	Echo mode of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Seamleass	Enable seamless BFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LspType	LSP type	N/A	Enumeration: • 0—Static • 1—LDP • 2—BGP • 3—OSPF • 4—ISIS	N/A
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/LspTbfds

This table contains LSP tunnel BFD information.

XML structure

```
<MPLS>
  <LspTbfds>
    <LspTbfd>
     <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
      <Template></Template>
      <NilFec></NilFec>
      <LdpFec></LdpFec>
      <Echo></Echo>
      <LspType></LspType>
      <SourceIP></SourceIP>
    </LspTbfd>
  </LspTbfds>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LspTbfds
Table type	Multi-instance table
Row name	LspTbfd
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	FEC destination address.	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	Mask length of the FEC destination address.	Index	Unsigned integer. Value range: 0 to 32.	N/A
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	NA

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	N/A
NilFec	Support MPLS echo packets with LDP IPv4 Prefix	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LdpFec	Support MPLS echo packets with Nil FEC type	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Echo	Echo style of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LspType	LSP Type	N/A	Enumeration: • 0—STATIC. • 1—LDP • 2—BGP • 3—OSPF • 4—ISIS	N/A
SourceIP	Source IP address	N/A	String, dotted decimal notation.	If this column is not available, the table uses LSR ID as Source IP address.

MPLS/MbfdSessions

This table contains MBFD sessions information.

XML structure

```
<MPLS>
  <MbfdSessions>
    <MbfdSession>
      <SessionIndex></SessionIndex>
      <FecType></FecType>
      <LSP>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLenth></Ipv4PrefixLenth>
      </LSP>
      <TE>
        <TunnelID></TunnelID>
        <LspID></LspID>
```

```
      <TunnelSource></TunnelSource>
      <TunnelDestination></TunnelDestination>
    </TE>
    <SRPrefix>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLenth></Ipv4PrefixLenth>
      <Protocol></Protocol>
    </SRPrefix>
    <SRADJ>
      <LocalIFID></LocalIFID>
      <Protocol></Protocol>
    </SRADJ>
    <SRPolicy>
      <Name></Name>
      <Color></Color>
      <EndPoint></EndPoint>
    </SRPolicy>
    <NHLFEID></NHLFEID>
    <LocalDiscriminator></LocalDiscriminator>
    <RemoteDiscriminator></RemoteDiscriminator>
    <SourceIP></SourceIP>
    <DestinationIP></DestinationIP>
    <SessionState></SessionState>
    <SessionRole></SessionRole>
    <Template></Template>
    <Echo></Echo>
    <Seamless></Seamless>
  </MbfdSession>
 </MbfdSessions>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	MbfdSessions
Table type	Multi-instance table
Row name	MbfdSession
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionIndex	BFD session index	Index	Unsigned interger.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FecType	FEC type	N/A	Enumeration: • 0—LSP • 1—TE • 2—SRPrefix • 3—SRADJ • 4—SRPolicy	N/A
LSP	Label Switched Path information	N/A	Members include: • Ipv4Address • Ipv4PrefixLenth	N/A
TE	Traffic Engineering information	N/A	Members include: • TunnelID • LspId • TunnelSource • TunnelDestination	N/A
TunnelId	Tunnel ID	N/A	Unsigned short.	N/A
LspId	LSP ID	N/A	Unsigned short.	N/A
TunnelSource	Tunnel source address	N/A	String, dotted decimal notation.	N/A
TunnelDestination	Tunnel destination address	N/A	String, dotted decimal notation.	N/A
SRPrefix	IGP prefix	N/A	Members include: • Ipv4Address • Ipv4PrefixLenth • Protocol	N/A
Protocol	IGP prefix protocol	N/A	Enumeration: • 0—Any. • 1—OSPF • 2—ISIS	N/A
SRADJ	Segment routing adjacent	N/A	Members include: • LocalIFIP • Protocol	N/A
LocalIFID	Local interface ID	N/A	Unsigned short.	N/A
Protocol	Segment routing adjacent Protocol	N/A	Unsigned char.	N/A
Ipv4Address	FEC destination address	N/A	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	Mask length of the FEC destination address	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SRPolicy	Segment Routing policy information	N/A	Enumeration: • Name • Color	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• EndPoint	
Name	Policy name	N/A	String. Length: 1 to 59 characters.	N/A
Color	Color value	N/A	Unsigned integer.	N/A
EndPoint	Policy End-point address	N/A	String, dotted decimal notation	N/A
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
LocalDiscriminator	Local discriminator of the MBFD session	N/A	Unsigned integer.	NA
RemoteDiscriminator	Remote discriminator of the MBFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
SourceIP	Source IP address of the BFD session	N/A	String, dotted decimal notation.	N/A
DestinationIP	Destination IP address of the BFD session	N/A	String, dotted decimal notation.	N/A
SessionState	State of the BFD session	N/A	Members include: • 0—Init • 1—Down • 2—Up	N/A
SessionRole	The role of the BFD session	N/A	Members include: • **true**—Active • **false—**Passive	N/A
Template	MBFD session parameter template for the primary LSP	N/A	String. Length: 1 to 63 characters.	N/A
Echo	Echo mode of MBFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Seamleass	Enable seamless BFD	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

MPLS/Statistics

This table contains MPLS statistics information.

XML structure

```
<MPLS>
  <Statistics>
    <All></All>
    <Interval></Interval>
    <Static></Static>
  </Statistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Statistics
Table type	Single-instance table
Row name	None
Restrictions	Enable MPLS statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
All	Specify all LSPs.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
Interval	Set the statistics collection interval.	N/A	Unsigned integer. Value range: 30 to 65535.	N/A
Static	Specify static LSPs.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

MPLS/VrfStatistics

This table contains MPLS statistics information.

XML structure

```
<MPLS>
  <VrfStatistics>
    <VrfStatistic>
      <VrfName></VrfName>
      <Ipv4Prefixs></Ipv4Prefixs>
    </VrfStatistic>
```

```
  </VrfStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	VrfStatistics
Table type	Multi-instance table
Row name	VrfStatistic
Restrictions	Enable MPLS statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	The name of Vpn Instance.	Index	String. Length: 1 to 31 characters.	N/A
Ipv4Prefixs	The ipv4 statistics information.	Sublist	NA	NA

MPLS/VrfStatistics/VrfStatistic/Ipv4Prefixs

This table contains MPLS ipv4 statistics information.

XML structure

```
<Ipv4Prefixs>
  <Ipv4Prefix>
    <Ipv4Address></Ipv4Address>
    <Ipv4PrefixLenth></Ipv4PrefixLenth>
  </Ipv4Prefix>
</Ipv4Prefixs>
```

Table description

Item	Description
Feature name	MPLS
Table name	Ipv4Prefixs
Table type	Multi-instance table
Row name	Ipv4Prefixs
Restrictions	Enable MPLS statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 LSP prefix address	N/A	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	N/A	Unsigned integer. Value range: 0 to 32.	N/A

MPLS/TeStatistics

This table contains tunnel statistics information.

XML structure

```
<MPLS>
  <TeStatistics>
    <TeStatistic>
      <LsrID></LsrID>
      <TunnelID></TunnelID>
    </TeStatistic>
  </TeStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TeStatistics
Table type	Multi-instance table
Row name	TeStatistic
Restrictions	Enable Tunnel statistics collection.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LsrID	Ingress LSR ID of the tunnel..	Index	String, dotted decimal notation.	N/A
TunnelID	MPLS TE tunnel ID.	Index	Unsigned integer.	N/A

MPLS/StaticEgressLSPs

This table contains static egress LSP information.

XML structure

```
<MPLS>
  <StaticEgressLSPs>
    <StaticEgressLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
    </StaticEgressLSP>
  </StaticEgressLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticEgressLSPs
Table type	Multi-instance table
Row name	StaticEgressLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/StaticIngressLSPs

This table contains static ingress LSP information.

XML structure

```
<MPLS>
  <StaticIngressLSPs>
    <StaticIngressLSP>
      <LSPName></LSPName>
```

```
      <OutLabel></OutLabel>
      <DestAddress></DestAddress>
      <DestWildcardMask></DestWildcardMask>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
    </StaticIngressLSP>
  </StaticIngressLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticIngressLSPs
Table type	Multi-instance table
Row name	StaticIngressLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	N/A
DestAddress	IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestWildcardMas k must also be specified.
DestWildcard Mask	Mask of the IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestAddress must also be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	N/A
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A

MPLS/StaticTransitLSPs

This table contains static transit LSP information.

XML structure

```
<MPLS>
  <StaticTransitLSPs>
    <StaticTransitLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
    </StaticTransitLSP>
  </StaticTransitLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticTransitLSPs
Table type	Multi-instance table
Row name	StaticTransitLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	N/A
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A

MPLS/StaticSRLSPs

This table contains static segment routing LSP information.

XML structure

```
<MPLS>
  <StaticSRLSPs>
    <StaticSRLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
    </StaticSRLSP>
  </StaticSRLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRLSPs
Table type	Multi-instance table
Row name	StaticSRLSP
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static segment routing LSP.	Index	String. Length: 1 to 15 characters.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/StaticSRAdjacencies

This table contains static segment routing adjacency information.

XML structure

```
<MPLS>
  <StaticSRAdjacencies>
    <StaticSRAdjacency>
      <AdjName></AdjName>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
    </StaticSRAdjacency>
  </StaticSRAdjacencies>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRAdjacencies
Table type	Multi-instance table
Row name	StaticSRAdjacency
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdjName	Name of static segment routing adjacency.	Index	String. Length: 1 to 15 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InLabel	Adjacency incoming label	N/A	Unsigned integer.	This column must be specified.
NextHop	Adjacency next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Adjacency outgoing interface index	N/A	Unsigned integer.	One and only one of this column and NextHop must be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OutIfName	Adjacency outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A

MPLS/StaticSRPrefixs

This table contains static segment routing prefix information.

XML structure

```
<MPLS>
  <StaticSRPrefixs>
    <StaticSRPrefix>
      <PrefixName></PrefixName>
      <DestAddress></DestAddress>
      <DestMask></DestMask>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <OutLabel></OutLabel>
    </StaticSRPrefix>
  </StaticSRPrefixs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRPrefixs
Table type	Multi-instance table
Row name	StaticSRPrefix
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Name of static segment routing Prefix.	Index	String. Length: 1 to 15 characters.	N/A
DestAddress	IPv4 prefix destination address	Index	String, dotted decimal notation.	N/A
DestMask	Prefix destination address mask	Index	Unsigned integer.	N/A
InLabel	Prefix incoming label	Index	Unsigned integer.	N/A
NextHop	Prefix next hop address	Index	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Prefix outgoing interface index	Index	Unsigned integer.	One and only one of this column or NextHop must be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OutIfName	Prefix outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
OutLabel	Prefix outgoing label	N/A	Unsigned integer.	This column must be specified, and repetitions are not

Column name	Column description	Column type	Data type and restrictions	Remarks
				allowed for this column.

MPLS/IPv4LSP

This table contains IPv4 LSP information.

XML structure

```
<MPLS>
  <IPv4LSP>
    <LSP>
      <Protocol></Protocol>
      <VrfIndex></VrfIndex>
      <Ipv4Prefix>
        <Ipv4Address/>
        <Ipv4PrefixLenth/>
      </Ipv4Prefix>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
      <VrfName></VrfName>
    </LSP>
  </IPv4LSP>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	IPv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: • **0**—Unknown. • **1**—Static LSP. • **3**—LDP. • **5**—MP-BGP. • **6**—ISIS. • **7**—OSPF.	N/A
VrfIndex	Index of the VRF to which an IPv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Ipv4Prefix	IPv4 LSP prefix	Index, data structure	Members include: • Ipv4Address. • Ipv4PrefixLenth.	N/A
Ipv4Address	IPv4 LSP prefix address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	Index	Unsigned integer. Value range: 1 to 32.	N/A
LSRType	LSR type	Index	Enumeration: • **0**—Ingress. • **1**—Transit. • **2**—Egress.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. • Inbound ID: 0. • Outbound ID: 1 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				255.
InfoType	LSP information type	N/A	Enumeration: • **0**—Inbound information. • **1**—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. Backup LSP outbound

Column name	Column description	Column type	Data type and restrictions	Remarks
				information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutIfName	Backup LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	the statistics always return 0
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VrfName	The name of Vpn Instance.	N/A	String. Length: 1 to 31 characters.	N/A

MPLS/FlexAlgoIPv4LSP

This table contains Flex-Algo IPv4 LSP information.

XML structure

```
<MPLS>
  <FlexAlgoIPv4LSP>
    <LSP>
      <Protocol></Protocol>
      <VrfIndex></VrfIndex>
      <Ipv4Prefix>
        <Ipv4Address/>
        <Ipv4PrefixLenth/>
      </Ipv4Prefix>
```

```
      <FlexAlgo></FlexAlgo>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
      <VrfName></VrfName>
    </LSP>
  </FlexAlgoIPv4LSP>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	IPv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: • **0**—Unknown. • **6**—ISIS.	N/A
VrfIndex	Index of the VRF to which an IPv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				“Appendix” in L3vpn NETCONF XML API Data Reference.
Ipv4Prefix	IPv4 LSP prefix	Index, data structure	Members include: • Ipv4Address. • Ipv4PrefixLenth.	N/A
FlexAlgo	Flexible Algorithm	Index	Unsigned integer. Value range: 128 to 255.	N/A
Ipv4Address	IPv4 LSP prefix address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	Index	Unsigned integer. Value range: 1 to 32.	N/A
LSRType	LSR type	Index	Enumeration: • **0**—Ingress. • **1**—Transit. • **2**—Egress.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. • Inbound ID: 0. • Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: • **0**—Inbound information. • **1**—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutIfName	Backup LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	the statistics always return 0
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Errors	Number of error	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		Value range: 0 to 2^{64} - 1.	
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VrfName	The name of Vpn Instance.	N/A	String. Length: 1 to 31 characters.	N/A

MPLS/TEv4LSP

This table contains IPv4 MPLS TE LSP information.

XML structure

```
<MPLS>
  <TEv4LSP>
    <LSP>
      <Protocol></Protocol>
      <VrfIndex></VrfIndex>     <SrcAddress></SrcAddress>
      <DestAddress></DestAddress>
      <TunnelID></TunnelID>
      <LSPID></LSPID>
      <Direction></Direction>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
      <VrfName></VrfName>
    </LSP>
```

```
  </TEv4LSP>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TEv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: • **0**—Unknown. • **2**—Static CRLSP. • **4**—RSVP.	N/A
VrfIndex	Index of the VRF to which a TEv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
SrcAddress	TEv4 LSP source address	Index	String, dotted decimal notation.	N/A
DestAddress	TEv4 LSP destination address	Index	String, dotted decimal notation.	N/A
TunnelID	TEv4 LSP tunnel ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
LSPID	TEv4 LSP ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Direction	TEv4 LSP direction	Index	Enumeration: • **0**—Unidirectional tunnel. • **1**—Forward LSP for a bidirectional tunnel. • **2**—Backward LSP for a bidirectional	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			tunnel.	
LSRType	LSR type	Index	Enumeration: • **0**—Ingress. • **1**—Transit. • **2**—Egress.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. • Inbound ID: 0. • Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: • **0**—Inbound information. • **1**—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutIfName	Backup LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	the statistics always return 0
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VrfName	The name of Vpn Instance.	N/A	String. Length: 1 to 31 characters.	N/A

MPLS/SRv4LSP

This table contains IPv4 MPLS SRTE LSP information.

XML structure

```
<MPLS>
  <SRv4LSP>
    <LSP>
      <VrfIndex></VrfIndex>
      <SrcAddress></SrcAddress>
      <TunnelID></TunnelID>
      <LSPID></LSPID>
      <ID></ID>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
    </LSP>
  </SRv4LSP>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	SRv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF to which a SRv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
SrcAddress	SRv4 LSP source address	Index	String, dotted decimal notation.	N/A
TunnelID	SRv4 LSP tunnel ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
LSPID	SRv4 LSP ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. • Inbound ID: 0. • Outbound ID: 1 to 255.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
OutIfName	LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains

Column name	Column description	Column type	Data type and restrictions	Remarks
				NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutIfName	Backup LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} -	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1.	

MPLS/StaticLSP

This table contains static LSP and static CRLSP information.

XML structure

```
<MPLS>
  <StaticLSP>
    <LSP>
      <Protocol></Protocol>
      <LspIndex></LspIndex>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
    </LSP>
  </StaticLSP>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticLSP
Table type	Multi-instance table
Row name	LSP
Restrictions	This table contains LSP information on the transit node and egress

	node. Static LSP information on the ingress node is stored in the IPv4LSP table. Static CRLSP information on the ingress node is stored in the TEv4LSP table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: • **0**—Unknown. • **1**—Static LSP.	N/A
LspIndex	Static LSP index	Index	Unsigned integer. Length: 32 bits.	Typically, this column represents static LSP incoming label.
LSRType	LSR type	Index	Enumeration: • **1**—Transit. • **2**—Egress.	Static LSP queries of the address type are no longer supported, IPv6 4lsp supports query.
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. • Inbound ID: 0. • Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: • **0**—Inbound information. • **1**—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
OutIfName	LSP outgoing	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface name		Length: 2 to 47 characters.	
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutIfName	Backup LSP outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	the statistics always return 0
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MPLS/MPLSVRFs

This table contains MPLS VRF information.

XML structure

```
<MPLS>
  <MPLSVRFs>
    <MPLSVRF>
      <VRF></VRF>
      <Statistics></Statistics>
    </MPLSVRF>
  </MPLSVRFs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	MPLSVRFs
Table type	Multi-instance table
Row name	MPLSVRF
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Statistics	Whether statistics is enabled for the VRF	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

MPLS/TETunnelStatistics

This table contains TE tunnel statistics information.

XML structure

```
<MPLS>
  <TETunnelStatistics>
    <TETunnelStatistic>
      <TunnelID></TunnelID>
      <ServiceClass></ServiceClass>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
      <Systime></Systime>
    </TETunnelStatistic>
  </TETunnelStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TETunnelStatistics
Table type	Multi-instance table
Row name	TETunnelStatistics
Restrictions	This table contains TE tunnel statistics information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	The tunnel interface number
ServiceClass	The service class statistics of the MPLS TE tunnel interface.	Index	Unsigned integer. The value range varies by device model.	When service class no set, get all statistics of the TE tunnel. Service class 255 means the lowest priority class, also the default class of the TE tunnel.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	The statistics return as server-class

Column name	Column description	Column type	Data type and restrictions	Remarks
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	The statistics return as total
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Systime	Time that elapsed after the device started up, in milliseconds	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MPLS/TunnelForwarding

This table contains tunnel forwarding information.

XML structure

```
<MPLS>
  <TunnelForwardings>
  <TunnelForwarding>
    <TunnelNum></TunnelNum>
    <OutInfo>
      <ID></ID>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <OutLabel></OutLabel>
      <Active></Active>
    </OutInfo>
    <BackupOutIfName></BackupOutIfName>
    <BackupNextHop></BackupNextHop>
    <BackupOutLabel></BackupOutLabel>
    <BackupActive></BackupActive>
  </TunnelForwarding>
  </TunnelForwardings>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelForwardings
Table type	Multi-instance table
Row name	TunnelForwarding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNum	Tunnel number	Index	Unsigned integer.	N/A
OutInfo	Outbound information	Data structure	Members include: • ID. • OutIfName. • NextHop. • OutLabel. • Active.	N/A
ID	Out information ID	N/A	Unsigned integer. Value range: 0 to 2.	N/A
OutIfName	Outgoing interface name	N/A	String.	Outbound information contains this column.
NextHop	Next hop address	N/A	String, dotted decimal notation.	Outbound information contains this column.
OutLabel	Outgoing label	N/A	Unsigned integer.	Outbound information contains this column.
Active	State of forwarding infomation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
BackupOutIfName	Backup outgoing interface name	N/A	String.	Backup outbound information contains this column.
BackupNextHop	Backup next hop address	N/A	String, dotted decimal notation.	Backup outbound information contains this column.
BackupOutLabel	Backup outgoing label	N/A	Unsigned integer.	Backup outbound information contains this column.
BackupActive	State of the backup forwarding infomation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

MPLS/ILMForwarding

This table contains ILM forwarding information.

XML structure

```
<MPLS>
  <ILMForwardings>
  <ILMForwarding>
    <Label></Label>
    <OutInfo>
      <ID></ID>
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <OutLabel></OutLabel>
      <Active></Active>
    </OutInfo>
    <BackupOutIfName></BackupOutIfName>
    <BackupNextHop></BackupNextHop>
    <BackupOutLabel></BackupOutLabel>
    <BackupActive></BackupActive>
    <Operation></Operation>
  </ILMForwarding>
  </ILMForwardings>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	ILMForwardings
Table type	Multi-instance table
Row name	ILMForwarding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Label	Label index	Index	Unsigned integer.	N/A
OutInfo	Outbound information	Data structure	Members include: • ID. • OutIfName. • NextHop. • OutLabel.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Active.	
ID	Out Information ID	N/A	Unsigned integer.	The value range varies by device model.
OutIfName	Outgoing interface name	N/A	String.	Outbound information contains this column.
NextHop	Next hop address	N/A	String, dotted decimal notation.	Outbound information contains this column.
OutLabel	Outgoing label	N/A	Unsigned integer.	Outbound information contains this column.
Active	State of forwarding infomation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
BackupOutIfName	Backup outgoing interface name	N/A	String.	Backup outbound information contains this column.
BackupNextHop	Backup next hop address	N/A	String, dotted decimal notation.	Backup outbound information contains this column.
BackupOutLabel	Backup outgoing label	N/A	Unsigned integer.	Backup outbound information contains this column.
BackupActive	State of the backup forwarding infomation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Operation	Operation type	N/A	Enumeration: • 0—POP. • 1—SWAP. • 2—INVALID.	N/A

MPLS/Labels

This table contains MPLS label information.

XML structure

```
<MPLS>
  <Labels>
    <Label>
      <LabelValue></LabelValue>
      <State></State>
      <Owner></Owner>
    </Label>
  </Labels>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Labels
Table type	Multi-instance table
Row name	Label
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LabelValue	Label value	Index	Unsigned integer.	N/A
State	Label state	Index	Enumeration: • 0—Idle. • 1—Alloc. • 2—Pending. • 3—Inuse.	N/A
Owner	The owner of the label	N/A	Enumeration: • 0— -. • 1—Static. • 2—LDP. • 3—BGP. • 4—StaticCR. • 5—RSVP. • 6—L2VPN. • 7—SR. • 8—SRPolicy. • 9—OSPF. • 10—ISIS. • 11—SRTETunnel	The label is not allocated when the “Owner” is “-“.

MPLS/NHLFEForwardings

This table contains mpls NHLFE forwarding information.

XML structure

```
<MPLS>
  <NHLFEForwardings>
    <NHLFEForwarding>
      <NHLFEID></NHLFEID>
      <OutInfo>
        <ID></ID>
```

```
      <OutIfName></OutIfName>
      <NextHop></NextHop>
      <OutLabel></OutLabel>
      <Active></Active>
    </OutInfo>
    <BackupOutIfName></BackupOutIfName>
    <BackupNextHop></BackupNextHop>
    <BackupOutLabel></BackupOutLabel>
    <BackupActive></BackupActive>
  </NHLFEForwarding>
 </NHLFEForwardings>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	NHLFEForwardings
Table type	Multi-instance table
Row name	NHLFEForwarding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NHLFEID	NHLFE ID.	Index	Unsigned integer.	N/A
OutInfo	Outbound information	Data structure	Members include: • ID. • OutIfName. • NextHop. • OutLabel. • Active.	N/A
ID	Out information ID	N/A	Unsigned integer. Value range: 0 to 2.	N/A
OutIfName	Outgoing interface name	N/A	String. Length: 2 to 47 characters.	NHLFE outbound information contains outgoing interface and next hop.
NextHop	Next hop address	N/A	String, dotted decimal notation.	NHLFE outbound information contains outgoing interface and next hop.
OutLabel	Outgoing label	N/A	Unsigned integer.	This column allows repeat.

Active	Selected or unselected forwarding path	N/A	Boolean: • **true**—Selected path. • **false**—Unselected path.	N/A
BackupOutIfName	Backup outgoing interface name	N/A	String. • Length: 2 to 47 characters.	Backup outbound information contains outgoing interface and next hop.
BackupNextHop	Backup next hop address	N/A	String, dotted decimal notation.	Backup outbound information contains outgoing interface and next hop.
BackupOutLabel	Backup outgoing label	N/A	Unsigned integer.	This column allows repeat.
BackupActive	State of the backup forwarding infomation	N/A	Boolean: • **true**—Selected path. • **false**—Unselected path.	N/A

MPLS/LSPStatistics

This table contains MPLS LSP statistics information.

XML structure

```
<MPLS>
  <LSPStatistics>
    <LSPStatistic>
      <LSPType></LSPType>
      <IngressLSP></IngressLSP>
      <EgressLSP></EgressLSP>
      <TransitLSP></TransitLSP>
    </LSPStatistic>
  </LSPStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LSPStatistics
Table type	Multi-instance table
Row name	LSPStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPType	LSP type	Index	Enumeration: • 0—Total LSP. • 1—Static LSP. • 2—Static CRLSP. • 3—LDP LSP. • 4—RSVP CRLSP. • 5—BGP LSP. • 6—Local LSP. • 7—ISIS LSP. • 8—OSPF LSP. • 9—SR LSP. • 10—SR Policy LSP	N/A
IngressLSP	Number of ingress LSP	N/A	Unsigned integer.	N/A
EgressLSP	Number of egressLSP	N/A	Unsigned integer.	N/A
TransitLSP	Number of transitLSP	N/A	Unsigned integer.	N/A

MPLS/NIBs

This table contains MPLS nexthop information.

XML structure

```
<MPLS>
  <NIBs>
    <NIB>
      <NIBID></NIBID>
      <UserCount></UserCount>
      <Status></Status>
      <ECMPNumber></ECMPNumber>
      <OutInfo>
          <ID></ID>
          <NHLFEID></NHLFEID>
          <BackupNHLFEID></BackupNHLFEID>
      </OutInfo>
    </NIB>
  </NIBs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	NIBs
Table type	Multi-instance table
Row name	NIB
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NIBID	MPLS nexthop index	Index	Hexadecimal string.	N/A
UserCount	The ILM item numbers which refer to the NIBID	N/A	Unsigned integer.	N/A
Status	MPLS nexthop status	N/A	Enumeration: • 0—Dummy. • 1—Active.	N/A
ECMPNumber	Number of MPLS nexthops	N/A	Unsigned integer.	N/A
OutInfo	Nexthop infomations	Data structure	Members include: • ID. • NHLFEID. • BackupNHLFEID.	N/A
ID	Outbound information ID	N/A	Unsigned integer. Value range: 0 to 255.	An NHLFE can have multiple rows for outbound information. Each row has an ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	N/A
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	N/A

MPLS/NIDs

This table contains mpls nhlfe ID information.

XML structure

```
<MPLS>
```

```
  <NIDs>
    <NID>
      <NHLFEID></NHLFEID>
      <Status></Status>
    </NID>
  </NIDs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	NIDs
Table type	Multi-instance table
Row name	NID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NHLFEID	NHLFE ID.	Index	Unsigned integer.	N/A
Status	NHLFE status	N/A	Enumeration: • 0—Not used. • 1—Used.	N/A

MPLS/TunnelInfos

This table contains mpls tunnel information.

XML structure

```
<MPLS>
  <TunnelInfos>
    <TunnelInfo>
      <VrfName></VrfName>
      <Destination></Destination>
      <Tunnels>
        <Type></Type>
        <TunnelNHLFE></TunnelNHLFE>
      </Tunnels>
    </TunnelInfo>
  </TunnelInfos>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelInfos
Table type	Multi-instance table
Row name	TunnelInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Vrf Name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Destination	Tunnel destination address.	Index	String, dotted decimal notation.	N/A
Type	Tunnel type.	N/A	Enumeration: • 0—LSP. • 1—GRE. • 2—CRLSP • 3—SRLSP • 4—DEFAULT • 5—SRPolicy • 6—SRPGroup	N/A
TunnelNHLFE	Tunnel ID or NHLFE ID.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

MPLS/TunnelStatistics

This table contains mpls tunnel statistics information.

XML structure

```
<MPLS>
  <TunnelStatistics>
    <LSP></LSP>
    <GRE></GRE>
    <CRLSP></CRLSP>
    <SRLSP></SRLSP>
    <SRPolicy></SRPolicy>
    <SRPGroup></SRPGroup>
```

```
  </TunnelStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelStatistics
Table type	Single-instance table
Row name	None
Restrictions	This table display mpls tunnel Statistics information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSP	LSP tunnel count.	N/A	Unsigned integer.	N/A
GRE	GRE tunnel count.	N/A	Unsigned integer.	N/A
CRLSP	CRLSP tunnel count.	N/A	Unsigned integer.	N/A
SRLSP	SRLSP tunnel count.	N/A	Unsigned integer.	N/A
SRPolicy	SRPolicy tunnel count.	N/A	Unsigned integer.	N/A
SRPGroup	SRPGroup tunnel count.	N/A	Unsigned integer.	N/A

MPLS/MPLSVRFs

This table contains MPLS VRF information.

XML structure

```
<MPLS>
  <MPLSVRFs>
    <MPLSVRF>
      <VRF></VRF>
      <Statistics></Statistics>
    </MPLSVRF>
  </MPLSVRFs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	MPLSVRFs
Table type	Multi-instance table
Row name	MPLSVRF
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Statistics	Whether statistics is enabled for the VRF	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	Support for this column depends on the device model.

Comware 7 LSM NETCONF XML API Error Message Reference

MPLS/IPV4_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/IPV4_LSP table information. 请在获取IPV4_LSP表之前启动LSM进程。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能已被占用。

MPLS/TEV4_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/TEV4_LSP table information. 请在获取TEV4_LSP表之前启动LSM进程。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能已被占用。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/STATIC_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Static_LSP table information. 请在获取Static_LSP表之前启动LSM进程。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能已被占用。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/Base

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Base table information. 请在获取Base表之前启动LSM进程。

MPLS/Interfaces

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Interfaces table information. 请在获取Interfaces表之前启动LSM进程。

MPLS /TunnelPolicies

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/TunnelPolicies table information. 请在获取TunnelPolicies表之前启动LSM进程。
Both the tunnel selection order and the number of tunnels for load balancing are required. 请配置配置隧道的选择顺序和负载分担的隧道数目。	Please configure the tunnel selection order and the number of tunnels for load balancing at the same time. 请同时配置隧道的选择顺序和负载分担的隧道数目。
Can't specify duplicate tunnel types for tunnel selection. 隧道类型的优先级顺序不允许出现重复类型。	Tunnel types for tunnel selection must be unique. 隧道类型的优先级顺序必须唯一。
无效的隧道/捆绑隧道 ID The TunnelID is invalid.	The tunnel that preferred path configured must be valid. 优选隧道引用的隧道必须是有效的。
The PolicyName is invalid. 无效的隧道/捆绑隧道 名称。	The PolicyName length must be between 0 to 20. 隧道名称有效长度范围必须在0-20。
The TunnelType is invalid.无效的隧道/捆绑隧道类型	The TunnelType must be tunnel or tunnel-bundle. 隧道类型必须是tunnel 或者tunnel-bundle。

MPLS/StaticEgressLSPs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticEgressLSPs table information. 请在获取StaticEgressLSPs表之前启动SLSP进程。

The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticIngressLSPs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticIngressLSPs table information. 请在获取StaticIngressLSPs表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticTransitLSPs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticTransitLSPs table information. 请在获取StaticTransitLSPs表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticSRLSPs

Message	Explanation
Not support Static Segment Routing. 不支持Static Segment Routing。	The device must support Static Segment Routing first. 设备须首先支持Segment Routing Prefix。
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRLSPs table information. 请在获取StaticSRLSPs表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range.	The depth of the out label stack must be in the specified range.

标签栈深度超出规定范围。	标签栈的深度必须在设备定制范围内。
The null label must be configured on the outermost layer. 空标签只能配置在最外层。	The implicit null label 3 and explicit null label 0 must be configured on the outermost layer. 隐式空标签3和显示空标签0必须配置在最外层。

MPLS/StaticSRAdjacencies

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRAdjacencies table information. 请在获取StaticSRAdjacencies表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range. 标签栈深度超出规定范围。	The depth of the out label stack must be in the specified range. 标签栈的深度必须在设备定制范围内。

MPLS/StaticSRPrefixs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRPrefixs table information. 请在获取StaticSRPrefixs表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range. 标签栈深度超出规定范围。	The depth of the out label stack must be in the specified range. 标签栈的深度必须在设备定制范围内。
Prefix segments that share the same name must be configured with the same destination IP address. 同名的配置必须配置相同的目的地址。	The destination of the same prefix segment must be unique. 相同静态Prefix Segment路径的目的地址必须唯一。
Can't create a prefix segment to both transit node and egress node. 同一静态Prefix Segment不能既是中间节点又是尾节点。	Can't create a prefix segment to both transit node and egress node. 不能配置同一静态Prefix Segment既是中间节点又是尾节点。

Prefix segments configured with the same destination IP address must use the same name. 相同目的地址必须配置相同的名字。	Prefix segments configured with the same destination IP address must use the same name. 相同的地址必须配置相同的名字。
Prefix segments that share the same name must be configured with the same incoming label. 同名的配置必须配置相同的入标签。	Prefix segments that use the same name must use the same incoming label. 配置静态Prefix Segment时，同名的配置必须配置相同的入标签
The destination IP address doesn't match the name of the prefix segment. 删除静态Prefix Segment时，如果携带目的地址必须同配置保持一致。	The destination address specified when you delete a prefix segment must be the same as the destination address specified when the prefix segment was created. 删除静态Prefix Segment时，如果携带目的地址必须同配置保持一致。
The incoming label doesn't match the name of the prefix segment. 删除静态Prefix Segment时，如果携带入标签必须同配置保持一致。	The incoming label specified when you delete a prefix path must be the same as the incoming label specified when the prefix segment was created. 删除静态Prefix Segment时，如果携带入标签必须同配置保持一致。
Not support Static Segment Routing. 不支持Static Segment Routing。	The device must support Static Segment Routing first. 设备须首先支持Static Segment Routing。
The null label must be configured on the outermost layer. 空标签只能配置在最外层。	The implicit null label 3 and explicit null label 0 must be configured on the outermost layer. 隐式空标签3和显示空标签0必须配置在最外层。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/TunnelMbfds

Message	Explanation
Number of MPLS BFDs has reached the upper limit. BFD已经满规格了。	Number of MPLS BFDs must be smaller than or equal to the upper limit. MPLS BFD的数量必须小于或等于满规格的数量。
Not support MPLS BFD. 不支持MPLS BFD。	The product must support MPLS BFD first when getting MPLS/TunnelMbfds table information. 获取MPLS BFD表的信息时，产品必须首先支持MPLS BFD。
The MPLS BFD feature has not been enabled. MPLS BFD还没使能。	Please start MPLS BFD service before getting MPLS/TunnelMbfds table information. 请获取MPLS BFD表之前先启动MPLS BFD进程。

MPLS/PreferredTunnelPolicies

Message	Explanation
The TunnelID is invalid.	The tunnel configured as the preferred path must be valid.

无效的隧道/捆绑隧道 ID	优选隧道引用的隧道必须是有效的。
The PolicyName is invalid. 无效的隧道/捆绑隧道名称。	The PolicyName length must be between 0 to 20. 隧道名称有效长度范围必须在0-20。
The TunnelType is invalid. 无效的隧道/捆绑隧道类型	The TunnelType must be tunnel or tunnel-bundle. 隧道类型必须是tunnel或者tunnel-bundle。

MPLS/MPLSVRF

Message	Explanation
MPLS VPN statistics not supported. 不支持MPLS VPN统计功能。	To get MPLS/MPLS VRF table information of the product, the product must support MPLS VPN statistics. 获取MPLS VRF表的信息时，产品必须首先支持MPLS VPN统计功能。

Contents

MQC 1
MQC/ClearGlobalStatistic 1
XML structure 1
Table description 1
Columns 1
MQC/ClearVlanStatistic 2
XML structure 2
Table description 2
Columns 2
MQC/ClearACStatistic 3
XML structure 3
Table description 3
Columns 3
MQC/ClearSrv6Statistic 4
XML structure 4
Table description 4
Columns 4

MQC

MQC/ClearGlobalStatistic

This table is used to clear statistics of a global QoS policy.

XML structure

```
<MQC>
  <ClearGlobalStatistic>
    <Application>
      <Direction></Direction>
      <Clear></Clear>
      <PolicyType></PolicyType>
    </Application>
  </ClearGlobalStatistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearGlobalStatistic
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound.	If you do not specify this column, All directions are cleared.
Clear	Clear global policy statistics	N/A	This column must be empty	Required.
PolicyType	Policy type	N/A	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy.	If you do not specify this column, common policies are cleared.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **7**—Control-plane policy.	

MQC/ClearVlanStatistic

This table is used to clear statistics of the QoS policy applied in VLAN.

XML structure

```
<MQC>
  <ClearVlanStatistic>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <Clear></Clear>
    </Application>
  </ClearVlanStatistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearVlanStatistic
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	If you do not specify this column, All VLANs are cleared.
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound.	If you do not specify this column, All directions are cleared.
Clear	Clear VLAN policy statistics	N/A	This column must be empty	Required.

MQC/ClearACStatistic

This table is used to clear statistics of the QoS policy applied to AC interfaces.

XML structure

```
<MQC>
  <ClearACStatistic>
    <AC>
      <IfName></IfName>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <Clear></Clear>
    </AC>
  </ClearACStatistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearACStatistic
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound**.**	If you do not specify this column, All directions are cleared.
PolicyType	Policy type	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy.	
Clear	Clear AC policy statistics	N/A	This column must be empty	Required.

MQC/ClearSrv6Statistic

This table is used to clear statistics of an SRv6 QoS policy.

XML structure

```
<MQC>
  <ClearSrv6Statistic>
    <Application>
      <Endpoint></Endpoint>
      <Color></Color>
      <Direction></Direction>
      <Clear></Clear>
    </Application>
  </ClearSrv6Statistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearSrv6Statistic
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	Endpoint IPv6	N/A	String, semicolon hex notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		Default is not configured.	
Color	Color	N/A	Unsigned integer	N/A
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound.	If you do not specify this column, statistics for both QoS policies are cleared.
Clear	Clear policy statistics	N/A	This column must be empty	Required.

Contents

MQC 1

MQC/Classifiers 1
XML structure 1
Table description 1
Columns 1
MQC/Behaviors 2
XML structure 2
Table description 2
Columns 2
MQC/Policies 2
XML structure 3
Table description 3
Columns 3
MQC/CBMaps 3
XML structure 4
Table description 4
Columns 4
MQC/Rules 5
XML structure 5
Table description 7
Columns 8
MQC/Remark 14
XML structure 14
Table description 14
Columns 15
MQC/Redirect 18
XML structure 18
Table description 19
Columns 19
MQC/Filter 22
XML structure 22
Table description 22
Columns 22
MQC/AssuredForwarding 23
XML structure 23
Table description 23
Columns 23
MQC/ExpeditedForwarding 24
XML structure 24
Table description 24
Columns 25
MQC/StrictPriority 25
XML structure 25
Table description 26
Columns 26
MQC/WFQ 26
XML structure 26
Table description 26
Columns 27
MQC/CAR 27
XML structure 27
Table description 28
Columns 28
MQC/GTS 32
XML structure 32
Table description 32
Columns 32

MQC/ReservedBandwidth 33
XML structure 33
Table description 33
Columns 34
MQC/Mirror 34
XML structure 34
Table description 35
Columns 35
MQC/MirrorDynamicIF 38
XML structure 38
Table description 39
Columns 39
MQC/MirroringLocalPrecedence 40
XML structure 40
Table description 40
Columns 40
MQC/GlobalPolicy 41
XML structure 41
Table description 41
Columns 41
MQC/SRv6Policy 41
XML structure 41
Table description 42
Columns 42
MQC/VlanPolicy 42
XML structure 42
Table description 43
Columns 43
MQC/ACPolicy 43
XML structure 43
Table description 44
Columns 44
MQC/InterfacePolicy 44
XML structure 44
Table description 45
Columns 45
MQC/IfPolicyEnhance 45
XML structure 45
Table description 46
Columns 46
MQC/IfPolicyPostPosition 46
XML structure 46
Table description 47
Columns 47
MQC/GlobalPolicyEnhance 47
XML structure 47
Table description 48
Columns 48
MQC/Account 48
XML structure 48
Table description 49
Columns 49
MQC/PacketRate 49
XML structure 49
Table description 49
Columns 50
MQC/PostClassify 50
XML structure 50
Table description 50
Columns 51
MQC/GlobalCategoryPolicy 51
XML structure 51

Table description 51
Columns 52
MQC/InterfaceCategoryPolicy 52
XML structure 52
Table description 53
Columns 53
MQC/Telemetry 54
XML structure 54
Table description 54
Columns 54
MQC/TelemetryRoles 55
XML structure 55
Table description 56
Columns 56
MQC/TelemetryLoopbacks 56
XML structure 56
Table description 56
Columns 57
MQC/TelemetryGlobalEnable 57
XML structure 57
Table description 57
Columns 58
MQC/TelemetryGlobalPacketDrop 58
XML structure 58
Table description 58
Columns 58
MQC/TelemetryGlobalRole 58
XML structure 59
Table description 59
Columns 59
MQC/TelemetryAction 59
XML structure 59
Table description 60
Columns 60
MQC/OverheadLayer 61
XML structure 61
Table description 61
Columns 62
MQC/SysTruncation 62
XML structure 62
Table description 62
Columns 62
MQC/MonitorGroup 63
XML structure 63
Table description 63
Columns 63
MQC/MonitorPort 63
XML structure 63
Table description 64
Columns 64
MQC/MPortDynamic 65
XML structure 65
Table description 65
Columns 66
MQC/Strip 66
XML structure 66
Table description 67
Columns 67
MQC/Nest 68
XML structure 68
Table description 68
Columns 69

MQC/BehaviorTruncation 69
XML structure 69
Table description 69
Columns 69
MQC/TimeStamp 70
XML structure 70
Table description 70
Columns 70
MQC/VSIPolicy 71
XML structure 71
Table description 71
Columns 71
MQC/AccountInterfacePolicy 72
XML structure 72
Table description 72
Columns 72
MQC/RemarkInterfacePolicy 73
XML structure 73
Table description 73
Columns 73
MQC/TapInterfacePolicy 74
XML structure 74
Table description 74
Columns 74
MQC/TrafficRate 75
XML structure 75
Table description 75
Columns 75
MQC/ACCategoryPolicy 76
XML structure 76
Table description 76
Columns 76
MQC/TrafficPolicy 77
XML structure 77
Table description 77
Columns 78
Appendix 78
MQC/TunnelBandwidths 79
XML structure 79
Table description 79
Columns 79
Appendix 80
MQC/Erspan 81
XML structure 81
Table description 81
Columns 81

MQC

MQC/Classifiers

This table contains information about classifiers.

XML structure

```
<MQC>
   <Classifiers>
     <Classifier>
       <Name></Name>
       <Operator></Operator>
       <Description></Description>
     </Classifier>
   </Classifiers>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Classifiers
Table type	Multi-instance table
Row name	Classifier
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
Operator	Match operator of the traffic classifier	N/A	Enumeration: • **1**—And. • **2**—Or.	When the **Operator** column is **1**, the traffic classifier matches the packets that match all its match criteria. When the **Operator** column is **2**, the traffic classifier matches the packets that match any of its match criteria. If this column is not

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured, the default value is **1**.
Description	Traffic classifier description.	N/A	String. Length: 1 to 127 characters.	N/A

MQC/Behaviors

This table contains information about behavior.

XML structure

```
<MQC>
   <Behaviors>
     <Behavior>
       <Name></Name>
     </Behavior>
   </Behaviors>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Behaviors
Table type	Multi-instance table
Row name	Behavior
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A

MQC/Policies

This table contains information about policy.

XML structure

```
<MQC>
   <Policies>
     <Policy>
       <Name></Name>
       <Type></Type>
     </Policy>
   </Policies>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Policy name	Index	String. Length: 1 to 31 characters.	N/A
Type	Policy type	N/A	Enumeration: • **0**—Common policy (default). • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	This column cannot be modified.

MQC/CBMaps

This table contains information about classifier-behavior association.

XML structure

```
<MQC>
    <CBMaps>
      <CBMap>
        <PolicyName></PolicyName>
        <ClassifierName></ClassifierName>
        <BehaviorName></BehaviorName>
        <Mode></Mode>
        <InsertBeforeClassifierName></InsertBeforeClassifierName>
      </CBMap>
    </CBMaps>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CBMaps
Table type	Multi-instance table
Row name	CBMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassifierName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of the classifier-behavior association	N/A	Enumeration: • **0**—None. • **2**—Qppb. • **16**—Dcbx. • **32**—Ciel. • **64**—Loose. • **128**—Division.	Required. When the **Mode** column is **0**, there is no restriction on the classifier-behavior association. When the **Mode** column is **2**, the classifier-behavior association applies only to QPPB. When the **Mode** column is **16**, the classifier-behavior association applies only to

Column name	Column description	Column type	Data type and restrictions	Remarks
				the Data Center Bridging Exchange Protocol (DCBX). When the **Mode** column is **32**, the classifier-behavior association applies only to Ciel. When the **Mode** column is **64**, the classifier-behavior association applies only to Loose. When the **Mode** column is **128**, the classifier-behavior association applies only to division.
InsertBeforeClassifierName	Insert the new traffic class before an existing traffic class.	N/A	String. Length: 1 to 31 characters	N/A

MQC/Rules

This table contains information about rule.

XML structure

```
<MQC>
  <Rules>
    <Rule>
      <ClassName></ClassName>
      <RuleID></RuleID>
      <Not></Not>
      <PktType></PktType>
      <Acl>
        <IPv4Acl></IPv4Acl>
        <IPv6Acl></IPv6Acl>
        <Inner></Inner>
        <Mpls-inner></Mpls-inner>
        <raw-vpn></raw-vpn>
        <MACAcl></MACAcl>
        <UserAcl></UserAcl>
      </Acl>
      <IPv4Acl></IPv4Acl>
      <IPv6Acl></IPv6Acl>
      <SrcMac></SrcMac>
      <DestMac></DestMac>
      <ServiceVLANID></ServiceVLANID>
```

```
<CustomerVLANID></CustomerVLANID>
<ServiceDot1pList>
  <ServiceDot1p></ServiceDot1p>
</ServiceDot1pList>
<CustomerDot1pList>
  <CustomerDot1p></CustomerDot1p>
</CustomerDot1pList>
<ExpList>
  <Exp></Exp>
</ExpList>
<InnerExpList>
  <InnerExp></InnerExp>
</InnerExpList>
<IPPrecedenceList>
  <IPPrecedence></IPPrecedence>
</IPPrecedenceList>
<IPv6PrecedenceList>
  <IPv6Precedence></IPv6Precedence>
</IPv6PrecedenceList>
<LocalPrecedenceList>
  <LocalPrecedence></LocalPrecedence>
</LocalPrecedenceList>
<DscpList>
  <Dscp></Dscp>
</DscpList>
<IPv6DscpList>
  <IPv6Dscp></IPv6Dscp>
</IPv6DscpList>
<DropPriorityList>
  <DropPriority></DropPriority>
</DropPriorityList>
<QoSLocalID></QoSLocalID>
<QoSLocalIDOut></QoSLocalIDOut>
<MplsLabelList>
  <MplsLabel></MplsLabel>
</MplsLabelList>
<InnerMplsLabelList>
  <InnerMplsLabel></InnerMplsLabel>
</InnerMplsLabelList>
<PktLength>
  <Min></Min>
  <Max></Max>
</PktLength>
<MplsLabelRange>
  <LabelStart></LabelStart>
  <LabelEnd></LabelEnd>
</MplsLabelRange>
<InnerMplsLabelRange>
```

```
        <InnerLabelStart></InnerLabelStart>
        <InnerLabelEnd></InnerLabelEnd>
      </InnerMplsLabelRange>
      <RTPPort>
        <PortStart></PortStart>
        <PortEnd></PortEnd>
      </RTPPort>
      <Application></Application>
      <ApplicationGroup></ApplicationGroup>
      <Vxlan></Vxlan>
      <VxlanAny></VxlanAny>
      <TunnelID></TunnelID>
      <VLANTag></VLANTag>
      <TunnelDscpList>
        <TunnelDscp></TunnelDscp>
      </TunnelDscpList>
      <IFA></IFA>
      <OutBoundInterface></OutBoundInterface>
      <Mpls></Mpls>
      <Nvgre></Nvgre>
      <NvgreAny></NvgreAny>
      <RoCEv2>
        <PktType></PktType>
        <OpCode></OpCode>
        <DstQpair></DstQpair>
        <SrcQpair></SrcQpair>
        <Nack></Nack>
      </RoCEv2>
      <SdwanTte>
        <SiteID></SiteID>
        <DeviceID></DeviceID>
        <InterfaceID></InterfaceID>
      </SdwanTte>
      <VRF></VRF>
    </Rule>
  </Rules>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	Only one match column can be configured once, Rule cannot be modified by ID.

	The **delete/remove** operation can only carry the ClassName and RuleID columns.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
RuleID	ID of the rule	Index	Unsigned integer	When the operation type of the message is **create**, **RuleID** can be configured as 4294967295 or the **NextRuleID** of the **Classifiers** table.
Not	Whether the rule is used as an unsuccessful match criterion	N/A	Boolean: • **true**—Yes. • **false**—No.	Required.
PktType	Packet type to be matched.	N/A	Enumeration: • **1**—Any. • **2**—IP. • **3**—IPv6. • **4**—Arp. • **5**—Bt. • **6**—Bridge. • **7**—Route.	When the **PktType** column is **1**, the rule matches all packets. When the **PktType** column is **2**, the rule matches IPv4 packets. When the **PktType** column is **3**, the rule matches IPv6 packets. When the **PktType** column is **4**, the rule matches ARP packets. When the **PktType** column is **5**, the rule matches BitTorrent packets. When the **PktType** column is **6**, the rule matches Layer 2 forwarded packets. When the **PktType** column is **7**, the rule matches Layer 3 forwarded packets.
Acl	Match ACL	Data structure	Members include: • **IPv4Acl**. • **IPv6Acl**. • **Inner.** • **Mpls-inner.** • **raw-vpn**	IPv4Acl and IPv6Acl cannot be specified together. Inner and Mpls-inner cannot be specified together. For information about how to configure, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				"Appendix."
IPv4Acl	Match IPv4 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
IPv6Acl	Match IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
Inner	Match inner ACL.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	Matches the entries that describe the inner flags of a packet in an ACL.
Mpls-inner	Match the inner header information of MPLS packets.	N/A	Boolean: • **true**—Conform. • **false—**Not conform.	N/A
raw-vpn	Match the raw VRF index	N/A	Boolean: • **true**—Conform. • **false—**Not conform.	N/A
MACAcl	Match MAC ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 4000 to 4999.	An ACL name must start with an English letter and cannot be **all**.
UserAcl	Match User ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 5000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
IPv4Acl	Match IPv4 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**. This column and Acl cannot be specified together. For information about how to configure, see "Appendix."
IPv6Acl	Match IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in	An ACL name must start with an English letter and cannot be **all**. This column and Acl cannot be specified

Column name	Column description	Column type	Data type and restrictions	Remarks
			the range of 2000 to 3999.	together. For information about how to configure, see "Appendix."
SrcMac	Match a source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DestMac	Match a destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ServiceVLANID	Match the service provider VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. you can specify up to 10 VLAN IDs or VLAN ID ranges.
CustomerVLANID	Match the customer VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. you can specify up to 10 VLAN IDs or VLAN ID ranges.
ServiceDot1p	Match the 802.1p priority of the service provider network.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **ServiceDot1p** for a rule
CustomerDot1p	Match the 802.1p priority of the customer network.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **CustomerDot1p** for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **Exp** for a rule
InnerExp	Match inner MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **InnerExp** for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **IPPrecedence** for a rule
IPv6Preceden	Match IPv6	N/A	Unsigned integer.	You can specify up to 8 **IPv6Precedence** for a

Column name	Column description	Column type	Data type and restrictions	Remarks
ce	precedence.		Value range: 0 to 7.	rule
LocalPrecedence	Match local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 **LocalPrecedence** for a rule
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 **Dscp** for a rule
IPv6Dscp	Match IPv6 DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 **IPv6Dscp** for a rule
DropPriority	Match drop precedence.	N/A	Unsigned integer. Value range: 0 to 2.	You can specify up to 3 **DropPriority** for a rule
QoSLocalID	Match local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
QoSLocalIDOut	Match the local QoS ID in the outbound direction.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
MplsLabel	Match MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	You can specify up to 8 **MplsLabel** for a rule
InnerMplsLabel	Match inner MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	You can specify up to 8 **InnerMplsLabel** for a rule
PktLength	Match packet length.	Data structure	Members include: • **Min**. • **Max**.	N/A
Min	The minimum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	**Min** cannot be bigger than **Max**.
Max	The maximum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MplsLabelRange	Match MPLS label range.	Data structure	Members include: • **LabelStart**. • **LabelEnd**.	The two members must both be specified.
LabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
LabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	**LabelEnd** must be bigger than **LabelStart**.
InnerMplsLabelRange	Match inner MPLS label range.	Data structure	Members include: • **InnerLabelStart**. • **InnerLabelEnd**.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InnerLabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerLabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	**InnerLabelEnd** must be bigger than **InnerLabelStart**.
RTPPort	Match RTP protocol port range.	Data structure	Members include: • **PortStart**. • **PortEnd**.	The two members must both be specified.
PortStart	Start RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	**PortStart** cannot be bigger than **PortEnd**.
PortEnd	End RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
Application	Match application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/Applications/Application/AppName.
ApplicationGroup	Match application group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/AppGroups/GroupInfo/GroupName.
Vxlan	Match vxlan ID.	N/A	Unsigned integer. Value range: 0 to 16777215.	It must be empty when the VxlanAny column is **true**.
VxlanAny	Match any vxlan ID.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	The Vxlan column must be specified when the VxlanAny column is **false**.
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: • **1**—None. • **2**—Single-tagged. • **4**—Double-tagged.	N/A
TunnelDscpList	Match tunnel DSCP values.	Data structure	Members include: • **TunnelDscp**.	N/A
TunnelDscp	Match tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 **Dscp** for a rule
IFA	Inband Flow Analyzer	N/A	Enumeration: • **1**—tcp. • **2**—udp.	N/A
OutBoundInterface	Match output interface	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Mpls	Mpls type	N/A	Enumeration: • **1**—l2. • **2**—l3.	N/A
Nvgre	Match NVGRE.	N/A	Hexadecimal string. Length: 4 to 6 characters. Value range: 1000 to FFFFFE.	N/A
NvgreAny	Match any NVGRE ID	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	The Nvgre column must be specified when the NvgreAny column is **false**.
RoCEv2	Match RoCEv2 packets	Data structure	Members include: • **PktType**. • **OpCode**. • **DstQpair**. • **SrcQpair**. • **Nack**.	N/A
PktType	Packet type to be matched.	N/A	Enumeration: • **0**—IPv4.	N/A
OpCode	OpCode in BTH to be matched.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
DstQpair	Destination QP in BTH to be matched.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
SrcQpair	Source QP in DETH to be matched.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
Nack	The lower 5 bits of Syndrome in NAK to be matched.	N/A	Unsigned integer. Value range: 0 to 31.	N/A
SdwanTte	Match SDWAN network TTE information.	Data structure	Members include: • **SiteID**. • **DeviceID**. • **InterfaceID**.	N/A
SiteID	Site ID in SDWAN network to be matched.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeviceID	Device ID in SDWAN network to be matched.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceID	Interface ID of the SDWAN tunnel interface to be matched.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
VRF	VRF instance to be matched.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

MQC/Remark

This table contains information about marking action.

XML structure

```
<MQC>
    <Remark>
      <Action>
        <BehaviorName></BehaviorName>
        <Type></Type>
        <Color></Color>
        <Value></Value>
        <SrcMACAddr></SrcMACAddr>
        <DstMACAddr></DstMACAddr>
        <SrcIPv4Addr></SrcIPv4Addr>
        <DstIPv4Addr></DstIPv4Addr>
        <SrcIPv6Addr></SrcIPv6Addr>
        <DstIPv6Addr></DstIPv6Addr>
      </Action>
    </Remark>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Remark
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of remark	Index	Enumeration: • **0**—CDot1pTrust. • **1**—Dscp. • **2**—IPPre. • **3**—MplsExp. • **4**—Dot1p. • **5**—LocalID. • **6**—LocalPre. • **7**—DropPre. • **8**—CVlanID. • **9**—SVlanID. • **10**—ImpositionMplsExp. • **11**—ForwardingClass. • **12**—AtmClp. • **14**—SecondMplsExp. • **16**—ServiceClass. • **17**—TunnelDscp. • **18**—DstMACAddr. • **19**—FlowID. • **20**—DstIPv4Addr. • **21**—SrcIPv4Addr. • **22**—DstIPv6Addr. • **23**—SrcIPv6Addr. • **24**—LocalIDOut. • **26—**SrcMACAddr.	When the **Type** column is 0, configure an inner-to-outer tag priority copying action. When the **Type** column is **1**, configure a DSCP marking action. When the **Type** column is **2**, configure an IP precedence marking action. When the **Type** column is **3**, configure an EXP value marking action. When the **Type** column is **4**, configure an 802.1p priority marking action. When the **Type** column is **5**, configure the action of setting the specified local QoS ID for packets. When the **Type** column is **6**, configure a local precedence marking action. When the **Type** column is **7**, configure a drop priority marking action. When the **Type** column is **8**, configure a CVLAN marking action. When the **Type** column is **9**, configure a SVLAN marking action. When the **Type** column is **10**, configure an EXP value marking action for added labels. When the **Type** column is **11**, configure a forwarding-class marking action. When the **Type** column is **12**, configure the action of setting the CLP bit for ATM cells. When the **Type** column is **14**, configure a second MPLS EXP value marking action.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When the **Type** column is **16**, configure the action of setting the service-class of MPLS traffic engineering. When the **Type** column is **17**, configure a tunnel-DSCP marking action. When the **Type** column is **18**, configure a destination MAC address. When the **Type** column is **19**, configure a FlowID marking action. When the **Type** column is **20**, configure a destination IPv4 address. When the **Type** column is **21**, configure a source IPv4 address. When the **Type** column is **22**, configure a destination IPv6 address. When the **Type** column is **23**, configure a source IPv6 address. When the Type column is **24**, configure the action of setting the specified local QoS ID for packets. This local QoS ID can be matched in the outbound direction. When the **Type** column is **26**, configure a source MAC address.
Color	The color of affected packets	Index	Enumeration: • **0**—No color. • **1**—Green. • **2**—Yellow. • **3**—Red.	Specifies different color packets for the priority marking action. Support for the green, red and yellow keyword depends on the device model. When- the **Color** column is **0**, specifies all packets. When the **Color** column is **1**, specifies green packets. When the **Color** column is **2**, specifies yellow packets. When the **Color** column is **3**, specifies red packets.
Value	The value of	N/A	Unsigned integer.	Required when the **Type** column is **1**, **2**, **3**, **4**, 5, **6**,

Column name	Column description	Column type	Data type and restrictions	Remarks
	marking action			**7**, **8**, **9**, **10**, **11**, **12**, **16** or **17**. When the **Type** column is 0, the value is invalid. When the **Type** column is **8** or **9**, the value range is 1 to 4094. When the **Type** column is **7**, the value range is 0 to 2. When the **Type** column is **5**, the value range is 1 to 4095. When the **Type** column is **2**, **3**, **4**, **6** or **10**, the value range is 0 to 7. When the **Type** column is **11**, the value range is 0 to 3 or 0 to 7. When the **Type** column is **1**, the value range is 0 to 63. When the **Type** column is **12**, the value range is 0 to 1. When the **Type** column is **16**, the value range is 0 to 7 or a customized value. When the **Type** column is **17**, the value range is 0 to 63. When the **Type** column is **19**, the value range is 1 to 65535. When the **Type** column is **24**, the value range is 1 to 128.
SrcMACAddr	The source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required when the **Type** column is **26**
DstMACAddr	The destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required when the **Type** column is **18**
SrcIPv4Addr	The source IPv4 address.	N/A	String, dotted decimal notation.	Required when the **Type** column is 2**1**
DstIPv4Addr	The destination IPv4 address.	N/A	String, dotted decimal notation.	Required when the **Type** column is **20**
SrcIPv6Addr	The source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Required when the **Type** column is **23**
DstIPv6Addr	The destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Required when the **Type** column is **22**

MQC/Redirect

This table contains information about redirect.

XML structure

```
<MQC>
  <Redirect>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <TrackOap></TrackOap>
      <VLANID></VLANID>
      <VSI></VSI>
      <Nexthop>
        <VRF></VRF>
        <IPAddr></IPAddr>
        <IPAddrBackup></IPAddrBackup>
        <Track></Track>
        <TrackBackup></TrackBackup>
      </Nexthop>
      <NatInstance></NatInstance>s
      <FailoverGroup>
        <GroupName></GroupName>
        <AftGroupName></AftGroupName>
        <Channel></Channel>
      </FailoverGroup>
      <MonitorGroupID></MonitorGroupID>
      <SRPolicy>
        <EndPoint></EndPoint>
        <Color></Color>
        <SID></SID>
        <VpnSID></VpnSID>
      </SRPolicy>
      <TunnelGroupID></TunnelGroupID>
      <AccessVpn></AccessVpn>
      <AccessVpnTrack></AccessVpnTrack>
      <AccessVpnBackup></AccessVpnBackup>
      <AccessVpnBackupTrack></AccessVpnBackupTrack>
      <AccessCgnVpn></AccessCgnVpn>
    </Action>
  </Redirect>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Redirect
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of redirect	Index	Enumeration: • **1**—CPU. • **2**—Interface. • **3**—VSI. • **4**—FailoverGroup. • **6**—Nexthop • **7**—MonitorGroup • **8**—HTTP. • **9**—HTTPS. • **10**—NAT instance. • **12**—SR-policy. • **13**—SRv6-policy. • **14**—TunnelGroup. • **15**—Local. • **16**—Access-Vpn. • **17**—DHCP.	When the **Type** column is **1**, redirect traffic to CPU. When the **Type** column is **2**, redirect traffic to an interface. When the **Type** column is **3**, redirect traffic to a virtual station interface. When the **Type** column is **4**, redirect traffic to a failover group. When the **Type** column is **6**, redirect traffic to nexthop. When the **Type** column is **7**, redirect traffic to monitor group. When the **Type** column is **8**, redirect HTTP traffic to CPU. When the **Type** column is **9**, redirect HTTPS traffic to CPU. When the **Type** column is **10**, redirect traffic to NAT instance. When the **Type** column is **12**, redirect traffic to SR-policy. When the **Type** column is **13**, redirect traffic to SRv6-policy. . When the **Type** column is

Column name	Column description	Column type	Data type and restrictions	Remarks
				14, redirect traffic to Tunnel group. When the **Type** column is **15**, redirect traffic to Local. When the **Type** column is **16**, redirect traffic to Access-Vpn. When the **Type** column is **17**, redirect DHCP traffic to CPU.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if **Type** is **2**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrackOap	Enable the traffic redirecting action to collaborate with OAP	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The value of this column is valid if **Type** is **2**.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if **Type** is **2**.
VSI	Name of VSI	N/A	String. Length: 1 to 31 characters.	Required when the **Type** column is **3**.
Nexthop	Nexthop	N/A	N/A	N/A
VRF	VRF instance name	N/A	String. Length: 0 to 31 characters.	The value of this column is valid if **Type** is **6**.
IPAddr	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **6**. For example, 1.1.1.1, or 1:1::1:1.
IPAddrBackup	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **6**. For example, 1.1.1.1, or 1:1::1:1.
Track	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is **6**.
TrackBackup	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is **6**.
NatInstance	Nat instance	N/A	String.	The value of this column

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 31 characters.	is valid if **Type** is **10**.
FailoverGroup	Failover group	Data structure	Members include: • GroupName. • AftGroupName. • Channel.	N/A
GroupName	Failover group name	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if **Type** is **4**.
AftGroupName	Aft failover group name	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if **Type** is **4**.
Channel	Channel	N/A	Unsigned integer. Value range: 0 to 1.	The value of this column is valid if **Type** is **4**. Some versions don't support this column. For relevant information, see the XSD document of your product.
MonitorGroupID	Monitor group ID.	N/A	Unsigned integer.	N/A
SRPolicy	SR policy	Data structure	Members include: • EndPoint. • Color. • SID. • VpnSID.	N/A
EndPoint	Endpoint address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **12** or **13**.
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	The value of this column is valid if **Type** is **12** or **13**.
SID	Public network SID	N/A	Hexadecimal string, colon-separated.	The value of this column is valid if **Type** is **13**. This column and VpnSID cannot be specified together.
VpnSID	Private network SID	N/A	Hexadecimal string, colon-separated.	The value of this column is valid if **Type** is **13**. This column and SID cannot be specified together.
TunnelGroupID	Tunnel group ID	N/A	Unsigned integer.	N/A
AccessVpn	VPN instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **16**.
AccessVpnTrack	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is 1**6**.

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessVpnBackup	VPN instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **16**.
AccessVpnBackupTrack	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is 1**6**.
AccessCgnVpn	VPN instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **16**.

MQC/Filter

This table contains information about filtering action.

XML structure

```
<MQC>
   <Filter>
     <Action>
       <BehaviorName></BehaviorName>
       <Type></Type>
     </Action>
   </Filter>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Filter
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of filter	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—None.	

MQC/AssuredForwarding

This table contains information about assured-forwarding queue.

XML structure

```
<MQC>
  <AssuredForwarding>
    <Action>
      <BehaviorName></BehaviorName>
      <Kbps></Kbps>
      <Pct></Pct>
      <PIR></PIR>
      <RemainingPct></RemainingPct>
    </Action>
  </AssuredForwarding>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AssuredForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	When the configuration way of Bandwidth is Kbps, the others can't be configured at the same time.
Pct	Percentage of reserved	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is Pct,

Column name	Column description	Column type	Data type and restrictions	Remarks
	bandwidth.			the others can't be configured at the same time.
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is RemainingPct, the others can't be configured at the same time.
PIR	Peak information rate	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A

MQC/ExpeditedForwarding

This table contains information about expedited-forwarding queue.

XML structure

```
<MQC>
  <ExpeditedForwarding>
    <Action>
      <BehaviorName></BehaviorName>
      <Bandwidth>
        <Kbps></Kbps>
        <CBS></CBS>
        <PIR></PIR>
      </Bandwidth>
      <BandwidthPct>
        <Pct></Pct>
        <CBSRatio></CBSRatio>
      </BandwidthPct>
    </Action>
  </ExpeditedForwarding>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ExpeditedForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Bandwidth	Specify the Bandwidth value in kbps	Data structure	Members include: • **Kbps**. • **CBS**.	When the configuration way of Bandwidth is Bandwidth, the **Kbps** must be specified, and another way can't be configured at the same time.
Kbps	value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
PIR	Peak information rate	N/A	Unsigned integer. Value range: 8 to 10,000,000	N/A
BandwidthPct	Specify the percentage of reserved bandwidth.	Data structure	Members include: • **Pct**. • **CBS-Ratio**.	When the configuration way of Bandwidth is BandwidthPct, the **Pct** must be specified, and another way can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
CBSRatio	CBS Ratio	N/A	Unsigned integer. Value range: 25 to 500.	The default value is 25.

MQC/StrictPriority

This table contains information about strict priority queuing.

XML structure

```
<MQC>
  <StrictPriority>
    <Action>
      <BehaviorName></BehaviorName>
      <Enable></Enable>
    </Action>
  </StrictPriority>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	StrictPriority
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Enable	Enable	N/A	Boolean: • **true**—Conform. • **false**—Not conform. (default)	N/A

MQC/WFQ

This table contains information about weighted fair queue.

XML structure

```
<MQC>
  <WFQ>
    <Action>
      <BehaviorName></BehaviorName>
      <QueueNum></QueueNum>
    </Action>
  </WFQ>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	WFQ
Table type	Multi-instance table
Row name	Action

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	The value is power of 2. This column can be specified null. If it is null, the value is default, and default value varies by device.

MQC/CAR

This table contains information about car action.

XML structure

```
<MQC>
  <CAR>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <AggregativeName></AggregativeName>
      <HierarchicalName></HierarchicalName>
      <Mode></Mode>
    </Action>
```

```
  </CAR>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CAR
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Specify bandwidth Unit	N/A	Enumeration: • **1**—pps. • **2**—kbps. • **3**—percent.	If this column is not configured, the default bandwidth unit is kbps.
CIR	Committed information rate	N/A	Unsigned integer.	Required when the **AggregativeName** is not specified. When BandwidthUnit is 3, the value range is 1 to 100.
CBS	Committed burst size	N/A	Unsigned integer.	When BandwidthUnit is 3, the value range is 50 to 2000.
EBS	Excess burst size	N/A	Unsigned integer.	If both **CBS** and PIR are not configured, **EBS** cannot be configured. When BandwidthUnit is 3, the value range is 0 to 2000.
PIR	Peak information rate	N/A	Unsigned integer.	When BandwidthUnit is 3, the value range is 1 to 100.
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass.	When **GreenActionType** is **1**, send the packet. When **GreenActionType**

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—remark-dscp-pass. • **3**—remark -prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When GreenActionType is **19**, continue to process the packet. When **GreenActionType** is **20**, remark service class value of the packet and send it.
GreenActionValue	Green Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is ignored. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8**, **20**, **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	YellowActionValue is required when YellowActionType is not 1, 10 or 19.
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark -prec-pass.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When **YellowActionType** is **19**, continue to process the packet. When **YellowActionType** is **20**, remark service class value of the packet and send it.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is ignored. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8**, **20**, **YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	RedActionValue is required when RedActionType is not 1, 10 or 19.
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark -prec-pass.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet. When **RedActionType** is **20**, remark service class value of the packet and send it.
RedActionValue	Red Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When **RedActionType** is **1, 10** or 19, **RedActionValue** is ignored. When **RedActionType** is 6 or 7, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8**, **20**, **RedActionValue** is 0~7.
AggregativeName	Aggregate CAR action name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	This column only can be configured together with **HierarchicalName** and **Mode**.
HierarchicalName	Hierarchical CAR action name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
Mode	Match operator	N/A	Enumeration: • **1**—And (default). • **2**—Or.	This column must be configured together with **HierarchicalName**.

MQC/GTS

This table contains information about GTS actions.

XML structure

```
<MQC>
  <GTS>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <QueueLength></QueueLength>
    </Action>
  </GTS>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GTS
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Bandwidth unit	N/A	Enumeration: • **2**—kbps (default). • **3**—percent.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	Required. When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				3, the value range is 1 to 100.
CBS	Committed burst size	N/A	Unsigned integer.	When **BandwidthUnit** is 2, the value range for this column depends on the device model.When **BandwidthUnit** is 3, the value range is 50 to 2000.
EBS	Excess burst size	N/A	Unsigned integer.	If both **CBS** and PIR are not configured, **EBS** cannot be configured. When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 0 to 2000.
PIR	Peak information rate	N/A	Unsigned integer.	When **BandwidthUnit** is 2, the value range for this column depends on the device model. When **BandwidthUnit** is 3, the value range is 1 to 100.
QueueLength	Queue length	N/A	Unsigned integer.	The value range for this column depends on the device model.

MQC/ReservedBandwidth

This table contains information about the maximum reserved bandwidth as a percentage of available bandwidth.

XML structure

```
<MQC>
  <ReservedBandwidth>
    <Interface>
      <IfIndex></IfIndex>
      <Pct></Pct>
    </Interface>
  </ReservedBandwidth>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Table name	ReservedBandwidth
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Pct	Specify the percentage of available bandwidth to be reserved	N/A	Unsigned integer. Value range: 1 to 100.	Required

MQC/Mirror

This table contains information about mirroring.

XML structure

```
<MQC>
  <Mirror>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VXLAN></VXLAN>
        <DestPort></DestPort>
        <SrcPort></SrcPort>
        <VRF></VRF>
```

```
        <ErspanID></ErspanID>
        <ErspanVer></ErspanVer>
      </IP>
      <Mac></Mac>
      <Board>
        <Chassis></Chassis>
        <Slot></Slot>
        <BackupChassis></BackupChassis>
        <BackupSlot></BackupSlot>
      </Board>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
      <MonitorGroupID></MonitorGroupID>
      <EncapType></EncapType>
      <L2Mirror>
        <ReflectIfName></ReflectIfName>
        <VLAN></VLAN>
      </L2Mirror>
    </Action>
  </Mirror>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Mirror
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of mirror	Index	Enumeration: • **1**—Interface. • **2**—CPU. • **3**—VLAN. • **4**—Slot. • **5**—Local. • 6—GRPC.	When the **Type** column is **1**, mirror to an interface. When the **Type** column is **2**, mirror to CPU. When the **Type** column is **3**, mirror to VLAN. When the **Type** column is **4**, traffic is mirrored to a

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **7**—IFA. • **8**—**MonitorGroup**	board. When the **Type** column is **5**, traffic is mirrored to the board on which the mirrored traffic is received or sent out. When the **Type** column is **6**, traffic is mirrored to GRPC. When the **Type** column is **7**, traffic is mirrored to inband flow analyzer processor. When the **Type** column is **8**, traffic is mirrored to a monitoring-group.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if **Type** is 1. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if **Type** is **3**.
IP	Specify IP for mirroring to interface with GRE or VXLAN format	Data structure	Members include: • DestIP • SrcIP • DSCP • VLAN • VXLAN • VRF	DestIP and SrcIP must both be specified. DSCP, VLAN, VXLAN and VRF can be optionally specified when DestIP and SrcIP are configured. This structure is valid and optional if Type is 1.
DestIP	Destination IPv4 or IPv6 address	N/A	String, dotted decimal notation, Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.54.
SrcIP	Source IPv4 or IPv6 address	N/A	String, dotted decimal notation, Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VXLAN	VXLAN ID	N/A	Unsigned integer.	You must specify the SrcPort and DstPort when

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 16777215.	you specify the VXLAN.
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SrctPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ErspanID	SPAN ID	N/A	Unsigned integer. Value range: 1 to 1023.	N/A
ErspanVer	ERSPAN version	N/A	Enumeration: • **3**—ERSPAN V3.	If this column is not configured, the default ERSPAN version is V2.
Mac	Specify destination MAC for mirroring to interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of this column is valid and optional if **Type** is 1.
Board	Specify Board for mirroring to a board.	Data structure	Members include: • Chassis • Slot • BackupChassis • BackupSlot	If the device is a distributed device in standalone mode or a centralized IRF device, the slot must be specified. If the device supports mirroring packets to a backup slot, the BackupSlot can be specified. If the device is a distributed device in IRF mode, the chassis and slot must both be specified. If the device supports mirroring packets to a backup slot, the BackupChassis and BackupSlot can be specified. This structure is valid and optional if **Type** is 4.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupChassis	Backup chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupSlot	Backup slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device

Column name	Column description	Column type	Data type and restrictions	Remarks
				model. The value of this column is valid and optional if **Type** is 1, 4, 5 or 7.
Truncation	Truncation packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	The value of this column is valid if **Type** is 1.
EncapType	Specify encapsulation type for mirrored packet	N/A	Enumeration: • **1**—VXLAN encapsulation.	The value of this column is valid if **Type** is 7.
MonitorGroup ID	Monitoring-group ID	N/A	Unsigned integer, Value range: 1 to 128.	The value of this column is valid if **Type** is 8.
L2Mirror	Specify L2Mirror for mirroring to L2 port interface.	Data structure	Members include: • ReflectIfName • VLAN	ReflectIfName and VLAN must both be specified. This structure is valid and optional if Type is 1.
ReflectIfNam e	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MQC/MirrorDynamicIF

This table contains information about mirroring packets to a dynamic interface, which is found by IP address.

XML structure

```
<MQC>
  <MirrorDynamicIF>
    <Action>
      <BehaviorName></BehaviorName>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VXLAN></VXLAN>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <VRF></VRF>
      <Mac></Mac>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
      <ErspanID></ErspanID>
      <ErspanVer></ErspanVer>
```

```
    </Action>
  </MirrorDynamicIF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MirrorDynamicIF
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
DestIP	Destination IPv4 or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.54.
SrcIP	Source IPv4 or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VXLAN	VXLAN ID	N/A	Unsigned integer. Value range: 0 to 16777215.	You must specify the SrcPort and DstPort when you specify the VXLAN.
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SrctPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Specify	N/A	Six groups of two	Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination MAC		hexadecimal digits, hyphen-separated.	00-0c-af-e3-5d-c0.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model.
Truncation	Truncation packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
ErspanID	SPAN ID	N/A	Unsigned integer. Value range: 1 to 1023.	N/A
ErspanVer	ERSPAN version	N/A	Enumeration: • **3**—ERSPAN V3.	If this column is not configured, the default ERSPAN version is V2.

MQC/MirroringLocalPrecedence

This table contains information about the local precedence for mirroring traffic.

XML structure

```
<MQC>
  <MirroringLocalPrecedence>
    <Precedence></Precedence>
  </MirroringLocalPrecedence>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MirroringLocalPrecedence
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	Local precedence	N/A	Unsigned integer. • Value range: 0 to 7.	N/A

MQC/GlobalPolicy

This table contains information about global QoS policies.

XML structure

```
<MQC>
  <GlobalPolicy>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </GlobalPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/SRv6Policy

This table contains information about SRv6 QoS policies.

XML structure

```
<MQC>
  <Srv6Policy>
    <Application>
```

```
      <Endpoint></Endpoint>
      <Color></Color>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </Srv6Policy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Srv6Policy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	Endpoint IPv6 address	Index	String, semicolon hex notation.	N/A
Color	Color	Index	Unsigned integer	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/VlanPolicy

This table contains information about QoS policies applied to VLANs.

XML structure

```
<MQC>
  <VlanPolicy>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
```

```
  </VlanPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VlanPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/ACPolicy

This table contains information about QoS policies applied to ACs.

XML structure

```
<MQC>
  <ACPolicy>
    <Application>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </ACPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/InterfacePolicy

This table contains information about QoS policies applied to interfaces.

XML structure

```
<MQC>
  <InterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
    </Application>
  </InterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	InterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.Mode cannot be modified .
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform.(default) . • **false**—Not conform.	N/A
ShareModeBoth	Sharing mode for both direction	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/IfPolicyEnhance

This table contains information about QoS policies applied to interfaces in enhanced mode.

XML structure

```
<MQC>
```

```
  <IfPolicyEnhance>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </IfPolicyEnhance>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/IfPolicyPostPosition

This table contains information about QoS policies applied to interfaces in postposition mode.

XML structure

```
<MQC>
```

```
  <IfPolicyPostPosition>
    <Application>
      <IfName></IfName>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </IfPolicyPostPosition>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyPostPosition
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface Name	Index	String	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/GlobalPolicyEnhance

This table contains information about global QoS policies in enhanced mode.

XML structure

```
<MQC>
  <GlobalPolicyEnhance>
```

```
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </GlobalPolicyEnhance>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/Account

This table contains information about accounting action.

XML structure

```
<MQC>
  <Account>
    <Action>
      <BehaviorName></BehaviorName>
      <Byte></Byte>
      <Packet></Packet>
    </Action>
  </Account>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Account
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Byte	Accounting in bytes	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Packet	Accounting in packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/PacketRate

This table contains information about protocol packet rate limit actions

XML structure

```
<MQC>
  <PacketRate>
    <Action>
      <BehaviorName></BehaviorName>
      <PacketRate></PacketRate>
      <AttackDefenseThreshold></AttackDefenseThreshold>
    </Action>
  </PacketRate>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Table name	PacketRate
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
PacketRate	Packet rate in pps	N/A	Unsigned integer.	N/A
AttackDefenseThreshold	Attack defense rate threshold in pps	N/A	Unsigned integer.	N/A

MQC/PostClassify

This table contains information about processing QoS after other modules in the outbound direction of an interface.

XML structure

```
<MQC>
  <PostClassify>
    <Application>
      <IfIndex></IfIndex>
      <enable></enable>
    </Application>
  </PostClassify>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	PostClassify
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some version support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
enable	Enable	column	Boolean • true—Conform. • false—Not conform.	N/A

MQC/GlobalCategoryPolicy

This table contains information about QoS policies of the specified types applied globally.

XML structure

```
<MQC>
  <GlobalCategoryPolicy>
    <Application>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
    </Application>
  </GlobalCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy (default). • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer. Default: 0.	A greater value indicates a higher matching priority. The value range can be customized for devices. This column cannot be modified.

MQC/InterfaceCategoryPolicy

This table contains information about QoS policies of the specified types applied to interfaces.

XML structure

```
<MQC>
  <InterfaceCategoryPolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
    </Application>
  </InterfaceCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	InterfaceCategoryPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy (default). • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer. Default: 0.	A greater value indicates a higher matching priority. The value range can be customized for devices. This column cannot be modified.
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform.(default). • **false**—Not conform.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ShareModeBoth	Sharing mode for both direction	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/Telemetry

This table contains information about inband telemetry.

XML structure

```
<MQC>
  <Telemetry>
    <DeviceID></DeviceID>
    <TSformat></TSformat>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Collector>
  </Telemetry>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Telemetry
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device ID	N/A	• String,dotted decimal notation. • Unsigned integer.	The column supports configuring an IP address or numerical value. The numerical value range is

Column name	Column description	Column type	Data type and restrictions	Remarks
				customized by product. Example: 10.153.93.60.
TSformat	Timestamp format	N/A	Enumeration: • **0**—md. • **1**—ts.	N/A
Collector	Telemetry collector	N/A	Members include: • SrcIP • DstIP • SrcPort • DstPort • VLANID	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete the telemetry collector. You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the telemetry collector, or when you merge or create the telemetry collector that does not exist.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DstIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MQC/TelemetryRoles

This table contains information about inband telemetry role.

XML structure

```
<MQC>
  <TelemetryRoles>
    <TelemetryRole>
      <IfIndex></IfIndex>
      <Role></Role>
    </TelemetryRole>
  </TelemetryRoles>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryRoles
Table type	Multi-instance table
Row name	TelemetryRole
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Role	Telemetry role	N/A	Enumeration: • **1**—Ingress. • **2**—Transit. • **3**—Egress	N/A

MQC/TelemetryLoopbacks

This table contains information about inband telemetry loopback interfaces.

XML structure

```
<MQC>
  <TelemetryLoopbacks>
    <TelemetryLoopback>
      <IfIndex></IfIndex>
      <Loopback></Loopback>
    </TelemetryLoopback>
  </TelemetryLoopbacks>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Table name	TelemetryLoopbacks
Table type	Multi-instance table
Row name	TelemetryLoopback
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Loopback	Telemetry loopback	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/TelemetryGlobalEnable

This table contains information about inband telemetry status.

XML structure

```
<MQC>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable IFA	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A

MQC/TelemetryGlobalPacketDrop

This table contains information about inband telemetry packet drop.

XML structure

```
<MQC>
  <TelemetryGlobalPacketDrop>
    <PacketDrop></PacketDrop>
  </TelemetryGlobalPacketDrop>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalPacketDrop
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketDrop	Discard the packet of inband telemetry.	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

MQC/TelemetryGlobalRole

This table contains information about the INT global role.

XML structure

```
<MQC>
  <TelemetryGlobalRole>
    <Role></Role>
  </TelemetryGlobalRole>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalRole
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Sets the INT global role .	N/A	Enumeration: • **1**—transit-egress.	You must specify the global role.

MQC/TelemetryAction

This table contains information about inband telemetry actions.

XML structure

```
<MQC>
  <TelemetryActions>
    <TelemetryAction>
      <IfIndex></IfIndex>
      <IFAId></IFAId>
      <Match>
        <AclType></AclType>
        <Acl></Acl>
        <Loopback></Loopback>
      </Match>
      <Action>
        <Md></Md>
        <Mirror></Mirror>
```

```
      <SamplerName></SamplerName>
      <Drop></Drop>
    </Action>
  </TelemetryAction>
</TelemetryActions>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryActions
Table type	Multi-instance table
Row name	TelemetryAction
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IFAId	IFA action ID	Index	Unsigned integer. Value range: 1 to 32.	N/A
Match	Telemetry match	N/A	Members include: • AclType • Acl • Loopback	N/A
AclType	ACL type	N/A	Enumeration: • **1**—IPv4Acl. • **2**—IPv6Acl. • **3**—MACAcl. • **4**—UserAcl.	You must specify the Acl when you specify the AclType.
Acl	ACL name or ACL number.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range based on AclType.	An ACL name must start with an English letter and cannot be **all**. You must specify the AclType when you specify the

Column name	Column description	Column type	Data type and restrictions	Remarks
				Acl.
Loopback	Telemetry loopback	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	If this column is not configured, the default value is **false**.
Action	Telemetry action	N/A	Members include: • Md • Mirror • SamplerName • Drop	You must specify one member at least.
Md	Add metadata	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	If this column is not configured, the default value is **false**.
Mirror	Mirror packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	If this column is not configured, the default value is **false**.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	You must specify the Mirror when you specify the SamplerName.
Drop	Drop original packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	If this column is not configured, the default value is **false**.

MQC/OverheadLayer

This table contains information about processing QoS in which overhead layer type of packet considered.

XML structure

```
<MQC>
  <OverheadLayer>
    <Layer></Layer>
  </OverheadLayer>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	OverheadLayer
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Layer	Type of overhead layer	column	Enumeration: • **1**—Link. • **2**—Physics.	N/A

MQC/SysTruncation

This table contains information about global truncation.

XML structure

```
<MQC>
  <SysTruncation>
    <TruncationLen></TruncationLen>
  </SysTruncation>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	SysTruncation
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TruncationLen	Truncation length.	column	Unsigned integer.	The value depends on device.

MQC/MonitorGroup

This table contains information about monitor group.

XML structure

```
<MQC>
  <MonitorGroup>
    <Group>
      <GroupID></GroupID>
      <SamplerName></SamplerName>
    </Group>
  </MonitorGroup>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MonitorGroup
Table type	Multi -instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitor group id.	Index	Unsigned integer.	The value depends on device.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	Support for this column depends on the device model.

MQC/MonitorPort

This table contains information about monitor groups applied to interfaces.

XML structure

```
<MQC>
  <MonitorPort>
    <MonitorPort>
```

```
      <GroupID></GroupID>
      <IfIndex></IfIndex>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VRF></VRF>
        <ErspanVer></ErspanVer>
      </IP>
      <Mac></Mac>
    </MonitorPort>
  </MonitorPort>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MonitorPort
Table type	Multi -instance table
Row name	MonitorPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitoring group id.	Index	Unsigned integer.	The value depends on device.
IfIndex	Interface index.	Index	Unsigned integer.	N/A
IP	Specify IP information for mirroring traffic to an interface in GRE format	Data structure	Members include: • DestIP • SrcIP • DSCP • VLAN • VRF	DestIP and SrcIP must both be specified. DSCP, VLAN, and VRF can be optionally specified when DestIP and SrcIP are configured.
DestIP	Destination IP address or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.54.
SrcIP	Source IP address or IPv6	N/A	String, dotted decimal notation.	Example: 10.153.93.60.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		Or hexadecimal string, colon-separated. Length: 1 to 46	
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ErspanVer	ERSPAN version	N/A	Enumeration: **3**—ERSPAN V3.	N/A
Mac	Destination MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

MQC/MPortDynamic

This table contains information about dynamic monitoring ports, which are found by IP address.

XML structure

```
<MQC>
  <MPortDynamic>
    <Port>
      <GroupID></GroupID>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VRF></VRF>
      <Mac></Mac>
      <ErspanVer></ErspanVer>
    </Port>
  </MPortDynamic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MPortDynamic

Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitoring group ID	Index	Unsigned integer.	The value depends on device.
DestIP	Destination IP address or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.54.
SrcIP	Source IP address or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Destination MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ErspanVer	ERSPAN version	N/A	Enumeration: **3**—ERSPAN V3.	N/A

MQC/Strip

This table contains information about strip.

XML structure

```
<MQC>
  <Strip>
    <Strip>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <OffSetValue></OffSetValue>
      <HeadLength></HeadLength>
```

```
      <DstMACAddr></DstMACAddr>
      <SrcMACAddr></SrcMACAddr>
      <VlanID></VlanID>
      <Dot1p></Dot1p>
      <EthTypeID></EthTypeID>
    </Strip>
  </Strip>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Strip
Table type	Multi -instance table
Row name	Strip
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
Type	Strip type.	column	Enumeration: • **0**—strip header. • **1**—top-most-vlan. • **2**—position l2. • **3**—position l3. • **4**—position l4. • **5**—vxlan. • **6**—nvgre. • 7—gre.	Required.
OffSetValue	Strip offset value.	column	Unsigned integer.	The value depends on device.
HeadLength	Length of a GRE header	column	Unsigned integer Value range: 4 to 16.	The value depends on user configuration. The value of this column is valid if the type is gre.
DstMACAddr	Destination MAC address	column	Six groups of two hexadecimal digits, hyphen-separated.	DstMACAddr, SrcMACAddr, and EthTypeID must be added together. The value of this column is

Column name	Column description	Column type	Data type and restrictions	Remarks
				valid if the type is gre.
SrcMACAddr	Source MAC address	column	Six groups of two hexadecimal digits, hyphen-separated.	DstMACAddr, SrcMACAddr, and EthTypeID must be added together. The value of this column is valid if the type is gre.
VlanID	VLAN tag ID	column	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if the type is gre.
Dot1p	802.1p CoS	column	Unsigned integer. Value range: 0 to 7.	The value of this column is valid if the type is gre.
EthTypeID	Ethernet type ID	column	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	The value of this column is valid if the type is gre.

MQC/Nest

This table contains information about nest.

XML structure

```
<MQC>
  <Nest>
    <Nest>
      <BehaviorName></BehaviorName>
      <VlanID></VlanID>
      <Dot1p></Dot1p>
    </Nest>
  </Nest>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Nest
Table type	Multi -instance table
Row name	Nest
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
VlanID	Vlan id.	column	Unsigned integer. Value range: 1 to 4094.	Required.
Dot1p	802.1p COS.	column	Unsigned integer. Value range: 0 to 7.	N/A

MQC/BehaviorTruncation

This table contains information about truncation of behavior.

XML structure

```
<MQC>
  <BehaviorTruncation>
    <Truncation>
      <BehaviorName></BehaviorName>
      <Truncation></Truncation>
    </Truncation>
  </BehaviorTruncation>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	BehaviorTruncation
Table type	Multi -instance table
Row name	Truncation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Truncation	Whether to truncation.	column	Boolean • true—Truncation. • false—Not truncation.	Required.

MQC/TimeStamp

This table contains information about time stamp.

XML structure

```
<MQC>
  <TimeStamp>
    <TimeStamp>
      <BehaviorName></BehaviorName>
      <DstMACAddr></DstMACAddr>
      <SrcMACAddr></SrcMACAddr>
      <EthType></EthType>
    </TimeStamp>
  </TimeStamp>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TimeStamp
Table type	Multi -instance table
Row name	TimeStamp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
DstMACAddr	Destination MAC address.	column	Six groups of two hexadecimal digits, hyphen-separated..	DstMACAddr, SrcMACAddr and EthType must be add together and required.
SrcMACAddr	Source MAC	column	Six groups of two	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.		hexadecimal digits, hyphen-separated..	
EthType	Ethtype id of timestamp.	column	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF..	Required.

MQC/VSIPolicy

This table contains information about QoS policies applied to VSI.

XML structure

```
<MQC>
  <VSIPolicy>
    <Application>
      <VSI></VSI>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </VSIPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VSIPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSI	Name of VSI	index	String. Length: 1 to 31 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	

MQC/AccountInterfacePolicy

This table contains information about QoS accounting policies applied to interfaces.

XML structure

```
<MQC>
  <AccountInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
    </Application>
  </AccountInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AccountInterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.Mode cannot be modified .

MQC/RemarkInterfacePolicy

This table contains information about QoS remarking policies applied to interfaces.

XML structure

```
<MQC>
  <RemarkInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
    </Application>
  </RemarkInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	RemarkInterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.Mode cannot be modified .

MQC/TapInterfacePolicy

This table contains information about QoS tap policies applied to interfaces.

XML structure

```
<MQC>
  <TapInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
    </Application>
  </TapInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TapInterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.Mode cannot be modified .

MQC/TrafficRate

This table contains information about traffic rate threshold.

XML structure

```
<MQC>
  <TrafficRate>
    <Action>
      <BehaviorName></BehaviorName>
      <LowThresholdpps></LowThresholdpps>
      <HighThresholdpps></HighThresholdpps>
    </Action>
  </TrafficRate>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TrafficRate
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThresholdpps	The value of low threshold	column	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
HighThresholdpps	The value of high threshold	column	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A

MQC/ACCategoryPolicy

This table contains information about QoS policies of the specified types applied to AC interfaces.

XML structure

```
<MQC>
  <ACCategoryPolicy>
    <AC>
      <IfName></IfName>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <ShareMode></ShareMode>
    </AC>
  </ACCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACCategoryPolicy
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer.	N/A
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/TrafficPolicy

This table contains information about traffic policy of behavior.

XML structure

```
<MQC>
  <TrafficPolicy>
    <Action>
      <BehaviorName></BehaviorName>
      <PolicyName></PolicyName>
    </Action>
  </TrafficPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TrafficPolicy
Table type	Multi-instance table
Row name	Action
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
PolicyName	Traffic policy name	N/A	String. Length: 1 to 31 characters.	N/A

Appendix

This section describes how to configure an ACL rule and an inner ACL rule.

- There are two methods of configuring an ACL rule:
  - Use the ACL group method.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>false</Not>
      <Acl>
        <IPv4Acl>3000</IPv4Acl>
        <Inner>false</Inner>
      </Acl>
    </Rule>
  </Rules>
</MQC>
```

  - Use the IPv4 ACL node method.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>false</Not>
      <IPv4Acl>3000</IPv4Acl>
    </Rule>
  </Rules>
</MQC>
```

- Configure an inner ACL rule.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
```

```
        <Not>false</Not>
        <Acl>
          <IPv4Acl>3000</IPv4Acl>
          <Inner>true</Inner>
        </Acl>
      </Rule>
    </Rules>
  </MQC>
```

MQC/TunnelBandwidths

This table contains information about the tunnel bandwidth.

XML structure

```
<MQC>
  <TunnelBandwidths>
    <TunnelBandwidth>
      <IfName></IfName>
      <Direction></Direction>
      <BandwidthKbps></BandwidthKbps>
    </TunnelBandwidth>
  </TunnelBandwidths>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TunnelBandwidths
Table type	Multi-instance table
Row name	TunnelBandwidth
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Direction	Application direction.	Index	Enumeration: • **downstream**—The application direction is downstream**.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthKbps	Tunnel bandwidth in kbps.	N/A	Unsigned integer.	N/A

Appendix

This section describes how to configure an ACL rule and an inner ACL rule.

- There are two methods of configuring an ACL rule:
  - Use the ACL group method.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>false</Not>
      <Acl>
        <IPv4Acl>3000</IPv4Acl>
        <Inner>false</Inner>
      </Acl>
    </Rule>
  </Rules>
</MQC>
```

  - Use the IPv4 ACL node method.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>false</Not>
      <IPv4Acl>3000</IPv4Acl>
    </Rule>
  </Rules>
</MQC>
```

- Configure an inner ACL rule.

```
<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>false</Not>
      <Acl>
        <IPv4Acl>3000</IPv4Acl>
        <Inner>true</Inner>
      </Acl>
    </Rule>
```

```
    </Rules>
  </MQC>
```

MQC/Erspan

This table contains information about ERSPAN.

XML structure

```
<MQC>
  <Erspan>
    <SwitchID></SwitchID>
  </Erspan>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Erspan
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchID	Switch ID	N/A	Unsigned integer. Value range: 0 to 1023.	N/A

Contents

MQC 1

MQC/GlobalRunInfo 1
XML structure 1
Table description 1
Columns 1
MQC/AppRunInfo 1
XML structure 1
Table description 2
Columns 2
MQC/CBRunInfo 3
XML structure 3
Table description 3
Columns 4
MQC/AccountRunInfo 5
XML structure 5
Table description 5
Columns 6
MQC/CARRunInfo 7
XML structure 7
Table description 7
Columns 8
MQC/Classifiers 9
XML structure 9
Table description 10
Columns 10
MQC/Behaviors 10
XML structure 10
Table description 11
Columns 11
MQC/Policies 12
XML structure 12
Table description 13
Columns 13
MQC/CBMaps 13
XML structure 13
Table description 14
Columns 14
MQC/Rules 15
XML structure 15
Table description 18
Columns 18
MQC/Remark 24
XML structure 24
Table description 24
Columns 25
MQC/Redirect 27
XML structure 28
Table description 28
Columns 29
MQC/Mirror 32
XML structure 32
Table description 33
Columns 33
MQC/MirrorDynamicIF 36
XML structure 36
Table description 36
Columns 37

MQC/MirroringLocalPrecedence 38
XML structure 38
Table description 38
Columns 38
MQC/Filter 38
XML structure 39
Table description 39
Columns 39
MQC/AssuredForwarding 39
XML structure 39
Table description 40
Columns 40
MQC/ExpeditedForwarding 40
XML structure 40
Table description 41
Columns 41
MQC/StrictPriority 42
XML structure 42
Table description 42
Columns 42
MQC/WFQ 43
XML structure 43
Table description 43
Columns 43
MQC/CAR 44
XML structure 44
Table description 44
Columns 45
MQC/GTS 48
XML structure 48
Table description 49
Columns 49
MQC/ReservedBandwidth 49
XML structure 49
Table description 50
Columns 50
MQC/GlobalPolicy 50
XML structure 50
Table description 51
Columns 51
MQC/VlanPolicy 51
XML structure 51
Table description 52
Columns 52
MQC/ACPolicy 52
XML structure 52
Table description 53
Columns 53
MQC/InterfacePolicy 54
XML structure 54
Table description 54
Columns 55
MQC/IfPolicyCBMap 55
XML structure 56
Table description 56
Columns 56
MQC/GlobalPolicyCBMap 57
XML structure 57
Table description 58
Columns 58
MQC/VLANPolicyCBMap 59
XML structure 59

Table description 60
Columns 60
MQC/ACPolicyCar 61
XML structure 61
Table description 62
Columns 62
MQC/IfPolicyCar 66
XML structure 66
Table description 67
Columns 67
MQC/IfPolicyAF 71
XML structure 72
Table description 72
Columns 72
MQC/IfPolicyEF 73
XML structure 73
Table description 74
Columns 74
MQC/IfPolicyWFQ 75
XML structure 75
Table description 75
Columns 76
MQC/IfPolicyEnhance 76
XML structure 76
Table description 77
Columns 77
MQC/IfPolicyPostPosition 78
XML structure 78
Table description 78
Columns 78
MQC/IfPolicyEnhanceCBMap 79
XML structure 79
Table description 79
Columns 80
MQC/GlobalPolicyEnhance 81
XML structure 81
Table description 81
Columns 81
MQC/GlobalPolicyEnhanceCBMap 82
XML structure 82
Table description 82
Columns 82
MQC/Account 83
XML structure 83
Table description 83
Columns 84
MQC/PacketRate 84
XML structure 84
Table description 84
Columns 85
MQC/IfPolicyAccount 85
XML structure 85
Table description 85
Columns 86
MQC/VLANPolicyCar 86
XML structure 86
Table description 87
Columns 87
MQC/VLANPolicyAccount 91
XML structure 91
Table description 92
Columns 92

MQC/GlobalPolicyCar 93
XML structure 93
Table description 93
Columns 94
MQC/GlobalPolicyAccount 98
XML structure 98
Table description 98
Columns 98
MQC/Capability 99
XML structure 99
Table description 99
Columns 99
MQC/PostClassify 100
XML structure 100
Table description 100
Columns 100
MQC/GlobalCategoryPolicy 101
XML structure 101
Table description 101
Columns 101
MQC/InterfaceCategoryPolicy 102
XML structure 102
Table description 102
Columns 103
MQC/IfCategoryPolicyCBMap 103
XML structure 104
Table description 104
Columns 104
MQC/GlobalCategoryPolicyCBMap 105
XML structure 106
Table description 106
Columns 106
MQC/IfCategoryPolicyCar 107
XML structure 107
Table description 108
Columns 108
MQC/IfCategoryPolicyAF 113
XML structure 113
Table description 113
Columns 114
MQC/IfCategoryPolicyEF 115
XML structure 115
Table description 115
Columns 116
MQC/IfCategoryPolicyWFQ 117
XML structure 117
Table description 117
Columns 117
MQC/IfCategoryPolicyAccount 118
XML structure 118
Table description 119
Columns 119
MQC/GlobalCategoryPolicyCar 120
XML structure 120
Table description 121
Columns 121
MQC/GlobalCategoryPolicyAccount 125
XML structure 125
Table description 126
Columns 126
MQC/IfCategoryPolicyGts 127
XML structure 127

Table description 127
Columns 128
MQC/GlobalCategoryPolicyGts 129
XML structure 129
Table description 129
Columns 130
MQC/Telemetry 131
XML structure 131
Table description 131
Columns 131
MQC/TelemetryRoles 132
XML structure 132
Table description 133
Columns 133
MQC/TelemetryLoopbacks 133
XML structure 133
Table description 134
Columns 134
MQC/TelemetryGlobalEnable 134
XML structure 134
Table description 134
Columns 135
MQC/TelemetryGlobalPacketDrop 135
XML structure 135
Table description 135
Columns 135
MQC/TelemetryGlobalRole 135
XML structure 136
Table description 136
Columns 136
MQC/TelemetryAction 136
XML structure 136
Table description 137
Columns 137
MQC/Capabilities 138
XML structure 138
Table description 139
Columns 139
MQC/OverheadLayer 141
XML structure 142
Table description 142
Columns 142
MQC/SysTruncation 142
XML structure 142
Table description 142
Columns 143
MQC/SysTruncationCapa 143
XML structure 143
Table description 143
Columns 143
MQC/MonitorGroup 144
XML structure 144
Table description 144
Columns 144
MQC/MonitorGroupCapa 144
XML structure 144
Table description 145
Columns 145
MQC/MonitorPort 145
XML structure 145
Table description 146
Columns 146

MQC/MPortDynamic ····· 147
XML structure ····· 147
Table description ····· 147
Columns ····· 147
MQC/Strip ····· 148
XML structure ····· 148
Table description ····· 149
Columns ····· 149
MQC/StripCapa ····· 150
XML structure ····· 150
Table description ····· 150
Columns ····· 150
MQC/Nest ····· 151
XML structure ····· 151
Table description ····· 151
Columns ····· 151
MQC/BehaviorTruncation ····· 151
XML structure ····· 151
Table description ····· 152
Columns ····· 152
MQC/TimeStamp ····· 152
XML structure ····· 152
Table description ····· 153
Columns ····· 153
MQC/VSIPolicy ····· 153
XML structure ····· 153
Table description ····· 154
Columns ····· 154
MQC/VSIPolicyCBMap ····· 154
XML structure ····· 154
Table description ····· 155
Columns ····· 155
MQC/AccountInterfacePolicy ····· 156
XML structure ····· 156
Table description ····· 156
Columns ····· 157
MQC/RemarkInterfacePolicy ····· 157
XML structure ····· 157
Table description ····· 157
Columns ····· 158
MQC/TapInterfacePolicy ····· 158
XML structure ····· 158
Table description ····· 158
Columns ····· 159
MQC/IfAccountPolicyCBMap ····· 159
XML structure ····· 159
Table description ····· 160
Columns ····· 160
MQC/IfRemarkPolicyCBMap ····· 161
XML structure ····· 161
Table description ····· 162
Columns ····· 162
MQC/IfTapPolicyCBMap ····· 163
XML structure ····· 163
Table description ····· 164
Columns ····· 164
MQC/TrafficRate ····· 165
XML structure ····· 165
Table description ····· 166
Columns ····· 166
MQC/ACCategoryPolicy ····· 166
XML structure ····· 166

Table description 167
Columns 167
MQC/ACCategoryPolicyCar 168
XML structure 168
Table description 168
Columns 169
MQC/ACCategoryPolicyAccount 173
XML structure 173
Table description 173
Columns 174
MQC/TrafficPolicy 174
XML structure 174
Table description 175
Columns 175
MQC/Srv6Policy 175
XML structure 175
Table description 175
Columns 176
MQC/TunnelBandwidths 176
XML structure 176
Table description 176
Columns 177
MQC/Erspan 177
XML structure 177
Table description 177
Columns 178

MQC

MQC/GlobalRunInfo

This table contains global operation status information.

XML structure

```
<MQC>
  <GlobalRunInfo>
    <ProcessingStatus></ProcessingStatus>
  </GlobalRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalRunInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessingStatus	Global operation status	N/A	Enumeration: • **1**—Idle. • **2**—Busy.	N/A

MQC/AppRunInfo

This table contains policy application information.

XML structure

```
<MQC>
  <AppRunInfo>
    <AppRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
```

```
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <AppPolicyName></AppPolicyName>
      <ApplyStatus></ApplyStatus>
      <IfName></IfName>
    </AppRunInfoEntry>
  </AppRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AppRunInfo
Table type	Multi-instance table
Row name	AppRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global. • **4**—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Interface index if AppType is **1**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. • VLAN ID in the range of 1 to 4094 if AppType is **2**. • **0** if AppType is **3**. • Member ID (0 for a standalone device) if AppType is **4**.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Slot number of the card if AppType is **4**. • **0** is AppType is not **4**.
AppDirection	Application direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
AppPolicyName	Policy name	N/A	String. Length: 0 to 31 characters.	N/A
ApplyStatus	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **2**.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/CBRunInfo

This table contains class-behavior association operation information.

XML structure

```
<MQC>
  <CBRunInfo>
    <CBRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <CBMapIndex></CBMapIndex>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <CBApplyStatus></CBApplyStatus>
    </CBRunInfoEntry>
  </CBRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Item	Description
Table name	CBRunInfo
Table type	Multi-instance table
Row name	CBRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global. • **4**—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Interface index if AppType is **1**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. • VLAN ID in the range of 1 to 4094 if AppType is **2**. • **0** if AppType is **3**. • Member ID (0 for a standalone device) if AppType is **4**.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Slot number of the card if AppType is **4**. • **0** is AppType is not **4**.
AppDirection	Application direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
ClassName	Traffic class	N/A	String.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 0 to 31 characters.	
BehaviorName	Traffic behavior name	N/A	String. Length: 0 to 31 characters.	
CBApplyStatus	Class-behavior association application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If a class-behavior association fails to applied on a card when the policy is applied globally or to a VLAN, the value of this field is **3**.

MQC/AccountRunInfo

This table contains traffic statistics information.

XML structure

```
<MQC>
  <AccountRunInfo>
    <AccountRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <CBMapIndex></CBMapIndex>
      <AccountPkts></AccountPkts>
      <AccountBytes></AccountBytes>
      <Accountpps></Accountpps>
      <Accountbps></Accountbps>
    </AccountRunInfoEntry>
  </AccountRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AccountRunInfo
Table type	Multi-instance table
Row name	AccountRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global. • **4**—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Interface index if AppType is **1**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. • VLAN ID in the range of 1 to 4094 if AppType is **2**. • **0** if AppType is **3**. • Member ID (0 for a standalone device) if AppType is **4**.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Slot number of the card if AppType is **4**. • **0** is AppType is not **4**.
AppDirection	Application direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
AccountPkts	Traffic statistic in packets	N/A	Unsigned integer. Value range: 0 to 2^{64}–1.	N/A
AccountBytes	Traffic statistic in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64}–1.	N/A
Accountpps	Traffic statistic in packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64}–1.	N/A
Accountbps	Traffic statistic in bits per	N/A	Unsigned integer. Value range: 0 to 2^{64}–1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	second			

MQC/CARRunInfo

This table contains CAR operation information. Aggregate CAR and hierarchical CAR are not supported.

XML structure

```
<MQC>
  <CARRunInfo>
    <CARRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <CBMapIndex></CBMapIndex>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
    </CARRunInfoEntry>
  </CARRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CARRunInfo
Table type	Multi-instance table
Row name	CARRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: • **1**—Interface. • **2**—VLAN. • **3**—Global. • **4**—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Interface index if AppType is **1**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. • VLAN ID in the range of 1 to 4094 if AppType is **2**. • **0** if AppType is **3**. • Member ID (0 for a standalone device) if AppType is **4**.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Slot number of the card if AppType is **4**. • **0** is AppType is not **4**.
AppDirection	Application direction	Index	Enumeration: • **1**—Inbound. • **2**—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information	N/A	Unsigned integer.	The value of this

Column name	Column description	Column type	Data type and restrictions	Remarks
	rate			column depends on the device model. If PIR is not configured, 0xFFFFFFFF is returned.
GreenPkts	Green packet statistic in packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
GreenBytes	Green packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
RedPkts	Red packet statistic in packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
RedBytes	Red packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
YellowPkts	Yellow packet statistic in packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
YellowBytes	Yellow packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.

MQC/Classifiers

This table contains information about classifiers.

XML structure

```
<MQC>
    <Classifiers>
      <Classifier>
        <Name></Name>
        <Operator></Operator>
        <Description></Description>
        <RuleNum></RuleNum>
        <DefineMode></DefineMode>
        <NextRuleID></NextRuleID>
      </Classifier>
    </Classifiers>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Classifiers
Table type	Multi-instance table
Row name	Classifier
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic Classifier name.	Index	String. Length: 1 to 31 characters.	N/A
Operator	Match operator of the traffic classifier	N/A	Enumeration: • **1**—And. • **2**—Or.	When the **Operator** column is **1**, the traffic classifier matches the packets that match all its match criteria. When the **Operator** column is **2**, the traffic classifier matches the packets that match any of its match criteria.
Description	Traffic classifier description.	N/A	String. Length: 1 to 127 characters.	N/A
RuleNum	Number of rules.	N/A	Unsigned integer.	N/A
DefineMode	Define Mode.	N/A	Enumeration: • **1**—System defined. • **2**—User defined.	N/A
NextRuleID	ID for create a new rule.	N/A	Unsigned integer.	N/A

MQC/Behaviors

This table contains information about behaviors.

XML structure

```
<MQC>
```

```
    <Behaviors>
      <Behavior>
        <Name></Name>
        <ActionMask></ActionMask>
        <DefineMode></DefineMode>
      </Behavior>
    </Behaviors>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Behaviors
Table type	Multi-instance table
Row name	Behavior
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionMask	Mask of action	N/A	Unsigned integer.	Action mask defines bit mask that it represents the action information of the behavior, defined below: ACCOUNT 0x02 FILTER 0x04 NEST 0x08 REMARK 0x10 REDIRECT 0x20 MIRROR 0x40 CAR 0x80 PRIMAP 0x100 GTS 0x200 AF 0x400 EF 0x800 WFQ 0x1000 WRED 0x2000 POLICY 0x4000 PKTRATE 0x8000 WEIGHT 0x10000
DefineMode	Define Mode.	N/A	Enumeration: • **1**—System defined. • **2**—User defined.	N/A

MQC/Policies

This table contains information about policies.

XML structure

```
<MQC>
   <Policies>
     <Policy>
       <Name></Name>
       <Type></Type>
       <CBMapNum></CBMapNum>
       <DefineMode></DefineMode>
       <NextCBMapID></NextCBMapID>
     </Policy>
   </Policies>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Policy name	Index	String. Length: 1 to 31 characters.	N/A
Type	Policy type	N/A	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
CBMapNum	Number of class-behavior associations	N/A	Unsigned integer.	N/A
DefineMode	Define Mode.	N/A	Enumeration: • **1**—System defined. • **2**—User defined.	N/A
NextCBMapID	ID for create a new CBMap.	N/A	Unsigned integer.	N/A

MQC/CBMaps

This table contains information about class-behavior associations.

XML structure

```
<MQC>
    <CBMaps>
      <CBMap>
        <PolicyName></PolicyName>
        <ClassifierName></ClassifierName>
        <BehaviorName></BehaviorName>
        <Mode></Mode>
```

```
      <DefineMode></DefineMode>
    </CBMap>
  </CBMaps>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CBMaps
Table type	Multi-instance table
Row name	CBMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassifierName	Traffic class name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • **2**—Qppb. • **16**—Dcbx. • **32**—Ciel. • **64**—Loose. • **128**—Division.	When the **Mode** column is **0**, there is no restriction on the classifier-behavior association. When the **Mode** column is **2**, the classifier-behavior association applies only to QPPB. When the **Mode** column is **16**, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX). When the **Mode** column is **32**, the classifier-behavior association applies only to Ciel. When the **Mode** column is **64**, the classifier-behavior association applies only to Loose. When the **Mode** column is **128**, the classifier-behavior association applies only to division.
DefineMode	Define Mode.	N/A	Enumeration: • **1**—System defined. • **2**—User defined.	N/A

MQC/Rules

This table contains information about rule.

XML structure

```
<MQC>
  <Rules>
    <Rule>
```

```
<ClassName></ClassName>
<RuleID></RuleID>
<Not></Not>
<PktType></PktType>
<Acl>
  <IPv4Acl></IPv4Acl>
  <IPv6Acl></IPv6Acl>
  <Inner></Inner>
  <Mpls-inner></Mpls-inner>
  <raw-vpn></raw-vpn>
  <MACAcl></MACAcl>
  <UserAcl></UserAcl>
</Acl>
<IPv4Acl></IPv4Acl>
<IPv6Acl></IPv6Acl>
<SrcMac></SrcMac>
<DestMac></DestMac>
<ServiceVLANID></ServiceVLANID>
<CustomerVLANID></CustomerVLANID>
<ServiceDot1pList>
  <ServiceDot1p></ServiceDot1p>
</ServiceDot1pList>
<CustomerDot1pList>
  <CustomerDot1p></CustomerDot1p>
</CustomerDot1pList>
<ExpList>
  <Exp></Exp>
</ExpList>
<InnerExpList>
  <InnerExp></InnerExp>
</InnerExpList>
<IPPrecedenceList>
  <IPPrecedence></IPPrecedence>
</IPPrecedenceList>
<IPv6PrecedenceList>
  <IPv6Precedence></IPv6Precedence>
</IPv6PrecedenceList>
<LocalPrecedenceList>
  <LocalPrecedence></LocalPrecedence>
</LocalPrecedenceList>
<DscpList>
  <Dscp></Dscp>
</DscpList>
<IPv6DscpList>
  <IPv6Dscp></IPv6Dscp>
</IPv6DscpList>
<DropPriorityList>
  <DropPriority></DropPriority>
```

```
</DropPriorityList>
<QoSLocalID></QoSLocalID>
<QoSLocalIDOut></QoSLocalIDOut>
<MplsLabelList>
  <MplsLabel></MplsLabel>
</MplsLabelList>
<InnerMplsLabelList>
  <InnerMplsLabel></InnerMplsLabel>
</InnerMplsLabelList>
<PktLength>
  <Min></Min>
  <Max></Max>
</PktLength>
<MplsLabelRange>
  <LabelStart></LabelStart>
  <LabelEnd></LabelEnd>
</MplsLabelRange>
<InnerMplsLabelRange>
  <InnerLabelStart></InnerLabelStart>
  <InnerLabelEnd></InnerLabelEnd>
</InnerMplsLabelRange>
<RTPPort>
  <PortStart></PortStart>
  <PortEnd></PortEnd>
</RTPPort>
<Application></Application>
<ApplicationGroup></ApplicationGroup>
<Vxlan></Vxlan>
<VxlanAny></VxlanAny>
<TunnelID></TunnelID>
<VLANTag></VLANTag>
<TunnelDscpList>
  <TunnelDscp></TunnelDscp>
</TunnelDscpList>
<INTIFA></INTIFA>
<OutBoundInterface></OutBoundInterface>
<Mpls></Mpls>
<Nvgre></Nvgre>
<NvgreAny></NvgreAny>
<RoCEv2>
  <PktType></PktType>
  <OpCode></OpCode>
  <DstQpair></DstQpair>
  <SrcQpair></SrcQpair>
  <Nack></Nack>
</RoCEv2>
<SdwanTte>
  <SiteID></SiteID>
```

```
      <DeviceID></DeviceID>
      <InterfaceID></InterfaceID>
    </SdwanTte>
    <VRF></VRF>
    <OutBoundIfName></OutBoundIfName>
  </Rule>
 </Rules>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Traffic class name	Index	String. Length: 1 to 31 characters.	N/A
RuleID	ID of the rule	Index	Unsigned integer	N/A
Not	Whether the rule is used as an unsuccessful match criterion	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
PktType	Packet type to be matched	N/A	Enumeration: • **1**—Any. • **2**—IP. • **3**—IPv6. • **4**—Arp. • **5**—Bt. • **6**—Bridge. • **7**—Route.	When the **PktType** column is **1**, the rule matches all packets. When the **PktType** column is **2**, the rule matches IPv4 packets. When the **PktType** column is **3**, the rule matches IPv6 packets. When the **PktType** column is **4**, the rule matches ARP packets. When the **PktType** column is **5**, the rule matches BitTorrent packets. When the **PktType** column is **6**, the rule

Column name	Column description	Column type	Data type and restrictions	Remarks
				matches Layer 2 forwarded packets. When the **PktType** column is **7**, the rule matches Layer 3 forwarded packets.
Acl	Match ACL	Data structure	Members include: • **IPv4Acl**. • **IPv6Acl**. • **Inner.** • **Mpls-inner** • **Raw-vpn**	IPv4Acl and IPv6Acl cannot be specified together. Inner and Mpls-inner cannot be specified together.
IPv4ACl	Match IPv4 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
IPv6ACl	Match IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
Inner	Match inner ACL.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Mpls-inner	Match the inner header information of MPLS packets.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Raw-vpn	Match the raw VRF index.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
MACAcl	Match MAC ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 4000 to 4999.	An ACL name must start with an English letter and cannot be **all**.
UserAcl	Match User ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 5000 to 5999.	An ACL name must start with an English letter and cannot be **all**.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4ACl	Match IPv4 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
IPv6ACl	Match IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
SrcMac	Match a source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DestMac	Match a destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
ServiceVLANID	Match the service provider VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A
CustomerVLANID	Match the customer VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A
ServiceDot1p	Match the 802.1p priority of the service provider network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
CustomerDot1p	Match the 802.1p priority of the customer network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Exp	Match MPLS EXP	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	value.			
InnerExp	Match inner MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv6Precedence	Match IPv6 precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LocalPrecedence	Match local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
IPv6Dscp	Match IPv6 DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DropPriority	Match drop precedence.	N/A	Unsigned integer. Value range: 0 to 2.	N/A
QoSLocalID	Match local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
QoSLocalIDOut	Match the local QoS ID in the outbound direction.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
MplsLabel	Match MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerMplsLabel	Match inner MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
PktLength	Match packet length.	Data structure	Members include: • **Min**. • **Max**.	N/A
Min	The minimum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Max	The maximum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MplsLabelRange	Match MPLS label range.	Data structure	Members include: • **LabelStart**. • **LabelEnd**.	N/A
LabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
LabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InnerMplsLabelRange	Match inner MPLS label range.	Data structure	Members include: • **InnerLabelStart**. • **InnerLabelEnd**.	N/A
InnerLabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerLabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RTPPort	Match RTP protocol port range.	Data structure	Members include: • **PortStart**. • **PortEnd**.	N/A
PortStart	Start RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
PortEnd	End RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
Application	Match application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/Applications/Application/AppName.
ApplicationGroup	Match application group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/AppGroups/GroupInfo/GroupName.
Vxlan	Match vxlan ID.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
VxlanAny	Match any vxlan ID.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: • **1**—None. • **2**—Single-tagged. • **4**—Double-tagged.	N/A
TunnelDscpList	Match Tunnel DSCP values.	Data structure	Members include: • **TunnelDscp**.	N/A
TunnelDscp	Match Tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
IFA	Inband Flow Analyzer	N/A	Enumeration: • **1**—tcp. • **2**—udp.	N/A
OutBoundInterface	Match output interface	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				“Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Mpls	Mpls type	N/A	Enumeration: • **1**—l2. • **2**—l3.	N/A
Nvgre	Match NVGRE.	N/A	Hexadecimal string. Length: 4 to 6 characters. Value range: 1000 to FFFFFE.	N/A
NvgreAny	Match any NVGRE ID	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	The Nvgre column must be specified when the NvgreAny column is **false**.
RoCEv2	Match RoCEv2 packets	Data structure	Members include: • **PktType**. • **OpCode**. • **DstQpair**. • **SrcQpair**. • **Nack**.	N/A
PktType	Packet type to be matched.	N/A	Enumeration: • **0**—IPv4.	N/A
OpCode	OpCode in BTH to be matched.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
DstQpair	Destination QP in BTH to be matched.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
SrcQpair	Source QP in DETH to be matched.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
Nack	The lower 5 bits of Syndrome in NAK to be matched.	N/A	Unsigned integer. Value range: 0 to 31.	N/A
SdwanTte	Match SDWAN network TTE information.	Data structure	Members include: • **SiteID**. • **DeviceID**. • **InterfaceID**.	N/A
SiteID	Site ID in SDWAN network to be matched.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeviceID	Device ID in SDWAN network to be matched.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
InterfaceID	Interface ID of the SDWAN tunnel interface	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to be matched.			
VRF	VRF instance to be matched.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
OutBoundIfName	Output interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/Remark

This table contains information about marking action.

XML structure

```
<MQC>
   <Remark>
     <Action>
       <BehaviorName></BehaviorName>
       <Type></Type>
       <Color></Color>
       <Value></Value>
       <SrcMACAddr></SrcMACAddr>
       <DstMACAddr></DstMACAddr>
       <SrcIPv4Addr></SrcIPv4Addr>
       <DstIPv4Addr></DstIPv4Addr>
       <SrcIPv6Addr></SrcIPv6Addr>
       <DstIPv6Addr></DstIPv6Addr>
     </Action>
   </Remark>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Remark
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of remark	Index	Enumeration: • **0**—CDot1pTrust. • **1**—Dscp. • **2**—IPPre. • **3**—MplsExp. • **4**—Dot1p. • **5**—LocalID. • **6**—LocalPre. • **7**—DropPre. • **8**—CVlanID. • **9**—SVlanID. • **10**—ImpositionMplsExp. • **12**—AtmClp. • **14**—SecondMplsExp. • **16**—ServiceClass. • **17**—TunnelDscp. • **18**—DstMACAddr. • **19**—FlowID. • **20**—DstIPv4Addr. • **21**—SrcIPv4Addr. • **22**—DstIPv6Addr. • **23**—SrcIPv6Addr. • **24**—LocalIDOut. • **26—**SrcMACAddr.	When the **Type** column is 0, configure an inner-to-outer tag priority copying action. When the **Type** column is **1**, configure a DSCP marking action. When the **Type** column is **2**, configure an IP precedence marking action. When the **Type** column is **3**, configure an EXP value marking action. When the **Type** column is **4**, configure an 802.1p priority marking action. When the **Type** column is **5**, configure the action of setting the specified local QoS ID for packets. When the **Type** column is **6**, configure a local precedence marking action. When the **Type** column is **7**, configure a drop priority marking action. When the **Type** column is **8**, configure a CVLAN marking action. When the **Type** column is **9**, configure a SVLAN marking action. When the **Type** column is **10**, configure an EXP value marking action for added labels. When the **Type** column is **12**, configure the action of setting the CLP bit for ATM cells. When the **Type** column is **14**, configure a second MPLS EXP value marking action. When the **Type** column is **16**, configure the action of setting the service-class for MPLS traffic

Column name	Column description	Column type	Data type and restrictions	Remarks
				engineering. When the **Type** column is **17**, configure a tunnel-DSCP marking action. When the **Type** column is **18**, configure a destination MAC address. When the **Type** column is **19**, configure a FlowID marking action. When the **Type** column is **20**, configure a destination IPv4 address. When the **Type** column is **21**, configure a source IPv4 address. When the **Type** column is **22**, configure a destination IPv6 address. When the **Type** column is **23**, configure a source IPv6 address. When the Type column is **24**, configure the action of setting the specified local QoS ID for packets. This local QoS ID can be matched in the outbound direction. When the **Type** column is **26**, configure a source MAC address.
Color	The color of affected packets	Index	Enumeration: • **0**—No color. • **1**—Green. • **2**—Yellow. • **3**—Red.	Specify different color packets for the priority marking action. Support for the green, red and yellow keyword depends on the device model. When- the **Color** column is **0**, specifies all packets. When the **Color** column is **1**, specifies green packets. When the **Color** column is **2**, specifies yellow packets. When the **Color** column is **3**, specifies red packets.
Value	The value of marking action	N/A	Unsigned integer.	Required when the **Type** column is **1**, **2**, **3**, **4**, 5, **6**, **7**, **8**, **9**, **10**, **12**, **16** or **17**. When the **Type** column is 0, the value is invalid.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When the **Type** column is **8** or **9**, the value range is 1 to 4094. When the **Type** column is **7**, the value range is 0 to 2. When the **Type** column is **5**, the value range is 1 to 4095. When the **Type** column is **2**, **3**, **4**, **6** or **10**, the value range is 0 to 7. When the **Type** column is **1**, the value range is 0 to 63. When the **Type** column is **12**, the value range is 0 to 1. When the **Type** column is **16**, the value range is 0 to 7 or a customized value. When the **Type** column is **17**, the value range is 0 to 63. When the **Type** column is **19**, the value range is 1 to 65535. When the **Type** column is **24**, the value range is 1 to 128.
SrcMACAddr	The source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required when the **Type** column is **26**
DstMACAddr	The destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required when the **Type** column is **18**
SrcIPv4Addr	The source IPv4 address.	N/A	String, dotted decimal notation.	Required when the **Type** column is 2**1**
DstIPv4Addr	The destination IPv4 address.	N/A	String, dotted decimal notation.	Required when the **Type** column is **20**
SrcIPv6Addr	The source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Required when the **Type** column is **23**
DstIPv6Addr	The destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Required when the **Type** column is **22**

MQC/Redirect

This table contains information about redirect.

XML structure

```
<MQC>
  <Redirect>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <TrackOap></TrackOap>
      <VLANID></VLANID>
      <VSI></VSI>
      <Nexthop>
        <VRF></VRF>
        <IPAddr></IPAddr>
        <IPAddrBackup></IPAddrBackup>
        <Track></Track>
        <TrackBackup></TrackBackup>
      </Nexthop>
      <NatInstance></NatInstance>
      <FailoverGroup>
        <GroupName></GroupName>
        <AftGroupName></AftsGroupName>
        <Channel></Channel>
      </FailoverGroup>
      <MonitorGroupID></MonitorGroupID>
      <SRPolicy>
        <EndPoint></EndPoint>
        <Color></Color>
        <SID></SID>
        <VpnSID></VpnSID>
      </SRPolicy>
      <TunnelGroupID></TunnelGroupID>
      <AccessVpn></AccessVpn>
      <AccessVpnTrack></AccessVpnTrack>
      <AccessVpnBackup></AccessVpnBackup>
      <AccessVpnBackupTrack></AccessVpnBackupTrack>
      <AccessCgnVpn></AccessCgnVpn>
    </Action>
  </Redirect>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Redirect

Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of redirect	Index	Enumeration: • **1**—CPU. • **2**—Interface. • **3**—VSI. • **4**—FailoverGroup. • **6**—Nexthop • **7**—MonitorGroup • **8**—HTTP. • **9**—HTTPS. • **10**—NAT instance. • **12**—SR-policy. • **13**—SRv6-policy. • **14**—TunnelGroup. • **15**—Local. • **16**—Access-Vpn. • **17**—DHCP.	When the **Type** column is **1**, redirect traffic to CPU. When the **Type** column is **2**, redirect traffic to an interface. When the **Type** column is **3**, redirect traffic to a virtual station interface. When the **Type** column is **4**, redirect traffic to a failover group. When the **Type** column is **6**, redirect traffic to nexthop. When the **Type** column is **7**, redirect traffic to monitor group. When the **Type** column is **8**, redirect HTTP traffic to CPU. When the **Type** column is **9**, redirect HTTPS traffic to CPU. When the **Type** column is **10**, redirect traffic to NAT instance. When the **Type** column is **12**, redirect traffic to SR-policy. When the **Type** column is **13**, redirect traffic to SRv6-policy. When the **Type** column is **14**, redirect traffic to Tunnel group. When the **Type** column is **15**, redirect traffic to Local. When the **Type** column is **16**, redirect traffic to Access-Vpn. When the **Type** column is **17**, redirect DHCP traffic

Column name	Column description	Column type	Data type and restrictions	Remarks
				to CPU.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid only when the **Type** column is **2**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
TrackOap	Enable the traffic redirecting action to collaborate with OAP	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The value of this column is valid only when the **Type** column is **2**.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid only when the **Type** column is **2**.
VSI	Name of VSI	N/A	String. Length: 1 to 31 characters.	Required and valid only when the **Type** column is **3**.
Nexthop	Nexthop	N/A	N/A	N/A
VRF	VRF instance name	N/A	String. Length: 0 to 31 characters.	The value of this column is valid if **Type** is **6**.
IPAddr	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **6**. For example, 1.1.1.1, or 1:1::1:1.
IPAddrBackup	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **6**. For example, 1.1.1.1, or 1:1::1:1.
Track	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is **6**.
TrackBackup	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is **6**.
NatInstance	Nat instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **10**.
FailoverGroup	Failover group	Data structure	Members include: • GroupName. • AftsGroupName. • Channel.	N/A
GroupName	Failover group	N/A	String.	The value of this column

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 63 characters.	is valid if **Type** is **4**.
AftGroupName	Aft failover group name	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if **Type** is **4**.
Channel	Channel	N/A	Unsigned integer. Value range: 0 to 1.	The value of this column is valid if **Type** is **4**. Some versions don't support this column. For relevant information, see the XSD document of your product.
MonitorGroupID	Monitor group ID.	N/A	Unsigned integer.	N/A
SRPolicy	SR policy	Data structure	Members include: • EndPoint. • Colort. • SID. • VpnSID.	N/A
EndPoint	Endpoint address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if **Type** is **12** or **13**.
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	The value of this column is valid if **Type** is **12** or **13**.
SID	Public network SID	N/A	Hexadecimal string, colon-separated.	The value of this column is valid if **Type** is **13**. This column and VpnSID cannot be specified together.
VpnSID	Private network SID	N/A	Hexadecimal string, colon-separated.	The value of this column is valid if **Type** is **13**. This column and SID cannot be specified together.
TunnelGroupID	Tunnel group ID	N/A	Unsigned integer.	N/A
AccessVpn	VPN instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **16**.
AccessVpnTrack	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is 1**6**.
AccessVpnBackup	VPN instance name	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if **Type** is **16**.
AccessVpnBackupTrack	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if **Type** is 1**6**.
AccessCgnVp	VPN instance	N/A	String.	The value of this column

Column name	Column description	Column type	Data type and restrictions	Remarks
n	name		Length: 1 to 31 characters.	is valid if **Type** is **16**.

MQC/Mirror

This table contains information about mirroring.

XML structure

```
<MQC>
  <Mirror>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VXLAN></VXLAN>
        <DestPort></DestPort>
        <SrcPort></SrcPort>
        <VRF></VRF>
        <ErspanID></ErspanID>
        <ErspanVer></ErspanVer>
      </IP>
      <Mac></Mac>
      <Board>
       <Chassis></Chassis>
        <Slot></Slot>
        <BackupChassis></BackupChassis>
        <BackupSlot></BackupSlot>
      </Board>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
      <EncapType></EncapType>
      <MonitorGroupID></MonitorGroupID>
      <L2Mirror>
        <ReflectIfName></ReflectIfName>
        <VLAN></VLAN>
      </L2Mirror>
      <IfName></IfName>
    </Action>
  </Mirror>
```

```
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Mirror
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of mirror	Index	Enumeration: • **1**—Interface. • **2**—CPU. • **3**—VLAN. • **4**—Slot. • **5**—Local. • **6**—GRPC. • **7**—IFA. • **8**—MonitorGroup.	When the **Type** column is **1**, mirror to an interface. When the **Type** column is **2**, mirror to CPU. When the **Type** column is **3**, mirror to VLAN. When the **Type** column is **4**, traffic is mirrored to a board. When the **Type** column is **5**, traffic is mirrored to the board on which the mirrored traffic is received or sent out. When the **Type** column is **6**, traffic is mirrored to GRPC. When the **Type** column is **7**, traffic is mirrored to inband flow analyzer processor. When the **Type** column is **8**, traffic is mirrored to a monitoring-group.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if **Type** is **1**. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if **Type** is **3**.
IP	Specify IP for mirroring to interface with GRE or VXLAN format	Data structure	Members include: • DestIP • SrcIP • DSCP • VLAN • VXLAN • VRF	DestIP and SrcIP must both be specified. DSCP, VLAN, VXLAN and VRF can be optionally specified when DestIP and SrcIP are configured. This structure is valid and optional if Type is 1.
DestIP	Destination IPv4 or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.54.
SrcIP	Source IPv4 or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VXLAN	VXLAN ID	N/A	Unsigned integer. Value range: 0 to 16777215.	You must specify the SrcPort and DstPort when you specify the VXLAN.
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SrctPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ErspanID	SPAN ID	N/A	Unsigned integer. Value range: 1 to 1023.	N/A
ErspanVer	ERSPAN version	N/A	Enumeration: • **3**—ERSPAN V3.	N/A
Mac	Specify destination MAC for mirroring to interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of this column is valid and optional if **Type** is **1.**
Board	Specify Board for mirroring to a board.	Data structure	Members include: • Chassis • Slot	If the device is a distributed device in standalone mode or a centralized IRF device,

Column name	Column description	Column type	Data type and restrictions	Remarks
			• BackupChassis • BackupSlot	the slot must be specified. If the device supports mirroring packets to a backup slot, the BackupSlot can be specified. If the device is a distributed device in IRF mode, the chassis and slot must both be specified. If the device supports mirroring packets to a backup slot, the BackupChassis and BackupSlot can be specified. This structure is valid and optional if **Type** is 4.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupChassis	Backup chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupSlot	Backup slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model. The value of this column is valid and optional if **Type** is 1, 4, 5 or 7.
Truncation	Truncation packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	The value of this column is valid if **Type** is 1.
EncapType	Specify encapsulation type for mirrored packet	N/A	Enumeration: • **1**—VXLAN encapsulation.	The value of this column is valid if **Type** is 7.
MonitorGroupID	Monitoring-group ID	N/A	Unsigned integer. Value range : 1 to 128.	The value of this column is valid if **Type** is 8.
L2Mirror	Specify L2Mirror for mirroring to L2 port interface.	Data structure	Members include: • ReflectIfName • VLAN	ReflectIfName and VLAN must both be specified. This structure is valid and optional if Type is 1.
ReflectIfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/MirrorDynamicIF

This table contains information about mirroring packets to a dynamic interface, which is found by IP address.

XML structure

```
<MQC>
  <MirrorDynamicIF>
    <Action>
      <BehaviorName></BehaviorName>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VXLAN></VXLAN>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <VRF></VRF>
      <Mac></Mac>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
      <DynamicIfIndex></DynamicIfIndex>
      <ErspanID></ErspanID>
      <ErspanVer></ErspanVer>
      <DynamicIfName></DynamicIfName>
    </Action>
  </MirrorDynamicIF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MirrorDynamicIF
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
DestIP	Destination IPv4 or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	Example: 10.153.93.54.
SrcIP	Source IPv4 or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VXLAN	VXLAN ID	N/A	Unsigned integer. Value range: 0 to 16777215.	You must specify the SrcPort and DstPort when you specify the VXLAN.
DestPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SrctPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Specify destination MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model.
Truncation	Truncation packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DynamicIfIndex	Dynamic interface index	N/A	Unsigned integer.	The interface found by destination IP address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ErspanID	SPAN ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 1023.	
ErspanVer	ERSPAN version	N/A	Enumeration: • **3**—ERSPAN V3.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/MirroringLocalPrecedence

This table contains information about the local precedence for mirroring traffic.

XML structure

```
<MQC>
  <MirroringLocalPrecedence>
    <Precedence></Precedence>
  </MirroringLocalPrecedence>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MirroringLocalPrecedence
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	Local precedence	N/A	Unsigned integer. Value range: 0 to 7.	N/A

MQC/Filter

This table contains information about filtering action.

XML structure

```
<MQC>
   <Filter>
     <Action>
       <BehaviorName></BehaviorName>
       <Type></Type>
     </Action>
   </Filter>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Filter
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of filter	N/A	Enumeration: • **1**—Deny. • **2**—Permit. • **3**—None.	Required.

MQC/AssuredForwarding

This table contains information about assured-forwarding queue.

XML structure

```
<MQC>
  <AssuredForwarding>
    <Action>
      <BehaviorName></BehaviorName>
      <Kbps></Kbps>
      <Pct></Pct>
      <RemainingPct></RemainingPct>
```

```
    <PIR></PIR>
  </Action>
 </AssuredForwarding>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AssuredForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	When the configuration way of Bandwidth is Kbps, the others can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is Pct, the others can't be configured at the same time.
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is RemainingPct, the others can't be configured at the same time.
PIR	Peak information rate	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A

MQC/ExpeditedForwarding

This table contains information about expedited-forwarding queue.

XML structure

```
<MQC>
 <ExpeditedForwarding>
```

```
    <Action>
      <BehaviorName></BehaviorName>
      <Bandwidth>
        <Kbps></Kbps>
        <CBS></CBS>
        <PIR></PIR>
      </Bandwidth>
      <BandwidthPct>
        <Pct></Pct>
        <CBSRatio></CBSRatio>
      </BandwidthPct>
    </Action>
  </ExpeditedForwarding>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ExpeditedForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Bandwidth	Specify the Bandwidth value in kbps	Data structure	Members include: • **Kbps**. • **CBS**.	When the configuration way of Bandwidth is Bandwidth, the **Kbps** must be specified, and another way can't be configured at the same time.
Kbps	value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
PIR	Peak information rate	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthPct	Specify the percentage of reserved bandwidth.	Data structure	Members include: • **Pct**. • **CBSRatio**.	When the configuration way of Bandwidth is BandwidthPct, the **Pct** must be specified, and another way can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
CBSRatio	CBS Ratio	N/A	Unsigned integer. Value range: 25 to 500.	N/A

MQC/StrictPriority

This table contains information about strict priority queuing.

XML structure

```
<MQC>
  <StrictPriority>
    <Action>
      <BehaviorName></BehaviorName>
      <Enable></Enable>
    </Action>
  </StrictPriority>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	StrictPriority
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
Enable	Enable	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/WFQ

This table contains information about weighted fair queue.

XML structure

```
<MQC>
  <WFQ>
    <Action>
      <BehaviorName></BehaviorName>
      <QueueNum></QueueNum>
    </Action>
  </WFQ>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	WFQ
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	When the value is 0, the device model does not support configuring the QueueNum.

MQC/CAR

This table contains information about car action.

XML structure

```
<MQC>
  <CAR>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <AggregativeName></AggregativeName>
      <HierarchicalName></HierarchicalName>
      <Mode></Mode>
    </Action>
  </CAR>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CAR
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Specify bandwidth Unit	N/A	Enumeration: • **1**—pps. • **2**—kbps. • **3**—percent.	If this column is not configured, the default bandwidth unit is kbps.
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When **GreenActionType** is **19**, continue to process the packet.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When **GreenActionType** is **20**, remark service class value of the packet and send it.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8**, **20**, **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When **YellowActionType** is **19**, continue to process the packet. When **YellowActionType**

Column name	Column description	Column type	Data type and restrictions	Remarks
				is **20**, remark service class value of the packet and send it.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8**, **20**, **YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue. • **20**—remark-service-class-pass.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet. When **RedActionType** is **20**, remark service class value of the packet and

Column name	Column description	Column type	Data type and restrictions	Remarks
				send it.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8**, **20**, **RedActionValue** is 0~7.
AggregativeName	Aggregate CAR action name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
HierarchicalName	Hierarchical CAR action name	N/A	String. Length: 1 to 31 characters. The string must start with an English letter.	N/A
Mode	Match operator	N/A	Enumeration: • **1**—And. • **2**—Or.	N/A

MQC/GTS

This table contains information about GTS actions.

XML structure

```
<MQC>
  <GTS>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <QueueLength></QueueLength>
    </Action>
  </GTS>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GTS
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Bandwidth unit	N/A	Enumeration: • **2**—kbps. • **3**—percent.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	N/A

MQC/ReservedBandwidth

This table contains information about the maximum reserved bandwidth as a percentage of available bandwidth.

XML structure

```
<MQC>
  <ReservedBandwidth>
    <Interface>
      <IfIndex></IfIndex>
      <Pct></Pct>
      <IfName></IfName>
    </Interface>
  </ReservedBandwidth>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ReservedBandwidth
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Pct	Specify the percentage of available bandwidth to be reserved	N/A	Unsigned integer	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalPolicy

This table contains information about global QoS policies.

XML structure

```
<MQC>
  <GlobalPolicy>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </GlobalPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.

MQC/VlanPolicy

This table contains information about QoS policies applied to VLANs.

XML structure

```
<MQC>
  <VlanPolicy>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </VlanPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VlanPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.

MQC/ACPolicy

This table contains information about QoS policies applied to ACs.

XML structure

```
<MQC>
  <ACPolicy>
    <Application>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
      <IfName></IfName>
    </Application>
```

```
  </ACPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/InterfacePolicy

This table contains information about QoS policies applied to interfaces.

XML structure

```
<MQC>
  <InterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
      <Mode></Mode>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
      <IfName></IfName>
    </Application>
  </InterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	InterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode. Mode cannot be modified .
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
ShareModeBoth	Sharing mode for both direction	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyCBMap

This table contains information about class-behavior associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <IfName></IfName>
    </Interface>
  </IfPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • **3**—Succeeded partly.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalPolicyCBMap

This table contains information about class-behavior associations running information applied to global.

XML structure

```
<MQC>
```

```
  <GlobalPolicyCBMap>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
    </Global>
  </GlobalPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyCBMap
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • **3**—Succeeded partly.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/VLANPolicyCBMap

This table contains information about class-behavior associations running information applied to VLANs.

XML structure

```
<MQC>
  <VLANPolicyCBMap>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
```

```
    </VLAN>
  </VLANPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyCBMap
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior	N/A	Enumeration:	N/A

	association application status		• 1—Succeeded. • 2—Failed.	
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/ACPolicyCar

This table contains information about CAR association running information applied to ACs.

XML structure

```
<MQC>
  <ACPolicyCar>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <IfName></IfName>
    </AC>
  </ACPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACPolicyCar
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When **GreenActionType** is **19**, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or **19**, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8,** **GreenActionValue** is 0~7.

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowAction Type	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When **YellowActionType** is **19**, continue to process the packet.
YellowAction Value	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or **19**, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8**, **YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8**, **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyCar

This table contains information about car associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfPolicyCar>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
```

```
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <IfName></IfName>
    </Interface>
  </IfPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyCar
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	information rate			
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionV	Green Action	N/A	Unsigned integer.	When

Column name	Column description	Column type	Data type and restrictions	Remarks
alue	Value			**GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8,** **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowAction Type	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local

Column name	Column description	Column type	Data type and restrictions	Remarks
				precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8,** **YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of

Column name	Column description	Column type	Data type and restrictions	Remarks
				the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8,** **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyAF

This table contains running information about assured-forwarding queue.

XML structure

```
<MQC>
  <IfPolicyAF>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <Bps></Bps>
      <RemainingPct></RemainingPct>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfPolicyAF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyAF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			10,000,000.	
Bps	Bandwidth value in bps	N/A	Unsigned integer. Value range: 8 to 1,000.	N/A
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyEF

This table contains running information about expedited-forwarding queue.

XML structure

```
<MQC>
  <IfPolicyEF>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <CBS></CBS>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfPolicyEF>
```

```
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyWFQ

This table contains running information about weighted fair queue.

XML structure

```
<MQC>
  <IfPolicyWFQ>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <QueueNum></QueueNum>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfPolicyWFQ>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyWFQ
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyEnhance

This table contains information about QoS policies applied to interfaces in enhanced mode.

XML structure

```
<MQC>
  <IfPolicyEnhance>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <IfName></IfName>
      <Status></Status>
    </Application>
```

```
  </IfPolicyEnhance>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfPolicyPostPosition

This table contains information about QoS policies applied to interfaces in postposition mode.

XML structure

```
<MQC>
  <IfPolicyPostPosition>
    <Application>
      <IfName></IfName>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </IfPolicyPostPosition>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyPostPosition
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface Name	Index	String	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/IfPolicyEnhanceCBMap

This table contains information about class-behavior associations running information applied to interfaces in enhanced mode.

XML structure

```
<MQC>
  <IfPolicyEnhanceCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <IfName></IfName>
      <Status></Status>
    </Interface>
  </IfPolicyEnhanceCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhanceCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalPolicyEnhance

This table contains information about global QoS policies in enhanced mode.

XML structure

```
<MQC>
  <GlobalPolicyEnhance>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </GlobalPolicyEnhance>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.

MQC/GlobalPolicyEnhanceCBMap

This table contains information about class-behavior associations running information applied to global in enhanced mode.

XML structure

```
<MQC>
  <GlobalPolicyEnhanceCBMap>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
    </Global>
  </GlobalPolicyEnhanceCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyEnhanceCBMap
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A

MQC/Account

This table contains information about accounting action.

XML structure

```
<MQC>
  <Account>
    <Action>
      <BehaviorName></BehaviorName>
      <Byte></Byte>
      <Packet></Packet>
    </Action>
  </Account>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Account
Table type	Multi-instance table

Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Byte	Accounting in bytes	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Packet	Accounting in packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/PacketRate

This table contains information about protocol packet rate limit actions.

XML structure

```
<MQC>
  <PacketRate>
    <Action>
      <BehaviorName></BehaviorName>
      <PacketRate></PacketRate>
      <AttackDefenseThreshold></AttackDefenseThreshold>
    </Action>
  </PacketRate>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	PacketRate
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
PacketRate	Packet rate in pps	N/A	Unsigned integer.	N/A
AttackDefenseThreshold	Attack defense rate threshold in pps	N/A	Unsigned integer.	N/A

MQC/IfPolicyAccount

This table contains information about accounting running information applied to interfaces.

XML structure

```
<MQC>
  <IfPolicyAccount>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
      <IfName></IfName>
    </Interface>
  </IfPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyAccount
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/VLANPolicyCar

This table contains information about car associations running information applied to VLANs.

XML structure

```
<MQC>
  <VLANPolicyCar>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
```

```
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </VLAN>
  </VLANPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyCar
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.

Column name	Column description	Column type	Data type and restrictions	Remarks
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8,** **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				8, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8,** **YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType**

Column name	Column description	Column type	Data type and restrictions	Remarks
				is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8,** **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/VLANPolicyAccount

This table contains information about accounting running information applied to VLANs.

XML structure

```
<MQC>
```

```
  <VLANPolicyAccount>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </VLAN>
  </VLANPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyAccount
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VALNID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/GlobalPolicyCar

This table contains information about car associations running information applied to global.

XML structure

```
<MQC>
  <GlobalPolicyCar>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </Global>
  </GlobalPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyCar
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local

Column name	Column description	Column type	Data type and restrictions	Remarks
				precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8,** **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is

Column name	Column description	Column type	Data type and restrictions	Remarks
				6, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8, YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8, RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/GlobalPolicyAccount

This table contains information about accounting running information applied to global.

XML structure

```
<MQC>
  <GlobalPolicyAccount>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </Global>
  </GlobalPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyAccount
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/Capability

This table contains MQC capability information, and it is used to obtain MQC direction parameters.

XML structure

```
<MQC>
  <Capability>
    <MQCIfType></MQCIfType>
    <MQCVlanType></MQCVLanType>
    <MQCGlobalType></MQCGlobalType>
  </Capability>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`MQCIfType`	MQC interface type	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound. • **3—**Both**.**	N/A
`MQCVlanType`	MQC VLAN type	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound. • **3—**Both**.**	N/A
`MQCGlobalType`	MQC global type	N/A	Enumeration: • **1**—Inbound. • **2**—Outbound. • **3—**Both**.**	N/A

MQC/PostClassify

This table contains information about processing QoS after other modules running information applied to the outbound direction of an interfaces.

XML structure

```
<MQC>
  <PostClassify>
    <Application>
      <IfIndex></IfIndex>
      <enable></enable>
    </Application>
  </PostClassify>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	PostClassify
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
enable	Enable	Column	Boolean • true—Conform. • false—Not conform.	N/A

MQC/GlobalCategoryPolicy

This table contains information about global QoS category policies.

XML structure

```
<MQC>
  <GlobalCategoryPolicy>
    <Application>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <Status></Status>
    </Application>
  </GlobalCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PreOrder	Application priority	N/A	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.

MQC/InterfaceCategoryPolicy

This table contains information about QoS policies of the specified types applied to interfaces.

XML structure

```
<MQC>
  <InterfaceCategoryPolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <Status></Status>
      <ShareMode></ShareMode>
      <ShareModeBoth></ShareModeBoth>
      <IfName></IfName>
    </Application>
  </InterfaceCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	InterfaceCategoryPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
ShareModeBoth	Sharing mode for both direction	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfCategoryPolicyCBMap

This table contains information about class-behavior associations running information for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • **2**—Qppb. • **16**—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalCategoryPolicyCBMap

This table contains information about class-behavior associations running information for QoS category policies applied to global.

XML structure

```
<MQC>
  <GlobalCategoryPolicyCBMap>
    <Global>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
    </Global>
  </GlobalCategoryPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyCBMap
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • **2**—Qppb. • **16**—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-behavior association application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed.	N/A
MatchedPackets	Matched packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/IfCategoryPolicyCar

This table contains information about car associations running information for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyCar>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
```

```
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyCar
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Outbound.	
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	N/A
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark the DSCP value of the packet and send it. When **GreenActionType** is **3**, remark the IP precedence of the packet and send it. When **GreenActionType** is **4**, remark the EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark the 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark the CLP bit of the ATM packet and

Column name	Column description	Column type	Data type and restrictions	Remarks
				send it. When **GreenActionType** is **7**, remark the DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark the local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When **GreenActionType** is **19**, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10**, or **19**, **GreenActionValue** is invisible. When **GreenActionType** is **6** or **7**, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, or **8, GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	N/A
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark the DSCP value of the packet and send it. When **YellowActionType** is **3**, remark the IP precedence of the packet and send it. When **YellowActionType** is **4**, remark the EXP of the MPLS packet and

Column name	Column description	Column type	Data type and restrictions	Remarks
				send it. When **YellowActionType** is **5**, remark the 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark the CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark the DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark the local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When **YellowActionType** is **19**, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10**, or **19**, **YellowActionValue** is invisible. When **YellowActionType** is **6** or **7**, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, or **8, YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	N/A
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark the DSCP value of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **3**, remark the IP precedence of the packet and send it. When **RedActionType** is **4**, remark the EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark the 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark the CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark the DE bit of the FR packet and send it. When **RedActionType** is **8**, remark the local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10**, or **19**, **RedActionValue** is invisible. When **RedActionType** is **6** or **7**, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8,** **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfCategoryPolicyAF

This table contains running information about assured-forwarding queue for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyAF>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <Bps></Bps>
      <RemainingPct></RemainingPct>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyAF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyAF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
Bps	Bandwidth value in bps	N/A	Unsigned integer. Value range: 8 to 1,000.	N/A
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 47 characters.	

MQC/IfCategoryPolicyEF

This table contains running information about expedited-forwarding queue for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyEF>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <CBS></CBS>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyEF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyEF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfCategoryPolicyWFQ

This table contains running information about weighted fair queue for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyWFQ>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <QueueNum></QueueNum>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyWFQ>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyWFQ
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF*

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML API Configuration Reference.
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfCategoryPolicyAccount

This table contains information about accounting running information for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyAccount>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
```

```
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyAccount
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalCategoryPolicyCar

This table contains information about car associations running information for QoS category policies applied to global.

XML structure

```
<MQC>
  <GlobalCategoryPolicyCar>
    <Global>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
```

```
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </Global>
  </GlobalCategoryPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyCar
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • **GreenActionType**. • **GreenActionValue**.	
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When **GreenActionType** is **19**, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6

Column name	Column description	Column type	Data type and restrictions	Remarks
				or 7, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, **8,** **GreenActionValue** is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowAction Type	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				YellowActionType is **19**, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10**, or **19**, **YellowActionValue** is invisible. When **YellowActionType** is **6** or **7**, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, **8, YellowActionValue** is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10**, or **19**, **RedActionValue** is invisible. When **RedActionType** is **6** or **7**, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8,** **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/GlobalCategoryPolicyAccount

This table contains information about accounting running information for QoS category policies applied to global.

XML structure

```
<MQC>
  <GlobalCategoryPolicyAccount>
    <Global>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
```

```
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </Global>
  </GlobalCategoryPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyAccount
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2^{64} - 1.	

MQC/IfCategoryPolicyGts

This table contains operation information about GTS actions for QoS policies of the specified types applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyGts>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <QueueLength></QueueLength>
      <PassedPkts></PassedPkts>
      <DiscardedPkts></DiscardedPkts>
      <DelayedPkts></DelayedPkts>
      <PassedBytes></PassedBytes>
      <DiscardedBytes></DiscardedBytes>
      <DelayedBytes></DelayedBytes>
      <QueueSize></QueueSize>
      <IfName></IfName>
    </Interface>
  </IfCategoryPolicyGts>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyGts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	N/A
PassedPkts	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPkts	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedPkts	Number of delayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassedBytes	Number of passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedByt	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
es	discarded bytes		Value range: 0 to 2^{64} - 1.	
DelayedBytes	Number of delayed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
QueueSize	Queue size	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/GlobalCategoryPolicyGts

This table contains operation information about GTS actions for QoS policies of the specified types applied globally.

XML structure

```
<MQC>
  <GlobalCategoryPolicyGts>
    <Global>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <QueueLength></QueueLength>
      <PassedPkts></PassedPkts>
      <DiscardedPkts></DiscardedPkts>
      <DelayedPkts></DelayedPkts>
      <PassedBytes></PassedBytes>
      <DiscardedBytes></DiscardedBytes>
      <DelayedBytes></DelayedBytes>
      <QueueSize></QueueSize>
    </Global>
  </GlobalCategoryPolicyGts>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyGts
Table type	Multi-instance table

Item	Description
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy. • **6**—TCP ERSPAN policy. • **7**—Control-plane policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	N/A
PassedPkts	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedPkts	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedPkts	Number of delayed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassedBytes	Number of passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardedBytes	Number of discarded bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DelayedBytes	Number of delayed bytes	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2^{64} - 1.	
QueueSize	Queue size	N/A	Unsigned integer.	N/A

MQC/Telemetry

This table contains information about inband telemetry.

XML structure

```
<MQC>
  <Telemetry>
    <DeviceID></DeviceID>
    <TSformat></TSformat>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Collector>
  </Telemetry>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Telemetry
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device ID	N/A	• String,dotted decimal notation • Unsigned integer	The column supports configuring an IP address or numerical value. The numerical value range is customized by product.

				Example: 10.153.93.60.
TSformat	Timestamp format	N/A	Enumeration: • **0**—md. • **1**—ts.	N/A
Collector	Telemetry collector	N/A	Members include: • SrcIP • DstIP • SrcPort • DstPort • VLANID	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete the telemetry collector. You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the telemetry collector, or when you merge or create the telemetry collector that does not exist.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DstIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MQC/TelemetryRoles

This table contains information about inband telemetry roles.

XML structure

```
<MQC>
  <TelemetryRoles>
    <TelemetryRole>
      <IfIndex></IfIndex>
      <Role></Role>
      <IfName></IfName>
    </TelemetryRole>
  </TelemetryRoles>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryRoles
Table type	Multi-instance table
Row name	TelemetryRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Role	Telemetry role	N/A	Enumeration: • **1**—Ingress. • **2**—Transit. • **3**—Egress	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/TelemetryLoopbacks

This table contains information about inband telemetry loopback interfaces.

XML structure

```
<MQC>
  <TelemetryLoopbacks>
    <TelemetryLoopback>
      <IfIndex></IfIndex>
      <Loopback></Loopback>
      <IfName></IfName>
    </TelemetryLoopback>
  </TelemetryLoopbacks>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryLoopbacks
Table type	Multi-instance table
Row name	TelemetryLoopback
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	• Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Loopback	Telemetry loopback	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/TelemetryGlobalEnable

This table contains information about inband telemetry status.

XML structure

```
<MQC>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalEnable
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable IFA	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

MQC/TelemetryGlobalPacketDrop

This table contains information about inband telemetry packet drop.

XML structure

```
<MQC>
  <TelemetryGlobalPacketDrop>
    <PacketDrop></PacketDrop>
  </TelemetryGlobalPacketDrop>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalPacketDrop
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketDrop	Discard inband telemetry packets.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

MQC/TelemetryGlobalRole

This table contains information about the INT global role.

XML structure

```
<MQC>
  <TelemetryGlobalRole>
    <Role></Role>
  </TelemetryGlobalRole>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalRole
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	INT global role	N/A	Enumeration: • **1**—transit-egress.	N/A

MQC/TelemetryAction

This table contains information about inband telemetry actions.

XML structure

```
<MQC>
  <TelemetryActions>
    <TelemetryAction>
      <IfIndex></IfIndex>
      <IFAId></IFAId>
      <Match>
        <AclType></AclType>
        <Acl></Acl>
        <Loopback></Loopback>
      </Match>
      <Action>
        <Md></Md>
        <Mirror></Mirror>
        <SamplerName></SamplerName>
        <Drop></Drop>
```

```
      </Action>
      <Status></Status>
      <IfName></IfName>
    </TelemetryAction>
  </TelemetryActions>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryActions
Table type	Multi-instance table
Row name	TelemetryAction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IFAId	IFA action ID	Index	Unsigned integer. Value range: 1 to 32.	N/A
Match	Telemetry match	N/A	Members include: • AclType • Acl • Loopback	N/A
AclType	ACL type	N/A	Enumeration: • **1**—IPv4Acl. • **2**—IPv6Acl. • **3**—MACAcl. • **4**—UserAcl.	N/A
Acl	ACL name or ACL number	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range based on AclType.	N/A
Loopback	Telemetry loopback	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Telemetry action	N/A	Members include: • Md • Mirror • SamplerName • Drop	N/A
Md	Add metadata	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Mirror	Mirror packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	N/A
Drop	Drop original packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Status	Action application status	N/A	Enumeration: • **0**—Inactive. • **1**—Successful. • **2**—Failed.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/Capabilities

This table contains capability information about the MQC module.

XML structure

```
<MQC>
  <Capabilities>
    <InterfacePolicy></InterfacePolicy>
    <GlobalPolicy></GlobalPolicy>
    <VlanPolicy></VlanPolicy>
    <RemarkAction></RemarkAction>
    <HardwareAccount></HardwareAccount>
    <MirrorInterface></MirrorInterface>
    <MirrorCPU></MirrorCPU>
    <RedirectInterface></RedirectInterface>
    <RedirectCPU></RedirectCPU>
  </Capabilities>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfacePolicy	Interface policy	N/A	Unsigned integer	If one of the last 5 bits of this object is set to 1, it indicates that the interface policy is supported: • bit 0 stands for inbound. • bit 1 stands for outbound. • bit 2 stands for enhanced. • bit 3 stands for extension. • bit 4 stands for share mode.
GlobalPolicy	Global policy	N/A	Unsigned integer	If one of the last 5 bits of this object is set to 1, it indicates that the global policy is supported: • bit 0 stands for inbound. • bit 1 stands for outbound. • bit 2 stands for enhanced. • bit 3 stands for extension. • bit 4 stands for share mode.
VlanPolicy	VLAN policy	N/A	Unsigned integer	If one of the last 5 bits of this object is set to 1, it indicates that the VLAN policy is supported: • bit 0 stands for inbound. • bit 1 stands for outbound. • bit 2 stands for enhanced. • bit 3 stands for extension. • bit 4 stands for share mode.
RemarkAction	Remark action	N/A	Unsigned integer	If one of the last 18 bits of this object is set to 1, it indicates that the remark action is supported: • bit 0 stands for DSCP. • bit 1 stands for IP precedence. • bit 2 stands for MPLS-EXP. • bit 3 stands for dot1p. • bit 4 stands for local QoS ID. • bit 5 stands for local precedence. • bit 6 stands for drop

Column name	Column description	Column type	Data type and restrictions	Remarks
				precedence. • bit 7 stands for customer VLAN ID. • bit 8 stands for service VLAN ID. • bit 9 stands for customer dot1p trust. • bit 10 stands for imposition-mpls-exp. • bit 11 stands for FC. • bit 12 stands for atm-clp. • bit 13 stands for fr-de. • bit 14 stands for second-mpls-exp. • bit 15 stands for account level. • bit 16 stands for service class. • bit 17 stands for tunnel dscp.
HardwareAccount	Hardware accounting	N/A	Unsigned integer	0 indicates that the accounting action is supported. 1 indicates that accounting by the default method is supported. 2 indicates that accounting by one method of packet and byte is supported. 3 indicates that accounting by neither method or one of packet and byte is supported. 4 indicates that accounting by neither method or one or two of packet and byte is supported.
MirrorInterface	Mirror traffic to interface	N/A	Unsigned integer	If one of the last 23 bits of this object is set to 1, it indicates that mirroring traffic to an interface of the specified type is supported: • bit 0 stands for l2ethernet. • bit 1 stands for l2ge. • bit 2 stands for l2xge. • bit 3 stands for l2fge. • bit 4 stands for l2hge. • bit 5 stands for l3ethernet. • bit 6 stands for l3ge. • bit 7 stands for l3xge. • bit 8 stands for l3fge. • bit 9 stands for l3hge. • bit 10 stands for tunnel. • bit 11 stands for ragg. • bit 12 stands for bagg. • bit 13 stands for l2tge. • bit 14 stands for l3tge. • bit 15 stands for blade. • bit 16 stands for blagg.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• bit 17 stands for olt. • bit 18 stands for l2wge. • bit 19 stands for l3wge. • bit 20 stands for l2sge. • bit 21 stands for l3sge. • bit 22 stands for loopback.
MirrorCPU	Mirror traffic to CPU	N/A	Unsigned integer: • **0**—Not supported. • **1**—Supported.	N/A
RedirectInterface	Redirect traffic to interface	N/A	Unsigned integer	If one of the last 23 bits of this object is set to 1, it indicates that redirecting traffic to an interface of the specified type is supported, • bit 0 stands for l2ethernet. • bit 1 stands for l2ge. • bit 2 stands for l2xge. • bit 3 stands for l2fge. • bit 4 stands for l2hge. • bit 5 stands for l3ethernet. • bit 6 stands for l3ge. • bit 7 stands for l3xge. • bit 8 stands for l3fge. • bit 9 stands for l3hge. • bit 10 stands for tunnel. • bit 11 stands for ragg. • bit 12 stands for bagg. • bit 13 stands for l2tge. • bit 14 stands for l3tge. • bit 15 stands for blade. • bit 16 stands for blagg. • bit 17 stands for olt. • bit 18 stands for l2wge. • bit 19 stands for l3wge. • bit 20 stands for l2sge. • bit 21 stands for l3sge. • bit 22 stands for loopback.
RedirectCPU	Redirect traffic to CPU	N/A	Unsigned integer: • **0**—Not supported. • **1**—Supported.	N/A

MQC/OverheadLayer

This table contains information about processing QoS in which overhead layer type of packet considered.

XML structure

```
<MQC>
  <OverheadLayer>
    <Layer></Layer>
  </OverheadLayer>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	OverheadLayer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Layer	Type of overhead layer	N/A	Enumeration: • **1**—Link. • **2**—Physics.	N/A

MQC/SysTruncation

This table contains information about global truncation.

XML structure

```
<MQC>
  <SysTruncation>
    <TruncationLen></TruncationLen>
  </SysTruncation>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	SysTruncation

Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TruncationLen	Truncation length.	column	Unsigned integer.	The value depends on device.

MQC/SysTruncationCapa

This table contains information about global truncation capability.

XML structure

```
<MQC>
  <SysTruncationCapa>
    <Min></Min>
    <Max></Max>
  </SysTruncationCapa>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	SysTruncationCapa
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Min	Min truncation length.	column	Unsigned integer.	The value depends on device.
Max	Max truncation length.	column	Unsigned integer.	The value depends on device.

MQC/MonitorGroup

This table contains information about monitor group.

XML structure

```
<MQC>
  <MonitorGroup>
    <Group>
      <GroupID></GroupID>
      <SamplerName></SamplerName>
    </Group>
  </MonitorGroup>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MonitorGroup
Table type	Multi -instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitor group id.	Index	Unsigned integer.	The value depends on device.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	Support for this column depends on the device model.

MQC/MonitorGroupCapa

This table contains information about monitor group capability.

XML structure

```
<MQC>
  <MonitorGroupCapa>
    <MaxGroupID></MaxGroupID>
  </MonitorGroupCapa>
```

```
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MonitorGroupCapa
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroupID	Max monitor group id.	N/A	Unsigned integer.	The value depends on device.

MQC/MonitorPort

This table contains information about monitor groups applied to interfaces.

XML structure

```
<MQC>
  <MonitorPort>
    <MonitorPort>
      <GroupID></GroupID>
      <IfIndex></IfIndex>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VRF></VRF>
        <ErspanVer></ErspanVer>
      </IP>
      <Mac></Mac>
      <IfName></IfName>
    </MonitorPort>
  </MonitorPort>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MonitorPort
Table type	Multi -instance table
Row name	MonitorPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitor group id.	Index	Unsigned integer.	The value depends on device.
IfIndex	Interface index.	Index	Unsigned integer.	N/A
IP	Specify IP information for mirroring traffic to an interface in GRE format	Data structure	Members include: • DestIP • SrcIP • DSCP • VLAN • VRF	DestIP and SrcIP must both be specified. DSCP, VLAN, and VRF can be optionally specified when DestIP and SrcIP are configured.
DestIP	Destination IP address or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.54.
SrcIP	Source IP address or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
ErspanVer	ERSPAN version	N/A	Enumeration: **3**—ERSPAN V3.	N/A
Mac	Destination MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/MPortDynamic

This table contains information about dynamic monitoring ports, which are found by IP address.

XML structure

```
<MQC>
  <MPortDynamic>
    <Port>
      <GroupID></GroupID>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VRF></VRF>
      <Mac></Mac>
      <ErspanVer></ErspanVer>
    </Port>
  </MPortDynamic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	MPortDynamic
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Monitoring group ID	Index	Unsigned integer.	The value depends on device.
DestIP	Destination IP address or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string,	Example: 10.153.93.54.

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated. Length: 1 to 46	
SrcIP	Source IP address or IPv6 address	Index	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Destination MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ErspanVer	ERSPAN version	N/A	Enumeration: **3**—ERSPAN V3.	N/A

MQC/Strip

This table contains information about strip.

XML structure

```
<MQC>
  <Strip>
    <Strip>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <OffSetValue></OffSetValue>
      <HeadLength></HeadLength>
      <DstMACAddr></DstMACAddr>
      <SrcMACAddr></SrcMACAddr>
      <VlanID></VlanID>
      <Dot1p></Dot1p>
      <EthTypeID></EthTypeID>
    </Strip>
  </Strip>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Strip
Table type	Multi -instance table
Row name	Strip
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
Type	Strip type.	column	Enumeration: • **0**—strip header. • **1**—top-most-vlan. • **2**—position l2. • **3**—position l3. • **4**—position l4. • **5**—vxlan. • **6**—nvgre. • 7—gre.	Required.
OffSetValue	Strip offset value.	column	Unsigned integer.	The value depends on device.
HeadLength	Length of a GRE header	column	Unsigned integer. Value range: 4 to 16.	The value depends on user configuration. The value of this column is valid if the type is gre.
DstMACAddr	Destination MAC address	column	Six groups of two hexadecimal digits, hyphen-separated.	DstMACAddr, SrcMACAddr, and EthTypeID must be added together. The value of this column is valid if the type is gre.
SrcMACAddr	Source MAC address	column	Six groups of two hexadecimal digits, hyphen-separated.	DstMACAddr, SrcMACAddr, and EthTypeID must be added together. The value of this column is valid if the type is gre.
VlanID	VLAN tag ID	column	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if the type is gre.

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1p	802.1p CoS	column	Unsigned integer. Value range: 0 to 7.	The value of this column is valid if the type is gre.
EthTypeID	Ethernet type ID	column	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	The value of this column is valid if the type is gre.

MQC/StripCapa

This table contains information about strip capability.

XML structure

```
<MQC>
  <StripCapa>
    <Min></Min>
    <Max></Max>
  </StripCapa>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	StripCapa
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Min	Min strip offsetvalue.	column	Unsigned integer.	The value depends on device.
Max	Max strip offset value.	column	Unsigned integer.	The value depends on device.

MQC/Nest

This table contains information about nest.

XML structure

```
<MQC>
  <Nest>
    <Nest>
      <BehaviorName></BehaviorName>
      <VlanID></VlanID>
      <Dot1p></Dot1p>
    </Nest>
  </Nest>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Nest
Table type	Multi -instance table
Row name	Nest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
VlanID	Vlan id.	column	Unsigned integer. Value range: 1 to 4094.	N/A
Dot1p	802.1p COS.	column	Unsigned integer. Value range: 0 to 7.	N/A

MQC/BehaviorTruncation

This table contains information about truncation of behavior.

XML structure

```
<MQC>
```

```
  <BehaviorTruncation>
    <Truncation>
      <BehaviorName></BehaviorName>
      <Truncation></Truncation>
    </Truncation>
  </BehaviorTruncation>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	BehaviorTruncation
Table type	Multi -instance table
Row name	Truncation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
Truncation	Whether to truncation.	column	Boolean • true—Truncation. • false—Not truncation.	N/A

MQC/TimeStamp

This table contains information about time stamp.

XML structure

```
<MQC>
  <TimeStamp>
    <TimeStamp>
      <BehaviorName></BehaviorName>
      <DstMACAddr></DstMACAddr>
      <SrcMACAddr></SrcMACAddr>
      <EthType></EthType>
    </TimeStamp>
  </TimeStamp>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TimeStamp
Table type	Multi -instance table
Row name	TimeStamp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name.	Index	String. Length: 1 to 31 characters.	N/A
DstMACAddr	Destination MAC address.	column	Six groups of two hexadecimal digits, hyphen-separated..	DstMACAddr, SrcMACAddr and EthType must be add together.
SrcMACAddr	Source MAC address.	column	Six groups of two hexadecimal digits, hyphen-separated..	N/A
EthType	Ethtype id of timestamp.	column	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF..	N/A

MQC/VSIPolicy

This table contains information about QoS policies applied to VSIs.

XML structure

```
<MQC>
  <VSIPolicy>
    <Application>
      <VSI></VSI>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </VSIPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VSIPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSI	Name of a VSI	Index	String. Length: 1 to 31 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.

MQC/VSIPolicyCBMap

This table contains information about class-behavior associations running information applied to VSIs.

XML structure

```
<MQC>
  <VSIPolicyCBMap>
    <VSI>
      <VSI></VSI>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
```

```
    </VSI>
  </VSIPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VSIPolicyCBMap
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSI	Name of a VSI	Index	String. Length: 1 to 31 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Traffic class name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • **2**—Qppb. • **16**—Dcbx.	When the **Mode** column is **0**, there is no restriction on the classifier-behavior association. When the **Mode** column is **2**, the classifier-behavior association applies only to QPPB. When the **Mode** column is **16**, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed.	N/A
MatchedPackets	Matched packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	The soft switch device does not support.
MatchedBytes	Matched bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	The soft switch device does not support.

MQC/AccountInterfacePolicy

This table contains information about QoS accounting policies applied to interfaces.

XML structure

```
<MQC>
  <AccountInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
      <IfName></IfName>
    </Application>
  </AccountInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	AccountInterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/RemarkInterfacePolicy

This table contains information about QoS remarking policies applied to interfaces.

XML structure

```
<MQC>
  <RemarkInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
      <IfName></IfName>
    </Application>
  </RemarkInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	RemarkInterfacePolicy
Table type	Multi-instance table
Row name	Application

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/TapInterfacePolicy

This table contains information about QoS tap policies applied to interfaces.

XML structure

```
<MQC>
  <TapInterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Mode></Mode>
      <IfName></IfName>
    </Application>
  </TapInterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TapInterfacePolicy

Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of policies applied to interfaces.	N/A	Enumeration: • **1**—extension. • **2**—inner-match.	When the **Direction** column is **0**, configure the Mode.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfAccountPolicyCBMap

This table contains information about class-behavior associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfAccountPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <IfName></IfName>SS
    </Interface>
  </IfAccountPolicyCBMap>
```

```
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfAccountPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfRemarkPolicyCBMap

This table contains information about class-behavior associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfRemarkPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
```

```
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <IfName></IfName>
    </Interface>
  </IfRemarkPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfRemarkPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/IfTapPolicyCBMap

This table contains information about class-behavior associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfTapPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
```

```
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <IfName></IfName>
    </Interface>
  </IfTapPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfTapPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: • **0**—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

MQC/TrafficRate

This table contains information about traffic rate threshold.

XML structure

```
<MQC>
  <TrafficRate>
    <Action>
      <BehaviorName></BehaviorName>
      <LowThresholdpps></LowThresholdpps>
      <HighThresholdpps></HighThresholdpps>
    </Action>
  </TrafficRate>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TrafficRate
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
LowThresholdpps	The value of low threshold	column	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
HighThresholdpps	The value of high threshold	column	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A

MQC/ACCategoryPolicy

This table contains information about QoS policies of the specified types applied to AC interfaces.

XML structure

```
<MQC>
  <ACCategoryPolicy>
    <AC>
      <IfName></IfName>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <Status></Status>
      <ShareMode></ShareMode>
    </AC>
  </ACCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACCategoryPolicy
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed. • **3**—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is **3**.
ShareMode	Sharing Mode	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

MQC/ACCategoryPolicyCar

This table contains information about car associations running information for QoS category policies applied to AC interfaces.

XML structure

```
<MQC>
  <ACCategoryPolicyCar>
    <AC>
      <IfName></IfName>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenActionType></GreenActionType>
      <GreenActionValue></GreenActionValue>
      <YellowActionType></YellowActionType>
      <YellowActionValue></YellowActionValue>
      <RedActionType></RedActionType>
      <RedActionValue></RedActionValue>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </AC>
  </ACCategoryPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACCategoryPolicyCar
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenActionType	Green Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark the DSCP value of the packet and send it. When **GreenActionType** is **3**, remark the IP precedence of the packet and send it. When **GreenActionType** is **4**, remark the EXP of the MPLS packet and send it. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				GreenActionType is **5**, remark the 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark the CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark the DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark the local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When **GreenActionType** is **19**, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10**, or **19**, **GreenActionValue** is invisible. When **GreenActionType** is **6** or **7**, **GreenActionValue** is 0~1. When **GreenActionType** is **2**, **GreenActionValue** is 0~63. When **GreenActionType** is **3**, **4**, **5**, or **8,** **GreenActionValue** is 0~7.
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark the DSCP value of the packet and send it. When **YellowActionType** is **3**, remark the IP precedence of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **10**—discard. • **19**—continue.	When **YellowActionType** is **4**, remark the EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark the 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark the CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark the DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark the local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When **YellowActionType** is **19**, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10**, or **19**, **YellowActionValue** is invisible. When **YellowActionType** is **6** or **7**, **YellowActionValue** is 0~1. When **YellowActionType** is **2**, **YellowActionValue** is 0~63. When **YellowActionType** is **3**, **4**, **5**, or **8, YellowActionValue** is 0~7.
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark the DSCP value of the packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **3**, remark the IP precedence of the packet and send it. When **RedActionType** is **4**, remark the EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark the 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark the CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark the DE bit of the FR packet and send it. When **RedActionType** is **8**, remark the local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When **RedActionType** is **19**, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10**, or **19**, **RedActionValue** is invisible. When **RedActionType** is **6** or **7**, **RedActionValue** is 0~1. When **RedActionType** is **2**, **RedActionValue** is 0~63. When **RedActionType** is **3**, **4**, **5**, **8,** **RedActionValue** is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/ACCategoryPolicyAccount

This table contains information about accounting running information for QoS category policies applied to AC interfaces.

XML structure

```
<MQC>
  <ACCategoryPolicyAccount>
    <AC>
      <IfName></IfName>
      <SrvID></SrvID>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </AC>
  </ACCategoryPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ACCategoryPolicyAccount
Table type	Multi-instance table
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: • **0**—Common policy. • **1**—Remarking policy. • **2**—Accounting policy. • **3**—Mirroring policy. • **5**—IPv6-matching policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/TrafficPolicy

This table contains information about traffic policy of behavior.

XML structure

```
<MQC>
  <TrafficPolicy>
    <Action>
      <BehaviorName></BehaviorName>
      <PolicyName></PolicyName>
    </Action>
```

```
  </TrafficPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TrafficPolicy
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
PolicyName	Traffic policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/Srv6Policy

This table contains information about SRv6 QoS policies.

XML structure

```
<MQC>
  <Srv6Policy>
    <Application>
      <Endpoint></Endpoint>
      <Color></Color>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </Srv6Policy>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Item	Description
Table name	Srv6Policy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	Endpoint IPv6 address	Index	String, semicolon hex notation.	N/A
Color	Color	Index	Unsigned integer	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/TunnelBandwidths

This table contains information about the tunnel bandwidth.

XML structure

```
<MQC>
  <TunnelBandwidths>
    <TunnelBandwidth>
      <IfName></IfName>
      <Direction></Direction>
      <BandwidthKbps></BandwidthKbps>
    </TunnelBandwidth>
  </TunnelBandwidths>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TunnelBandwidths
Table type	Multi-instance table
Row name	TunnelBandwidth

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **downstream**—The application direction is downstream.	N/A
BandwidthKbps	Tunnel bandwidth in kbps.	N/A	Unsigned integer.	N/A

MQC/Erspan

This table contains information about ERSPAN.

XML structure

```
<MQC>
  <Erspan>
    <SwitchID></SwitchID>
  </Erspan>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Erspan
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchID	Switch ID	N/A	Unsigned integer. Value range: 0 to 1023.	N/A

Contents

MQC 1
MQC 1
MQC/Redirect 3
MQC/SQ 4

MQC

MQC

Message	Explanation
System-defined classifiers can't be modified or deleted. 系统预定义的类不能被修改或删除。	System-defined classifiers can't be modified or deleted. 不能修改、删除系统预定义的流分类。
System-defined behaviors can't be modified or deleted. 系统预定义的流行为不能被修改或删除。	System-defined behaviors can't be modified or deleted. 不能修改、删除系统预定义的流行为。
System-defined policies can't be modified or deleted. 系统预定义的策略不能被修改或删除。	System-defined policies can't be modified or deleted. 不能修改、删除系统预定义的QoS策略。
Maximum number of classifiers already reached. 类的配置数已达到最大值。	Maximum number of classifiers already reached, can’t create. 流分类的配置数目达到上限，不能再创建。
Maximum number of match criteria already reached. 规则的配置数已达到最大值。	Maximum number of match criteria already reached, can’t create. 匹配数据包规则的配置数目达到上限，不能再创建。
Maximum number of QoS policies already reached. 策略的配置数已达到最大值。	Maximum number of QoS policies already reached can’t create. QoS策略的配置数目达到上限，不能再创建。
Can't delete the policy because it has been applied. 该策略已经被应用，无法删除。	Can't delete the policy because it has been applied. QoS策略已经被应用，不能删除该QoS策略。
The QoS policy doesn't exist. 该策略不存在。	The QoS policy doesn't exist. QoS策略不存在。
The classifier is being used by a QoS policy. 该类正在被策略使用。	The classifier is being used by a QoS policy. 流分类被QoS策略使用时，不能删除。
Maximum number of behaviors already reached. 流行为的配置数已达到最大值。	Maximum number of behaviors already reached can’t create. 流行为的配置数目达到上限，不能再创建。
The behavior is being used by a QoS policy. 该流行为正在被策略使用。	The behavior is being used by a QoS policy can’t delete. 流行为被QoS策略使用时，不能删除。
Another QoS policy has already been applied. Please view the current configuration. 已经应用了其他策略，请查看当前配置。	Another QoS policy has already been applied can apply. Please view the current configuration. 不能在已经应用了QoS策略的对象下再应用QoS策略。
Maximum number of classifiers allowed in one QoS policy already reached. 策略下所配的类的数目已达到最大值。	Maximum number of classifiers allowed in one QoS policy already reached can’t create. QoS策略下的流分类数量达到上限，不能再应用。
The QoS policy has already been applied.Please view the current configuration. 该策略已经应用，请查看当前配置。	The QoS policy has already been applied can repeat apply. Please view the current configuration. 不能重复应用QoS策略。
The classifier is being used by another classifier. 该类正被其他类使用。	The classifier is being used by another classifier can’t create. 被流分类引用的流分类不允许删除。

Marking dot1p is not supported. 不支持重标记到dot1p。	Marking dot1p is not supported. 某些应用对象不支持重标记到dot1p动作。
Marking dot1p can be applied only in the outbound direction. 重标记到dot1p只能被应用到出方向。	Marking dot1p can be applied only in the outbound direction. 重标记到dot1p只能被应用到出方向。
Marking ATM CLP is supported only on ATM PVCs. 重标记到ATM CLP只支持应用到ATM PVC上。	Marking ATM CLP is supported only on ATM PVCs. 重标记到ATM CLP只支持应用到ATM PVC上。
Marking ATM CLP can be applied only in the outbound direction. 重标记到ATM CLP只能被应用到出方向。	Marking ATM CLP can be applied only in the outbound direction. 重标记到ATM CLP只能被应用到出方向。
The traffic class associated with the traffic behavior already exists. classifier指定的类已存在。	The traffic class associated with the traffic behavior already exists can use insert-before mode. 不能对已应用的流分类指定**insert-before**模式。
The traffic class specified after the insert-before keyword doesn’t exist. insert-before指定的类不存在。	The traffic class specified after the insert-before keyword doesn’t exist. insert-before指定的类不存在。
Marking service class can be applied only in the inbound direction. 重标记到Service Class只能被应用到入方向。	Marking service class can be applied only in the inbound direction. 重标记到Service Class只能被应用到入方向。
MPLS label value range error. MPLS标签的范围配置有误。	MPLS label value range error. label-value1should small than label-value2 匹配MPLS标签规则时，*label-value1*的值必须小于*label-value2*的值。
The start port can't be greater than the end port. 起始端口号不能比结束端口号大。	The start RTP port can't be greater than the end RTP port. 匹配RTP协议端口规则时，起始RTP端口号必须小于结束RTP端口号。
The minimum packet length can't be greater than the maximum packet length. 报文的最小长度不能大于最大长度。	The minimum packet length can't be greater than the maximum packet length when if-match packet length. 匹配报文长度规则时，报文的最小长度不能大于最大长度。
The classifier doesn't exist. 该类不存在。	The classifier doesn't exist, create rule failed. 添加流分类规则时，若流分类不存在，添加失败。
The behavior doesn't exist. 该流行为不存在。	The behavior doesn't exist, create action failed. 添加流行为动作时，若流行为不存在，添加失败。
A QoS policy can be applied only to the inbound direction of an interface if a behavior in the QoS policy contains the remark tunnel-dscp command. 当QoS策略的流行为中配置了remark tunnel-dscp时，该策略只能应用到接口入方向。	A QoS policy can be applied only to the inbound direction of an interface if a behavior in the QoS policy contains the remark tunnel-dscp command. 当QoS策略的流行为中配置了remark tunnel-dscp时，该策略只能应用到接口入方向。
The remark tunnel-dscp command and the remark dscp or remark ip-precedence command are mutually exclusive in a behavior. 同一个流行为中，如果已配置remark dscp命令或remark ip-precedence命令，则不允许再配置remark tunnel-dscp命令，反之亦然。	The remark tunnel-dscp command and the remark dscp or remark ip-precedence command are mutually exclusive in a behavior. 同一个流行为中，如果已配置remark dscp命令或remark ip-precedence命令，则不允许再配置remark tunnel-dscp命令，反之亦然。
The policy name has been used by another type of policy.	The policy name has been used by another type of policy, create policy failed.

这个策略名称已被其他类型策略使用。	创建策略时，若名称已被其他类型策略使用，创建失败。
Another QoS policy of the same type has already been applied. Please view the current configuration. 已经应用了相同类型的其他策略，请查看当前配置。	Another QoS policy of the same type has already been applied. Please view the current configuration. 已经应用了相同类型的其他策略，请查看当前配置。
The preorder for the applied QoS policy cannot be dynamically modified. 应用策略的匹配优先级不能动态修改。	The preorder for the applied QoS policy cannot be dynamically modified. 应用策略的匹配优先级不能动态修改。
The QoS policy type cannot be dynamically modified. QoS策略类型不支持动态修改。	The QoS policy type cannot be dynamically modified. QoS策略类型不支持动态修改。
Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction of the interface. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。	Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction of the interface. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。
Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction globally. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。	Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction globally. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。
The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行本操作。	The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行应用QoS策略操作。
The SDWAN network site ID is required. 必需指定SDWAN网络的站点ID。	The SDWAN network site ID is required. 配置流分类匹配SDWAN网络TTE信息时，站点ID必需指定。
You must also specify a device ID when specifying an interface ID of a SDWAN tunnel interface. 指定SDWAN隧道接口ID时必需同时指定设备ID。	You must also specify a device ID when specifying an interface ID of a SDWAN tunnel interface. 配置流分类匹配SDWAN网络TTE信息时，如果指定SDWAN隧道接口ID，则必需同时指定设备ID。

MQC/Redirect

Message	Explanation
Another mirroring already exists, delete it first. 另一种镜像配置已经存在，请先删除。	Another mirroring already exists, delete it first. 流行为下只能配置一种类型镜像配置，配置第二种失败。
Conflicts with another interface. 与另一个接口冲突。	Conflicts with another interface when mirror to interface. 配置镜像到接口时，若与已存在的镜像接口配置冲突，配置失败。
The destination MAC address is invalid. 无效的目的MAC地址。	The destination MAC address is invalid when mirror to interface. 镜像到接口时配置的MAC无效，配置失败。
Invalid IP address. 无效的IP地址。	Invalid IP address. 镜像到接口时配置的源IP或目的IP无效，配置失败。
The backup next-hop address or track entry ID	The backup next-hop address or track entry ID can't be the same

can't be the same as the primary one. 备用和主用下一跳的地址或Track索引不能相同。	as the primary one. 重定向到指定的下一跳时，备用和主用下一跳的地址或Track索引不能相同
The backup slot can't be the same as the primary slot. 主备slot-number不能相同。	The backup slot can't be the same as the primary slot. 重定向到指定单板，主备slot-number不能相同。
The slot has been specified as the backup slot. 主用slot-number已被指定为备用slot-number。	The slot has been specified as the backup slot. 重定向到指定单板，主用slot-number已被指定为备用slot-number。
The specified backup slot has been used. 备用slot-number已经被使用。	The specified backup slot has been used. 重定向到指定单板，备用slot-number已经被使用。
Monitoring group %d is being used by traffic behavior and can't be deleted. 监控组%d已被流行为应用，请勿删除。	Monitoring group %d is being used by traffic behavior and can't be deleted. 监控组%d已被流行为应用，请勿删除。

MQC/SQ

Message	Explanation
Please remove AF queuing configuration first. 请先删除AF队列的配置。	Please remove AF queuing configuration first, when configure another queuing features. 流行为下已配置 AF 队列再切换其他队列时失败，需要先删除 AF 队列。
Please remove EF queuing configuration first. 请先删除EF队列的配置。	Please remove EF queuing configuration first, when configure another queuing features. 流行为下已配置EF队列再切换其他队列时失败，需要先删除EF队列。
Please remove WFQ configuration first. 请先删除WFQ队列的配置。	Please remove WFQ configuration first, when configure another queuing features. 流行为下已配置WFQ队列再切换其他队列时失败，需要先删除WFQ队列。
In this QoS policy, no more AF queues can be defined. 在此QOS策略中，配置AF队列个数已达上限。	In this QoS policy, no more AF queues can be defined. QoS策略中，配置AF队列个数已达上限
In one QoS policy, the total bandwidth should not exceed 100 percent. 在一个QOS策略中，总带宽百分比不能超过百分之百。	In one QoS policy, the total bandwidth should not exceed 100 percent. 在一个QOS策略中，总带宽百分比不能超过百分之百。
The CBQ behavior in the QoS policy can be applied only in the outbound direction of an interface. 在QOS策略里，包含CBQ的流行为只能应用在接口的出方向上。	The CBQ behavior in the QoS policy can be applied only in the outbound direction of an interface. 在QOS策略里，包含CBQ的流行为只能应用在接口的出方向上。
Please disable other queuing features first. 请先移除其他队列。	Please disable other queuing features first, when configure another queuing features. 配置CBQ时，需要删除应用了改CBQ的对象上的接口队列配置。
Requested bandwidth exceeds the max reserved bandwidth.	Requested bandwidth exceeds the max reserved bandwidth. 请求带宽已超过预留带宽的最大值。

请求带宽已超过预留带宽的最大值。	
In one QoS policy, the same bandwidth unit must be used. 在同一QOS策略中，应使用相同的带宽单元。	In one QoS policy, the same bandwidth unit must be used. 在同一QOS策略中，应使用相同的带宽单元。
In this QoS policy, no more EF queues can be defined. 在此QOS策略中，EF队列数已达上限。	In this QoS policy, no more EF queues can be defined. 在此QOS策略中，EF队列数已达上限。
EF queuing can't be configured for the default class. 配置了EF队列的流行为不能与缺省类关联使用。	EF queuing can't be configured for the default class. 配置了EF队列的流行为不能与缺省类关联使用。
WFQ can be configured only for the default class. 配置了WFQ队列的流行为仅可以与缺省类关联使用。	WFQ can be configured only for the default class. 配置了WFQ队列的流行为仅可以与缺省类关联使用。
Please configure GTS in the parent policy first. 请先在父策略中配置GTS。	Please configure GTS in the parent policy first. 嵌套策略配置CBQ，需要父策略配置GTS。
Only percent CBQ can be configured when percent GTS configured. 父策略配置了百分比形式的GTS,则子策略CBQ带宽必须配置成百分比形式。	Only percent CBQ can be configured when percent GTS configured. 父策略配置了百分比形式的GTS,则子策略CBQ带宽必须配置成百分比形式。
CBQ can be applied only in the outbound direction of this interface. CBQ必须应用在接口的出方向。	CBQ can be applied only in the outbound direction of this interface. CBQ必须应用在接口的出方向。
The requested bandwidth of this policy exceeds the available bandwidth on this interface. 此策略的请求带宽已超过接口可用带宽。	The requested bandwidth of this policy exceeds the available bandwidth on this interface. 应用策略配置的请求带宽已超过此接口的可用带宽。
Please remove SP queuing configuration first. 请先删除SP队列配置。	Please remove SP queuing configuration first, when configure another queuing features. 流行为下已配置EF队列再切换其他队列时失败，需要先删除SP队列。

Contents

MQCEvent event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2

MQCEvent event

This event is used to report MQC traffic rate information.

XML structure for event subscription

```
<TrafficRateEvent>
  <TrafficRate>
    <ApplyType></ApplyType>
    <Direction></Direction>
    <Classifier></Classifier>
  </TrafficRate>
</TrafficRateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MQC</stream>
    <filter type="subtree">
      <TrafficRateEvent xmlns="http://www.h3c.com/netconf/event:1.0/MQC:1.0">
        <TrafficRate>
          <ApplyType>global</ApplyType>
          <Direction>inbound</Direction>
          <Classifier>a</Classifier>
        </TrafficRate>
      </TrafficRateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TrafficRate
Event name	TrafficRateEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/MQC:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ApplyType	The type of trafficrate application.	Enumeration: • global. • interface.	No
Direction	Application direction.	Enumeration: • inbound. • outbound.	No

Column name	Column description	Data type and restrictions	Support for extended queries
Classifier	Traffic class name.	String. Length: 1 to 31 characters.	No

XML structure for event report

```
<TrafficRateEvent>
  <TrafficRate>
    <ApplyType></ApplyType>
    <Direction></Direction>
    <Classifier></Classifier>
    <Description></Description>
    <Currentpps></Currentpps>
    <LowThresholdpps></LowThresholdpps>
    <HighThresholdpps></HighThresholdpps>
  </TrafficRate>
</TrafficRateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>MQC</stream>
    <filter type="subtree">
      <TrafficRateEvent xmlns="http://www.h3c.com/netconf/event:1.0/MQC:1.0">
        <TrafficRate>
          <ApplyType>global</ApplyType>
          <Direction>inbound</Direction>
          <Classifier>a</Classifier>
          <Description>LOW_THRESHOLD</Description>
          <Currentpps>22</Currentpps>
          <LowThresholdpps>10</LowThresholdpps>
          <HighThresholdpps>100</HighThresholdpps>
        </TrafficRate>
      </TrafficRateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MQC
Event name	TrafficRateEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0

Item	Description
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ApplyType	The type of trafficrate application.	Enumeration: • Global. • Interface.	No
Direction	Application direction.	Enumeration: • Inbound. • Outbound.	No
Classifier	Traffic class name.	String. Length: 1 to 31 characters.	No
Description	TrafficRate Event Description	Enumeration: • HIGH_THRESHOLD. • LOW_THRESHOLD. • HIGH_THRESHOLD_RECOVERY. • LOW_THRESHOLD_RECOVERY.	No
Currentpps	Currentpps	Unsigned integer. Value range: 1 to 2^{64} - 1.	No
LowThresholdpps	LowThresholdpps	Unsigned integer. Value range: 1 to 2^{32} - 1.	No
HighThresholdpps	HighThresholdpps	Unsigned integer. Value range: 1 to 2^{32} - 1.	No

Contents

Mroute 1

Mroute/Ipv4Instances 1
XML structure 1
Table description 1
Columns 1
Mroute/Ipv4ExtranetSelectRpfs 2
XML structure 2
Table description 2
Columns 3
Mroute/Ipv6ExtranetSelectRpfs 3
XML structure 3
Table description 4
Columns 4
Mroute/Ipv6Instances 5
XML structure 5
Table description 5
Columns 6
Mroute/Ipv4GlobalConfigs 6
XML structure 6
Table description 7
Columns 7
Mroute/Ipv6GlobalConfigs 8
XML structure 8
Table description 8
Columns 9
Mroute/Ipv4Interfaces 10
XML structure 10
Table description 10
Columns 10
Mroute/Ipv6Interfaces 11
XML structure 11
Table description 11
Columns 11
Mroute/Ipv4MulticastBoundarys 12
XML structure 12
Table description 12
Columns 12
Mroute/Ipv6MulticastBoundarys 13
XML structure 13
Table description 13
Columns 13
Mroute/Ipv4RpfStaticRoutes 14
XML structure 14
Table description 14
Columns 14
Mroute/Ipv6RpfStaticRoutes 15
XML structure 15
Table description 15
Columns 15
Mroute/Ipv4FlowPolicys 16
XML structure 16
Table description 16
Columns 17
Mroute/Ipv6FlowPolicys 17
XML structure 17
Table description 17
Columns 18

Mroute/Ipv4DefaultFlowPolicys 18
XML structure 18
Table description 19
Columns 19
Mroute/Ipv6DefaultFlowPolicys 19
XML structure 19
Table description 19
Columns 20

Mroute

Mroute/Ipv4Instances

This table contains IPv4 Mroute instance information.

XML structure

```
<Mroute>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <LoadSplitting></LoadSplitting>
      <LongestMatch></LongestMatch>
    </Instance>
  </Ipv4Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only the default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String Length: 0 to 31 characters	An empty string indicates the public network
LoadSplitting	Whether to enable multicast load splitting	N/A	Enumeration: • **1**—Enables multicast source and group-based load splitting. • **2**—Enables multicast source-based load splitting. • 3—Enables multicast load splitting based on links. • 4—Enables multicast load splitting based on ECMP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			paths. • 5—Enables multicast load balancing based on ECMP paths. • 6—Enables multicast load balancing based on links.	
LongestMatch	Whether to specify the longest prefix match principle for RPF route	N/A	Boolean: • **true**—Specifies the longest prefix match. • **false**—Does not specify the longest prefix match. (default).	N/A

Mroute/Ipv4ExtranetSelectRpfs

This table contains IPv4 MVPN extranet RPF selection policy information.

XML structure

```
<Mroute>
  <Ipv4ExtranetSelectRpfs>
    <ExtranetSelectRpf>
      <ReceiverVrf> </ReceiverVrf>
      <SpecifySource> </SpecifySource>
      <SourceAddr> </SourceAddr>
      <SourceMask> </SourceMask>
      <SpecifyGroup> </SpecifyGroup>
      <GroupAddr> </GroupAddr>
      <GroupMask> </GroupMask>
      <SenderVrf></SenderVrf>
      <SpecifyL3vni></SpecifyL3vni>
      <SenderL3vni></SenderL3vni>
    </ExtranetSelectRpf>
  </Ipv4ExtranetSelectRpfs>
</Mroute>
```

Table description

Item	**Description**
Feature name	Mroute
Table name	Ipv4ExtranetSelectRpfs
Table type	Multi-instance table
Row name	ExtranetSelectRpfs
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceiverVrf	Receiver VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifySource	Whether to specify a multicast source	Index	Boolean: • **true**—Specifies a multicast source. • **false**—Does not specify a multicast source.	N/A
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
SourceMask	Mask length	Index	Unsigned integer. Value range: 0 to 32.	Example: 24.
SpecifyGroup	Whether to specify a multicast group	Index	Boolean: • **true**—Specifies a multicast group. • **false**—Does not specify a multicast group.	N/A
GroupAddr	IPv4 multicast group address	Index	String, dotted decimal notation.	Example: 224.1.1.1.
GroupMask	Mask length	Index	Unsigned integer. Value range: 4 to 32.	Example: 24
SenderVrf	Source VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifyL3vni	Whether to specify a source L3 VNI	Index	Boolean: • **true**—Specifies a source L3 VNI. • **false—**Does not specify a source L3 VNI.	N/A
SenderL3vni	Source L3 VNI	Index	Unsigned integer. Value range: 0 to 16777215.	Example: 1000

Mroute/Ipv6ExtranetSelectRpfs

This table contains IPv6 MVPN extranet RPF selection policy information.

XML structure

```
<Mroute>
  <Ipv6ExtranetSelectRpfs>
    <ExtranetSelectRpf>
      <ReceiverVrf></ReceiverVrf>
```

```
      <SpecifySource></SpecifySource>
      <SourceAddr></SourceAddr>
      <SourceMask></SourceMask>
      <SpecifyGroup></SpecifyGroup>
      <GroupAddr></GroupAddr>
      <GroupMask></GroupMask>
      <SenderVrf></SenderVrf>
      <SpecifyL3vni></SpecifyL3vni>
      <SenderL3vni></SenderL3vni>
    </ExtranetSelectRpf>
  </Ipv6ExtranetSelectRpfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6ExtranetSelectRpfs
Table type	Multi-instance table
Row name	ExtranetSelectRpfs
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceiverVrf	Receiver VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifySource	Whether to specify a multicast source	Index	Boolean: • **true**—Specifies a multicast source. • **false**—Does not specify a multicast source.	N/A
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated.	Example: 1::1.
SourceMask	Prefix length	Index	Unsigned integer. Value range: 0 to 128.	Example: 24. No input indicates value 0.
SpecifyGroup	Whether to specify a multicast group	Index	Boolean: • **true**—Specifies a multicast group. • **false**—Does not specify a multicast group.	N/A

GroupAddr	IPv6 multicast group address	Index	Hexadecimal string, colon-separated.	Example: FF1E::1.
GroupMask	Prefix length	Index	Unsigned integer. Value range: 8 to 128.	Example: 24
SenderVrf	Source VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifyL3vni	Whether to specify a source Layer 3 VNI	Index	Boolean: • **true**—Specifies a source Layer 3 VNI. • **false—**Does not specify a source Layer 3 VNI.	N/A
SenderL3vni	Source Layer 3 VNI	Index	Unsigned integer. Value range: 0 to 16777215.	Example: 1000

Mroute/Ipv6Instances

This table contains IPv6 Mroute instance information.

XML structure

```
<Mroute>
  <Ipv6Instances>
    <Instance>
      <VRF></VRF>
      <LoadSplitting></LoadSplitting>
      <LongestMatch></LongestMatch>
    </Instance>
  </Ipv6Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only the default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
LoadSplitting	Enable IPv6 multicast load splitting	N/A	Enumeration: • **1**—Enables multicast source and group-based load splitting. • **2**—Enables multicast source-based load splitting. • 3—Enables multicast load splitting based on links. • 4—Enables multicast load splitting based on ECMP paths. • 5—Enables multicast load balancing based on ECMP paths. • 6—Enables multicast load balancing based on links.	N/A
LongestMatch	Whether to specify the longest prefix match principle for RPF route	N/A	Boolean: • **true**—Specifies the longest prefix match. • **false**—Does not specify the longest prefix match (default).	N/A

Mroute/Ipv4GlobalConfigs

This table contains global configuration of IPv4 multicast routes.

XML structure

```
<Mroute>
  <Ipv4GlobalConfigs>
    <GlobalConfig>
      <MtraceServicePort></MtraceServicePort>
      <CacheUnknownPerEntry></CacheUnknownPerEntry>
      <CacheUnknownTotal></CacheUnknownTotal>
      <RpfFailPktFlooding></RpfFailPktFlooding>
      <RpfFailPktTrapToCpu></RpfFailPktTrapToCpu>
      <MulticastFrrMode></MulticastFrrMode>
      <MulticastFrrMonitorCycle></MulticastFrrMonitorCycle>
      <CpuMaxCopyCount></CpuMaxCopyCount>
    </GlobalConfig>
  </Ipv4GlobalConfigs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4GlobalConfigs
Table type	Single-instance table
Row name	GlobalConfig
Restrictions	None.
Support for row creation and deletion	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MtraceServicePort	Mtrace service port number	N/A	Unsigned integer. Value range: 1024 to 49151. Default: 10240.	N/A
CacheUnknownPerEntry	Maximum number of unknown multicast packets that can be cached for an (S, G) entry	N/A	Unsigned integer. Value range: 0 to 256. Default: 1.	N/A
CacheUnknownTotal	Maximum number of all unknown multicast packets that can be cached	N/A	Unsigned integer. Value range: 0 to 65535. Default: 1024.	N/A
RpfFailPktFlooding	Whether to enable the device to flood the multicast data packets that fail the RPF check in all VLANs	N/A	Boolean: • **true**—Enables the device to flood the multicast data packets that fail the RPF check in all VLANs. • **false**—Disables the device from flooding the multicast data packets that fail the RPF check in all VLANs (default).	N/A
RpfFailPktTrapToCpu	Whether to enable the device to deliver the multicast data packets that fail the RPF check to the CPU	N/A	Boolean: • **true**—Enables the device to deliver the multicast data packets that fail the RPF check to the CPU. • **false**—Disables the device from delivering the multicast data packets that fail the RPF check to the CPU (default).	N/A
MulticastFrrMode	Multicast frr mode	N/A	Enumeration: • **0**—by-entry(default).	N/A

			• 1—by-iif.	
MulticastFrrMonitorCycle	Multicast frr monitor cycle cycle-value	N/A	Enumeration: • **0**—10ms. • **1**—20ms. • **2**—40ms. • **3**—100ms. • **4**—200ms(default). • 5—500ms.	N/A
CpuMaxCopyCount	Maximum number of multicast packets copied	N/A	Unsigned integer. Value range: 1 to the device-specific upper limit.	The default value is customized by the product.

Mroute/Ipv6GlobalConfigs

This table contains global configuration of IPv6 multicast routes.

XML structure

```
<Mroute>
  <Ipv6GlobalConfigs>
    <GlobalConfig>
      <MtraceServicePort></MtraceServicePort>
      <CacheUnknownPerEntry></CacheUnknownPerEntry>
      <CacheUnknownTotal></CacheUnknownTotal>
      <RpfFailPktFlooding></RpfFailPktFlooding>
      <RpfFailPktTrapToCpu></RpfFailPktTrapToCpu>
      <MulticastFrrMode></MulticastFrrMode>
      <MulticastFrrMonitorCycle></MulticastFrrMonitorCycle>
      <CpuMaxCopyCount></CpuMaxCopyCount>
    </GlobalConfig>
  </Ipv6GlobalConfigs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6GlobalConfigs
Table type	Single-instance table
Row name	GlobalConfig
Restrictions	None.
Support for row creation and deletion	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MtraceServicePort	Mtrace service port number	N/A	Unsigned integer. Value range: 1024 to 49151. Default: 10240.	N/A
CacheUnknownPerEntry	Maximum number of unknown multicast packets that can be cached for an (S, G) entry	N/A	Unsigned integer. Value range: 0 to 256. Default: 1.	N/A
CacheUnknownTotal	Maximum number of all unknown multicast packets that can be cached	N/A	Unsigned integer. Value range: 0 to 65535. Default: 1024.	N/A
RpfFailPktFlooding	Whether to enable the device to flood the multicast data packets that fail the RPF check in all VLANs	N/A	Boolean: • **true**—Enables the device to flood the multicast data packets that fail the RPF check in all VLANs. • **false**—Disables the device from flooding the multicast data packets that fail the RPF check in all VLANs (default).	N/A
RpfFailPktTrapToCpu	Whether to enable the device to deliver the multicast data packets that fail the RPF check to the CPU	N/A	Boolean: • **true**—Enables the device to deliver the multicast data packets that fail the RPF check to the CPU. • **false**—Disables the device from delivering the multicast data packets that fail the RPF check to the CPU (default).	N/A
MulticastFrrMode	Multicast frr mode	N/A	Enumeration: • **0**—by-entry(default). • **1**—by-iif.	MulticastFrrMode
MulticastFrrMonitorCycle	Multicast frr monitor cycle cycle-value	N/A	Enumeration: • **0**—10ms. • **1**—20ms. • **2**—40ms. • **3**—100ms. • **4**—200ms(default). • **5**—500ms.	MulticastFrrMonitorCycle
CpuMaxCopyCount	Maximum number of multicast packets copied	N/A	Unsigned integer. Value range: 1 to the device-specific upper limit.	The default value is customized by the product.

Mroute/Ipv4Interfaces

This table contains IPv4 multicast routing interfaces information.

XML structure

```
<Mroute>
  <Ipv4Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SupervlanCommunity></SupervlanCommunity>
      <RpfFailPktBridging></RpfFailPktBridging>
    </Interface>
  </Ipv4Interfaces>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv4 interfaces index	Index	Unsigned integer.	N/A
SupervlanCommunity	Whether to enable communication between the super-VLAN and all the sub-VLANs	N/A	Boolean: • **true**—Enables communication between the super-VLAN and all the sub-VLANs. • **false**—Disables communication between the super-VLAN and all the sub-VLANs (default).	N/A
RpfFailPktBridging	Whether to check the packets forwarded in the VLAN and failed an RPF check	N/A	Boolean: • **true**—Enables the device to check the packets forwarded in the VLAN and failed an RPF check. • **false**—Disables the device	N/A

			from checking the packets forwarded in the VLAN and failed an RPF check (default).	

Mroute/Ipv6Interfaces

This table contains IPv6 multicast routing interfaces information.

XML structure

```
<Mroute>
  <Ipv6Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SupervlanCommunity></SupervlanCommunity>
      <RpfFailPktBridging></RpfFailPktBridging>
      <MulticastBoundaryScope></MulticastBoundaryScope>
    </Interface>
  </Ipv6Interfaces>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Ipv6 interfaces index	Index	Unsigned integer.	N/A
SupervlanCommunity	Enable communication between the super-VLAN and all the sub-VLANs	N/A	Boolean: • **true—**Enables communication between the super-VLAN and all the sub-VLANs. • **false—**Disables communication between the super-VLAN and all the sub-VLANs. (default).	N/A

RpfFailPktBridging	Whether to check the packets forwarded in the VLAN and failed an RPF check	N/A	Boolean: • **true—**Enables the device to check the packets forwarded in the VLAN and failed an RPF check. • **false—**Disables the device from checking the packets forwarded in the VLAN and failed an RPF check. (default).	N/A
MulticastBoundaryScope	Specifies multicast forwarding boundary.	N/A	Unsigned integer. Value range: 3 to 15.	It supports the value of 3,4,5,8,14 and 15 currently.

Mroute/Ipv4MulticastBoundarys

This table contains IPv4 multicast boundary configuration information.

XML structure

```
<Mroute>
  <Ipv4MulticastBoundarys>
    <MulticastBoundary>
      <IfIndex></IfIndex>
      <GroupPrefix></GroupPrefix>
      <MaskLength></MaskLength>
    </MulticastBoundary>
  </Ipv4MulticastBoundarys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4MulticastBoundarys
Table type	Multi-instance table
Row name	MulticastBoundary
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv4 Mroute interfaces index	Index	Unsigned integer.	N/A

GroupPrefix	IPv4 multicast group address	Index	String, dotted decimal notation. Value range: 224.0.0.0 to 239.255.255.255.	N/A
MaskLength	Mask length	Index	Unsigned integer. Value range: 4 to 32.	N/A

Mroute/Ipv6MulticastBoundarys

This table contains IPv6 multicast boundary configuration information.

XML structure

```
<Mroute>
  <Ipv6MulticastBoundarys>
    <MulticastBoundary>
      <IfIndex></IfIndex>
      <GroupPrefix></GroupPrefix>
      <MaskLength></MaskLength>
    </MulticastBoundary>
  </Ipv6MulticastBoundarys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6MulticastBoundarys
Table type	Multi-instance table
Row name	MulticastBoundary
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv6 Mroute interfaces index	Index	Unsigned integer.	N/A
GroupPrefix	IPv6 multicast group address	Index	Hexadecimal string, colon-separated.	Example: FF1E::1
MaskLength	Mask length	Index	Unsigned integer. Value range: 8 to 128.	N/A

Mroute/Ipv4RpfStaticRoutes

This table contains IPv4 rpf route static configuration information.

XML structure

```
<Mroute>
  <Ipv4RpfStaticRoutes>
    <RpfStaticRoute>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <MaskLength></MaskLength>
      <NextHop></NextHop>
      <IfName></IfName>
      <Preference></Preference>
    </RpfStaticRoute>
  </Ipv4RpfStaticRoutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4RpfStaticRoutes
Table type	Multi-instance table
Row name	RpfStaticRoute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	N/A
MaskLength	Mask length	Index	Unsigned integer. Value range: 0 to 32.	N/A
NextHop	RPF neighbor address	Index	String, dotted decimal notation.	N/A
IfName	Interface name	Index	String Length: 2 to 47 characters	An empty string indicates that IfName is not

				configured
Preference	Route perference	N/A	Unsigned integer. Value range: 1 to 255. Default: 1.	N/A

Mroute/Ipv6RpfStaticRoutes

This table contains IPv6 rpf route static configuration information.

XML structure

```
<Mroute>
  <Ipv6RpfStaticRoutes>
    <RpfStaticRoute>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <PrefixLength></PrefixLength>
      <NextHop></NextHop>
      <IfName></IfName>
      <Preference></Preference>
    </RpfStaticRoute>
  </Ipv6RpfStaticRoutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6RpfStaticRoutes
Table type	Multi-instance table
Row name	RpfStaticRoute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated.	N/A
PrefixLength	Address prefix length	Index	Unsigned integer.	N/A

			Value range: 0 to 128.	
NextHop	IPv6 RPF neighbor address	Index	Hexadecimal string, colon-separated.	N/A
IfName	Interface name	Index	String Length: 2 to 47 characters	An empty string indicates that IfName is not configured
Preference	Route perference	N/A	Unsigned integer. Value range: 1 to 255. Default: 1.	N/A

Mroute/Ipv4FlowPolicys

This table contains IPv4 flow policy information.

XML structure

```
<Mroute>
  <Ipv4FlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <PolicyName></PolicyName>
      <Acl></Acl>
      <BandWidthValue></BandWidthValue>
      <BandWidthUnit></BandWidthUnit>
    </FlowPolicy>
  </Ipv4FlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4FlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
PolicyName	Policy name	Index	String. Length: 1 to 63 characters.	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	N/A
BandWidthValue	Bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
BandWidthUnit	Bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv6FlowPolicys

This table contains IPv6 flow policy information.

XML structure

```
<Mroute>
  <Ipv6FlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <PolicyName></PolicyName>
      <Acl></Acl>
      <BandWidthValue></BandWidthValue>
      <BandWidthUnit></BandWidthUnit>
    </FlowPolicy>
  </Ipv6FlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6FlowPolicys
Table type	Multi-instance table

Item	Description
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
PolicyName	Policy name	Index	String. Length: 1 to 63 characters.	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	N/A
BandWidthValue	Bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
BandWidthUnit	Bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv4DefaultFlowPolicys

This table contains information about the IPv4 default flow policy.

XML structure

```
<Mroute>
  <Ipv4DefaultFlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <DefaultBandWidthValue></DefaultBandWidthValue>
      <DefaultBandWidthUnit></DefaultBandWidthUnit>
    </FlowPolicy>
  </Ipv4DefaultFlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4DefaultFlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
DefaultBandWidthValue	Default bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
DefaultBandWidthUnit	Default bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv6DefaultFlowPolicys

This table contains information about the IPv6 default flow policy.

XML structure

```
<Mroute>
  <Ipv6DefaultFlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <DefaultBandWidthValue></DefaultBandWidthValue>
      <DefaultBandWidthUnit></DefaultBandWidthUnit>
    </FlowPolicy>
  </Ipv6DefaultFlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute

Item	Description
Table name	Ipv6DefaultFlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
DefaultBandWidthValue	Default bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
DefaultBandWidthUnit	Default bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Contents

Mroute 1

Mroute/Ipv4Instances 1
XML structure 1
Table description 1
Columns 1
Mroute/Ipv4Mroutes 2
XML structure 2
Table description 2
Columns 3
Mroute/Ipv4OutIfs 3
XML structure 3
Table description 4
Columns 4
Mroute/Ipv4ExtranetSelectRpfs 4
XML structure 4
Table description 5
Columns 5
Mroute/Ipv6ExtranetSelectRpfs 6
XML structure 6
Table description 6
Columns 7
Mroute/Ipv6Instances 7
XML structure 7
Table description 8
Columns 8
Mroute/Ipv6Mroutes 8
XML structure 9
Table description 9
Columns 9
Mroute/Ipv6OutIfs 10
XML structure 10
Table description 10
Columns 10
Mroute/Ipv4GlobalConfigs 11
XML structure 11
Table description 11
Columns 12
Mroute/Ipv6GlobalConfigs 13
XML structure 13
Table description 13
Columns 13
Mroute/Ipv4Interfaces 14
XML structure 14
Table description 15
Columns 15
Mroute/Ipv6Interfaces 15
XML structure 16
Table description 16
Columns 16
Mroute/Ipv4MulticastBoundarys 17
XML structure 17
Table description 17
Columns 17
Mroute/Ipv6MulticastBoundarys 18
XML structure 18
Table description 18
Columns 18

Mroute/Ipv4Statistics 18
XML structure 19
Table description 19
Columns 19
Mroute/Ipv6Statistics 19
XML structure 19
Table description 19
Columns 20
Mroute/GlobalResources 20
XML structure 20
Table description 20
Columns 20
Mroute/Ipv4RpfStaticRoutes 21
XML structure 21
Table description 21
Columns 21
Mroute/Ipv6RpfStaticRoutes 22
XML structure 22
Table description 22
Columns 23
Mroute/Ipv4FlowPolicys 23
XML structure 23
Table description 23
Columns 24
Mroute/Ipv6FlowPolicys 24
XML structure 24
Table description 25
Columns 25
Mroute/Ipv4DefaultFlowPolicys 25
XML structure 25
Table description 26
Columns 26
Mroute/Ipv6DefaultFlowPolicys 26
XML structure 26
Table description 27
Columns 27

Mroute

Mroute/Ipv4Instances

This table contains IPv4 Mroute instance information.

XML structure

```
<Mroute>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <LoadSplitting></LoadSplitting>
      <LongestMatch></LongestMatch>
    </Instance>
  </Ipv4Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
LoadSplitting	Enable multicast load splitting	N/A	Enumeration: • 1—Enables multicast source and group-based load splitting. • 2—Enables multicast source-based load splitting. • 3—Enables multicast load splitting based on links. • 4—Enables multicast load splitting based on ECMP paths. • 5—Enables multicast load	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			balancing based on ECMP paths. • 6—Enables multicast load balancing based on links.	
LongestMatch	Whether to specify the longest prefix match principle for RPF route	N/A	Boolean: • **true**—Specifies the longest prefix match. • **false**—Does not specify the longest prefix match.	N/A

Mroute/Ipv4Mroutes

This table contains IPv4 multicast route information.

XML structure

```
<Mroute>
  <Ipv4Mroutes>
    <MrouteEntry>
      <VRF></VRF>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <InIfIndex></InIfIndex>
      <Uptime></Uptime>
      <Expires></Expires>
      <OutIfNum></OutIfNum>
      <InIfName></InIfName>
    </MrouteEntry>
  </Ipv4Mroutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Mroutes
Table type	Multi-instance table
Row name	MrouteEntry
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupAddr	IPv4 multicast group address	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
InIfIndex	Index of the incoming Interface in the multicast route	N/A	Unsigned integer.	N/A
Uptime	Length of time since the multicast route was created	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the multicast route	N/A	Unsigned integer (in seconds).	N/A
OutIfNum	Total number of outgoing interfaces in the multicast route	N/A	Unsigned integer.	N/A
InIfName	Incoming interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv4OutIfs

This table contains outgoing interface information of IPv4 multicast routes.

XML structure

```
<Mroute>
  <Ipv4OutIfs>
    <OutIf>
      <VRF></VRF>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </OutIf>
  </Ipv4OutIfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4OutIfs
Table type	Multi-instance table
Row name	OutIf
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
GroupAddr	IPv4 multicast group address	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
IfIndex	Index of an outgoing Interface in the multicast route	Index	Unsigned integer.	N/A
Uptime	Length of time since the outgoing interface was added	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the outgoing interface	N/A	Unsigned integer (in seconds).	N/A
IfName	Outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv4ExtranetSelectRpfs

This table contains IPv4 MVPN extranet RPF selection policy information.

XML structure

```
<Mroute>
  <Ipv4ExtranetSelectRpfs>
    <ExtranetSelectRpf>
      <ReceiverVrf> </ReceiverVrf>
      <SpecifySource> </SpecifySource>
      <SourceAddr> </SourceAddr>
```

```
      <SourceMask> </SourceMask>
      <SpecifyGroup> </SpecifyGroup>
      <GroupAddr> </GroupAddr>
      <GroupMask> </GroupMask>
      <SenderVrf></SenderVrf>
      <SpecifyL3vni></SpecifyL3vni>
      <SenderL3vni></SenderL3vni>
    </ExtranetSelectRpf>
  </Ipv4ExtranetSelectRpfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4ExtranetSelectRpfs
Table type	Multi-instance table
Row name	ExtranetSelectRpfs
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceiverVrf	Receiver VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifySource	Whether to specify a multicast source	Index	Boolean: • **true**—Specifies a multicast source. • **false**—Does not specify a multicast source.	N/A
SourceAddr	IPv4 multicast source address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
SourceMask	Mask length.	Index	Unsigned integer. Value range: 0 to 32.	Example: 24.
SpecifyGroup	Whether to specify a multicast group	Index	Boolean: • **true**—Specifies a multicast group. • **false**—Does not specify a multicast group.	N/A
GroupAddr	IPv4 multicast group address.	Index	String, dotted decimal notation.	Example: 224.1.1.1.
GroupMask	Mask length.	Index	Unsigned integer. Value range: 4 to 32.	Example: 24

Column name	Column description	Column type	Data type and restrictions	Remarks
SenderVrf	Source VPN name.	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifyL3vni	Whether to specify a source L3VNI	Index	Boolean: • **true**—Specifies a source L3 VNI • **false**—Does not specify a source L3 VNI	N/A
SenderL3vni	Source L3 VNI	Index	Unsigned integer. Value range: 0 to 16777215.	Example: 1000.

Mroute/Ipv6ExtranetSelectRpfs

This table contains IPv6 MVPN extranet RPF selection policy information.

XML structure

```
<Mroute>
  <Ipv6ExtranetSelectRpfs>
    <ExtranetSelectRpf>
      <ReceiverVrf></ReceiverVrf>
      <SpecifySource></SpecifySource>
      <SourceAddr></SourceAddr>
      <SourceMask></SourceMask>
      <SpecifyGroup></SpecifyGroup>
      <GroupAddr></GroupAddr>
      <GroupMask></GroupMask>
      <SenderVrf></SenderVrf>
      <SpecifyL3vni></SpecifyL3vni>
      <SenderL3vni></SenderL3vni>
    </ExtranetSelectRpf>
  </Ipv6ExtranetSelectRpfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6ExtranetSelectRpfs
Table type	Multi-instance table
Row name	ExtranetSelectRpfs
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceiverVrf	Receiver VPN name	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifySource	Whether to specify a multicast source	Index	Boolean: • **true**—Specifies a multicast source. • **false**—Does not specify a multicast source.	N/A
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated.	Example: 1::1.
SourceMask	Prefix length	Index	Unsigned integer. Value range: 0 to 128.	Example: 24. No input indicates value 0.
SpecifyGroup	Whether to specify a multicast group	Index	Boolean: • **true**—Specifies a multicast group. • **false**—Does not specify a multicast group.	N/A
GroupAddr	IPv6 multicast group address.	Index	Hexadecimal string, colon-separated.	Example: FF1E::1.
GroupMask	Prefix length.	Index	Unsigned integer. Value range: 0 or 8 to 128.	Example: 24 0 indicates the column is not specified.
SenderVrf	Source VPN name.	Index	String. Length: 0 to 31 characters. Case-sensitive.	An empty string indicates the public network.
SpecifyL3vni	Whether to specify a source Layer 3 VNI	Index	Boolean: • **true**—Specifies a source Layer 3 VNI • **false**—Does not specify a source Layer 3 VNI	N/A
SenderL3vni	Source Layer 3 VNI	Index	Unsigned integer. Value range: 0 to 16777215.	Example: 1000.

Mroute/Ipv6Instances

This table contains IPv6 Mroute instance information.

XML structure

```
<Mroute>
  <Ipv6Instances>
    <Instance>
```

```
      <VRF></VRF>
      <LoadSplitting></LoadSplitting>
      <LongestMatch></LongestMatch>
    </Instance>
  </Ipv6Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only the default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
LoadSplitting	Enable IPv6 multicast load splitting	N/A	Enumeration: • **1**—Enables multicast source and group-based load splitting. • **2**—Enables multicast source-based load splitting. • 3—Enables multicast load splitting based on links. • 4—Enables multicast load splitting based on ECMP paths. • 5—Enables multicast load balancing based on ECMP paths. • 6—Enables multicast load balancing based on links.	N/A
LongestMatch	Whether to specify the longest prefix match principle for RPF route	N/A	Boolean: • **true**—Specifies the longest prefix match. • **false**—Does not specify the longest prefix match.	N/A

Mroute/Ipv6Mroutes

This table contains IPv6 multicast route information.

XML structure

```
<Mroute>
  <Ipv6Mroutes>
    <MrouteEntry>
      <VRF></VRF>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <InIfIndex></InIfIndex>
      <Uptime></Uptime>
      <Expires></Expires>
      <OutIfNum></OutIfNum>
      <InIfName></InIfName>
    </MrouteEntry>
  </Ipv6Mroutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Mroutes
Table type	Multi-instance table
Row name	MrouteEntry
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupAddr	IPv6 multicast group address	Index	Hexadecimal string, colon-separated.	Example: FF1E::1.
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated.	Example: 2100::1.
InIfIndex	Index of the incoming Interface in the IPv6 multicast route	N/A	Unsigned integer.	N/A
Uptime	Length of time since the IPv6 multicast route was created	N/A	Unsigned integer (in seconds).	N/A

Expires	Remaining time of the IPv6 multicast route	N/A	Unsigned integer (in seconds).	N/A
OutIfNum	Total number of outgoing interfaces in the IPv6 multicast route	N/A	Unsigned integer.	N/A
InIfName	Incoming interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv6OutIfs

This table contains outgoing interface information of IPv6 multicast routes.

XML structure

```
<Mroute>
  <Ipv6OutIfs>
    <OutIf>
      <VRF></VRF>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </OutIf>
  </Ipv6OutIfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6OutIfs
Table type	Multi-instance table
Row name	OutIf
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String.	An empty string indicates the public

			Length: 0 to 31 characters.	network
GroupAddr	IPv6 multicast group address	Index	Hexadecimal string, colon-separated.	Example: FF1E::1.
SourceAddr	IPv6 multicast source address	Index	Hexadecimal string, colon-separated.	Example: 2100::1.
IfIndex	Index of an outgoing Interface in the IPv6 multicast route	Index	Unsigned integer.	N/A
Uptime	Length of time since the outgoing interface was added	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the outgoing interface	N/A	Unsigned integer (in seconds).	N/A
IfName	Outgoing interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv4GlobalConfigs

This table contains global configuration of IPv4 multicast routes.

XML structure

```
<Mroute>
  <Ipv4GlobalConfigs>
    <GlobalConfig>
      <MtraceServicePort></MtraceServicePort>
      <CacheUnknownPerEntry></CacheUnknownPerEntry>
      <CacheUnknownTotal></CacheUnknownTotal>
      <RpfFailPktFlooding></RpfFailPktFlooding>
      <RpfFailPktTrapToCpu></RpfFailPktTrapToCpu>
      <MulticastFrrMode></MulticastFrrMode>
      <MulticastFrrMonitorCycle></MulticastFrrMonitorCycle>
      <CpuMaxCopyCount></CpuMaxCopyCount>
    </GlobalConfig>
  </Ipv4GlobalConfigs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4GlobalConfigs
Table type	Single-instance table

Item	Description
Row name	GlobalConfig
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MtraceServicePort	Mtrace service port number	N/A	Unsigned integer. Value range: 1024 to 49151.	N/A
CacheUnknownPerEntry	Maximum number of unknown multicast packets that can be cached for an (S, G) entry	N/A	Unsigned integer. Value range: 0 to 256.	N/A
CacheUnknownTotal	Maximum number of all unknown multicast packets that can be cached	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RpfFailPktFlooding	Whether to enable the device to flood the multicast data packets that fail the RPF check in all VLANs	N/A	Boolean: • **true**—Enables the device to flood the multicast data packets that fail the RPF check in all VLANs. • **false**—Disables the device from flooding the multicast data packets that fail the RPF check in all VLANs.	N/A
RpfFailPktTrapToCpu	Whether to enable the device to deliver the multicast data packets that fail the RPF check to the CPU	N/A	Boolean: • **true**—Enables the device to deliver the multicast data packets that fail the RPF check to the CPU. • **false**—Disables the device from delivering the multicast data packets that fail the RPF check to the CPU.	N/A
MulticastFrrMode	Multicast frr mode	N/A	Enumeration: • **0**—by-entry. • **1**—by-iif.	MulticastFrrMode
MulticastFrrMonitorCycle	Multicast frr monitor cycle cycle-value	N/A	Enumeration: • **0**—10ms. • **1**—20ms. • **2**—40ms. • **3**—100ms. • **4**—200ms. • **5**—500ms.	MulticastFrrMonitorCycle

MulticastFrrMode	Multicast frr mode	N/A	Enumeration: • **0**—by-entry. • **1**—by-iif.	MulticastFrrMode
CpuMaxCopyCount	Maximum number of multicast packets copied	N/A	Unsigned integer. Value range: 1 to the device-specific upper limit.	N/A

Mroute/Ipv6GlobalConfigs

This table contains global configuration of IPv6 multicast routes.

XML structure

```
<Mroute>
  <Ipv6GlobalConfigs>
    <GlobalConfig>
      <MtraceServicePort></MtraceServicePort>
      <CacheUnknownPerEntry></CacheUnknownPerEntry>
      <CacheUnknownTotal></CacheUnknownTotal>
      <RpfFailPktFlooding></RpfFailPktFlooding>
      <RpfFailPktTrapToCpu></RpfFailPktTrapToCpu>
      <MulticastFrrMode></MulticastFrrMode>
      <MulticastFrrMonitorCycle></MulticastFrrMonitorCycle>
      <CpuMaxCopyCount></CpuMaxCopyCount>
    </GlobalConfig>
  </Ipv6GlobalConfigs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6GlobalConfigs
Table type	Single-instance table
Row name	GlobalConfig
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MtraceServicePort	Mtrace service port number	N/A	Unsigned integer. Value range: 1024 to 49151.	N/A
CacheUnkno	Maximum	N/A	Unsigned integer.	N/A

wnPerEntry	number of unknown multicast packets that can be cached for an (S, G) entry		Value range: 0 to 256.	
CacheUnknownTotal	Maximum number of all unknown multicast packets that can be cached	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RpfFailPktFlooding	Whether to enable the device to flood the multicast data packets that fail the RPF check in all VLANs	N/A	Boolean: • **true**—Enables the device to flood the multicast data packets that fail the RPF check in all VLANs. • **false**—Disables the device from flooding the multicast data packets that fail the RPF check in all VLANs.	N/A
RpfFailPktTrapToCpu	Whether to enable the device to deliver the multicast data packets that fail the RPF check to the CPU	N/A	Boolean: • **true**—Enables the device to deliver the multicast data packets that fail the RPF check to the CPU. • **false**—Disables the device from delivering the multicast data packets that fail the RPF check to the CPU.	N/A
MulticastFrrMode	Multicast frr mode	N/A	Enumeration: • **0**—by-entry. • **1**—by-iif.	N/A
MulticastFrrMonitorCycle	Multicast frr monitor cycle cycle-value	N/A	Enumeration: • **0**—10ms. • **1**—20ms. • **2**—40ms. • **3**—100ms. • **4**—200ms. • **5**—500ms.	N/A
CpuMaxCopyCount	Maximum number of multicast packets copied	N/A	Unsigned integer. Value range: 1 to the device-specific upper limit.	N/A

Mroute/Ipv4Interfaces

This table contains IPv4 multicast routing interfaces information.

XML structure

```
<Mroute>
  <Ipv4Interfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <SupervlanCommunity></SupervlanCommunity>
      <RpfFailPktBridging></RpfFailPktBridging>
      <IfName></IfName>
    </Interface>
  </Ipv4Interfaces>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv4 interfaces index	Index	Unsigned integer.	N/A
SupervlanCommunity	Whether to enable communication between the super-VLAN and all the sub-VLANs	N/A	Boolean: • **true**—Enables communication between the super-VLAN and all the sub-VLANs. • **false**—Disables communication between the super-VLAN and all the sub-VLANs.	N/A
RpfFailPktBridging	Whether to check the packets forwarded in the VLAN and failed an RPF check	N/A	Boolean: • **true**—Enables the device to check the packets forwarded in the VLAN and failed an RPF check. • **false**—Disables the device from checking the packets forwarded in the VLAN and failed an RPF check.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv6Interfaces

This table contains IPv6 multicast routing interfaces information.

XML structure

```
<Mroute>
  <Ipv6Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SupervlanCommunity></SupervlanCommunity>
      <RpfFailPktBridging></RpfFailPktBridging>
      <MulticastBoundaryScope></MulticastBoundaryScope>
      <IfName></IfName>
    </Interface>
  </Ipv6Interfaces>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv6 interfaces index	Index	Unsigned integer.	N/A
SupervlanCommunity	Whether to enable communication between the super-VLAN and all the sub-VLANs	N/A	Boolean: • **true**—Enables communication between the super-VLAN and all the sub-VLANs. • **false**—Disables communication between the super-VLAN and all the sub-VLANs.	N/A
RpfFailPktBridging	Whether to check the packets forwarded in the VLAN and have failed an RPF check	N/A	Boolean: • **true**—Enables the device to check the packets forwarded in the VLAN and failed an RPF check. • **false**—Disables the device from checking the packets forwarded in the VLAN and failed an RPF check.	N/A
MulticastBou	Multicast	N/A	Unsigned integer.	The current

ndaryScope	forwarding boundary		Value range: 3 to 15.	software version supports values 3, 4, 5, 8, 14, and 15.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv4MulticastBoundarys

This table contains IPv4 multicast boundary configuration information.

XML structure

```
<Mroute>
  <Ipv4MulticastBoundarys>
    <MulticastBoundary>
      <IfIndex></IfIndex>
      <GroupPrefix></GroupPrefix>
      <MaskLength></MaskLength>
      <IfName></IfName>
    </MulticastBoundary>
  </Ipv4MulticastBoundarys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4MulticastBoundarys
Table type	Multi-instance table
Row name	MulticastBoundary
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv4 Mroute interfaces index	Index	Unsigned integer.	N/A
GroupPrefix	IPv4 multicast group address	Index	String, dotted decimal notation. Value range: 224.0.0.0 to 239.255.255.255.	N/A
MaskLength	Mask length	Index	Unsigned integer. Value range: 4 to 32.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv6MulticastBoundarys

This table contains IPv6 multicast boundary configuration information.

XML structure

```
<Mroute>
  <Ipv6MulticastBoundarys>
    <MulticastBoundary>
      <IfIndex></IfIndex>
      <GroupPrefix></GroupPrefix>
      <MaskLength></MaskLength>
      <IfName></IfName>
    </MulticastBoundary>
  </Ipv6MulticastBoundarys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6MulticastBoundarys
Table type	Multi-instance table
Row name	MulticastBoundary
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IPv6 Mroute interfaces index	Index	Unsigned integer.	N/A
GroupPrefix	IPv6 multicast group address	Index	Hexadecimal string, colon-separated.	Example: FF1E::1.
MaskLength	Prefix length	Index	Unsigned integer. Value range: 8 to 128.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Mroute/Ipv4Statistics

This table contains IPv4 multicast route statistics.

XML structure

```
<Mroute>
  <Ipv4Statistics>
    <MrouteEntryCount></MrouteEntryCount>
  </Ipv4Statistics>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Statistics
Table type	Multi-instance table
Row name	MrouteStatistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MrouteEntry Count	Number of IPv4 multicast routes	N/A	Unsigned integer.	N/A

Mroute/Ipv6Statistics

This table contains IPv6 multicast route statistics.

XML structure

```
<Mroute>
  <Ipv6Statistics>
    <MrouteEntryCount></MrouteEntryCount>
  </Ipv6Statistics>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6Statistics
Table type	Multi-instance table
Row name	MrouteStatistics

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MrouteEntry Count	Number of IPv6 multicast routes	N/A	Unsigned integer.	N/A

Mroute/GlobalResources

This table contains global resource information.

XML structure

```
<Mroute>
  <GlobalResources>
    <GlobalResource>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MaxIPMCNum></MaxIPMCNum>
      <L2RouteNum></L2RouteNum>
      <L3RouteNum></L3RouteNum>
    </GlobalResource>
  </GlobalResources>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	GlobalResources
Table type	Multi-instance table
Row name	GlobalResource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis	Index	Unsigned integer.	N/A

	number			
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
MaxIPMCNum	Max IPMC number	N/A	Unsigned integer.	N/A
L2RouteNum	L2 route number	N/A	Unsigned integer.	N/A
L3RouteNum	L3 route number	N/A	Unsigned integer.	N/A

Mroute/Ipv4RpfStaticRoutes

This table contains IPv4 rpf route static configuration information.

XML structure

```
<Mroute>
  <Ipv4RpfStaticRoutes>
    <RpfStaticRoute>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <MaskLength></MaskLength>
      <NextHop></NextHop>
      <IfName></IfName>
      <Preference></Preference>
    </RpfStaticRoute>
  </Ipv4RpfStaticRoutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4RpfStaticRoutes
Table type	Multi-instance table
Row name	RpfStaticRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network

SourceAddr	IPv4 multicast source address	Index	• String, dotted decimal notation.	N/A
MaskLength	Mask length	Index	Unsigned integer. • Value range: 0 to 32.	N/A
NextHop	RPF neighbor address	Index	String, dotted decimal notation.	N/A
IfName	Interface name	Index	String. Length: 2 to 47 characters.	An empty string indicates that IfName is not configured
Preference	Route perference	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Mroute/Ipv6RpfStaticRoutes

This table contains IPv6 rpf route static configuration information.

XML structure

```
<Mroute>
  <Ipv6RpfStaticRoutes>
    <RpfStaticRoute>
      <VRF></VRF>
      <SourceAddr></SourceAddr>
      <PrefixLength></PrefixLength>
      <NextHop></NextHop>
      <IfName></IfName>
      <Preference></Preference>
    </RpfStaticRoute>
  </Ipv6RpfStaticRoutes>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6RpfStaticRoutes
Table type	Multi-instance table
Row name	RpfStaticRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
SourceAddr	IPv6 multicast source address	Index	• Hexadecimal string, colon-separated.	N/A
PrefixLength	Address prefix length	Index	Unsigned integer. • Value range: 0 to 128.	N/A
NextHop	IPv6 RPF neighbor address	Index	Hexadecimal string, colon-separated.	N/A
IfName	Interface name	Index	String. Length: 2 to 47 characters.	An empty string indicates that IfName is not configured
Preference	Route perference	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Mroute/Ipv4FlowPolicys

This table contains IPv4 flow policy information.

XML structure

```
<Mroute>
  <Ipv4FlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <PolicyName></PolicyName>
      <Acl></Acl>
      <BandWidthValue></BandWidthValue>
      <BandWidthUnit></BandWidthUnit>
    </FlowPolicy>
  </Ipv4FlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4FlowPolicys
Table type	Multi-instance table

Item	Description
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
PolicyName	Policy name	Index	String. Length: 1 to 63 characters.	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	N/A
BandWidthValue	Bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
BandWidthUnit	Bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv6FlowPolicys

This table contains IPv6 flow policy information.

XML structure

```
<Mroute>
  <Ipv6FlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <PolicyName></PolicyName>
      <Acl></Acl>
      <BandWidthValue></BandWidthValue>
      <BandWidthUnit></BandWidthUnit>
    </FlowPolicy>
  </Ipv6FlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6FlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network
PolicyName	Policy name	Index	String. Length: 1 to 63 characters.	N/A
Acl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	N/A
BandWidthValue	Bandwidth value	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
BandWidthUnit	Bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv4DefaultFlowPolicys

This table contains information about the IPv4 default flow policy.

XML structure

```
<Mroute>
  <Ipv4DefaultFlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <DefaultBandWidthValue></DefaultBandWidthValue>
```

```
      <DefaultBandWidthUnit></DefaultBandWidthUnit>
    </FlowPolicy>
  </Ipv4DefaultFlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4DefaultFlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
DefaultBandWidthValue	Default bandwidth value	N/A	Unsigned integer.: Value range: 1 to 10000.	N/A
DefaultBandWidthUnit	Default bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Mroute/Ipv6DefaultFlowPolicys

This table contains information about the IPv6 default flow policy.

XML structure

```
<Mroute>
  <Ipv6DefaultFlowPolicys>
    <FlowPolicy>
      <VRF></VRF>
      <DefaultBandWidthValue></DefaultBandWidthValue>
      <DefaultBandWidthUnit></DefaultBandWidthUnit>
    </FlowPolicy>
  </Ipv6DefaultFlowPolicys>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv6DefaultFlowPolicys
Table type	Multi-instance table
Row name	FlowPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
DefaultBandWidthValue	Default bandwidth value	N/A	Unsigned integer.: Value range: 1 to 10000.	N/A
DefaultBandWidthUnit	Default bandwidth unit	N/A	Enumeration: • Gbps. • Mbps. • Kbps.	N/A

Contents

Mroute 2
Mroute/Ipv4Instances 2
Mroute/Ipv4Mroutes 2
Mroute/Ipv4OutIfs 2
Mroute/Ipv4ExtranetSelectRpfs 3
Mroute/Ipv6ExtranetSelectRpfs 3
Mroute/Ipv6Instances 4
Mroute/Ipv6Mroutes 5
Mroute/Ipv6OutIfs 5
Mroute/Ipv4MulticastBoundarys 5
Mroute/Ipv6MulticastBoundarys 5
Mroute/Ipv4Interfaces 6
Mroute/Ipv6Interfaces 6
Mroute/Ipv4RpfStaticRoutes 6
Mroute/Ipv6RpfStaticRoutes 6
Mroute/Ipv4GlobalConfigs 7
Mroute/Ipv6GlobalConfigs 7
Mroute/Ipv4FlowPolicys 7
Mroute/Ipv6FlowPolicys 8
Mroute/Ipv4DefaultFlowPolicys 8
Mroute/Ipv6DefaultFlowPolicys 8

Mroute

Mroute/Ipv4Instances

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
Maximum number of VRFs that are enabled with IP multicast routing already reached. IP组播实例的数量已达到最大值。	During creating a new multicast VRF, maximum number of VRFs that are enabled with IP multicast routing already reached. 创建一个新的实例时，当前组播实例已经达到最大规格数目。
IP multicast routing is not enabled. IP组播路由尚未开启。	During executing set operation, IP multicast routing is not enabled. 对该表进行配置时，当前IP组播路由还未开启。
The specified VPN instance does not exist. 指定的VPN实例不存在。	During executing set operation，the VPN instance does not exist. 对该表进行配置时，指定的VPN不存在。
The specified VPN instance doesn't exist or is already used by other vSystems. 指定的VPN不存在或者已被其他vsys所使用。	During executing set operation, the specified VPN instance doesn't exist or is being used by other vSystems. 对该表进行配置时，指定的VPN不存在或者已被其他vsys所使用。

Mroute/Ipv4Mroutes

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。

Mroute/Ipv4OutIfs

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。

Mroute/Ipv4ExtranetSelectRpfs

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The source VPN and the receiver VPN conflict. 当前VPN实例已使用。	During executing set operation, the multicast source and the multicast receiver cannot be in the same VPN. 对该表进行配置时，组播源和组播接受者不能属于同一个VPN。
A multicast RPF routing policy has been configured. 已配置组播RPF路由策略。	During executing set operation, the same source and group has been specified for another VPN instance or anther L3 VNI. 对该表进行配置时，不同的VPN或不同的L3vni不能配置相同的组播源和组播组信息。
The specified VPN instance does not exist. 指定的VPN实例不存在。	During executing set operation, the specified VPN instance does not exist. 对该表进行配置时，已经配置的VPN实例不存在。
Multicast source address is illegal. 组播源地址不合法。	During executing set operation, the multicast source address in the route selction policy is invalid. 对该表进行配置时，组播源地址是不合法的。
Multicast group address is illegal. 组播组地址不合法。	During executing set operation, the multicast group address specified in the route selection policy is invalid. 对该表进行配置时，组播组地址是不合法的。
The source VPN and the L3vni conflict. 不能同时配置组播源VPN和L3vni。	During executing set operation, a source VPN instance and an L3 VNI cannot be specified at the same time. 对该表进行配置时，不能同时配置源VPN和L3vni。
The SpecifySource and SpecifyGroup columns cannot be both configured as false. 组播源地址和组播组地址不能同时配置为0。	The SpecifySource and SpecifyGroup columns cannot be both configured as false. 对该表进行配置时，组播源地址和组播组地址不能同时配置为0。
The address and mask must be configured when the SpecifySource or SpecifyGroup column is true. 当指定组播源或组播组时，地址和掩码不能为空。	The address and mask must be configured when the SpecifySource or SpecifyGroup column is true. 当指定组播源或组播组时，地址和掩码不能为空。

Mroute/Ipv6ExtranetSelectRpfs

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The source VPN and the receiver VPN conflict. 当前VPN实例已使用。	During executing set operation, the multicast source and the multicast receiver cannot be in the same VPN. 对该表进行配置时，组播源和组播接收者不能属于同一个VPN。

A multicast RPF routing policy has been configured. 已配置组播RPF路由策略。	During executing set operation, a multicast source and group can be specified only for one VPN instance or L3 VNI. 对该表进行配置时，不同的VPN或不同的L3VNI不能配置相同的组播源和组播组信息。
The specified VPN instance does not exist. 指定的VPN实例不存在。	During executing set operation, the specified VPN instance does not exist. 对该表进行配置时，已经配置的VPN实例不存在。
Multicast source address is illegal. 组播源地址不合法。	During executing set operation, the multicast source address in the route selction policy is invalid. 对该表进行配置时，组播源地址是不合法的。
Multicast group address is illegal. 组播组地址不合法。	During executing set operation, the multicast group address specified in the route selection policy is invalid. 对该表进行配置时，组播组地址是不合法的。
Cannot configure the address and mask when the SpecifySource or SpecifyGroup column is false. 没有指定组播源或组播组,不能配置地址和掩码。	You must specify a multicast source or group before you can configure the address and mask. 只有指定组播源或者组播组时才能配置地址和掩码。
The value range for a multicast group mask length is 8 to 128. 组播组地址掩码长度为8-128。	A multicast group mask length must be in the range of 8 to 128. 组播组地址掩码长度为8-128。
The SpecifySource and SpecifyGroup columns cannot be both configured as false. 组播源地址和组播组地址不能同时配置为0。	The SpecifySource and SpecifyGroup column cannot be both configured as false. 对该表进行配置时，组播源地址和组播组地址不能同时配置为0。
The address and mask must be configured when the SpecifySource or SpecifyGroup column is true. 当指定组播源或组播组时，地址和掩码不能为空。	The address and mask must be configured when the SpecifySource or SpecifyGroup column is true. 当指定组播源或组播组时，地址和掩码不能为空。

Mroute/Ipv6Instances

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
Maximum number of VRFs that are enabled with IP multicast routing already reached. IP组播实例的数量已达到最大值。	During creating a new multicast VRF, maximum number of VRFs that are enabled with IP multicast routing already reached. 创建一个新的实例时，当前组播实例已经达到最大规格数目。
IP multicast routing is not enabled. IP组播路由尚未开启。	During executing set operation, IP multicast routing is not enabled. 对该表进行配置时，当前IP组播路由还未开启。
The specified VPN instance does not exist. 指定的VPN实例不存在。	During executing set operation，the VPN instance does not exist. 对该表进行配置时，指定的VPN不存在。
The specified VPN instance doesn't exist or is already used by other vSystems. 对该表进行配置时，指定的VPN不存在或者已被其他vsys所使用。	During executing set operation, the specified VPN instance doesn't exist or is being used by other vSystems. 对该表进行配置时，指定的VPN不存在或者已被其他vsys所使用。

Mroute/Ipv6Mroutes

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。

Mroute/Ipv6OutIfs

Message	Explanation
MRIB is not configured. MRIB尚未配置。	During executing set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During executing set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。

Mroute/Ipv4MulticastBoundarys

Message	Explanation
This boundary is contained in an existing boundary specified on the interface. 配置的指定组播边界地址范围的组播组地址已被包含。	This boundary is contained in an existing boundary specified on the interface. 配置的指定组播边界地址范围的组播组地址已被包含。
Multicast group address is illegal. 组播组地址不合法。	During executing set operation, the multicast group address specified in the route selection policy is invalid. 对该表进行配置时，组播组地址是不合法的。

Mroute/Ipv6MulticastBoundarys

Message	Explanation
This boundary is contained in an existing boundary specified on the interface. 配置的指定组播边界地址范围的组播组地址已被包含。	This boundary is contained in an existing boundary specified on the interface. 配置的指定组播边界地址范围的组播组地址已被包含。
Multicast group address is illegal. 组播组地址不合法。	During executing set operation, the multicast group address specified in the route selection policy is invalid. 对该表进行配置时，组播组地址是不合法的。

Mroute/Ipv4Interfaces

Message	Explanation
The interface type should be VLAN interface. 必须在VLAN接口下进行配置。	The interface must be a VLAN interface. 必须在 VLAN 接口下进行配置。

Mroute/Ipv6Interfaces

Message	Explanation
The interface type should be VLAN interface. 必须在VLAN接口下进行配置。	The interface must be a VLAN interface. 必须在 VLAN 接口下进行配置。

Mroute/Ipv4RpfStaticRoutes

Message	Explanation
Multicast source address is illegal. 组播源地址不合法。	During executing set operation, the multicast source address in the route selction policy is invalid. 对该表进行配置时，组播源地址是不合法的。
Source address is supernet of Nexthop. 组播源地址和组播转发下一跳地址不能处于同一网段。	Source address is supernet of Nexthop. 组播源地址和组播转发下一跳地址不能处于同一网段。
Cannot configure the NextHop and IfName columns to take effect at the same time. 无法同时配置下一跳地址和出接口名称。	During executing set operation, cannot configure the NextHop and IfName columns to take effect at the same time. 对该表进行配置时，不能同时配置下一跳地址和出接口名称为有效值。
NextHop and IfName cannot be set to invalid values at the same time. 下一跳地址和出接口名称不能同时设置为无效值。	During executing set operation, cannot configure the NextHop and IfName columns as invalid values at the same time. 对该表进行配置时，不能同时配置下一跳地址和出接口名称为无效值。
Multicast nexthop address is illegal. 组播下一跳地址不合法。	During executing set operation, the multicast nexthop address is invalid. 对该表进行配置时，组播下一跳地址是不合法的。

Mroute/Ipv6RpfStaticRoutes

Message	Explanation
Multicast source address is illegal. 组播源地址不合法。	During executing set operation, the multicast source address in the route selction policy is invalid. 对该表进行配置时，组播源地址是不合法的。
Source Address is supernet of Nexthop. 组播源地址和组播转发下一跳地址不能处于同一网段。	Source Address is supernet of Nexthop. 组播源地址和组播转发下一跳地址不能处于同一网段。

Cannot configure the NextHop and IfName columns to take effect at the same time. 无法同时配置下一跳地址和出接口名称。	During executing set operation, cannot configure the NextHop and IfName columns to take effect at the same time. 对该表进行配置时，不能同时配置下一跳地址和出接口名称为有效值。
NextHop and IfName cannot be set to invalid values at the same time. 下一跳地址和出接口名称不能同时设置为无效值。	During executing set operation, cannot configure the NextHop and IfName columns as invalid values at the same time. 对该表进行配置时，不能同时配置下一跳地址和出接口名称为无效值。
Multicast nexthop address is illegal. 组播下一跳地址不合法。	During executing set operation, the multicast nexthop address is invalid. 对该表进行配置时，组播下一跳地址是不合法的。

Mroute/Ipv4GlobalConfigs

Message	Explanation
The value of the CpuMaxCopyCount column is out of range. The value range is 1 to %u. 配置的软转发复制份数上限的值非法，该值有效范围是1 - %u。	The value of the CpuMaxCopyCount column cannot be greater than the product customization value. 配置的软转发复制份数上限不能大于产品定制值。

Mroute/Ipv6GlobalConfigs

Message	Explanation
The value of the CpuMaxCopyCount column is out of range. The value range is 1 to %u. 配置的软转发复制份数上限的值非法，该值有效范围是1 - %u。	The value of the CpuMaxCopyCount column cannot be greater than the product customization value. 配置的软转发复制份数上限不能大于产品定制值。

Mroute/Ipv4FlowPolicys

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During a set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During a set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。	The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。

Mroute/Ipv6FlowPolicys

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During a set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During a set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。	The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。

Mroute/Ipv4DefaultFlowPolicys

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During a set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During a set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。	The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。

Mroute/Ipv6DefaultFlowPolicys

Message	Explanation
MRIB is not configured.. MRIB尚未配置。	During a set operation, MRIB is not configured. 对该表进行配置时，MRIB 还未配置。
MRIB is not ready. MRIB尚未就绪。	During a set operation, MRIB does not fully start up. 对该表进行配置时，MRIB还未完全启动。
The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。	The bandwidth value and unit must be both set. 带宽的值与单位必须同时设置。

Contents

MSDP 1
MSDP/Instances 1
XML structure 1
Table description 1
Columns 1
MSDP/Peers 2
XML structure 2
Table description 2
Columns 3

MSDP

MSDP/Instances

This table contains MSDP instance information.

XML structure

```
<MSDP>
  <Instances>
    <Instance>
      <VRF></VRF>
      <KeepaliveHoldtime>
        <KeepaliveInterval></KeepaliveInterval>
        <Holdtime></Holdtime>
      </KeepaliveHoldtime>
      <ConnectRetryInterval></ConnectRetryInterval>
    </Instance>
  </Instances>
</MSDP>
```

Table description

Item	Description
Feature name	MSDP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters. Case sensitive.	An empty string indicates the public network.
KeepaliveHoldtime	MSDP session keepalive settings	Data structure	Members include: • KeepaliveInterval • Holdtime	N/A
KeepaliveInt	MSDP peer	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
erval	keepalive timer		Value range: 1 to 21845, in seconds. Default: 60.	
Holdtime	MSDP peer hold timer	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 75.	N/A
ConnectRetryInterval	MSDP connection retry interval	N/A	Unsigned integer. Value range: 1 to 60, in seconds. Default: 30.	N/A

MSDP/Peers

This table contains MSDP peer configuration information.

XML structure

```
<MSDP>
  <Peers>
    <Peer>
        <VRF></VRF>
        <Address></Address>
        <ConnectInterface></ConnectInterface>
        <PasswordInfo>
          <Type></Type>
          <Password></Password>
        </PasswordInfo>
     </Peer>
  </Peers>
</MSDP>
```

Table description

Item	Description
Feature name	MSDP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters. Case sensitive.	An empty string indicates the public network.
Address	IP address of an MSDP peer	Index	String, dotted decimal notation.	N/A
ConnectInterface	Interface used to establish a TCP connection with the MSDP peer	N/A	Unsigned integer.	The device uses the primary address of the specified interface to establish a TCP connection with the MSDP peer.
PasswordInfo	Configuration of the password used to establish a connection with the MSDP peer	Data structure	Members include: • Type • Password	N/A
Type	Password type	N/A	Unsigned integer. • **1**—Password in plaintext form. • 2—Password in encrypted form.	N/A
Password	Password	N/A	String. Length: • For a password in plaintext form, the length is 1 to 80 characters. • For a password in encrypted form, the length is 33 to 137 characters. Case sensitive.	N/A

Contents

MSDP 1
MSDP/Instances 1
XML structure 1
Table description 1
Columns 1
MSDP/Peers 2
XML structure 2
Table description 2
Columns 3

MSDP

MSDP/Instances

This table contains MSDP instance information.

XML structure

```
<MSDP>
  <Instances>
    <Instance>
      <VRF></VRF>
      <KeepaliveHoldtime>
        <KeepaliveInterval></KeepaliveInterval>
        <Holdtime></Holdtime>
      </KeepaliveHoldtime>
      <ConnectRetryInterval></ConnectRetryInterval>
    </Instance>
  </Instances>
</MSDP>
```

Table description

Item	Description
Feature name	MSDP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters. Case sensitive.	An empty string indicates the public network.
KeepaliveHoldtime	MSDP session keepalive settings	Data structure	Members include: • KeepaliveInterval • Holdtime	N/A
KeepaliveInt	MSDP peer	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
erval	keepalive timer		Value range: 1 to 21845, in seconds.	
Holdtime	MSDP peer keepalive timer	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
ConnectRetryInterval	MSDP peer hold timer	N/A	Unsigned integer. Value range: 1 to 60, in seconds.	N/A

MSDP/Peers

This table contains MSDP peer configuration information.

XML structure

```
<MSDP>
  <Peers>
    <Peer>
        <VRF></VRF>
        <Address></Address>
        <ConnectInterface></ConnectInterface>
        <PasswordInfo>
          <Type></Type>
          <Password></Password>
        </PasswordInfo>
        <ConnectIfName></ConnectIfName>
     </Peer>
  </Peers>
</MSDP>
```

Table description

Item	Description
Feature name	MSDP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name	Index	String. Length: 0 to 31 characters. Case sensitive.	An empty string indicates the public network.
Address	IP address of an MSDP peer	Index	String, dotted decimal notation.	N/A
ConnectInterface	Interface used to establish a TCP connection with the MSDP peer	N/A	Unsigned integer.	The device uses the primary address of the specified interface to establish a TCP connection with the MSDP peer.
PasswordInfo	Configuration of the password used to establish a connection with the MSDP peer	Data structure	Members include: • Type • Password	N/A
Type	Password type	N/A	Unsigned integer. • **1**—Password in plaintext form. • 2—Password in encrypted form.	N/A
Password	Password	N/A	String. • Length: For a password in plaintext form, the length is 1 to 80 characters. • For a password in encrypted form, the length is 33 to 137 characters. Case sensitive.	N/A
ConnectIfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Contents

MSDP 1
MSDP/Peers 1
MSDP/Instances 1

MSDP

MSDP/Peers

Message	Explanation
The specified VPN instance does not exist. 指定的VPN实例不存在。	During executing set operation, the configured VPN instance does not exist. 对该表进行配置时，已经配置的VPN实例不存在。
MSDP is not ready. MSDP尚未就绪。	During executing set operation, MSDP has not fully started up. 对该表进行配置时，MSDP还未完全启动。
MSDP is not configured. MSDP未配置。	MSDP is not configured in the current VPN instance. 当前VPN实例中未使能MSDP功能。
The specified VPN instance is being deleted. 指定的VPN实例正在被删除。	Operation failed because the VPN instance is being deleted. VPN实例在删除中无法对其进行操作。
The interface doesn't exist. 不存在的接口。	The interface does not exist. 接口不存在。
The interface to communicate with a peer has not been configured. 尚未配置与对等体通信的接口。	You must specify an interface before configuring the other property columns. 在配置其他属性列之前必须先指定接口。
Failed to operate DBM. DBM操作失败。	The DBM operation failed. 对于DBM的操作失败。
Failed to send an HA message. 发送HA消息失败。	Failed to send a message for real-time backup the configuration of the peer. 发送对等体的配置的实时备份信息失败。
The specified peer doesn't exist. 指定的对等体不存在。	The peer configuration is invalid. 对等体配置是无效的。
The specified interface doesn't belong to the VPN instance. 指定的接口不属于这个VPN实例。	The specified interface must first be associated with the VPN instance. 指定的接口必须先与VPN实例绑定。

MSDP/Instances

Message	Explanation
MSDP is not ready. MSDP尚未就绪。	During executing set operation, MSDP has not fully started up. 对该表进行配置时，MSDP还未完全启动。
The specified VPN instance does not exist.	During executing set operation, the configured VPN instance does not exist.

Message	Explanation
指定的VPN实例不存在。	对该表进行配置时，已经配置的VPN实例不存在。
The keepalive time must be less than the hold time. 保活时间必须小于保持时间。	The keepalive time for the specified MSDP peer connection must be less than the hold time. 配置MSDP对等体会话的保活时间必须小于保持时间。
Configuration can be executed only on public network. 仅在公网中支持该配置。	In the case of multiple instances, only public network allows configuration. 多实例情况下，仅允许在公网中进行相关配置。

Contents

MSEG 1
MSEG/Groups 1
XML structure 1
Table description 1
Columns 1
MSEG/Groups/Members/IPv4Member 2
XML structure 2
Table description 2
Columns 2
MSEG/Groups/Members/IPv6Member 2
XML structure 3
Table description 3
Columns 3
MSEG/Global 3
XML structure 3
Table description 3
Columns 4
MSEG/AggGroups 4
XML structure 4
Table description 4
Columns 5
MSEG/Match 5
XML structure 5
Table description 5
Columns 6

MSEG

MSEG/Groups

This table contains endpoint group (EPG) information.

XML structure

```
<MSEG>
  <Groups>
    <Group>
      <GroupID></GroupID>
      <GroupName></GroupName>
      <Members>
        <IPv4Member>
          <IPv4Address></IPv4Address>
          <IPv4MaskLen></IPv4MaskLen>
          <IPv4VRFName></IPv4VRFName>
        </IPv4Member>
        <IPv6Member>
          <IPv6Address></IPv6Address>
          <IPv6PrefixLen></IPv6PrefixLen>
          <IPv6VRFName></IPv6VRFName>
        </IPv6Member>
      </Members>
    </Group>
  </Groups>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
GroupName	Name of the EPG group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Members	EPG members.	Sublist	N/A	N/A

MSEG/Groups/Members/IPv4Member

This table contains information about IPv4 EPG members.

XML structure

Table description

Item	Description
Feature name	MSEG
Table name	Members
Table type	Multi-instance table
Row name	IPv4Member
Restrictions	This table supports only Members functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
IPv4MaskLen	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 0 to 32.	
IPv4VRFName	IPv4 VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters. A null string indicates the public instance.	

MSEG/Groups/Members/IPv6Member

This table contains information about IPv6 EPG members.

XML structure

Table description

Item	Description
Feature name	MSEG
Table name	Members
Table type	Multi-instance table
Row name	IPv6Member
Restrictions	This table supports only Members functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Address	IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	IPv6 example: 1:2:3:4:5:6:7:8.
IPv6PrefixLen	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6VRFName	IPv6 VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters. A null string indicates the public instance.	N/A

MSEG/Global

This table contains information about the microsegmentation function.

XML structure

```
<MSEG>
  <Global>
    <Enable></Enable>
    <ResMode></ResMode>
  </Global>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG

Item	Description
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the microsegmentation function globally.	Column	Boolean: • **true**. • **false**.	Default:false
ResMode	Configure the resource mode for microsegmentation.	Column	Enumeration: **dual-stack-mode**.	N/A

MSEG/AggGroups

This table contains information about the microsegmentation aggregation.

XML structure

```
<MSEG>
  <AggGroups>
    <AggGroup>
      <BaseID></BaseID>
      <AggGroupName></AggGroupName>
      <MaskLength></MaskLength>
    </AggGroup>
  </AggGroups>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	AggGroups
Table type	Multi-instance table
Row name	None

Item	Description
Restrictions	This table supports only aggregation functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseID	Group number.	Index	Unsigned integer. Value range: 2 to 65534.	The value can only be even number,but can't be 0.
AggGroupName	Name of the EPG aggregation group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
MaskLength	Wildcard low-order bits.	Column	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of GroupID. Example: BaseID is 16, the MaskLength can be 1,2,3,4.

MSEG/Match

This table contains information about the microsegmentation subnet matching method.

XML structure

```
<MSEG>
  <Match>
    <SubnetMatch></SubnetMatch>
  </Match>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	Match
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubnetMatch	Subnet matching method	Column	Enumeration: • **1**—Longest matching • **2**—Precise matching	Default: Precise matching

Contents

MSEG 1
MSEG/Groups 1
XML structure 1
Table description 1
Columns 1
MSEG/Groups/Members/IPv4Member 2
XML structure 2
Table description 2
Columns 2
MSEG/Groups/Members/IPv6Member 2
XML structure 3
Table description 3
Columns 3
MSEG/Global 3
XML structure 3
Table description 3
Columns 4
MSEG/AggGroups 4
XML structure 4
Table description 4
Columns 5
MSEG/Match 5
XML structure 5
Table description 5
Columns 5

MSEG

MSEG/Groups

This table contains endpoint group (EPG) information.

XML structure

```
<MSEG>
  <Groups>
    <Group>
      <GroupID></GroupID>
      <GroupName></GroupName>
      <Members>
        <IPv4Member>
          <IPv4Address></IPv4Address>
          <IPv4MaskLen></IPv4MaskLen>
          <IPv4VRFName></IPv4VRFName>
        </IPv4Member>
        <IPv6Member>
          <IPv6Address></IPv6Address>
          <IPv6PrefixLen></IPv6PrefixLen>
          <IPv6VRFName></IPv6VRFName>
        </IPv6Member>
      </Members>
    </Group>
  </Groups>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
GroupName	Name of the EPG group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Members	EPG members.	Sublist	N/A	N/A

MSEG/Groups/Members/IPv4Member

This table contains information about IPv4 EPG members.

XML structure

Table description

Item	Description
Feature name	MSEG
Table name	Members
Table type	Multi-instance table
Row name	IPv4Member
Restrictions	This table supports only Members functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IPv4 address	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
IPv4MaskLen	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 0 to 32.	
IPv4VRFName	IPv4 VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters. A null string indicates the public instance.	

MSEG/Groups/Members/IPv6Member

This table contains information about IPv6 EPG members.

XML structure

Table description

Item	Description
Feature name	MSEG
Table name	Members
Table type	Multi-instance table
Row name	IPv6Member
Restrictions	This table supports only Members functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Address	IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	IPv6 example: 1:2:3:4:5:6:7:8.
IPv6PrefixLen	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6VRFName	IPv6 VPN instance name.	Index	String, case-sensitive. Length: 1 to 31 characters. A null string indicates the public instance.	N/A

MSEG/Global

This table contains information about the microsegmentation function.

XML structure

```
<MSEG>
  <Global>
    <Enable></Enable>
    <ResMode></ResMode>
  </Global>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	Global

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the microsegmentation function globally.	Column	Boolean: • **true**. • **false**.	N/A
ResMode	Configure the resource mode for microsegmentation.	Column	Enumeration: **dual-stack-mode.**	N/A

MSEG/AggGroups

This table contains information about the microsegmentation aggregation.

XML structure

```
<MSEG>
  <AggGroups>
    <AggGroup>
      <BaseID></BaseID>
      <AggGroupName></AggGroupName>
      <MaskLength></MaskLength>
    </AggGroup>
  </AggGroups>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	AggGroups
Table type	Multi-instance table
Row name	None
Restrictions	This table supports only aggregation functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseID	Group number.	Index	Unsigned integer. Value range: 2 to 65534.	The value can only be even number,but can't be 0.
AggGroupName	Name of the EPG aggregation group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
MaskLength	Wildcard low-order bits.	Column	Unsigned integer. Value range: 1 to 15.	The value less than the binary bits of GroupID. Example: BaseID is 16, the MaskLength can be 1,2,3,4.

MSEG/Match

This table contains information about the microsegmentation subnet matching method.

XML structure

```
<MSEG>
  <Match>
    <SubnetMatch></SubnetMatch>
  </Match>
</MSEG>
```

Table description

Item	Description
Feature name	MSEG
Table name	Match
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubnetMatch	Subnet matching method	Column	Enumeration: • **1**—Longest matching • **2**—Precise matching	Default: Precise matching

Contents

MTP 1
MTP/Base 1
XML structure 1
Table description 1
Columns 1

MTP

MTP/Base

This table contains MTP service information.

XML structure

```
<MTP>
  <Base>
    <ServiceState></ServiceState>
  </Base>
</MTP>
```

Table description

Item	Description
Feature name	MTP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceState	MTP service state	N/A	Enumeration. • **0**—Disable. • **1**—Enable.	By default, MTP service is disabled.

Contents

MTP 1
MTP/Base 1
XML structure 1
Table description 1
Columns 1

MTP

MTP/Base

This table contains MTP service information.

XML structure

```
<MTP>
  <Base>
    <ServiceState></ServiceState>
  </Base>
</MTP>
```

Table description

Item	Description
Feature name	MTP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceState	MTP service state	N/A	Enumeration. • **0**—Disable. • **1**—Enable.	N/A

Contents

MTP 2
MTP/Base 2

MTP

MTP/Base

Message	Explanation
The MTP service fails to start. MTP进程启动失败。	The MTP service is not running after a start operation.
The MTP service state fails to be obtained. MTP进程状态获取失败。	The MTP service state fails to be obtained when a start or stop operation is performed for the MTP service.

Contents

MVPN 1
MVPN/ Instances 1
XML structure 1
Table description 2
Columns 2
MVPN/MulticastPrefixes 5
XML structure 6
Table description 6
Columns 6

MVPN

MVPN/ Instances

This table contains VPN instance information for the MVPN module.

XML structure

```
<MVPN>
  <Instances>
    <Instance>
      <VRF></VRF>
      <NetworkType></NetworkType>
      <PmsiTunnelType></PmsiTunnelType>
      <PrivateAF></PrivateAF>
      <SourceInterface></SourceInterface>
      <EvpnDrniGroup></EvpnDrniGroup>
      <DefaultGroup></DefaultGroup>
      <DataGroupAddr></DataGroupAddr>
      <DataGroupMask></DataGroupMask>
      <DataGroupSwitchThreshold></DataGroupSwitchThreshold>
      <DataGroupPrivateSgAcl></DataGroupPrivateSgAcl>
      <DataDelay></DataDelay>
      <DciEnable></DciEnable>
      <DciSwitchDelay></DciSwitchDelay>
      <SpmsiAdvertiseSourceActive></SpmsiAdvertiseSourceActive>
      <DrniLocalAddress></DrniLocalAddress>
      <DrniRemoteAddress></DrniRemoteAddress>
      <InclusiveDynamic></InclusiveDynamic>
      <InclusiveBierSubDomain></InclusiveBierSubDomain>
      <InclusiveBierBsl></InclusiveBierBsl>
      <SelectiveDynamic></SelectiveDynamic>
      <SelectiveBierSubDomain></SelectiveBierSubDomain>
      <SelectiveBierBsl></SelectiveBierBsl>
      <SelectiveAcl></SelectiveAcl>
      <SelectiveThreshold></SelectiveThreshold>
      <SelectiveLimit></SelectiveLimit>
      <SelectiveHolddown></SelectiveHolddown>
      <AutoDiscoveryInterAs></AutoDiscoveryInterAs>
      <TunnelSourceMulticastPrefix></TunnelSourceMulticastPrefix>
      <TunnelSourceServiceId></TunnelSourceServiceId>
      <CMulticastFrrEnable></CMulticastFrrEnable>
      <CMulticastFrrAcl></CMulticastFrrAcl>
      <EvpnMLagGroup></EvpnMLagGroup>
      <MLagLocalAddress></MLagLocalAddress>
      <MLagRemoteAddress></MLagRemoteAddress>
```

```
    </Instance>
  </Instances>
</MVPN>
```

Table description

Item	Description
Feature name	MVPN
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 1 to 31 characters.	Public networks are not supported.
NetworkType	Type of VPN	Index	Enumeration: • **1**—Normal. • **2**—EVPN.	Used to distinguish the original ordinary MVPN from the new EVPN.
PmsiTunnelType	Tunnel mode	Index	Enumeration: • **1**—MDT. • **2**—RSVP-TE. • **3**—MLDP. • **4**—BIER. • **5**---Ingress-replication	The current software version supports only MDT, BIER, and Ingress-replication modes.
PrivateAF	MVPN address family View	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	When this column is created, other columns are created and assigned default values.
SourceInterface	MVPN source interface	N/A	Unsigned integer.	N/A.
EvpnDrniGroup	Whether to use the common virtual address of the DRNI system as the IP address of MVXLAN source interface	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultGroup	Default group address	N/A	String, dotted decimal notation. Value range: 224.0.1.0 to 239.255.255.255.	It cannot be included in other Data-Group addresses, nor can it be the same as other Default-Group addresses.
DataGroupAddr	Multicast group address	N/A	String, dotted decimal notation. Value range: 224.0.1.0 to 239.255.255.255.	It cannot be included in other DataGroup addresses, nor can it be the same as other Default-Group addresses.
DataGroupMask	Multicast group mask	N/A	Unsigned integer. Value range: 1 to 32.	It varies from device to device.
DataGroupSwitchThreshold	Switchover threshold	N/A	Unsigned integer. Value range: 0 to 16777216. Default: 0.	All DataGroup-related attribute columns need to ensure that Addr and Mask are specified.
DataGroupPrivateSgAcl	Advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	All DataGroup-related attribute columns need to ensure that Addr and Mask are specified.
DataDelay	Delay time before switching from the default MDT to a data	N/A	Unsigned integer. Value range: 1 to 60. Default: 3.	N/A.
DciEnable	Enabling status of DCI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
DciSwitchDelay	Delay time before restoring	N/A	Unsigned integer. Value range: 1 to 3600.	N/A.
SpmsiAdvertiseSourceActive	Enabling status of advertising active multicast source information by S-PMSI A-D routes	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
DrniLocalAddress	IP address used by the local VTEP in the DR system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the DrniRemoteAddress column.
DrniRemoteAddress	IP address used by the peer VTEP in the DR system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the DrniLocalAddress

Column name	Column description	Column type	Data type and restrictions	Remarks
				column.
InclusiveDynamic	Enable the inclusive tunnel dynamic.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
InclusiveBierSubDomain	Bier sub-domain number.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	You can configure this column only when the value of InclusiveDynamic is true.
InclusiveBierBsl	Bit string length	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	You can configure this column only when the value of InclusiveDynamic is true. The value range varies by device model. The value can be 64, 128, 256, or other.
SelectiveDynamic	Enabling status of dynamic selective tunnel creation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
SelectiveBierSubDomain	BIER sub-domain ID	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	You can configure this column only when the value of SelectiveDynamic is true.
SelectiveBierBsl	Bit string length	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	You can configure this column only when the value of SelectiveDynamic is true. The value range varies by device model. The value can be 64, 128, 256, or other.
SelectiveAcl	ACL number or ACL name	N/A	acl number : Unsigned integer. Value range: 3000 to 3999. acl name : String. Length: 1 to 63 characters.	You can configure this column only when the value of SelectiveDynamic is true.
SelectiveThreshold	Threshold value	N/A	Unsigned integer. Value range: 0 to 16777216. Default: 0.	You can configure this the column only when the value of SelectiveDynamic is true.
SelectiveLimit	Maximum number of selective tunnels	N/A	Unsigned integer. Value range: 1 to 8192.	You can configure this column only when the value of

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 256.	SelectiveDynamic is true.
SelectiveHolddown	Holddown time	N/A	Unsigned integer. Value range: 0 to 180. Default: 60.	N/A
AutoDiscoveryInterAs	Enabling status of inter-AS auto-discovery	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
TunnelSourceMulticastPrefix	Name of a multicast service	N/A	String. Length: 1 to 31 characters.	You must configure this column together with TunnelSourceServiceId.
TunnelSourceServiceId	ID of the multicast service.	N/A	Unsigned integer. Value range: 0 to 1048575. Default: 0.	You must configure this column together with TunnelSourceMulticastPrefix.
CMulticastFrrEnable	Enabling c-multicast Frr	N/A	Boolean: • **true**—Enabled. **false**—Disabled (default).	Support BIER mode only.
CMulticastFrrAcl	ACL number or ACL name	N/A	acl number : Unsigned integer. Value range: 3000 to 3999. acl name : String. Length: 1 to 63 characters.	You can configure this column only when the value of CMulticastFrrEnable is true.
EvpnMLagGroup	Whether to use the common virtual address of the M-LAG system as the IP address of MVXLAN source interface	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A
MLagLocalAddress	IP address used by the local VTEP in the M-LAG system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the MLagRemoteAddress column.
MLagRemoteAddress	IP address used by the peer VTEP in the M-LAG system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the MLagLocalAddress column.

MVPN/MulticastPrefixes

This table contains multicast service configuration information.

XML structure

```
<MVPN>
  <MulticastPrefixes>
    <MulticastPrefix>
      <PrefixName></PrefixName>
      <PrefixAddr></PrefixAddr>
      <PrefixMask></PrefixMask>
      <ServiceIdLength></ServiceIdLength>
    </MulticastPrefix>
  </MulticastPrefixes>
</MVPN>
```

Table description

Item	Description
Feature name	MVPN
Table name	MulticastPrefixes
Table type	Multi-instance table
Row name	MulticastPrefix
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Multicast service name.	Index	String. Length: 1 to 31 characters.	N/A
PrefixAddr	IPv6 prefix.	N/A	Hexadecimal string, colon-separated.	N/A
PrefixMask	Mask length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 127.	The sum of the length of prefix mask and service ID length cannot exceed 128.
ServiceIdLen gth	Service ID length	N/A	Unsigned integer. Value range: 1 to 20.	The sum of the prefix mask length and the service ID length cannot exceed 128.

Contents

MVPN 1
MVPN/ Instances 1
XML structure 1
Table description 2
Columns 2
MVPN/MulticastPrefixes 6
XML structure 6
Table description 6
Columns 6

MVPN

MVPN/ Instances

This table contains VPN instance information for the MVPN module.

XML structure

```
<MVPN>
  <Instances>
    <Instance>
      <VRF></VRF>
      <NetworkType></NetworkType>
      <PmsiTunnelType></PmsiTunnelType>
      <PrivateAF></PrivateAF>
      <SourceInterface></SourceInterface>
      <EvpnDrniGroup></EvpnDrniGroup>
      <DefaultGroup></DefaultGroup>
      <DataGroupAddr></DataGroupAddr>
      <DataGroupMask></DataGroupMask>
      <DataGroupSwitchThreshold></DataGroupSwitchThreshold>
      <DataGroupPrivateSgAcl></DataGroupPrivateSgAcl>
      <DataDelay></DataDelay>
      <DciEnable></DciEnable>
      <DciSwitchDelay></DciSwitchDelay>
      <SpmsiAdvertiseSourceActive></SpmsiAdvertiseSourceActive>
      <DrniLocalAddress></DrniLocalAddress>
      <DrniRemoteAddress></DrniRemoteAddress>
      <InclusiveDynamic></InclusiveDynamic>
      <InclusiveBierSubDomain></InclusiveBierSubDomain>
      <InclusiveBierBsl></InclusiveBierBsl>
      <SelectiveDynamic></SelectiveDynamic>
      <SelectiveBierSubDomain></SelectiveBierSubDomain>
      <SelectiveBierBsl></SelectiveBierBsl>
      <SelectiveAcl></SelectiveAcl>
      <SelectiveThreshold></SelectiveThreshold>
      <SelectiveLimit></SelectiveLimit>
      <SelectiveHolddown></SelectiveHolddown>
      <AutoDiscoveryInterAs></AutoDiscoveryInterAs>
      <TunnelSourceMulticastPrefix></TunnelSourceMulticastPrefix>
      <TunnelSourceServiceId></TunnelSourceServiceId>
      <CMulticastFrrEnable></CMulticastFrrEnable>
      <CMulticastFrrAcl></CMulticastFrrAcl>
      <SourceIfName></SourceIfName>
      <EvpnMLagGroup></EvpnMLagGroup>
      <MLagLocalAddress></MLagLocalAddress>
```

```
      <MLagRemoteAddress></MLagRemoteAddress>
    </Instance>
  </Instances>
</MVPN>
```

Table description

Item	Description
Feature name	MVPN
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 1 to 31 characters.	Public networks are Public networks are not supported.
NetworkType	Type of VPN	Index	Enumeration: • **1**—Normal. • **2**—EVPN.	Used to distinguish the original ordinary MVPN from the new EVPN
PmsiTunnelType	Tunnel mode	Index	Enumeration: • **1**—MDT. • **2**—RSVP-TE. • **3**—MLDP. • 4—BIER. • **5**---Ingress-replication	Only MDT, BIER, and Ingress-replication modes are supported.
PrivateAF	MVPN address family View	Index	Enumeration: **1—** IPv4. **2— 2**—IPv6.	When this column is created, other columns are created and assigned default values.
SourceInterface	MVPN source interface	N/A	Unsigned integer.	N/A.
EvpnDrniGroup	Whether to use the common virtual address of the DRNI system as the IP address of MVXLAN source interface	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultGroup	Default group address	N/A	String, dotted decimal notation. Value range: 224.0.1.0 to 239.255.255.255.	It cannot be included in other Data-Group addresses, nor can it be the same as other Default-Group addresses.
DataGroupAddr	Multicast group address	N/A	String, dotted decimal notation. Value range: 224.0.1.0 to 239.255.255.255.	It cannot be included in other DataGroup addresses, nor can it be the same as other Default-Group addresses.
DataGroupMask	Multicast group mask	N/A	Unsigned integer. Value range: 1 to 32.	It varies from device to device.
DataGroupSwitchThreshold	Switchover threshold	N/A	Unsigned integer. Value range: 0 to 16777216.	All DataGroup-related attribute columns need to ensure that Addr and Mask are specified.
DataGroupPrivateSgAcl	Advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	All DataGroup-related attribute columns need to ensure that Addr and Mask are specified.
DataDelay	Delay time for switching from the default MDT to a data MDT	N/A	Unsigned integer. Value range: 1 to 60.	N/A.
DciEnable	Enabling status of DCI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
DciSwitchDelay	Delay time before restoring	N/A	Unsigned integer. Value range: 1 to 3600.	N/A.
SpmsiAdvertiseSourceActive	Enabling status of advertising active multicast source information by S-PMSI A-D routes	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
DrniLocalAddress	IP address used by the local VTEP in the DR system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the DrniRemoteAddress column.
DrniRemoteAddress	IP address used by the peer VTEP in the DR system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the DrniLocalAddress

Column name	Column description	Column type	Data type and restrictions	Remarks
				column.
InclusiveDynamic	Enable the inclusive tunnel dynamic.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
InclusiveBierSubDomain	Bier sub-domain number.	N/A	Unsigned integer. Value range: 0 to 255.	You can configure this column only when the value of InclusiveDynamic is true.
InclusiveBierBsl	Bit string length	N/A	Unsigned integer. Value range: 1 to 65535.	You can configure this column only when the value of InclusiveDynamic is true. The value range varies by device model. The value can be 64, 128, 256, or other.
SelectiveDynamic	Enabling status of dynamic selective tunnel creation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
SelectiveBierSubDomain	BIER sub-domain ID	N/A	Unsigned integer. Value range: 0 to 255.	You can configure this column only when the value of SelectiveDynamic is true.
SelectiveBierBsl	Bit string length	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	You can configure this column only when the value of SelectiveDynamic is true. The value range varies by device model. The value can be 64, 128, 256, or other.
SelectiveAcl	ACL number or ACL name	N/A	acl number : Unsigned integer. Value range: 3000 to 3999. acl name : String. Length: 1 to 63 characters.	You can configure this column only when the value of SelectiveDynamic is true.
SelectiveThreshold	Threshold value	N/A	Unsigned integer. Value range: 0 to 16777216.	You can configure this the column only when the value of SelectiveDynamic is true.
SelectiveLimit	Maximum number of selective tunnels	N/A	Unsigned integer. Value range: 1 to 8192.	You can configure this column only when the value of

Column name	Column description	Column type	Data type and restrictions	Remarks
				SelectiveDynamic is true.
SelectiveHolddown	Holddown time	N/A	Unsigned integer. Value range: 0 to 180.	N/A
AutoDiscoveryInterAs	Enabling status of inter-AS auto-discovery	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
TunnelSourceMulticastPrefix	Name of a multicast service	N/A	String. Length: 1 to 31 characters.	You must configure this column together with TunnelSourceServiceId.
TunnelSourceServiceId	ID of the multicast service.	N/A	Unsigned integer. Value range: 0 to 1048575.	You must configure this column together with TunnelSourceMulticastPrefix.
CMulticastFrrEnable	Enabling c-multicast Frr	N/A	Boolean: • **true**—Enabled. **false**—Disabled.	Support BIER mode only.
CMulticastFrrAcl	ACL number or ACL name	N/A	acl number : Unsigned integer. Value range: 3000 to 3999. acl name : String. Length: 1 to 63 characters.	You can configure this column only when the value of CMulticastFrrEnable is true.
SourceIfName	MVPN source interface name	N/A	String. Length: 2 to 47 characters.	N/A
EvpnMLagGroup	Whether to use the common virtual address of the M-LAG system as the IP address of MVXLAN source interface	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
MLagLocalAddress	IP address used by the local VTEP in the M-LAG system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the MLagRemoteAddress column.
MLagRemoteAddress	IP address used by the peer VTEP in the M-LAG system	N/A	String, dotted decimal notation. Value range: 1.0.0.0 to 223.255.255.255.	You must specify both this column and the MLagLocalAddress column.

MVPN/MulticastPrefixes

This table contains multicast service configuration information.

XML structure

```
<MVPN>
  <MulticastPrefixes>
    <MulticastPrefix>
      <PrefixName></PrefixName>
      <PrefixAddr></PrefixAddr>
      <PrefixMask></PrefixMask>
      <ServiceIdLength></ServiceIdLength>
    </MulticastPrefix>
  </MulticastPrefixes>
</MVPN>
```

Table description

Item	Description
Feature name	MVPN
Table name	MulticastPrefixes
Table type	Multi-instance table
Row name	MulticastPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Multicast service name	Index	String. Length: 1 to 31 characters.	N/A
PrefixAddr	IPv6 prefix	N/A	Hexadecimal string, colon-separated.	N/A
PrefixMask	Mask length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 127.	The sum of the length of prefix mask and service ID length cannot exceed 128.
ServiceIdLength	Service ID length	N/A	Unsigned integer. Value range: 1 to 20.	The sum of the prefix mask length and the service ID length cannot exceed 128.

Contents

MVPN 1
MVPN/Instances 1
MVPN/MulticastPrefixes 3

MVPN

MVPN/Instances

Message	Explanation
MD is not configured. MD尚未配置。	MD view is not enabled yet. MD 视图没有被使能。
The number of muticast-domain instances has reached the upper limit. 多播域实例数已达到上限。	When this instance is created, the number of instances in the multicast-domain has reached the upper limit. 创建一个实例的时候，多播域实例数已达到上限。
Configuration failed,MTunnel resources are insufficient. 配置失败，MTunnel资源不足。	Configuration failure due to insufficient MTunnel resources. 因为MTunnel资源不足导制的配置失败。
VPN-Instance does not exist. 不存在的VPN实例。	This is a vpn-instance that hasn't been created yet . 这是一个还没有被创建出来的VPN实例。
Views are not allowed to be modified in view deletion. 视图删除中不允许修改视图。	The configuration is being cleared and modifications to this object are not allowed. 正在清除相关配置，不允许对该对象修改。
Invalid paramenter. 无效的参数。	The configuration doesn’t meet the requirements, please check your configuration. 配置不符合要求，请确认。
Failed to obtain MD configuration data. 获取MD配置数据失败。	Unable to obtain MD module related running configuration from background. 无法从后台获取MD模块相关运行配置。
DefaultGroup address configuration has been used. DefaultGroup地址配置已被使用。	DefaultGroup address configuration has been used by other instance objects and cannot be repeated. DefaultGroup地址配置已经被别的实例对象使用过，不可重复。
DataGroup address configuration has been used. DataGroup地址配置已被使用。	DataGroup address configuration has been used by other instance objects and cannot be repeated. DataGroup地址配置已经被别的实例对象使用过，不可重复。
VPN instance with a different mode already exists. 具有不同模式的VPN实例已存在。	This VPN instances have been assigned another mode. 这个VPN实例已经被分配了别的模式。
The default-group can't be the same as that of another VPN instance. default-group不能与另一个VPN实例的组相同。	Cannot have the same default-group between different instances. 不同实例之间不可以有相同的default-group。
Conflict with L2 VXLAN mtunnel. 与L2 vxlan mtunnel冲突。	Conflict with L2 VXLAN mtunnel. 与L2 vxlan mtunnel冲突。
The default-group can't be included in the data-groups of VPN instance. default-group不能包含在VPN实例的data-group中。	Default-Group address and Data-Group address cannot be the same. Default-Group地址和Data-Group地址不可以相同。
The data-groups can't contain the default-group of VPN instance. data-group不能包含在VPN实例的default-group中。	Default-Group address and Data-Group address cannot be the same. Default-Group地址和Data-Group地址不可以相同。

The data-groups overlap with those of VPN instance. data-group与VPN实例的data-group重叠。	Data-Group cannot be the same in different instances. 不同实例中的Data-Group不可以相同
The configuration must be same in IPV4 and IPV6. IPv4和IPv6中的配置相同。	This configuration is the same in IPv4 and IPv6 address families. 此配置在IPv4和IPv6地址族中相同。
Can't specify an RSVP-TE P2MP tunnel interface as an MVPN souce interface. Please specify another interface. 无法将rsvp-te p2mp隧道接口指定为mvpn源接口。	The MVPN instance source interface does not support RSVP-TE and p2mp tunnel interfaces. MVPN实例源接口不支持rsvp-te和p2mp隧道接口。
The local IP address is invalid. 本地IP地址无效	The local IP address must be a unicast address. 本地IP地址必须是单播地址。
The remote IP address is invalid. 远端IP地址无效。	The remote IP address must be a unicast address. 远端IP地址必须是单播地址。
The parameter is incomplete. 参数不全。	Both the local IP address and remote IP address must be configured. 本地IP地址与远端IP地址必须同时配置。
The parameter SourceInterface must be configured at the same time. 需要同时配置参数SourceInterface。	To specify the EvpnMLagGroup parameter, you must first specify the SourceInterface parameter. 参数EvpnMLagGroup必须与SourceInterface一起配置。
The sub-domain and BSL must be same for selective tunnels and inclusive tunnels. 相容性隧道和选择性隧道的BIER子域编号及比特串长度必须保持一致。	Selective tunnels and inclusive tunnels must have the same sub-domain ID and BSL.. 相容性隧道和选择性隧道的BIER子域编号及比特串长度必须保持一致。
The value is too large because of insufficient memory. 隧道数量太大，存储空间不够。	The value is too large because of insufficient memory. Memory is not enough. 隧道数量太大，存储空间不够。
The service IDs must be different in IPv4 and IPv6. IPv4 和 IPv6 的组播服务ID必须不同。	The service IDs must be different in IPv4 and IPv6. IPv4 和 IPv6 的组播服务ID必须不同。
The service ID is already used by another VPN instance. 这个组播服务ID已经配置于其它VPN实例。	A service ID can be used by only one VPN instance. 这个组播服务ID不能重复配置于不同的VPN实例里。
The multicast service ID exceeds the limit. 组播服务ID长度超过限制。	The multicast service ID exceeds the limit. 组播服务ID长度超过限制。
When the InclusiveDynamic is false , the inclusive tunnel should not be configured. 关闭相容性隧道动态模式时，不能存在配置。	When the InclusiveDynamic is false , the inclusive tunnel should not have be configured. 关闭相容性隧道动态模式时，不能存在配置。
When the SelectiveDynamic is false , the selective tunnel should not be configured. 关闭选择性隧道动态模式时，不能存在配置。	When the SelectiveDynamic is false , the selective tunnel should not be configured. 关闭选择性隧道动态模式时，不能存在配置。
The TunnelSourceMulticastPrefix and the TunnelSourceServiceId should be configured at the same time. 组播服务名称和组播服务ID必须同时配置。	The TunnelSourceMulticastPrefix and the TunnelSourceServiceId should be configured at the same time. 组播服务名称和组播服务ID必须同时配置。
When the CMulticastFrrEnable is false , the C-Multicast FRR should not be configured.	When the CMulticastFrrEnable is false , the C-Multicast FRR should not be configured.

关闭组播快速重路由时，不能存在配置。	关闭组播快速重路由时，不能存在配置。

MVPN/MulticastPrefixes

Message	Explanation
The prefix address, prefix mask, and service ID length must be configured simultaneously. 必须同时配置前缀地址、前缀掩码和服务ID长度。	The prefix address, prefix mask, and service ID length must be configured simultaneously. 必须同时配置前缀地址、前缀掩码和服务 ID 长度。
The sum of the prefix mask length and the service ID length cannot exceed 128. 前缀掩码长度和服务ID长度之和不能超过128。	The sum of the prefix mask length and service ID length cannot exceed 128. 配置的前缀掩码长度和服务ID长度之和不能超过128。
The prefix ipv6 address is being used. 前缀IPv6地址被占用。	You must specify an unused prefix IPv6 address. 配置的前缀IPv6地址不能被占用。
The service ID length is too small. 配置的服务ID长度过小。	The service ID length is small. 配置的服务ID长度过小。

Contents

NAT 1

NAT/ResetNatStaticLoadBalance 1
XML structure 1
Table description 1
Columns 1
NAT/ResetNatDynamicLoadBalance 1
XML structure 1
Table description 2
Columns 2
NAT/ResetInboundStaticCount 2
XML structure 2
Table description 3
Columns 3
NAT/ResetOutboundStaticCount 4
XML structure 4
Table description 4
Columns 5
NAT/ResetInboundDynamicCount 6
XML structure 6
Table description 6
Columns 6
NAT/ResetOutboundDynamicCount 7
XML structure 7
Table description 7
Columns 7
NAT/ResetServerCount 8
XML structure 8
Table description 9
Columns 9
NAT/ResetOutboundPortBlockCount 11
XML structure 11
Table description 11
Columns 11
NAT/PolicyRuleMove 12
XML structure 12
Table description 12
Columns 13
NAT/ResetPolicyRuleCount 13
XML structure 13
Table description 13
Columns 14
NAT/ResetObjServerCount 14
XML structure 14
Table description 14
Columns 14
NAT/CreateServer 14
XML structure 15
Table description 15
Columns 15
NAT/DeleteServer 18
XML structure 18
Table description 18
Columns 18
NAT/CreateOutbound 20
XML structure 20
Table description 20
Columns 21

NAT/DeleteOutbound 21
XML structure 21
Table description 22
Columns 22
NAT/OutboundDynamicRuleMove 23
XML structure 23
Table description 23
Columns 23

NAT

NAT/ResetNatStaticLoadBalance

Re-balance the load of static NAT on multiple CPUs

XML structure

```
<NAT>
  <ResetNatStaticLoadBalance>
    <Reset></Reset>
  </ResetNatStaticLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetNatStaticLoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
Reset	Re-balance the load of static NAT.	This column must be empty.

NAT/ResetNatDynamicLoadBalance

Re-balance the load of dynamic NAT on multiple CPUs

XML structure

```
<NAT>
  <ResetNatDynamicLoadBalance>
    <Dynamic>
      <AddrGroupNumber></AddrGroupNumber>
      <Reset></Reset>
    </Dynamic>
```

```
  </ResetNatDynamicLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetNatDynamicLoadBalance
Table type	Single-instance table
Row name	Dynamic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Re-balance the load of dynamic NAT.	N/A	This column must be empty.
AddrGroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.

NAT/ResetInboundStaticCount

This table contains information about one-to-one or net-to-net mappings for inbound static NAT.

XML structure

```
<NAT>
  <ResetInboundStaticCount>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
    </Mapping>
  </ResetInboundStaticCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetInboundStaticCount
Table type	Single-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • StartIpv4Address. • EndIpv4Address. • GlobalObjGrp	EndIpv4Address is optional when configure one-to-one mapping for inbound static NAT.
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
GlobalObjGrp	Object group of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • Ipv4Address. • Ipv4PrefixLength. • LocalObjGrp	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the internal network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for inbound static NAT.
LocalObjGrp	Object group of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

NAT/ResetOutboundStaticCount

This table contains information about one-to-one or net-to-net mappings for outbound static NAT.

XML structure

```
<NAT>
  <ResetOutboundStaticCount>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
    </Mapping>
  </ResetOutboundStaticCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundStaticCount
Table type	Single-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address pool information	Data structure.	Members include: • LocalVRF. • StartIpv4Address. • EndIpv4Address. • LocalObjGrp.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
LocalObjGrp	Object group of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
GlobalInfo	External network address information	Data structure.	Members include: • GlobalVRF. • Ipv4Address. • Ipv4PrefixLength. • GlobalObjGrp.	N/A
GlobalVRF	VRF of external address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An external network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the external network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for outbound static NAT.
GlobalObjGrp	Object group of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

NAT/ResetInboundDynamicCount

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <ResetInboundDynamicCount>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
    </Interface>
  </ResetInboundDynamicCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetInboundDynamicCount
Table type	Single-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	An ACL can be used by only one inbound dynamic NAT rule an

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface.

NAT/ResetOutboundDynamicCount

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <ResetOutboundDynamicCount>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
    </Interface>
  </ResetOutboundDynamicCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundDynamicCount
Table type	Single-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix”

Column name	Column description	Column type	Data type and restrictions	Remarks
				in Ifmgr NETCONF XML API Configuration Reference.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.

NAT/ResetServerCount

This table contains information about mappings between the IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <ResetServerCount>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
    </Interface>
  </ResetServerCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetServerCount
Table type	Single-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: • GlobalVRF. • GlobalStartIpv4Address. • GlobalEndIpv4Address. • GlobalStartPortNumber. • GlobalEndPortNumber. • GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater

Column name	Column description	Column type	Data type and restrictions	Remarks
				than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The GlobalStartPortNumber cannot be greater than the GlobalEndPortNumber. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index or interface name, The IP address of the interface is used as the NAT address for the internal server.	N/A	String. case-sensitive. Length: 1 to 99 characters.	Only loopback interfaces and " IfIndex " are supported. Some versions support interface name. For relevant information, The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				takes effect. This index can be null.

NAT/ResetOutboundPortBlockCount

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```
<NAT>
  <ResetOutboundPortBlockCount>
    <Interface>
      <IfIndex></IfIndex>
      <GroupNumber></GroupNumber>
    </Interface>
  </ResetOutboundPortBlockCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundPortBlockCount
Table type	Single-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can apply multiple port block groups to one interface. After you apply a port block group to an interface, the system automatically computes the IP-to-port block mappings and creates entries for them. When a private IP address accesses the public network, the private IP address is translated to the mapped public IP address and the ports are translated to ports in the mapped port block.

NAT/PolicyRuleMove

Move the policy rules of order.

XML structure

```
<NAT>
  <PolicyRuleMove>
    <Rule>
      <SrcRuleName></SrcRuleName>
      <DstRuleName></DstRuleName>
      <Direction></Direction>
    </Rule>
  </PolicyRuleMove>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMove
Table type	Muitl-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcRuleName	source policy rule	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
DstRuleName	destination policy rule	Index	String. case insensitive. Length: 1 to 63 characters.	This column can be null.
Direction	Move the rule to before or after the objective rule	Index	Boolean: • true—YES • false—NO(default).	If the direction is false and the DstRulename is null, the srcRuleName is moved to the front If the direction is true and the DstRulename is null, the srcRuleName is moved to the end.

NAT/ResetPolicyRuleCount

This table contains NAT policy information.

XML structure

```
<NAT>
  <ResetPolicyRuleCount>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ResetPolicyRuleCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetPolicyRuleCount
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

NAT/ResetObjServerCount

This table contains the object server NAT rules on interfaces.

XML structure

```
<NAT>
  <ResetObjServerCount>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ResetObjServerCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetObjServerCount
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT Object Server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

NAT/CreateServer

This table contains information about mappings between the private IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <CreateServer>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalStartIpv4Address></LocalStartIpv4Address>
        <LocalEndIpv4Address></LocalEndIpv4Address>
        <LocalStartPortNumber></LocalStartPortNumber>
        <LocalEndPortNumber></LocalEndPortNumber>
      </LocalInfo>
    </Interface>
  </CreateServer>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	CreateServer
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: • GlobalVRF. • GlobalStartIpv4Address. • GlobalEndIpv4Address. • GlobalStartPortNumber. • GlobalEndPortNumber. • GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The *GlobalStartPortNumber* cannot be greater than the *GlobalEndPortNumber*. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index.	Index	Unsigned integer.	Only loopback interfaces and "IfIndex"

Column name	Column description	Column type	Data type and restrictions	Remarks
	The IP address of the interface is used as the NAT address of the internal server.			are supported. If the eIP address of the interface is used as the NAT address, Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicting address or the internal server configuration without Easy IP is removed, the Easy IP configuration takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalStartIpv4Address. • LocalEndIpv4Address. • LocalStartPortNumber. • LocalEndPortNumber. • LocalSrvGroupNumber.	The number of addresses in the range must match that of the external port number range.
LocalVRF	VRF of internal address	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
LocalStartIpv4Address	Start IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalEndIpv4Address	End IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.6.
LocalStartPortNumber	Start port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	The *LocalStartPortNumber* cannot be greater than the *LocalEndPortNumber*. If they are the same, the internal port number range has only one port. The internal port number range can include a maximum of 255 ports.
LocalEndPort	End port number	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Number	of an internal port range		Value range: 1 to 65535.	

NAT/DeleteServer

This table contains information about mappings between the private IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <DeleteServer>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
    </Interface>
  </DeleteServer>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DeleteServer
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface except loopback, NULL, FC, FCB and encrypt interface.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: • GlobalVRF. • GlobalStartIpv4Address. • GlobalEndIpv4Address. • GlobalStartPortNumber. • GlobalEndPortNumber. • GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The *GlobalStartPortNumber* cannot be greater than the *GlobalEndPortNumber*. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port	Index	Unsigned integer.	This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
	number range		Value range: 1 to 65535.	
GlobalIfIndex	External interface index, The IP address of the interface is used as the NAT address for the internal server.	Index	Unsigned integer.	Only loopback interfaces and " IfIndex " are supported. The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration takes effect. This index can be null.

NAT/CreateOutbound

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <CreateOutbound>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <VRF></VRF>
    </Interface>
  </CreateOutbound>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	CreateOutbound
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	NAT translates the packets that match the ACL. If you do not specify any ACL, NAT translates all packets. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
VRF	VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.

NAT/DeleteOutbound

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <DeleteOutbound>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
```

```
    </Interface>
  </DeleteOutbound>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DeleteOutbound
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	NAT translates the packets that match the ACL. If you do not specify any ACL, NAT translates all packets. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.

NAT/OutboundDynamicRuleMove

This table is used to move an outbound dynamic NAT rule.

XML structure

```
<NAT>
  <OutboundDynamicRuleMove>
    <Interface>
      <IfIndex></IfIndex>
      <SrcRuleName></SrcRuleName>
      <DstRuleName></DstRuleName>
      <Direction></Direction>
    </Interface>
  </OutboundDynamicRuleMove>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundDynamicRuleMove
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of a local VA, global VA, or Layer 3 interface except loopback, NULL, FC, FCB, and encrypted interfaces.
SrcRuleName	Source name of the dynamic mapping	Index	String, case sensitive. Length: 1 to 63 characters.	The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
DstRuleName	Destination	Index	String, case sensitive.	The name cannot

Column name	Column description	Column type	Data type and restrictions	Remarks
	name of the dynamic mapping		Length: 1 to 63 characters.	contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
Direction	Move the rule before or after the another rule	Index	Unsigned integer. Valid values: 0 and 1.	0: Move SrcRuleName before DstRuleName 1: Move SrcRuleName after DstRuleName

Contents

NAT 1

NAT/AddrGroups 1
XML structure 1
Table description 1
Columns 1
NAT/AddrGroupMembers 4
XML structure 4
Table description 4
Columns 4
NAT/AddrGroupExcludeMembers 5
XML structure 5
Table description 5
Columns 6
NAT/InboundDynamicRules 6
XML structure 6
Table description 7
Columns 7
NAT/OutboundDynamicRules 8
XML structure 9
Table description 9
Columns 9
NAT/InboundStaticMappings 11
XML structure 11
Table description 12
Columns 12
NAT/InboundStaticObjMappings 14
XML structure 14
Table description 15
Columns 15
NAT/OutboundStaticMappings 16
XML structure 16
Table description 17
Columns 17
NAT/OutboundStaticObjMappings 20
XML structure 20
Table description 20
Columns 21
NAT/StaticOnInterfaces 22
XML structure 22
Table description 22
Columns 23
NAT/ServerGroups 23
XML structure 23
Table description 23
Columns 24
NAT/ServerGroupMembers 24
XML structure 24
Table description 24
Columns 24
NAT/ServerOnInterfaces 25
XML structure 25
Table description 26
Columns 26
NAT/PortBlockGroups 30
XML structure 30
Table description 31
Columns 31

NAT/PortBlockGroupLocalMembers ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33
NAT/PortBlockGroupGlobalMembers ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 34
NAT/OutboundPortBlockOnInterfaces ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 36
NAT/DNSMappings ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37
NAT/ALG ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
NAT/EIM ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 40
NAT/HairpinOnInterfaces ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41
NAT/LogRule ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 43
NAT/HotBackup ····· 44
XML structure ····· 44
Table description ····· 44
Columns ····· 44
NAT/StaticLoadBalance ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 45
NAT/ReplyRedirectOnInterfaces ····· 45
XML structure ····· 45
Table description ····· 46
Columns ····· 46
NAT/NATPolicy ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
NAT/PolicyRules ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 48
NAT/PolicyRuleMembers ····· 48
XML structure ····· 48
Table description ····· 48
Columns ····· 49
NAT/PolicyRuleMemberSrcObj ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 51
NAT/PolicyRuleMemberDstObj ····· 51
XML structure ····· 51

Table description 51
Columns 52
NAT/PolicyRuleMemberSrvObj 52
XML structure 52
Table description 52
Columns 53
NAT/DestinationNatOnInterfaces 53
XML structure 53
Table description 53
Columns 54
NAT/ObjServer 55
XML structure 55
Table description 56
Columns 56
NAT/ObjServerName 57
XML structure 57
Table description 58
Columns 58
NAT/Nat66 58
XML structure 58
Table description 59
Columns 59
NAT/LinkSwitchReSession 59
XML structure 59
Table description 60
Columns 60
NAT/MAP 60
XML structure 60
Table description 60
Columns 61
Configuration/Profiles/NatProfileAddrGroups 61
XML structure 61
Table description 61
Columns 62
Configuration/Profiles/NatProfileAddrGroupMembers 62
XML structure 62
Table description 62
Columns 63
Configuration/Profiles/InterfacesProfileConfig/NatProfileInboundDynamicRules 63
XML structure 63
Table description 64
Columns 64
Configuration/Profiles/nterfacesProfileConfig/NatProfileOutboundDynamicRules 67
XML structure 67
Table description 67
Columns 68

NAT

NAT/AddrGroups

This table contains information about NAT address groups.

XML structure

```
<NAT>
  <AddrGroups>
    <AddrGroup>
      <GroupNumber></GroupNumber>
      <VRID></VRID>
      <PortBlockSize></PortBlockSize>
      <ExtendedBlockNumber></ExtendedBlockNumber>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <ExtendedBlockMultiGlobalIp></ExtendedBlockMultiGlobalIp>
    </AddrGroup>
  </AddrGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroups
Table type	Multi-instance table
Row name	AddrGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Master/backup mode: No VRRP keyword is required. Load sharing method:

Column name	Column description	Column type	Data type and restrictions	Remarks
				Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and NAT address pool address, so that traffic is transmitted on the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the traffic flow to be transmitted on the active device in the specified VRRP backup group.
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	To configure dynamic NAT444, you must configure port block for the referenced NAT address group. With dynamic NAT444 configured, when a private IP address initiates a connection to the public network, the NAT444 gateway assigns it a public IP address and a port block, and creates an entry for the mapping. For subsequent connections from the private IP address, the NAT444 gateway translates the private IP address to the mapped public IP address and the ports to ports in the mapped port block. In a NAT address group, the port block size cannot be larger than the number of ports in the port range. Configure this item before configuring *ExtendedBlockNumber*, deleting this item also deletes *ExtendedBlockNumber*.

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtendedBlockNumber	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	With this parameter specified, when a private IP address accesses the public network, but the ports in the mapped port block are all occupied, the NAT gateway extends port blocks for the private IP address. A user can contain up to *ExtendedBlockNumber*+1 port blocks at the same time. If you want to configure this you must first configure the *PortBlocksize*.
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	Set *StartPort* and *EndPort* to their default values to define a default port range. The *StartPort* cannot be greater than the *EndPort*. The number of ports in a port range cannot be smaller than the port block size.
EndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A
ExtendedBlockMultiGlobalIp	Whether to set the global IP of the extended port block is different from the global IP of the pre-allocated port block	N/A	Boolean: • true—YES • false—NO	Enabling this command may result in the failure of expansion port block allocation, resulting in insufficient use of public network resources. NAT translation of service traffic fails, resulting in packet loss. However, it can be guaranteed that in the scenario of BRAS user linkage NAT, the public network information of the user expansion port block is the same as the public network information of the pre-allocated port block. The AAA server requires no special handling. After

Column name	Column description	Column type	Data type and restrictions	Remarks
				disabling it, the public network resources can be fully utilized.

NAT/AddrGroupMembers

This table contains information about the NAT address group members.

XML structure

```
<NAT>
  <AddrGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMember>
  </AddrGroupMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the

Column name	Column description	Column type	Data type and restrictions	Remarks
				group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/AddrGroupExcludeMembers

This table contains information about the NAT address group exclude members.

XML structure

```
<NAT>
  <AddrGroupExcludeMembers>
    <GroupExcludeMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupExcludeMember>
  </AddrGroupExcludeMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupExcludeMembers
Table type	Multi-instance table
Row name	GroupExcludeMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group exclude member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group exclude member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/InboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <InboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <AutoAddRoute></AutoAddRoute>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Counting></Counting>
    </Interface>
```

```
  </InboundDynamicRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	An ACL can be used by only one inbound dynamic NAT rule an interface.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO(default).	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP

Column name	Column description	Column type	Data type and restrictions	Remarks
				ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO(default).	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether adds a route to the NAT address when address translation is performed for a packet.	N/A	Boolean: • true—YES • false—NO(default).	The output interface is the NAT interface and the next-hop is the source address before translation. If you do not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Counting	Whether open the switch of matching the inbound dynamic NAT rule statistics	N/A	Boolean: • true—YES • false—NO(default)	N/A

NAT/OutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <OutboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Counting></Counting>
    </Interface>
  </OutboundDynamicRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic

Column name	Column description	Column type	Data type and restrictions	Remarks
				NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configurations. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO(default).	NO-PAT mode can't be configured without AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from external hosts to the internal host if the packet is	N/A	Boolean: • true—YES • false—NO(default).	This column can only be configured in NO-PAT mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
	permitted by ACL reverse matching in NO-PAT mode.			
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: • true—YES • false—NO(default).	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Counting	Whether open the switch of matching the outbound dynamic NAT rule statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/InboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for inbound static NAT.

XML structure

```
<NAT>
  <InboundStaticMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
```

```
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Description></Description>
      <Counting></Counting>
    </Mapping>
  </InboundStaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • StartIpv4Address. • EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for inbound static NAT.
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address information	Data structure.	Members include: • GlobalVRF. • Ipv4Address. • Ipv4PrefixLength.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the internal network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for inbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO(default).	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/InboundStaticObjMappings

This table contains information about object-group mappings for inbound static NAT.

XML structure

```
<NAT>
  <InboundStaticObjMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <Disable></Disable>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
```

```
    </Mapping>
  </InboundStaticObjMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticObjMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • GlobalObjGrp.	N/A
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group, do not use this parameter.
GlobalObjGrp	GlobalObjGrp of an external address object	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalObjGrp
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalObjGrp.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group do not use this parameter.
LocalObjGrp	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses

Column name	Column description	Column type	Data type and restrictions	Remarks
				of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO.	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
Disable	Whether the rule is enabled or disabled.	N/A	Boolean: • true—YES • false—NO.	N/A
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/OutboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for outbound static NAT.

XML structure

```
<NAT>
  <OutboundStaticMappings>
    <Mapping>
```

```
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <VRID></VRID>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Description></Description>
      <Counting></Counting>
    </Mapping>
  </OutboundStaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address pool information	Data structure.	Members include: • LocalVRF. • StartIpv4Address. • EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an	Index	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	internal address pool			The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
GlobalInfo	External network address information	Data structure.	Members include: • GlobalVRF. • Ipv4Address. • Ipv4PrefixLength.	N/A
GlobalVRF	VRF of external address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An external network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the external network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for outbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all outgoing packets and the destination addresses of all incoming packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. The destination addresses of packets originating from external hosts to the internal are not translated. If you specify both an ACL and the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. If packets originating from external hosts to the internal are permitted by ACL

Column name	Column description	Column type	Data type and restrictions	Remarks
				reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO(default).	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the static NAT on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the static NAT.In dual-system hot backup with load balancing, if the static NAT address and the VRRP backup group address are in the same network segment, you need to manually configure static NAT and VRRP binding.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
Counting	Whether open the switch of	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	matching the NAT outbound static mapping statistics		• true—YES • false—NO(default).	

NAT/OutboundStaticObjMappings

This table contains information about object-group mappings for outbound static NAT.

XML structure

```
<NAT>
  <InboundStaticObjMappings>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <Disable></Disable>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </InboundStaticObjMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticObjMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalObjGrp.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group do not use this parameter.
LocalObjGrp	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • GlobalObjGrp.	N/A
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group, do not use this parameter.
GlobalObjGrp	GlobalObjGrp of an external address object	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalObjGrp
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the	N/A	Boolean:	Support for this keyword depends on

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.		• true—YES • false—NO.	the device model. This column can only be configured when *ACLNumber* is also configured.
Disable	Whether the rule is enabled or disabled.	N/A	Boolean: • true—YES • false—NO.	N/A
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/StaticOnInterfaces

This table contains the interfaces where static NAT is enabled.

XML structure

```
<NAT>
  <StaticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableStatic></EnableStatic>
    </Interface>
  </StaticOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticOnInterfaces
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableStatic	Whether enable static NAT on the interface	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/ServerGroups

This table contains the information of NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroups>
    <ServerGroup>
      <GroupNumber></GroupNumber>
    </ServerGroup>
  </ServerGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroups
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	The internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/ServerGroupMembers

This table contains the information of members in the NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
    </GroupMember>
  </ServerGroupMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4Address	IP address of an	Index	String, dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	internal server.		notation.	
PortNumber	Port number of an internal server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Weight	Weight of the internal server	N/A	Unsigned integer. Value range: 1 to 1000. Default: 100.	N/A

NAT/ServerOnInterfaces

This table contains information about mappings between the IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <ServerOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalStartIpv4Address></LocalStartIpv4Address>
        <LocalEndIpv4Address></LocalEndIpv4Address>
        <LocalStartPortNumber></LocalStartPortNumber>
        <LocalEndPortNumber></LocalEndPortNumber>
        <LocalSrvGroupNumber></LocalSrvGroupNumber>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <VRID></VRID>
      <Description></Description>
      <Counting></Counting>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </ServerOnInterfaces>
```

```
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: • GlobalVRF. • GlobalStartIpv4Address. • GlobalEndIpv4Address. • GlobalStartPortNumber. • GlobalEndPortNumber. • GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The *GlobalStartPortNumber* cannot be greater than the *GlobalEndPortNumber*. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index, The IP address of the interface is used as the NAT address for the internal server.	Index	Unsigned integer.	Only loopback interfaces and " IfIndex " are supported. The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalStartIpv4Address. • LocalEndIpv4Address. • LocalStartPortNumber. • LocalEndPortNumber. • LocalSrvGroupNumber.	The number of addresses in the range must match that of the external port number range.
LocalVRF	VRF of internal address	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this

Column name	Column description	Column type	Data type and restrictions	Remarks
				option.
LocalStartIpv4Address	Start IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalEndIpv4Address	End IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.6.
LocalStartPortNumber	Start port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	The *LocalStartPortNumber* cannot be greater than the *LocalEndPortNumber*. If they are the same, the internal port number range has only one port. The internal port number range can include a maximum of 255 ports.
LocalEndPortNumber	End port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalSrvGroupNumber	The internal server group to which the internal server belongs.	N/A	Unsigned integer. Value range: 0 to 65535.	With this parameter, the load sharing NAT Server feature is configured. Support for the value range depends on the device model.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you specify an ACL, only packets permitted by the ACL can be translated by using the mapping. Support for this parameter depends on the device model.
Reversible	Whether reverse address translation is supported.	N/A	Boolean: • true—YES • false—NO(default)	Reverse address translation applies to connections actively initiated by internal hosts to the external host. It uses existing mappings to translate the destination address for packets of these connections if the packets are permitted by ACL reverse matching.
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the

Column name	Column description	Column type	Data type and restrictions	Remarks
				VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the NAT server. In dual-system hot backup with load balancing, if the address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the VRRP.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
Counting	Whether open the switch of matching the NAT server statistics	N/A	Boolean: • true—YES • false—NO(default)	N/A
RuleName	Name of the NAT Server	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is the lowest.

The following table describes the address-port mappings between an external network and an internal network for NAT Server. The mappings which is not listed is not supported and will be treated as configuration conflict.

Noun explanation:

Consecutive external addresses: *GlobalEndIpv4Address* is greater than *GlobalStartIpv4Address*.

Single external address: *GlobalEndIpv4Address* is equal to *GlobalStartIpv4Address*, or *GlobalEndIpv4Address* is null.

Consecutive external ports: *GlobalEndPortNumber* is greater than *GlobalStartPortNumber*.

Single external port: *GlobalEndPortNumber* is equal to *GlobalStartPortNumber*, or *GlobalEndPortNumber* is null.

Consecutive internal addresses: *LocalEndIpv4Address* is greater than *LocalStartIpv4Address*.

Single internal address: *LocalEndIpv4Address* is equal to *LocalStartIpv4Address*, or *LocalEndIpv4Address* is null.

Consecutive internal ports: *LocalEndPortNumber* is greater than *LocalStartPortNumber*.

Single internal port: *LocalEndPortNumber* is equal to *LocalStartPortNumber*, or *LocalEndPortNumber* is null.

External network	Internal network
An external address	An internal address.
An external address and an external port number	An internal address and an internal port number.
An external address and *N* consecutive external port numbers	An internal address and an internal port number.
	N consecutive internal addresses and an internal port number.
	An internal address and *N* consecutive internal port numbers.
N consecutive external addresses	An internal address.
	N consecutive internal addresses.
N consecutive external addresses and an external port number	An internal address and an internal port number.
	N consecutive external addresses and an internal port number.
	An internal address and *N* consecutive internal port numbers.
An external address and an external port number	An internal server group.
An external address and *N* consecutive external port numbers	
N consecutive external addresses and an external port number	

NAT/PortBlockGroups

This table contains the information about NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <VRID></VRID>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Master/Backup mode: No VRRP keyword is required. Load sharing method: Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and NAT port group address so that the traffic is transmitted on the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the traffic flow to be transmitted on the active device in the specified VRRP backup group.
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	When you set a port block size, give consideration to the number of private IP addresses, the number of public IP addresses, and the port range. The

Column name	Column description	Column type	Data type and restrictions	Remarks
				port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	Set *GlobalStartPort* and *GlobalEndPort* to their default values to define a default port range. The *GlobalStartPort* cannot be greater than the *GlobalEndPort*. The port range must include all ports that the public IP addresses use for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A

NAT/PortBlockGroupLocalMembers

This table contains the information of private IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupLocalMembers>
    <LocalMember>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </LocalMember>
  </PortBlockGroupLocalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT

Item	Description
Table name	PortBlockGroupLocalMembers
Table type	Multi-instance table
Row name	LocalMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple private IP address members in a port block group, but they cannot overlap. Private IP address members in different port block groups can overlap. For static NAT444, in a port block group, the number of private IP addresses cannot be larger than the number of assignable port blocks. Otherwise, some private IP addresses cannot obtain port blocks.
VRF	VRF to which the private IP address member belong.	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the private IP address member does not belong to any VPN.
StartIpv4Address	Start IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specifies only one private IP address.

NAT/PortBlockGroupGlobalMembers

This table contains the information of public IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupGlobalMembers>
    <GlobalMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GlobalMember>
  </PortBlockGroupGlobalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupGlobalMembers
Table type	Multi-instance table
Row name	GlobalMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a port block group, but they cannot overlap. Public IP address members in different port block groups can overlap. But the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in

Column name	Column description	Column type	Data type and restrictions	Remarks
				its port range by the port block size.
StartIpv4Address	Start IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specifies only one public IP address.

NAT/OutboundPortBlockOnInterfaces

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```
<NAT>
  <OutboundPortBlockOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <GroupNumber></GroupNumber>
      <Counting></Counting>
    </Interface>
  </OutboundPortBlockOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundPortBlockOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can apply multiple port block groups to one interface. After you apply a port block group to an interface, the system automatically computes the IP-to-port block mappings and creates entries for them. When a private IP address accesses the public network, the private IP address is translated to the mapped public IP address and the ports are translated to ports in the mapped port block.
Counting	Whether open the switch of matching the NAT portblock group statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/DNSMappings

This table contains the mappings about the domain name of an internal server to the public IP address, public port number, and protocol type of the server.

XML structure

```
<NAT>
  <DNSMappings>
    <MapInfo>
      <Domain></Domain>
      <Protocol></Protocol>
      <Ipv4Address></Ipv4Address>
      <IfIndex></IfIndex>
      <PortNumber></PortNumber>
    </MapInfo>
```

```
  </DNSMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DNSMappings
Table type	Multi-instance table
Row name	MapInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The domain name of an internal server.	Index	String, case-sensitive. Length: 1 to 253 characters.	A domain name is a dot-separated that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can contain at most 253 characters, and each separated string contains no more than 63 characters.
Protocol	The type of the protocol used by the internal server.	N/A	Enumeration: • 6—TCP. • 17—UDP.	This column is affirmatively chosen item.
Ipv4Address	The public IP address used by the internal server to provide services to the external network.	N/A	String, dotted decimal notation.	Example: 1.1.1.6. The Ipv4Address and IfIndex are two configuration modes, only one mode must be configured.
IfIndex	Interface index	N/A	Unsigned integer.	Enables Easy IP to use the IP address of the interface specified by its index as the public address of the internal server. Only loopback interfaces are supported.
PortNumber	The public port number used by	N/A	Unsigned integer. Value range: 1 to 65535.	This column is affirmatively chosen

Column name	Column description	Column type	Data type and restrictions	Remarks
	the internal server to provide services to the external network.			item.

NAT/ALG

This table contains the protocols for which NAT with ALG is enabled.

XML structure

```
<NAT>
  <ALG>
    <ALGInfo>
      <AppID></AppID>
      <EnableALG></EnableALG>
    </ALGInfo>
  </ALG>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 14. • 0—DNS • 1—FTP. • 2—ICMP-ERROR • 3—H.323 • 4—SIP • 5—TFTP • 6—RTSP	Use ALG with NAT to translate the payload information to ensure the establishment of data connections. NAT translates IP address and port information in packet headers, and ALG processes the fields in application layer payloads. The

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 7—SQLNET • 8—XDMCP • 9—ILS • 10—MGCP • 11—NBT • 12—PPTP • 13—RSH • 14—SCCP	packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.
EnableALG	Whether enable NAT with ALG.	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/EIM

This table is about the mapping behavior mode for PAT.

XML structure

```
<NAT>
  <EIM>
    <EnableEIM></EnableEIM>
    <ACLNumber></ACLNumber>
  </EIM>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	EIM
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableEIM	Whether enable **Endpoint-Independent Mapping** (EIM).	N/A	Boolean: • true—YES • false—NO(default).	•**Endpoint-Independent Mapping**—EIM uses the same IP and port mapping for packets from the same source and port to any destination IP and port. An EIM entry is generated to record the IP and port mapping. This behavior allows packets from any external host to access the internal user by using the NAT address and port. This behavior facilitates communication among hosts that connect to different NAT gateways. •**Address and Port-Dependent Mapping**—Uses different IP and port mappings for packets with the same source IP and port to different destination IP addresses and ports. This behavior does not allow packets from an external host to be sent to any NAT address and port unless the internal host has previously sent a packet of the same protocol to that external host. This behavior is secure but inconvenient for communication among hosts connecting to different NAT gateways. This configuration takes effect only on outbound PAT. Address and Port-Dependent Mapping always applies to inbound PAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive.	Applies the NAT mapping behavior to packets that are permitted by the ACL. If no ACL is specified, the

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	Endpoint-Independent Mapping applies to all packets. This field is available only when *EnableEIM* is set to true.

NAT/HairpinOnInterfaces

This table contains the interfaces where hairpin is enabled.

XML structure

```
<NAT>
  <HairpinOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableHairpin></EnableHairpin>
    </Interface>
  </HairpinOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	HairpinOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableHairpi	Whether enable	N/A	Boolean:	NAT hairpin allows

Column name	Column description	Column type	Data type and restrictions	Remarks
n	hairpin on the interface		• true—YES • false—NO(default).	internal hosts behind the same NAT device to access each other only after they use the NAT addresses. NAT hairpin functions on the interface that connects the internal network and translates the source and destination IP addresses of a packet on the interface. NAT hairpin typically operates with NAT Server, outbound dynamic NAT, or outbound static NAT.

NAT/LogRule

This table contains NAT log configurations.

XML structure

```
<NAT>
  <LogRule>
    <GlobalLog>
      <EnableGlobalLog></EnableGlobalLog>
      <ACLNumber></ACLNumber>
    </GlobalLog>
    <EnableFlowBeginLog></EnableFlowBeginLog>
    <EnableFlowEndLog></EnableFlowEndLog>
    <ActiveFlowLog>
      <EnableActiveFlowLog></EnableActiveFlowLog>
      <Interval></Interval>
    </ActiveFlowLog>
    <EnablePortBlockAssignLog></EnablePortBlockAssignLog>
    <EnablePortBlockWithDrawLog></EnablePortBlockWithDrawLog>
    <EnableAlarmLog></EnableAlarmLog>
  </LogRule>
</NAT>
```

Table description

Item	Description
Feature name	NAT

Item	Description
Table name	LogRule
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLog	Global log configuration.	Data structure.	Members include: • EnableGlobalLog. • ACLNumber.	N/A
EnableGlobalLog	Whether enable the NAT logging function.	N/A	Boolean: • true—YES • false—NO(default).	Other column takes effect only after you enable NAT logging.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If an ACL is specified, this command logs NAT flows that match the permit statements in the ACL. If no ACL is specified, this configuration logs all NATed data flows. This field is available only when *EnableGlobalLog* is set to true.
EnableFlowBeginLog	Whether enable logging for NAT session establishment events.	N/A	Boolean: • true—YES • false—NO(default).	When a NAT session is established, this function outputs a NAT log.
EnableFlowEndLog	Whether enable logging for NAT session removal events.	N/A	Boolean: • true—YES • false—NO(default).	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: • EnableActiveFlowLog. • Interval.	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: • true—YES • false—NO(default).	Configure this column must also configure the *Interval*.
Interval	The interval for logging active NAT flows (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	Configure *EnableActiveFlowLog* to true to configure this item.
EnablePortBl	Whether enable	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ockAssignLog	logging for port block assigning.		• true—YES • false—NO(default).	
EnablePortBlockWithDrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: • true—YES • false—NO(default).	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/HotBackup

This table contains NAT hot backuping configurations.

XML structure

```
<NAT>
  <HotBackup>
    <EnablePortBlock></EnablePortBlock>
  </HotBackup>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	HotBackup
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnablePortBlock	Whether enable hot backuping for port block.	N/A	Boolean: • true—YES • false—NO(default)	N/A

NAT/StaticLoadBalance

This table contains NAT static load balance configurations.

XML structure

```
<NAT>
  <StaticLoadBalance>
    <EnableStaticLoadBalance></EnableStaticLoadBalance>
  </StaticLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticLoadBalance
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaticLoadBalance	Whether enable load balance function for nat static configure.	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/ReplyRedirectOnInterfaces

This table contains the interfaces where redirect reply-route is enabled.

XML structure

```
<NAT>
  <ReplyRedirectOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableReplyRedirect></EnableReplyRedirect >
    </Interface>
  </ReplyRedirectOnInterfaces >
```

```
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ReplyRedirectOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	• Unsigned integer.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
EnableReply Redirect	Whether enable redirect reply-route on the interface	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/NATPolicy

This table contains informations about NAT policy.

XML structure

```
<NAT>
  <NatPolicy>
    <Policy></Policy>
  </NatPolicy>
```

```
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Whether enable NAT policy	N/A	Boolean: • true—YES • false—NO(default)	N/A

NAT/PolicyRules

This table contains informations about NAT policy rules

XML structure

```
<NAT>
  <PolicyRules>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </PolicyRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRules
Table type	Multi-instance table
Row name	Rule

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A

NAT/PolicyRuleMembers

This table contains information about the NAT policy rule members.

XML structure

```
<NAT>
  <PolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <Description></Description>
      <OutboundInterface></OutboundInterface>
      <Action></Action>
      <AddrGroupNumber></AddrGroupNumber>
      <AddrGroupName></AddrGroupName>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
      <Disable></Disable>
      <Counting></Counting>
    </Rule>
  </PolicyRuleMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMembers
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
Description	Rule description	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
OutboundInterface	Interface index or interface name	N/A	String.case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Action	Action on packets matching the rule	N/A	Enumeration 0—NO-PAT 1—PAT. 2—EasyIp 3—NO-Nat.	You cannot specify an action when you remove or delete a rule . You must specify an action when you replace a rule.or when you merge or create a rule that does not exist. The address of the interface will be used when you chose the EasyIp. Choose NO-Nat when Perform no address translation.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535	When you choose the EasyIP mode,The value of the column must be invalid. An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes.
AddrGroupName	NAT address group name	N/A	String.case-sensitive. Length: 1 to 63 characters.	Both AddrGroupName and AddrNumber has been configured, the AddrGroupName will be used.

Column name	Column description	Column type	Data type and restrictions	Remarks
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO(default).	Support for this keyword depends on the device model. This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: • true—YES • false—NO(default).	This column can only be configured in PAT mode and EasyIP mode.
Disable	Disable the rule.	N/A	Boolean: • true—YES • false—NO(default)	N/A
Counting	Enabling status of NAT policy match counting	N/A	Boolean: • true—YES • false—NO(default)	N/A

NAT/PolicyRuleMemberSrcObj

This table contains information about the NAT policy rule source object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
      </SrcObjGrpList>
    </Rule>
  </PolicyRuleMemberSrcObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberSrcObj
Table type	Multi-instance table

Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrcObjGrpList	Policy rule source objectgroup	Data structure	Members include: • SrcIpObj.	N/A
SrcIpObj	Name of the Source IP objectgroup	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberDstObj

This table contains information about the NAT policy rule destination object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
      </DstObjGrpList>
    </Rule>
  </PolicyRuleMemberDstObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberDstObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
DstObjGrpList	Policy rule destination objectgroup	Data structure	Members include: • DstIpObj.	N/A
DstIpObj	Name of the Destination IP objectgroup	N/A	String. case insensitive. Length: 1 to 31 characters	N/A

NAT/PolicyRuleMemberSrvObj

This table contains information about the NAT policy rule service object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvObjGrpList>
        <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </PolicyRuleMemberSrvObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberSrvObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrvObjGrpList	Policy rule service objectgroup	Data structure	Members include: • SrvObj	N/A
SrvObj	Name of the Service objectgroup	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/DestinationNatOnInterfaces

This table contains information about the NAT acl server.

XML structure

```
<NAT>
  <DestinationNatOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalIpv4Address></LocalIpv4Address>
        <LocalPortNumber></LocalPortNumber>
      </LocalInfo>
      <Action></Action>
      <VRID></VRID>
      <Disable></Disable>
      <Description></Description>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </DestinationNatOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DestinationNatOnInterfaces

Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	index	Ussigned integer. Value range: 2000 to 3999	N/A
LocalInfo	Internal network address information	Data structure	Members include: • LocalVRF • LocalIpv4Address LocalPortNumber	N/A
LocalVRF	VRF of internal address	N/A	String. case-sensitive Length: 1 to 31 characters.	N/A
LocalIpv4Address	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPortNumber	An internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the NAT server. In dual-system hot backup with load balancing, if the address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the

Column name	Column description	Column type	Data type and restrictions	Remarks
				VRRP.
Disable	Disable the rule.	N/A	Boolean: • true—YES false—NO(default).	N/A
Description	Rule description	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the NAT acl server	N/A	String. case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is the lowest.

NAT/ObjServer

This table contains information about the NAT object server.

XML structure

```
<NAT>
  <ObjServer>
    <Rule>
      <RuleName></RuleName>
      <IfIndex></IfIndex>
      <DstObjGrpList>
        <DstObjGrp></DstObjGrp>
      </DstObjGrpList>
      <SrvObjGrpList>
        <SrvObjGrp></SrvObjGrp>
      </SrvObjGrpList>
      <Action></Action>
      <LocalInfo>
        <LocalIP></LocalIP>
        <LocalPort></LocalPort>
      </LocalInfo>
      <VRID></VRID>
      <Disable></Disable>
      <Counting></Counting>
    </Rule>
  </ObjServer>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ObjServer
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DstObjGrpList	Destination object group	Data structure	Members include: DstObjGrp	N/A
DstObjGrp	Name of the destination object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 5.
SrvObjGrpList	Service object group	Data structure	Members include: SrvObjGrp	N/A
SrvObjGrp	Service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 1.
Action	Action on packetsmatching the rule	N/A	Enumeration 0—net-to-single.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when

Column name	Column description	Column type	Data type and restrictions	Remarks
				you merge or create a rule that does not exist.
LocalInfo	Internal network address information	Data structure	Members include: • LocalIP LocalPort	N/A
LocalIP	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the NAT server. In dual-system hot backup with load balancing, if the address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the VRRP.
Disable	Disable the rule.	N/A	Boolean: • true—YES false—NO(default)	N/A
Counting	Whether enabling counting NAT obj server statistics	N/A	Boolean: • true—YES false—NO(default)	N/A

NAT/ObjServerName

This table contains information about the name of NAT object server.

XML structure

```
<NAT>
  <ObjServerName>
```

```
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ObjServerName>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ObjServerName
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

NAT/Nat66

This table contains information about the NAT66 prefix

XML structure

```
<NAT>
  <Nat66>
    <Prefix>
      <IfIndex></IfIndex>
      <TransMode></TransMode>
      <OrigPrefix></OrigPrefix>
      <OrigPrefixLen></OrigPrefixLen>
      <TransPrefix></TransPrefix>
      <TransPrefixLen></TransPrefixLen>
      <TotalNum></TotalNum>
    </Prefix>
  </Nat66>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Nat66
Table type	Multi-instance table
Row name	Prefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
TransMode	Translate mode	Index	Enumeration: 0—SNAT. 1—DNAT	N/A
OrigPrefix	Original Prefix	Index	Hexadecimal string, colon-separated.	N/A
OrigPrefixLen	The length of OrigPrefix	Index	Unsigned integer. Value range: 1 to 128	N/A
TransPrefix	Translate Prefix	Index	Hexadecimal string, colon-separated.	N/A
TransPrefixLen	The length of transprefix	Index	Unsigned integer. Value range: 1 to 128	N/A

NAT/LinkSwitchReSession

This table contains information about the recreate NAT sessions upon link switchover

XML structure

```
<NAT>
  <LinkSwitchReSession>
    <Enable></Enable>
```

```
  </LinkSwitchReSession>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	LinkSwitchReSession
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	switchover	column	Boolean: • **true**—Yes • **false**—No (default).	NAT sessions upon link switchover

NAT/MAP

This table contains NAT MAP configurations.

XML structure

```
<NAT>
  <MAP>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </MAP>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	MAP
Table type	Multi-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index or name of tunnel interface for MAP.
Enable	Whether enable NAT address translation for MAP.	N/A	Boolean: • true—YES • false—NO.(default)	N/A

Configuration/Profiles/NatProfileAddrGroups

This table contains information about NAT address groups in the profile view. For information about the Configuration and Profiles, see *Comware Configuration NETCONF XML API Configuration Reference*.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <NatProfileAddrGroups>
        <NatProfileAddrGroup>
          <GroupNumber></GroupNumber>
          <GroupName></GroupName>
        </NatProfileAddrGroup>
      </NatProfileAddrGroups>
    </Profile>
  </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileAddrGroups
Table type	Multi-instance table

Item	Description
Row name	NatProfileAddrGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
GroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	N/A

Configuration/Profiles/NatProfileAddrGroupMembers

This table contains information about the NAT address group members in the profile view. For information about the Configuration and Profiles, see *Comware Configuration NETCONF XML API Configuration Reference*.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <NatProfileAddrGroupMembers>
        <NatProfileAddrGroupMember>
          <GroupNumber></GroupNumber>
          <StartIpv4Address></StartIpv4Address>
          <EndIpv4Address></EndIpv4Address>
        </NatProfileAddrGroupMember>
      </NatProfileAddrGroupMembers>
    </Profile>
  </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileAddrGroupMembers

Item	Description
Table type	Multi-instance table
Row name	NatProfileAddrGroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

Configuration/Profiles/InterfacesProfileConfig/NatProfileInboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces in the profile view. For information about the Configuration and Profiles, see *Comware Configuration NETCONF XML API Configuration Reference*.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <InterfacesProfileConfig>
```

```
      <InterfaceProfileConfig>
      <InterfaceName></InterfaceName>
      <NatProfileInboundDynamicRules>
        <NatProfileInboundDynamicRule>
          <ACLNumber></ACLNumber>
          <AddrGroupNumber></AddrGroupNumber>
          <AddrGroupName></AddrGroupName>
          <VRF></VRF>
          <NoPAT></NoPAT>
          <Reversible></Reversible>
          <AutoAddRoute></AutoAddRoute>
          <RuleName></RuleName>
          <RulePriority></RulePriority>
          <Disable></Disable>
          <Description></Description>
          <Counting></Counting>
        </NatProfileInboundDynamicRule>
      </NatProfileInboundDynamicRules>
      </InterfaceProfileConfig>
    </InterfacesProfileConfig>
  </Profile>
 </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileInboundDynamicRules
Table type	Multi-instance table
Row name	NatProfileInboundDynamicRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	An ACL can be used by only one inbound dynamic NAT rule on an interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen item.
AddrGroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	The same address group number can only use one address group name, and different address group numbers cannot use the same address group name The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether to perform only IP address translation.	N/A	Boolean: • true—YES • false—NO(default).	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether to translate the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO(default).	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether to add a route to the NAT address when address translation is	N/A	Boolean: • true—YES • false—NO(default).	The output interface is the NAT interface and the next-hop is the source address before translation. If you do

Column name	Column description	Column type	Data type and restrictions	Remarks
	performed for a packet.			not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Disable	Whether to enable this dynamic mapping	N/A	Boolean	If this parameter is not specified, the address translation mapping is enabled.
Description	Description of the dynamic mapping	N/A	String, Length: 1 to 63 characters.	Configuring the description information of the dynamic mapping. The description is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
Counting	Whether to enable the dynamic mapping counting	N/A	Boolean	Enable to count each first packet address translation This column can be null.

Configuration/Profiles/nterfacesProfileConfig/NatProfileOutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces in the profile view. For information about the Configuration and Profiles, see *Comware Configuration NETCONF XML API Configuration Reference*.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <InterfacesProfileConfig>
        <InterfaceProfileConfig>
        <InterfaceName></InterfaceName>
          <NatProfileOutboundDynamicRules>
            <NatProfileOutboundDynamicRule>
              <ACLNumber></ACLNumber>
              <AddrGroupNumber></AddrGroupNumber>
              <AddrGroupName></AddrGroupName>
              <VRF></VRF>
              <NoPAT></NoPAT>
              <Reversible></Reversible>
              <PortPreserved></PortPreserved>
              <RuleName></RuleName>
              <RulePriority></RulePriority>
              <Disable></Disable>
              <Description></Description>
              <Counting></Counting>
            </NatProfileOutboundDynamicRule>
          </NatProfileOutboundDynamicRules>
        </InterfaceProfileConfig>
      </InterfacesProfileConfig>
    </Profile>
  </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileOutboundDynamicRules
Table type	Multi-instance table
Row name	NatProfileOutboundDynamicRule

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configurations. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen

Column name	Column description	Column type	Data type and restrictions	Remarks
				item.
AddrGroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	The same address group number can only use one address group name, and different address group numbers cannot use the same address group name The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether to perform only IP address translation.	N/A	Boolean: • true—YES • false—NO(default).	NO-PAT mode can't be configured without AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether to translate the destination address of a packet that originates from external hosts to the internal host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO(default).	This column can only be configured in NO-PAT mode.
PortPreserved	Whether to preserve the port number for PAT.	N/A	Boolean: • true—YES • false—NO(default).	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark

Column name	Column description	Column type	Data type and restrictions	Remarks
				(''), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Disable	Whether to enable this dynamic mapping	N/A	Boolean	If this parameter is not specified, the address translation mapping is enabled.
Description	Description of the dynamic mapping	N/A	String, Length: 1 to 63 characters.	Configuring the description information of the dynamic mapping. The description is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark (''), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
Counting	Whether to enable the dynamic mapping counting	N/A	Boolean	Enable to count each first packet address translation This column can be null.

Contents

NAT 1

NAT/AddrGroups 1
XML structure 1
Table description 1
Columns 1
NAT/AddrGroupHealthCheck 4
XML structure 4
Table description 4
Columns 4
NAT/AddrGroupMembers 5
XML structure 5
Table description 5
Columns 5
NAT/AddrGroupExcludeMembers 6
XML structure 6
Table description 6
Columns 6
NAT/AddrGroupExcludeAddrInfo 7
XML structure 7
Table description 7
Columns 8
NAT/AddrPoolAlloc 8
XML structure 8
Table description 8
Columns 9
NAT/InboundDynamicRules 9
XML structure 9
Table description 10
Columns 10
NAT/OutboundDynamicRules 12
XML structure 12
Table description 12
Columns 13
NAT/InboundStaticMappings 15
XML structure 15
Table description 15
Columns 16
NAT/InboundStaticObjMappings 18
XML structure 18
Table description 18
Columns 19
NAT/OutboundStaticMappings 20
XML structure 20
Table description 21
Columns 21
NAT/OutboundStaticObjMappings 23
XML structure 24
Table description 24
Columns 24
NAT/StaticOnInterfaces 26
XML structure 26
Table description 26
Columns 27
NAT/ServerGroups 27
XML structure 27
Table description 27
Columns 27

NAT/ServerGroupMembers ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
NAT/ServerOnInterfaces ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 30
NAT/PortBlockGroups ····· 34
XML structure ····· 34
Table description ····· 35
Columns ····· 35
NAT/PortBlockGroupLocalMembers ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 37
NAT/PortBlockGroupGlobalMembers ····· 37
XML structure ····· 37
Table description ····· 38
Columns ····· 38
NAT/OutboundPortBlockOnInterfaces ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 39
NAT/DNSMappings ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
NAT/ALG ····· 41
XML structure ····· 41
Table description ····· 42
Columns ····· 42
NAT/EIM ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 43
NAT/HairpinOnInterfaces ····· 44
XML structure ····· 44
Table description ····· 45
Columns ····· 45
NAT/LogRule ····· 45
XML structure ····· 46
Table description ····· 46
Columns ····· 46
NAT/HotBackup ····· 47
XML structure ····· 47
Table description ····· 48
Columns ····· 48
NAT/Statistics ····· 48
XML structure ····· 48
Table description ····· 49
Columns ····· 49
NAT/StaticLoadBalance ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 51
NAT/Capabilities ····· 51
XML structure ····· 51
Table description ····· 51
Columns ····· 51
NAT/ReplyRedirectOnInterfaces ····· 51
XML structure ····· 52

Table description 52
Columns 52
NAT/NATPolicy 53
XML structure 53
Table description 53
Columns 53
NAT/PolicyRules 53
XML structure 53
Table description 54
Columns 54
NAT/PolicyRuleMembers 54
XML structure 54
Table description 55
Columns 55
NAT/PolicyRuleMemberSrcObj 57
XML structure 57
Table description 58
Columns 58
NAT/PolicyRuleMemberDstObj 58
XML structure 58
Table description 59
Columns 59
NAT/PolicyRuleMemberSrvObj 59
XML structure 59
Table description 59
Columns 60
NAT/DestinationNatOnInterfaces 60
XML structure 60
Table description 61
Columns 61
NAT/ObjServer 62
XML structure 62
Table description 63
Columns 63
NAT/Nat66 65
XML structure 65
Table description 65
Columns 66
NAT/Nat66VRF 66
XML structure 66
Table description 67
Columns 67
NAT/IPPoolAddrUsage 68
XML structure 68
Table description 68
Columns 68
NAT/InstAddrGroupUsage 69
XML structure 69
Table description 69
Columns 70
NAT/InstAddrGroupMemberUsage 70
XML structure 70
Table description 71
Columns 71
NAT/NatVrrpList 72
XML structure 72
Table description 72
Columns 72
NAT/NatVrrp6List 73
XML structure 73
Table description 73
Columns 73

NAT/LinkSwitchReSession ····· 74
XML structure ····· 74
Table description ····· 74
Columns ····· 74
NAT/ StaticMappings ····· 74
XML structure ····· 74
Table description ····· 75
Columns ····· 75
NAT/MAP ····· 78
XML structure ····· 78
Table description ····· 78
Columns ····· 78
Configuration/Profiles/NatProfileAddrGroups ····· 79
XML structure ····· 79
Table description ····· 79
Columns ····· 79
Configuration/Profiles/NatProfileAddrGroupMembers ····· 80
XML structure ····· 80
Table description ····· 80
Columns ····· 80
Configuration/Profiles/InterfacesProfileConfig/NatProfileInboundDynamicRules ····· 81
XML structure ····· 81
Table description ····· 82
Columns ····· 82
Configuration/Profiles/InterfacesProfileConfig/NatProfileOutboundDynamicRules ····· 84
XML structure ····· 84
Table description ····· 85
Columns ····· 85

NAT

NAT/AddrGroups

This table contains information about NAT address groups.

XML structure

```
<NAT>
  <AddrGroups>
    <AddrGroup>
      <GroupNumber></GroupNumber>
      <Description></Description>
      <VRID></VRID>
      <PortBlockSize></PortBlockSize>
      <ExtendedBlockNumber></ExtendedBlockNumber>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <ExtendedBlockMultiGlobalIp></ExtendedBlockMultiGlobalIp>
    </AddrGroup>
  </AddrGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroups
Table type	Multi-instance table
Row name	AddrGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	NAT address group description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
VRID	Identifier of the	N/A	Unsigned integer.	• Master/backup

Column name	Column description	Column type	Data type and restrictions	Remarks
	virtual router		Value range: 1 to 255.	mode: No VRRP keyword is required. • Load sharing method: Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and NAT address pool address, so that traffic is transmitted on the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the flow of traffic and enable traffic to be transmitted on the active device in the specified VRRP backup group.
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	To configure dynamic NAT444, you must configure port block for the referenced NAT address group. With dynamic NAT444 configured, when a private IP address initiates a connection to the public network, the NAT444 gateway assigns it a public IP address and a port block, and creates an entry for the mapping. For subsequent connections from the private IP address, the NAT444 gateway translates the private IP address to the mapped public IP address and the ports to ports in the mapped port block. In a NAT address group, the port block size cannot be larger than the number of

Column name	Column description	Column type	Data type and restrictions	Remarks
				ports in the port range. Configure this item before configuring *ExtendedBlockNumber*, deleting this item also deletes *ExtendedBlockNumber*.
ExtendedBlockNumber	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	With this parameter specified, when a private IP address accesses the public network, but the ports in the mapped port block are all occupied, the NAT gateway extends port blocks for the private IP address. A user can contain up to *ExtendedBlockNumber*+1 port blocks at the same time. If you want to configure this you must first configure the *PortBlocksize*.
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	Set *StartPort* and *EndPort* to their default values to define a default port range. The *StartPort* cannot be greater than the *EndPort*. The number of ports in a port range cannot be smaller than the port block size.
EndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ExtendedBlockMultiGlobalIp	Whether to set the global IP of the extended port block is different from the global IP of the pre-allocated port block	N/A	Boolean: • true—YES • false—NO	Enabling this command may result in the failure of expansion port block allocation, resulting in insufficient use of public network resources. NAT translation of service traffic fails, resulting in packet loss. However, it can be guaranteed that in the scenario of BRAS user linkage NAT, the public network information of the user expansion port block is the same as the public network

Column name	Column description	Column type	Data type and restrictions	Remarks
				information of the pre-allocated port block. The AAA server requires no special handling. After disabling it, the public network resources can be fully utilized.

NAT/AddrGroupHealthCheck

This table contains information about NAT address group health check.

XML structure

```
<NAT>
  <AddrGroupHealthCheck>
    <GroupNumber></GroupNumber>
    <ProbeName></ProbeName>
  </AddrGroupHealthCheck>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupHealthCheck
Table type	Multi-instance table
Row name	GroupHealthCheck
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ProbeName	The name of Probe templation	Index	String, case sensitive. Length: 1 to 63 characters.	N/A

NAT/AddrGroupMembers

This table contains information about the NAT address group members.

XML structure

```
<NAT>
  <AddrGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMember>
  </AddrGroupMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group

Column name	Column description	Column type	Data type and restrictions	Remarks
				members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/AddrGroupExcludeMembers

This table contains information about the NAT address group exclude members.

XML structure

```
<NAT>
  <AddrGroupExcludeMembers>
    <GroupExcludeMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupExcludeMember>
  </AddrGroupExcludeMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupExcludeMembers
Table type	Multi-instance table
Row name	GroupExcludeMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address*

Column name	Column description	Column type	Data type and restrictions	Remarks
	exclude member			cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group exclude member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/AddrGroupExcludeAddrInfo

This table contains information about the NAT address group exclude address information.

XML structure

```
<NAT>
  <AddrGroupExcludeAddrInfo>
      <GroupNumber></GroupNumber>
      <ExcludeIp></ExcludeIp>
      <GroupName></GroupName>
      <ExcludeTime><ExcludeTime>
      <TotalCount><TotalCount>
  </AddrGroupExcludeAddrInfo>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupExcludeAddrInfo
Table type	Single-instance table
Row name	AddrGroupExcludeAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ExcludeIp	Address Group Index Exclude IP	Index	String, dotted decimal notation.	Example: 1.1.1.1.
GroupName	NAT address pool group name,	N/A	String, 1 to 31 characters	Example: aa
ExcludeTime	Address group ip exclusiontime	N/A	datetime	Example:2022-10-09T16:53:45
TotalCount	Number of IPs matching the filter criteria	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/AddrPoolAlloc

This table contains address pool allocation information about the NAT address pool.

XML structure

```
<NAT>
  <AddrPoolAlloc>
    <AddrBlock>
      <AddrPoolName></AddrPoolName>
      <VxLanID></VxLanID>
      <DPAddress></DPAddress>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </AddrBlock>
  </AddrPoolAlloc>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrPoolAlloc
Table type	Multi-instance table
Row name	AddrBlock
Restrictions	None

Columns

	Column description	Column type	Data type and restrictions	Remarks
AddrPoolName	NAT address pool name	Index	String, case-sensitive. Length:1 to31characters.	N/A
VxLanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
DPAddress	DP address	Index	String, dotted decimal notation.	Example: 11.1.1.2.
StartIpv4Address	Start IPv4 address of the dynamic address block	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are same, the block member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of block members.
EndIpv4Address	End IPv4 address of the dynamic address block		String, dotted decimal notation.	Example: 1.1.1.6.

NAT/InboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <InboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
```

```
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <AutoAddRoute></AutoAddRoute>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Interface>
  </InboundDynamicRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	An ACL can be used by only one inbound dynamic NAT rule an interface.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configuration. It cannot be used by the NAT inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen

Column name	Column description	Column type	Data type and restrictions	Remarks
				item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO.	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO.	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether adds a route to the NAT address when address translation is performed for a packet.	N/A	Boolean: • true—YES • false—NO.	The output interface is the NAT interface and the next-hop is the source address before translation. If you do not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
`RuleName`	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
`RulePriority`	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
MatchingCount	Number of packets matching the	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	inbound dynamic NAT rule.			
Counting	Whether open the switch of matching the inbound dynamic NAT rule statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/OutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <OutboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
      <WhetherPersistConfig></WhetherPersistConfig>
    </Interface>
  </OutboundDynamicRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configurations. It cannot be used by the NAT outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP	N/A	Boolean:	NO-PAT mode can't be configured without

Column name	Column description	Column type	Data type and restrictions	Remarks
	address translation.		• true—YES • false—NO.	AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from external hosts to the internal host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO.	This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: • true—YES • false—NO.	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
MatchingCount	Number of packets matching the outbound dynamic NAT rule.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the outbound dynamic NAT rule statistics	N/A	Boolean: • true—YES • false—NO.	N/A
WhetherPersistConfig	Whether to save the configuration	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/InboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for inbound static NAT.

XML structure

```
<NAT>
  <InboundStaticMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Description></Description>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </InboundStaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • StartIpv4Address. • EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for inbound static NAT.
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
LocalInfo	Internal network address information	Data structure.	Members include: • GlobalVRF. • Ipv4Address. • Ipv4PrefixLength.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the internal network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for inbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses

Column name	Column description	Column type	Data type and restrictions	Remarks
				of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO.	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT inbound	N/A	Boolean: • true—YES • false—NO.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	static mapping statistics			

NAT/InboundStaticObjMappings

This table contains information about object-group mappings for inbound static NAT.

XML structure

```
<NAT>
  <InboundStaticObjMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <Disable></Disable>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </InboundStaticObjMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticObjMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • GlobalObjGrp.	N/A
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group, do not use this parameter.
GlobalObjGrp	GlobalObjGrp of an external address object	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalObjGrp
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalObjGrp.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group do not use this parameter.
LocalObjGrp	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the	N/A	Boolean:	Support for this keyword depends on

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.		• true—YES • false—NO.	the device model. This column can only be configured when *ACLNumber* is also configured.
Disable	Whether the rule is enabled or disabled.	N/A	Boolean: • true—YES • false—NO.	N/A
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/OutboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for outbound static NAT.

XML structure

```
<NAT>
  <OutboundStaticMappings>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <VRID></VRID>
```

```
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Description></Description>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </OutboundStaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address pool information	Data structure.	Members include: • LocalVRF. • StartIpv4Address. • EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
GlobalInfo	External network address information	Data structure.	Members include: • GlobalVRF. • Ipv4Address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Ipv4PrefixLength.	
GlobalVRF	VRF of external address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An external network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the external network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for outbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all outgoing packets and the destination addresses of all incoming packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. The destination addresses of packets originating from external hosts to the internal are not translated. If you specify both an ACL and the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. If packets originating from external hosts to the internal are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO.	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the static NAT on the same

Column name	Column description	Column type	Data type and restrictions	Remarks
				address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the static NAT.In dual-system hot backup with load balancing, if the static NAT address and the VRRP backup group address are in the same network segment, you need to manually configure static NAT and VRRP binding.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
MatchingCount	Number of packets matching the NAT outbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT outbound static mapping statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/OutboundStaticObjMappings

This table contains information about object-group mappings for outbound static NAT.

XML structure

```
<NAT>
  <InboundStaticObjMappings>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalObjGrp></LocalObjGrp>
          </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <Disable></Disable>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </InboundStaticObjMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticObjMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalObjGrp.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group do not use this parameter.
LocalObjGrp	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: • GlobalVRF. • GlobalObjGrp.	N/A
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public Object Group, do not use this parameter.
GlobalObjGrp	GlobalObjGrp of an external address object	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalObjGrp
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO.	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
Disable	Whether the rule is enabled or disabled.	N/A	Boolean: • true—YES	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false—NO.	
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/StaticOnInterfaces

This table contains the interfaces where static NAT is enabled.

XML structure

```
<NAT>
  <StaticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableStatic></EnableStatic>
    </Interface>
  </StaticOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableStatic	Whether enable static NAT on the interface	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/ServerGroups

This table contains the information of NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroups>
    <ServerGroup>
      <GroupNumber></GroupNumber>
    </ServerGroup>
  </ServerGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroups
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	The internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/ServerGroupMembers

This table contains the information of members in the NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
      <Sessions></Sessions>
    </GroupMember>
  </ServerGroupMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4Address	IP address of an internal server.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
PortNumber	Port number of an internal server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Weight	Weight of the internal server	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
Sessions	Connections to the members in the server group	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

NAT/ServerOnInterfaces

This table contains information about mappings between the IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <ServerOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalStartIpv4Address></LocalStartIpv4Address>
        <LocalEndIpv4Address></LocalEndIpv4Address>
        <LocalStartPortNumber></LocalStartPortNumber>
        <LocalEndPortNumber></LocalEndPortNumber>
        <LocalSrvGroupNumber></LocalSrvGroupNumber>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <VRID></VRID>
      <Description></Description>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <WhetherPersistConfig></WhetherPersistConfig>
    </Interface>
  </ServerOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerOnInterfaces

Item	Description
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: • GlobalVRF. • GlobalStartIpv4Address. • GlobalEndIpv4Address. • GlobalStartPortNumber. • GlobalEndPortNumber. • GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port	Index	Unsigned integer.	The *GlobalStartPortNumber*

Column name	Column description	Column type	Data type and restrictions	Remarks
	number range		Value range: 1 to 65535.	cannot be greater than the *GlobalEndPortNumber*. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index, The IP address of the interface is used as the NAT address for the internal server.	Index	Unsigned integer.	Only loopback interfaces and " IfIndex " are supported. The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalStartIpv4Address. • LocalEndIpv4Address. • LocalStartPortNumber. • LocalEndPortNumber. • LocalSrvGroupNumber.	The number of addresses in the range must match that of the external port number range.
LocalVRF	VRF of internal address	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
LocalStartIpv4Address	Start IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalEndIpv4	End IPv4 address of the	N/A	String, dotted decimal	Example: 1.1.1.6.

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	internal address pool		notation.	
LocalStartPortNumber	Start port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	The *LocalStartPortNumber* cannot be greater than the *LocalEndPortNumber*. If they are the same, the internal port number range has only one port. The internal port number range can include a maximum of 255 ports.
LocalEndPortNumber	End port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalSrvGroupNumber	The internal server group to which the internal server belongs.	N/A	Unsigned integer. Value range: 0 to 65535.	With this parameter, the load sharing NAT Server feature is configured. Support for the value range depends on the device model.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you specify an ACL, only packets permitted by the ACL can be translated by using the mapping. Support for this parameter depends on the device model.
Reversible	Whether reverse address translation is supported.	N/A	Boolean: • true—YES. • false—NO.	Reverse address translation applies to connections actively initiated by internal hosts to the external host. It uses existing mappings to translate the destination address for packets of these connections if the packets are permitted by ACL reverse matching.
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup

Column name	Column description	Column type	Data type and restrictions	Remarks
				group to bind to the NAT server. In dual-system hot backup with load balancing, if the address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the VRRP.
Description	Rule description	N/A	String, case sensitive. Length: 1 to 63 characters.	N/A
MatchingCount	Number of packets matching the NAT server	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT server statistics	N/A	Boolean: • true—YES • false—NO.	N/A
RuleName	Name of the NAT server	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is the lowest.
WhetherPersistConfig	Whether to save the configuration	N/A	Boolean: • true—YES • false—NO.	N/A

The following table describes the address-port mappings between an external network and an internal network for NAT Server. The mappings which is not listed is not supported and will be treated as configuration conflict.

Noun explanation:

Consecutive external addresses: *GlobalEndIpv4Address* is greater than *GlobalStartIpv4Address*.

Single external address: *GlobalEndIpv4Address* is equal to *GlobalStartIpv4Address*, or *GlobalEndIpv4Address* is null.

Consecutive external ports: *GlobalEndPortNumber* is greater than *GlobalStartPortNumber*.

Single external port: *GlobalEndPortNumber* is equal to *GlobalStartPortNumber*, or *GlobalEndPortNumber* is null.

Consecutive internal addresses: *LocalEndIpv4Address* is greater than *LocalStartIpv4Address*.

Single internal address: *LocalEndIpv4Address* is equal to *LocalStartIpv4Address*, or *LocalEndIpv4Address* is null.

Consecutive internal ports: *LocalEndPortNumber* is greater than *LocalStartPortNumber*.

Single internal port: *LocalEndPortNumber* is equal to *LocalStartPortNumber*, or *LocalEndPortNumber* is null.

External network	Internal network
An external address	An internal address.
An external address and an external port number	An internal address and an internal port number.
An external address and *N* consecutive external port numbers	An internal address and an internal port number.
	N consecutive internal addresses and an internal port number.
	An internal address and *N* consecutive internal port numbers.
N consecutive external addresses	An internal address.
	N consecutive internal addresses.
N consecutive external addresses and an external port number	An internal address and an internal port number.
	N consecutive external addresses and an internal port number.
	An internal address and *N* consecutive internal port numbers.
An external address and an external port number	An internal server group.
An external address and *N* consecutive external port numbers	
N consecutive external addresses and an external port number	

NAT/PortBlockGroups

This table contains the information about NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <VRID></VRID>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	• Master/Backup mode: No VRRP keyword is required. • Load sharing method: Under normal circumstances, there is no need to configure VRRP keywords. The system automatically binds the backup group with the smallest VRID on the same network segment as the virtual IP address and NAT port group address so that the traffic is transmitted on the active device in the backup group. When multiple VRRP backup groups exist at the same time, you can configure the VRRP keyword to explicitly guide the flow of traffic and enable traffic to be transmitted on the active device in the specified VRRP backup group.
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	When you set a port block size, give consideration to the number of private IP addresses, the number of public IP addresses, and the port range. The

				port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	Set *GlobalStartPort* and *GlobalEndPort* to their default values to define a default port range. The *GlobalStartPort* cannot be greater than the *GlobalEndPort*. The port range must include all ports that the public IP addresses use for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

NAT/PortBlockGroupLocalMembers

This table contains the information of private IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupLocalMembers>
    <LocalMember>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </LocalMember>
  </PortBlockGroupLocalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupLocalMembers
Table type	Multi-instance table
Row name	LocalMember

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple private IP address members in a port block group, but they cannot overlap. Private IP address members in different port block groups can overlap. For static NAT444, in a port block group, the number of private IP addresses cannot be larger than the number of assignable port blocks. Otherwise, some private IP addresses cannot obtain port blocks.
VRF	VRF to which the private IP address member belong	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the private IP address member does not belong to any VPN.
StartIpv4Address	Start IPv4 address of the private IP address member	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the private IP address member	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specifies only one private IP address.

NAT/PortBlockGroupGlobalMembers

This table contains the informations of public IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupGlobalMembers>
```

```
    <GlobalMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GlobalMember>
  </PortBlockGroupGlobalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupGlobalMembers
Table type	Multi-instance table
Row name	GlobalMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a port block group, but they cannot overlap. Public IP address members in different port block groups can overlap. But the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in its port range by the port block size.
StartIpv4Address	Start IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the

				same, you specifies only one public IP address.

NAT/OutboundPortBlockOnInterfaces

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```
<NAT>
  <OutboundPortBlockOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <GroupNumber></GroupNumber>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Interface>
  </OutboundPortBlockOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundPortBlockOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can apply multiple port block groups to one interface. After you apply a port block group to an interface, the system

				automatically computes the IP-to-port block mappings and creates entries for them. When a private IP address accesses the public network, the private IP address is translated to the mapped public IP address and the ports are translated to ports in the mapped port block.
MatchingCount	Number of packets matching the NAT portblock group.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Counting	Whether open the switch of matching the NAT portblock group statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/DNSMappings

This table contains the mappings about the domain name of an internal server to the public IP address, public port number, and protocol type of the server.

XML structure

```
<NAT>
  <DNSMappings>
    <MapInfo>
      <Domain></Domain>
      <Protocol></Protocol>
      <Ipv4Address></Ipv4Address>
      <IfIndex></IfIndex>
      <PortNumber></PortNumber>
    </MapInfo>
  </DNSMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DNSMappings
Table type	Multi-instance table
Row name	MapInfo

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The domain name of an internal server.	Index	String, case-sensitive. Length: 1 to 253 characters.	A domain name is a dot-separated that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can contain at most 253 characters, and each separated string contains no more than 63 characters.
Protocol	The type of the protocol used by the internal server.	N/A	Enumeration: • 6—TCP. 17—UDP.	This column is affirmatively chosen item.
Ipv4Address	The public IP address used by the internal server to provide services to the external network.	N/A	String, dotted decimal notation.	Example: 1.1.1.6. The Ipv4Address and IfIndex are two configuration modes, only one mode must be configured.
IfIndex	Interface index	N/A	Unsigned integer.	Enables Easy IP to use the IP address of the interface specified by its index as the public address of the internal server. Only loopback interfaces are supported.
PortNumber	The public port number used by the internal server to provide services to the external network.	N/A	Unsigned integer. Value range: 1 to 65535.	This column is affirmatively chosen item.

NAT/ALG

This table contains the protocols for which NAT with ALG is enabled.

XML structure

```
<NAT>
```

```
  <ALG>
    <ALGInfo>
      <AppID></AppID>
      <AppName></AppName>
      <EnableALG></EnableALG>
    </ALGInfo>
  </ALG>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 14. • 0—DNS • 1—FTP. • 2—ICMP-ERROR • 3—H.323 • 4—SIP • 5—TFTP • 6—RTSP • 7—SQLNET • 8—XDMCP • 9—ILS • 10—MGCP • 11—NBT • 12—PPTP • 13—RSH • 14—SCCP	Use ALG with NAT to translate the payload information to ensure the establishment of data connections. NAT translates IP address and port information in packet headers, and ALG processes the fields in application layer payloads. The packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.

AppName	Protocol name for which NAT with ALG is enabled.	N/A	String, Case-insensitive. Length: 1 to 63 characters.	N/A
EnableALG	Whether enable NAT with ALG.	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/EIM

This table is about the mapping behavior mode for PAT.

XML structure

```
<NAT>
  <EIM>
    <EnableEIM></EnableEIM>
    <ACLNumber></ACLNumber>
  </EIM>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	EIM
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableEIM	Whether enable **Endpoint-Independent Mapping** (EIM).	N/A	Boolean: • true—YES • false—NO.	•**Endpoint-Independent Mapping**—EIM uses the same IP and port mapping for packets from the same source and port to any destination IP and port. An EIM entry is generated to record the IP and port mapping. This behavior allows packets from any external host to access the internal user by

				using the NAT address and port. This behavior facilitates communication among hosts that connect to different NAT gateways. •**Address and Port-Dependent Mapping**—Uses different IP and port mappings for packets with the same source IP and port to different destination IP addresses and ports. This behavior does not allow packets from an external host to be sent to any NAT address and port unless the internal host has previously sent a packet of the same protocol to that external host. This behavior is secure but inconvenient for communication among hosts connecting to different NAT gateways. This configuration takes effect only on outbound PAT. Address and Port-Dependent Mapping always applies to inbound PAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	Applies the NAT mapping behavior to packets that are permitted by the ACL. If no ACL is specified, the Endpoint-Independent Mapping applies to all packets. This field is available only when *EnableEIM* is set to true.

NAT/HairpinOnInterfaces

This table contains the interfaces where hairpin is enabled.

XML structure

```
<NAT>
  <HairpinOnInterfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <EnableHairpin></EnableHairpin>
    </Interface>
  </HairpinOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	HairpinOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableHairpin	Whether enable hairpin on the interface	N/A	Boolean: • true—YES • false—NO.	NAT hairpin allows internal hosts behind the same NAT device to access each other only after they use the NAT addresses. NAT hairpin functions on the interface that connects the internal network and translates the source and destination IP addresses of a packet on the interface. NAT hairpin typically operates with NAT Server, outbound dynamic NAT, or outbound static NAT.

NAT/LogRule

This table contains NAT log configurations.

XML structure

```
<NAT>
  <LogRule>
    <GlobalLog>
      <EnableGlobalLog></EnableGlobalLog>
      <ACLNumber></ACLNumber>
    </GlobalLog>
      <EnableFlowBeginLog></EnableFlowBeginLog>
      <EnableFlowEndLog></EnableFlowEndLog>
    <ActiveFlowLog>
      <EnableActiveFlowLog></EnableActiveFlowLog>
      <Interval></Interval>
    </ActiveFlowLog>
    <EnablePortBlockAssignLog></EnablePortBlockAssignLog>
    <EnablePortBlockWithDrawLog></EnablePortBlockWithDrawLog>
    <EnableAlarmLog></EnableAlarmLog>
  </LogRule>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	LogRule
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLog	Global log configuration.	Data structure.	Members include: • EnableGlobalLog. • ACLNumber.	N/A
EnableGlobal Log	Whether enable the NAT logging function.	N/A	Boolean: • true—YES • false—NO.	Other column takes effect only after you enable NAT logging.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive.	If an ACL is specified, this command logs NAT flows that match the permit statements in the ACL. If no ACL is specified, this

			Length: 1 to 63 characters.	configuration logs all NATed data flows. This field is available only when *EnableGlobalLog* is set to true.
EnableFlowBeginLog	Whether enable logging for NAT session establishment events.	N/A	Boolean: • true—YES • false—NO	When a NAT session is established, this function outputs a NAT log.
EnableFlowEndLog	Whether enable logging for NAT session removal events.	N/A	Boolean: • true—YES • false—NO.	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: • EnableActiveFlowLog. • Interval.	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: • true—YES • false—NO.	Configure this column must also configure the *Interval*.
Interval	The interval for logging active NAT flows (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	Configure *EnableActiveFlowLog* to true to configure this item.
EnablePortBlockAssignLog	Whether enable logging for port block assigning.	N/A	Boolean: • true—YES • false—NO.	N/A
EnablePortBlockWithDrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: • true—YES • false—NO.	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/HotBackup

This table contains NAT hot backuping configurations.

XML structure

```
<NAT>
  <HotBackup>
    <EnablePortBlock></EnablePortBlock>
  </HotBackup>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	HotBackup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnablePortBlock	Whether enable hot backuping for port block.	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/Statistics

This table contains NAT statistics.

XML structure

```
<NAT>
  <Statistics>
    <StatisticInfo>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SessionCount></SessionCount>
      <NatSessionRate></NatSessionRate>
      <EIMCount></EIMCount>
      <InboundNoPATCount></InboundNoPATCount>
      <OutboundNoPATCount></OutboundNoPATCount>
      <BandwidthActualUseRatio></BandwidthActualUseRatio>
      <PortBlock>
        <StaticCount></StaticCount>
        <ActiveStaticCount></ActiveStaticCount>
        <DynamicCount></DynamicCount>
        <ActiveDynamicCount></ActiveDynamicCount>
      </PortBlock>
    </StatisticInfo>
```

```
  </Statistics>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Statistics
Table type	Multi-instance table
Row name	StatisticInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SessionCount	Number of NAT session entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
NatSessionRate	Establishment rate of NAT sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
EIMCount	Number of EIM entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
InboundNoPATCount	Number of inbound NO-PAT entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
OutboundNoPATCount	Number of outbound NO-PAT entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
BandwidthActualUseRatio	Value of the actual bandwidth usage	N/A	Unsigned integer. Value range: 0 to 100.	N/A
PortBlock	Statistics about port block.	Data structure.	Members include: • StaticCount. • ActiveStaticCount. • DynamicCount. • ActiveDynamicCount	N/A
StaticCount	Number of static	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IP-to-port block mapping entries.		Value range: 0 to 2^{64} - 1.	
ActiveStaticCount	Number of dynamic IP-to-port block mapping entries that can be created.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	It equals the number of port blocks for dynamic assignment, including those have been assigned and those not assigned yet.
DynamicCount	Number of static IP-to-port block mapping entries that are in current use.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ActiveDynamicCount	Number of dynamic IP-to-port block mapping entries that have been created.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	It equals the number of assigned port blocks.

NAT/StaticLoadBalance

This table contains NAT static load balance configurations.

XML structure

```
<NAT>
  <StaticLoadBalance>
    <EnableStaticLoadBalance></EnableStaticLoadBalance>
  </StaticLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticLoadBalance
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaticLoadBalance	Whether enable load balance function for NAT static configure.	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/Capabilities

This table contains NAT support special capabilities.

XML structure

```
<NAT>
  <Capabilities>
    <OutboundEasyIP></OutboundEasyIP>
  </Capabilities>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutboundEasyIP	Whether support EasyIP for NAT dynamic outbound configure.	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/ReplyRedirectOnInterfaces

This table contains the interfaces where redirect reply-route is enabled.

XML structure

```
<NAT>
  <ReplyRedirectOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableReplyRedirect></EnableReplyRedirect>
    </Interface>
  </ReplyRedirectOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ReplyRedirectOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
EnableReplyRedirect	Whether enable redirect reply-route on the interface	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/NATPolicy

This table contains information about NAT policy.

XML structure

```
<NAT>
  <NatPolicy>
    <Policy></Policy>
  </NatPolicy>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	View of the Nat policy	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/PolicyRules

This table contains information about NAT policy rules.

XML structure

```
<NAT>
  <PolicyRules>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </PolicyRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String.case insensitive. Length:1 to 63 characters.	N/A

NAT/PolicyRuleMembers

This table contains information about the NAT policy rule members.

XML structure

```
<NAT>
  <PolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <Description></Description>
      <OutboundInterface></OutboundInterface>
      <SrcObjGrpList>
        <SrcIpObjGroup></SrcIpObjGroup>
      </SrcObjGrpList>
      <DstObjGrpList>
        <DstIpObjGroup></DstIpObjGroup>
      </DstObjGrpList>
      <SrvObjGrpList>
        <ServiceObjGroup></ServiceObjGroup>
      </SrvObjGrpList>
      <Action></Action>
      <AddrGroupNumber></AddrGroupNumber>
      <AddrGroupName></AddrGroupName>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
```

```
      <Disable></Disable>
      <Counting></Counting>
      <MatchingCount></MatchingCount>
    </Rule>
  </PolicyRuleMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMembers
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description		Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
Description	Rule description	N/A	String. case-sensitive. Length: 1 to 63 characters.	N/A
OutboundInterface	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrcObjGrpList	Source object group of the policy rule	Data structure	Members include: • SrcIpObjGroup.	N/A

Column name	Column description		Data type and restrictions	Remarks
SrcIpObjGroup	Name of the Source IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A
DstObjGrpList	Destination object group of the policy rule	Data structure	Members include: • DstIpObjGroup.	N/A
DstIpObjGroup	Name of the Destination IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A
SrvObjGrpList	Service object group of the policy rule	Data structure	Members include: • ServiceIpObjGroup.	N/A
ServiceObjGroup	Name of the Service object group	N/A	String. case insensitive.. Length: 1 to 31 characters.	N/A
Action	Action on packetsmatching the rule	N/A	Enumeration: 0—NO-PAT. 1—PAT. 2—EasyIP. 3—NO-Nat.	You cannot specify an action when you remove or delete a rule . You must specify an action when you replace a rule.or when you merge or create a rule that does not exist. The address of the interface will be used when you chose the EasyIp. Choose NO-Nat when Perform no address translation.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	When you choose the EasyIP mode,The value of the column must be invalid. An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes.
AddrGroupName	NAT address group name	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A

Column name	Column description		Data type and restrictions	Remarks
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO.	Support for this keyword depends on the device model. This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: • true—YES • false—NO.	This column can only be configured in PAT mode and EasyIP mode.
Disable	Disable the rule.	N/A	Boolean: • true—YES • false—NO.	N/A
Counting	Enabling stauts of NAT policy match counting	N/A	Boolean: • true—YES • false—NO.	N/A
MatchingCount	Number of packets matching the NAT policy.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

NAT/PolicyRuleMemberSrcObj

This table contains information about the NAT policy rule source object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
      </SrcObjGrpList>
```

```
    </Rule>
  </PolicyRuleMemberSrcObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberSrcObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrcObjGrpList	Policy rule source object group	Data structure	Members include: • SrcIpObj.	N/A
SrcIpObj	Name of the Source IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberDstObj

This table contains information about the NAT policy rule destination object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
      </DstObjGrpList>
    </Rule>
  </PolicyRuleMemberDstObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberDstObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
DstObjGrpList	Policy rule destination object group	Data structure	Members include: • DstIpObj.	N/A
DstIpObj	Name of the Destination IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberSrvObj

This table contains information about the NAT policy rule service object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvObjGrpList>
        <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </PolicyRuleMemberSrcObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT

Table name	PolicyRuleMemberSrvObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrvObjGrpList	Policy rule service object group	Data structure	Members include: • SrvObj.	N/A
SrvObj	Name of the Service object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/DestinationNatOnInterfaces

This table contains information about the NAT acl server.

XML structure

```
<NAT>
  <DestinationNatOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalIpv4Address></LocalIpv4Address>
        <LocalPortNumber></LocalPortNumber>
      </LocalInfo>
      <Action></Action>
      <VRID></VRID>
      <Disable></Disable>
      <Description></Description>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </DestinationNatOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DestinationNatOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	index	Unsigned integer. Value range: 2000 to 3999	N/A
LocalInfo	Internal network address information	Data structure	Members include: • LocalVRF. • LocalIpv4Address. • LocalIpv4Address..	N/A
LocalVRF	VRF of internal address	N/A	String. case-sensitive Length: 1 to 31 characters.	N/A
LocalIpv4Address	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPortNumber	An internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the NAT server. In dual-system hot backup with load balancing, if the

Column name	Column description	Column type	Data type and restrictions	Remarks
				address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the VRRP.
Disable	Disable the rule.	N/A	Boolean: • true—YES • false—NO.	N/A
Description	Rule description	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the NAT ACLserver	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is the lowest.

NAT/ObjServer

This table contains information about the NAT object server.

XML structure

```
<NAT>
  <ObjServer>
    <Rule>
      <RuleName></RuleName>
      <IfIndex></IfIndex>
      <DstObjGrpList>
        <DstObjGrp></DstObjGrp>
      </DstObjGrpList>
      <SrvObjGrpList>
        <SrvObjGrp></SrvObjGrp>
      </SrvObjGrpList>
      <Action></Action>
      <LocalInfo>
        <LocalIP></LocalIP>
        <LocalPort></LocalPort>
      </LocalInfo>
      <VRID></VRID>
```

```
      <Disable></Disable>
      <Counting></Counting>
      <MatchingCount></MatchingCount>
      <TotalCount></TotalCount>
    </Rule>
  </ObjServer>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ObjServer
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive.Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DstObjGrpList	Destination object group in the rule	Data structure	Members include: • DstObjGrp.	N/A
DstObjGrp	Name of the destination object group	N/A	String, case in sensitive. Length: 1 to 31 characters	The column is repeatable. The maximum is 5.
SrvObjGrpList	Service object group in the rule	Data structure	Members include: • SrvObjGrp.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrvObjGrp	Name of the service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 1.
Action	Action on packets matching the rule	N/A	Enumeration 0—net-to-single.	You cannot specify an action when you remove or delete a rule . You must specify an action when you replace a rule.or when you merge or create a rule that does not exist.
LocalInfo	Internal network address information	Data structure	Members include: • LocalIP. • LocalPort.	N/A
LocalIP	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPort	Internal port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the NAT server on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the NAT server. In dual-system hot backup with load balancing, if the address of the NAT server and the address of the VRRP backup group are on the same network segment, manually configure the binding between the NAT server and the VRRP.
Disable	Disable the rule	N/A	Boolean: • true—YES • false—NO.	N/A
TotalCount	Total number of the NAT object server rule	N/A	Unsigned integer.	The number of query result or total number of the server configurations.
MatchingCount	Number of packets matching obj	N/A	Unsigned integer. Value range: 0 to 2^{32}- 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server			
Counting	Whether enabling counting NAT obj server statistics	N/A	Boolean: • true—YES • false—NO.	N/A

NAT/Nat66

This table contains information about the NAT66 prefix

XML structure

```
<NAT>
  <Nat66>
    <Prefix>
      <IfIndex></IfIndex>
      <TransMode></TransMode>
      <OrigPrefix></OrigPrefix>
      <OrigPrefixLen><OrigPrefixLen>
      <TransPrefix></TransPrefix>
      <TransPrefixLen></TransPrefixLen>
      <TotalNum></TotalNum>
    </Prefix>
  </Nat66>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Nat66
Table type	Multi-instance table
Row name	Prefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
TransMode	Translate mode	Index	Enumeration: 0—SNAT. 1—DNAT	N/A
OrigPrefix	Original Prefix	Index	Hexadecimal string, colon-separated.	N/A
OrigPrefixLen	The length of OrigPrefix	Index	Unsigned integer. Value range: 1 to 128	N/A
TransPrefix	Translate Prefix	Index	Hexadecimal string, colon-separated.	N/A
TransPrefixLen	The length of transprefix	Index	Unsigned integer. Value range: 1 to 128	N/A
TotalNum	Total num of data	Index	Unsigned integer.	N/A

NAT/Nat66VRF

This table contains information about the NAT66 prefix

XML structure

```
<NAT>
  <Nat66>
    <Prefix>
      <IfIndex></IfIndex>
      <TransMode></TransMode>
      <OrigPrefix></OrigPrefix>
      <OrigPrefixLen><OrigPrefixLen>
      <TransPrefix></TransPrefix>
      <TransPrefixLen></TransPrefixLen>
      <OrigVRF></OrigVRF>
      <TransVRF><TransVRF>
      <OrigPort><OrigPort>
      <Protocol><Protocol>
      <TransPort><TransPort>
      <TotalNum></TotalNum>
```

```
    </Prefix>
  </Nat66>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Nat66VRF
Table type	Multi-instance table
Row name	Prefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
TransMode	Translate mode	Index	Enumeration: 0—SNAT. 1—DNAT	N/A
OrigPrefix	Original Prefix	Index	Hexadecimal string, colon-separated.	N/A
OrigPrefixLen	The length of OrigPrefix	Index	Unsigned integer. Value range: 1 to 128	N/A
TransPrefix	Translate Prefix	Index	Hexadecimal string, colon-separated.	N/A
TransPrefixLen	The length of transprefix	Index	Unsigned integer. Value range: 1 to 128	N/A
OrigVRF	Original VPN	Index	String. Length: 1 to 31 characters..	N/A
TransVRF	Translate VPN	N/A	String. Length: 1 to 31 characters..	N/A
Protocol	Protocol type	N/A	TransMode ● tcp ● udp	N/A
OrigPort	Original port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TransPort	Translate port	N/A	Unsigned integer.	N/A
TotalNum	Total num of data	N/A	Unsigned integer.	N/A

NAT/IPPoolAddrUsage

This table contains information about the NAT ip-pool usaged.

XML structure

```
<NAT>
  <IPPoolAddrUsage>
    <IPPoolUsage>
      <IPPoolName></IPPoolName>
      <TotalIPAddrCount></TotalIPAddrCount>
      <UsedIPAddrCount></UsedIPAddrCount>
      <UnusedIPAddrCount></UnusedIPAddrCount>
      <AddrUsage></AddrUsage>
    </IPPoolUsage>
  </IPPoolAddrUsage>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	IPPoolAddrUsage
Table type	Multi-instance table
Row name	IPPoolUsage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPPoolName	NAT ip-pool name	Index	String. Length: 1 to 31 characters..	N/A
TotalIPAddrCount	Total IP count of NAT global addresses in	N/A	Unsigned integer. Value range: 0 to 65536.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ip-pool			
UsedIPAddrCount	Used IP count of NAT global addresses in ip-pool	N/A	Unsigned integer. Value range: 0 to 65536.	N/A
UnusedIPAddrCount	Unused IP count of NAT global addresses in ip-pool	N/A	Unsigned integer. Value range: 0 to 65536.	N/A
AddrUsage	Usage of NAT global addresses in ip-pool	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NAT/InstAddrGroupUsage

This table contains information about the NAT instance address-group usaged.

XML structure

```
<NAT>
  <InstAddrGroupUsage>
    <AddrGroupUsage>
      <InstanceName></InstanceName>
      <AddrGroupNumber></AddrGroupNumber>
      <InstanceID></InstanceID>
      <TotalIPAddrCount></TotalIPAddrCount>
      <UsedIPAddrCount></UsedIPAddrCount>
      <UnusedIPAddrCount></UnusedIPAddrCount>
      <Usage></Usage>
    </AddrGroupUsage>
  </InstAddrGroupUsage>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InstAddrGroupUsage
Table type	Multi-instance table
Row name	AddrGroupUsage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	NAT Instance name	Index	String. Length: 1 to 31 characters..	N/A
AddrGroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
InstanceID	NAT Instance ID	N/A	Unsigned integer. Value range: 0 to 127.	N/A
TotalIPAddrCount	Total IP count of NAT addresses in address group	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UsedIPAddrCount	Used IP count of NAT addresses in address group	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UnusedIPAddrCount	Unused IP count of NAT addresses in address group	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Usage	Resource usage of NAT addresses in address group	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NAT/InstAddrGroupMemberUsage

This table contains information about address member of the NAT instance address-group usaged.

XML structure

```
<NAT>
  <InstAddrGroupMemberUsage>
    <InstAddrGroup>
      <InstanceName></InstanceName>
      <AddrGroupNumber></AddrGroupNumber>
      <InstanceID></InstanceID>
      <MemberUsage>
        <AddrMemberStartIP></AddrMemberStartIP>
        <AddrMemberEndIP></AddrMemberEndIP>
        <AddrMemberIPMask></AddrMemberIPMask>
        <AddrMemberUsage></AddrMemberUsage>
      </MemberUsage>
    </InstAddrGroup>
  </InstAddrGroupMemberUsage>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	InstAddrGroupMemberUsage
Table type	Multi-instance table
Row name	InstAddrGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	NAT Instance name	Index	String. Length: 1 to 31 characters..	N/A
AddrGroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
InstanceID	NAT Instance ID	N/A	Unsigned integer. Value range: 0 to 127.	N/A
MemberUsage	Address group member	Data structure	Members include: • AddrMemberStartIP. • AddrMemberEndIP. • AddrMemberIPMask. • AddrMemberUsage.	N/A
AddrMemberStartIP	Start IPv4 address of the address group member	N/A	IPV4:String, dotted decimal notation.	IPv4 example: 1.1.1.1.
AddrMemberEndIP	End IPv4 address of the address group member	N/A	IPV4:String, dotted decimal notation.	IPv4 example: 1.1.1.1.
AddrMemberIPMask	IPv4 address mask of the address group member	N/A	String, dotted decimal notation.	Example: 255.255.255.0.
AddrMemberUsage	Usage of NAT addresses in address group member	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NAT/NatVrrpList

This table contains information about NAT IPv4 VRRP.

XML structure

```
<NAT>
  <NatVrrpList>
    <VrrpInfo>
      <VrrpId></VrrpId>
      <IfIndex></IfIndex>
      <Status></Status>
    </VrrpInfo>
  </NatVrrpList>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatVrrpList
Table type	Multi-instance table
Row name	VrrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrrpId	Identifier of the virtual router	Index	Unsigned integer. Value range: 1 to 255.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Only the following interfaces are supported: • Local VA interfaces. • Global VA interfaces. • Layer 3 interfaces except loopback, null, FC, FCB, and encrypt interfaces.
Status	Status of the device	N/A	Unsigned integer • **0**—standby. • **1**—active.	N/A

NAT/NatVrrp6List

This table contains information about NAT IPv6 VRRP.

XML structure

```
<NAT>
  <NatVrrp6List>
    <VrrpInfo>
      <VrrpId></VrrpId>
      <IfIndex></IfIndex>
      <Status></Status>
    </VrrpInfo>
  </NatVrrp6List>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatVrrp6List
Table type	Multi-instance table
Row name	VrrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrrpId	Identifier of the virtual router	Index	Unsigned integer. Value range: 1 to 255.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Only the following interfaces are supported: • Local VA interfaces. • Global VA interfaces. • Layer 3 interfaces except loopback, null, FC, FCB, and encrypt interfaces.
Status	Status of the device	N/A	Unsigned integer • **0**—standby. • **1**—active.	N/A

NAT/LinkSwitchReSession

This table contains information about the recreate NAT sessions upon link switchover

XML structure

```
<NAT>
  <LinkSwitchReSession>
    <Enable></Enable>
  </LinkSwitchReSession>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	LinkSwitchReSession
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	switchover	column	Boolean: • **true**—Yes • **false**—No.	NAT sessions upon link switchover

NAT/ StaticMappings

This table contains information about the static NAT mapping table.

XML structure

```
<NAT>
  <StaticMappings>
    <Mapping>
      <MappingMode></MappingMode>
      <OrigInfo>
        <OrigVRF></OrigVRF>
```

```
      <StartIp></StartIp>
      <EndIp></EndIp>
      <OrigObjGrp></OrigObjGrp>
    </OrigInfo>
    <TransInfo>
      <TransVRF></TransVRF>
      <IpAddress></IpAddress>
      <IpPrefixLength></IpPrefixLength>
      <TransObjGrp></TransObjGrp>
    </TransInfo>
    <ACLNumber></ACLNumber>
    <Reversible></Reversible>
    <VRID></VRID>
    <RuleName></RuleName>
    <RulePriority></RulePriority>
    <Disable></Disable>
    <MatchingCount></MatchingCount>
    <Counting></Counting>
    <Description></Description>
    <RuleTotalCount></ RuleTotalCount >
  </Mapping>
 </StaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT.
Table name	StaticMappings.
Table type	Multi-instance table.
Row name	Mapping.
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mapping Mode	Direction of the Static Nat mode	Index	Enumeration • **0**—Inbound • **1**—Outbound.	N/A
OrigInfo	Network address pool information	Data structure	Members include: • OrigVRF.	StartIp and EndIp are a pair, at the same time

	before translation		• StartIp. • EndIp. • OrigObjGrp	OrigObjGrp cannot exist with this pair. EndIp is optional when you configure one-to-one static mapping.
OrigVRF	VRF of address pool before translation	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIp	Start IPv4 address of an internal address pool before translation	Index	String, dotted decimal notation.	IPv4 Example: 1.1.1.1. The StartIp cannot be higher than the EndIp. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIp	End IPv4 address of the address pool before translation	Index	String, dotted decimal notation.	IPv4 Example: 1.1.1.6.
OrigObjGrp	Name of the IPv4 object group before translation	Index	String, case-sensitive. Length: 1 to 63 characters.	When you choose the Address Group mode, the value of the column can only be configured.
TransInfo	Network address information after translation	Data structure	Members include: • TransVRF. • IpAddress. • IpPrefixLength. • TransObjGrp.	If OrigInfo uses StartIp and EndIp or OrigObjGrp, the TransInfo must be same value.
TransVRF	VRF of address after translation	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
IpAddress	An network IPv4 address after translation	Index	String, dotted decimal notation.	IPv4 Example: 1.1.1.1.
IpPrefixLength	Prefix length of the network address after translation	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for static NAT.
TransObjGrp	Name of the IPv4 object group after translation	Index	String, case-sensitive. Length: 1 to 63 characters.	When you choose the Address Group mode, the value of the column can only be configured.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	If you do not specify an ACL, the source addresses of all outgoing packets and the destination addresses of all incoming packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. The destination addresses of packets originating from

				external hosts to the internal are not translated. If you specify both an ACL and the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. If packets originating from external hosts to the internal are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • **true**—Yes • **false**—No.	Support for this keyword depends on the device model. This column can only be configured when *ACLNumber* is also configured.
VRID	Identifier of the virtual router	N/A	Unsigned integer. Value range: 1 to 255.	Because the system automatically binds the static NAT on the same address segment to the VRRP backup group with the smallest VRID, in the active/standby backup mode, you do not need to manually configure the VRRP backup group to bind to the static NAT. In dual-system hot backup with load balancing, if the static NAT address and the VRRP backup group address are in the same network segment, you need to manually configure static NAT and VRRP binding.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Disable	Enabling status of the static mapping	N/A	Boolean: • **true**—Yes • **false**—No	N/A

Description	Rule description	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Matching Count	Total number of the static nat configure	N/A	Unsigned integer.	N/A
Counting	Enabling status of rule match counting	N/A	Boolean: • **true**—Yes • **false**—No	N/A
RuleTotal Count	Total rule number of the Static nat.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/MAP

This table contains NAT MAP configurations.

XML structure

```
<NAT>
  <MAP>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </MAP>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	MAP
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index or name of tunnel interface for MAP.
Enable	Whether enable NAT address translation for	N/A	Boolean: • true—YES	N/A

	map.		• false—NO.	

Configuration/Profiles/NatProfileAddrGroups

This table contains information about NAT address groups in the profile view. For the information of Configuration and Profiles, please refer to “Comware Configuration NETCONF XML API Data Reference” document.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <NatProfileAddrGroups>
        <NatProfileAddrGroup>
          <GroupNumber></GroupNumber>
          <GroupName></GroupName>
        </NatProfileAddrGroup>
      </NatProfileAddrGroups>
    </Profile>
  </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileAddrGroups
Table type	Multi-instance table
Row name	NatProfileAddrGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
GroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	N/A

Configuration/Profiles/NatProfileAddrGroupMembers

This table contains information about the NAT address group members in the profile view. For the information of Configuration and Profiles, please refer to “Comware Configuration NETCONF XML API Data Reference” document.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <NatProfileAddrGroupMembers>
        <NatProfileAddrGroupMember>
          <GroupNumber></GroupNumber>
          <StartIpv4Address></StartIpv4Address>
          <EndIpv4Address></EndIpv4Address>
        </NatProfileAddrGroupMember>
      </NatProfileAddrGroupMembers>
    </Profile>
  </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileAddrGroupMembers
Table type	Multi-instance table
Row name	NatProfileAddrGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The *StartIpv4Address* cannot be greater than the *EndIpv4Address*. If they are the same, the group member has only

Column name	Column description	Column type	Data type and restrictions	Remarks
				one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

Configuration/Profiles/InterfacesProfileConfig/NatProfileInboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces in the profile view. For the information of Configuration and Profiles, please refer to “Comware Configuration NETCONF XML API Data Reference” document.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <InterfacesProfileConfig>
        <InterfaceProfileConfig>
          <InterfaceName></InterfaceName>
          <NatProfileInboundDynamicRules>
            <NatProfileInboundDynamicRule>
              <ACLNumber></ACLNumber>
              <AddrGroupNumber></AddrGroupNumber>
              <AddrGroupName></AddrGroupName>
              <VRF></VRF>
              <NoPAT></NoPAT>
              <Reversible></Reversible>
              <AutoAddRoute></AutoAddRoute>
              <RuleName></RuleName>
              <RulePriority></RulePriority>
              <Disable></Disable>
              <Description></Description>
              <Counting></Counting>
            </NatProfileInboundDynamicRule>
```

```
            </NatProfileInboundDynamicRules>
          </InterfaceProfileConfig>
        </InterfacesProfileConfig>
      </Profile>
    </Profiles>
</Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileInboundDynamicRules
Table type	Multi-instance table
Row name	NatProfileInboundDynamicRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	An ACL can be used by only one inbound dynamic NAT rule an interface.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configuration. It cannot be used by the NAT inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen item.
AddrGroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	The same address group number can only use one address group name, and different address group numbers cannot use the same address group name The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical

Column name	Column description	Column type	Data type and restrictions	Remarks
				bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO.	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO.	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether adds a route to the NAT address when address translation is performed for a packet.	N/A	Boolean: • true—YES • false—NO.	The output interface is the NAT interface and the next-hop is the source address before translation. If you do not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the

Column name	Column description	Column type	Data type and restrictions	Remarks
				priority is lowest.
Disable	Whether to enable this dynamic mapping	N/A	Boolean	If this parameter is not specified, the address translation mapping is enabled.
Description	Description of the dynamic mapping	N/A	String, Length: 1 to 63 characters.	Configuring the description information of the dynamic mapping. The description is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
Counting	Whether to enable the dynamic mapping counting	N/A	Boolean	Enable to count each first packet address translation This column can be null.

Configuration/Profiles/InterfacesProfileConfig/NatProfileOutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces in the profile view. For the information of Configuration and Profiles, please refer to “Comware Configuration NETCONF XML API Data Reference” document.

XML structure

```
<Configuration>
  <Profiles>
    <Profile>
      <Name></Name>
      <InterfacesProfileConfig>
        <InterfaceProfileConfig>
          <InterfaceName></InterfaceName>
          <NatProfileOutboundDynamicRules>
            <NatProfileOutboundDynamicRule>
              <ACLNumber></ACLNumber>
```

```
                <AddrGroupNumber></AddrGroupNumber>
                <AddrGroupName></AddrGroupName>
                <VRF></VRF>
                <NoPAT></NoPAT>
                <Reversible></Reversible>
                <PortPreserved></PortPreserved>
                <RuleName></RuleName>
                <RulePriority></RulePriority>
                <Disable></Disable>
                <Description></Description>
                <Counting></Counting>
              </NatProfileOutboundDynamicRule>
            </NatProfileOutboundDynamicRules>
          </InterfaceProfileConfig>
        </InterfacesProfileConfig>
      </Profile>
    </Profiles>
  </Configuration>
```

Table description

Item	Description
Feature name	NAT
Table name	NatProfileOutboundDynamicRules
Table type	Multi-instance table
Row name	NatProfileOutboundDynamicRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number.

Column name	Column description	Column type	Data type and restrictions	Remarks
				An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configurations. It cannot be used by the NAT outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen item.
AddrGroupName	NAT address group name	N/A	String. Length: 1 to 63 characters..	The same address group number can only use one address group name, and different address group numbers cannot use the same address group name The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO.	NO-PAT mode can't be configured without AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.

Column name	Column description	Column type	Data type and restrictions	Remarks
Reversible	Whether translates the destination address of a packet that originates from external hosts to the internal host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO.	This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: • true—YES • false—NO.	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.
Disable	Whether to enable this dynamic mapping	N/A	Boolean	If this parameter is not specified, the address translation mapping is enabled.
Description	Description of the dynamic mapping	N/A	String, Length: 1 to 63 characters.	Configuring the description information of the dynamic mapping. The description is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (|), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to enable the dynamic mapping counting	N/A	Boolean	Enable to count each first packet address translation This column can be null.

Contents

Comware 7 NAT NETCONF XML API Error Message Reference ····· 1

NAT/InboundDynamicRules ····· 1
NAT/OutboundDynamicRules ····· 1
NAT/ServerOnInterfaces ····· 2
NAT/InboundStaticMappings ····· 3
NAT/ OutboundStaticMappings ····· 4
NAT/AddrGroupMembers ····· 5
NAT/AddrGroups ····· 5
NAT/ PortBlockGroupLocalMembers ····· 6
NAT/PortBlockGroupGlobalMembers ····· 6
NAT/HotBackup ····· 6
NAT/OutboundDynamicRuleMove ····· 7

Comware 7 NAT NETCONF XML API Error Message Reference

NAT/InboundDynamicRules

Message	Explanation
The address group is already used by outbound dynamic NAT. 指定的地址组已经被出方向动态NAT引用。	An address group could not be used by outbound or inbound at the same time. 同一个地址池不能同时被inbound和outbound所引用。
The address group is already used by inbound PAT. 指定的地址组已经被入方向PAT模式的动态NAT引用。	An address group could not be used by PAT or NO-PAT at the same time. 同一个地址池不能同时被PAT和NO-PAT所引用。
The address group is already used by inbound NO-PAT. 指定的地址组已经被入方向NO-PAT模式的动态NAT引用。	An address group could not be used by PAT or NO-PAT at the same time. 同一个地址池不能同时被PAT和NO-PAT所引用。
An address group is required. 地址组为必选配置项。	This message means address group not be configured. 这个提示说明地址组没有被配置。
This device doesn't support inbound dynamic NAT rules. 当前设备不支持入方向动态NAT。	This message means device doesn't support inbound dynamic NAT rules. 这个提示说明当前设备不支持入方向动态NAT。

NAT/OutboundDynamicRules

Message	Explanation
The address group is already used by outbound dynamic NAT. 指定的地址组已经被出方向动态NAT引用。	An address group could not be used by outbound or inbound at the same time. 同一个地址池不能同时被inbound和outbound所引用。
The address group is already used by inbound PAT. 指定的地址组已经被入方向PAT模式的动态NAT引用。	An address group could not be used by PAT or NO-PAT at the same time. 同一个地址池不能同时被PAT和NO-PAT所引用。
The address group is already used by inbound NO-PAT. 指定的地址组已经被入方向NO-PAT模式的动态NAT引用。	An address group could not be used by PAT or NO-PAT at the same time. 同一个地址池不能同时被PAT和NO-PAT所引用。
Only one outbound dynamic NAT rule can be configured for the same flow on the interface. 配置的出方向动态NAT与接口已有配置冲突。	Same ACL has been configured for another outbound dynamic NAT rules on this interface. 当前接口下已经存在另一条ACL相同的出方向NAT规则。
PAT doesn't support reverse address translation. PAT模式的NAT不能配置反向地址转换。	PAT mode doesn't support reverse address translation. PAT模式下不支持反向地址转换。

NO-PAT doesn't support port number preservation. NO-PAT模式的NAT不能配置端口保持功能。	NO-PAT mode doesn't support port number preservation. NO-PAT模式下不支持端口保持功能。
NO-PAT doesn't support Easy IP. Easy IP方式下不能配置NO-PAT模式。	Easy IP and NO-PAT are mutually exclusive. Easy IP和NO-PAT是互斥的。
NO-PAT for outbound NAT doesn't take effect when the EIM mode with 3-tuple entries has been configured on the device. EIM模式下，NO-PAT方式的动态地址转换配置不生效。	NO-PAT entries cannot be created in EIM mode. 在EIM模式下，无法建立NO-PAT表项。

NAT/ServerOnInterfaces

Message	Explanation
The public address and port configuration overlaps with existing public address and port configuration on the interface. 指定的外网信息与接口上的已有外网信息配置重叠。	The public address and port already configured by another nat server rules. 同一个接口下已经存在该公网信息的NAT内部服务器配置。
End public address can't be smaller than start public address. 指定的外网结束地址不能小于起始地址。	Global end address could not less than global start address. 公网结束地址不能小于起始地址。
End public port number can't be smaller than start public port number. 指定的外网结束端口不能小于起始端口。	Global end port number could not less than global start port number. 公网结束端口不能小于起始端口。
End private address can't be smaller than start private address. 指定的内网结束地址不能小于起始地址。	Local end address could not less than local start address. 私网结束地址不能小于起始地址。
End private port number can't be smaller than start private port number. 指定的内网结束端口不能小于起始端口。	Local end port number could not less than local start port number. 私网结束端口不能小于起始端口。
Number of addresses in the public IP address range exceeded the limit. 指定的外网地址范围大小超过系统允许的最大值。	Difference between global end address and global start address is greater than 255. 公网结束地址和起始地址之差超过255。
Number of ports in the public port range exceeded the limit. 指定的外网端口范围大小超过系统允许的最大值。	Difference between global end port number and global start port number is greater than 255. 公网结束端口和起始端口之差超过255。
Number of IP addresses is not equal to number of ports. 指定的地址范围与端口范围的大小不一致。	Total global IP numbers must be equal to total local port numbers. 公网地址总数需要和私网可用端口总数相等。
Number of public ports is not equal to number of private ports. 指定的外网端口范围与内网端口范围的大小不一致。	The global port range size must be equal to local port range size. 公网端口范围大小和私网端口范围大小必须一致
Number of public IP addresses is not equal to number of private IP addresses. 指定的外网地址范围与内网地址范围的大小不一	The global IP range size must be equal to local IP range size. 公网地址范围大小和私网地址范围大小必须一致

致。	
The private address configuration overlaps with existing private address configuration. 指定的内网地址与已有内网地址配置重叠。	The local address overlaps with existing configuration. 指定的私网地址与已配置的私网地址重叠。
Please configure both or neither of the private and public ports. 内网端口与外网端口必须同时配置，或者都不配置。	Global port number and local port number must be configured at the same time or not. 公网端口和私网端口同时配置或者同时不配置。
Please specify either public IP addresses or an interface connected to the external network. 外网地址和外网接口必须且只能配置其中一个。	Nat server could specify global address or an interface as parameter, but only one of them can be configured. 内部服务器可以指定流量的接口或者公网地址作为规则参数，但是只能指定其中一个。
Port numbers can only be configured for TCP or UDP. 只有TCP和UDP协议可以配置端口号。	If the protocol is not TCP or UDP, NAT Server is configured without port information (include global port and local port). 不是TCP或者UDP协议时，不能配置公网端口和私网端口。
Please specify either an internal server group or private IP addresses. 内网地址和内部服务器组必须且只能配置其中一个。	Nat server could specify server group or local address as parameter, but only one of them can be configured. 内部服务器可以指定内部服务器组或者私网地址作为规则参数，但是只能指定其中一个。
Public addresses and public ports can't both be consecutive. 外网地址和外网端口不能同时配置为连续形式。	The continuous global IP and continuous global port could not be configured at the same time. 公网地址和公网端口不能同时配置为连续形式。
Private addresses and private ports can't both be consecutive. 内网地址和内网端口不能同时配置为连续形式。	The continuous local IP and continuous local port could not be configured at the same time. 私网地址和私网端口不能同时配置为连续形式。
Internal server group must be specified with public ports, rather than private ports. 配置内部服务器组的同时必须配置外网端口，但不能同时配置内网端口。	Local server group must be specified with global ports, rather than private ports. 配置内部服务器组的同时必须配置外网端口，但不能同时配置内网端口。
The public address and port configuration conflicts with the private address and port configuration. 外网信息与内网信息冲突。	Global address and ports cannot overlaps with local address and ports. 公网信息和私网信息不能重叠。
End address must be configured together with start address. 配置结束地址必须同时配置起始地址。	If end address have been configured, start address cannot be empty. 配置了结束地址，起始地址就不能为空。
End port must be configured together with start port. 配置结束端口必须同时配置起始端口。	If end ports have been configured, start ports cannot be empty. 配置了结束端口，起始端口就不能为空。

NAT/InboundStaticMappings

Message	Explanation
End public address can't be smaller than start public address. 指定的外网结束地址不能小于外网起始地址。	Global end address could not less than global start address. 公网结束地址不能小于起始地址。
Number of addresses in the public IP address range exceeded the limit.	Difference between global end address and global start address is greater than 255.

指定的外网地址范围大小超过系统允许的最大值。	公网结束地址和起始地址之差超过255。
Invalid end public address. The end public address can't be greater than 255. 指定的外网结束地址错误，外网结束地址不能大于255。	Global end address and start address must be at the same network segment(mask less than 24). 公网结束地址和起始地址必须在同一网段（掩码小于24）
Public IP addresses are already used by another inbound static NAT mapping. 指定的外网地址已经被其他入方向静态NAT表项引用。	The global address overlaps with existing NAT inbound configuration. 指定的公网地址与已配置的NAT inbound公网地址重叠。
Private IP addresses are already used by another inbound static NAT mapping. 指定的内网地址已经被其他入方向静态NAT表项引用。	The local address overlaps with existing NAT inbound configuration. 指定的私网地址与已配置的NAT inbound公网地址重叠。
This device does not support inbound static NAT rules. 当前设备不支持入方向静态NAT。	This device doesn't support NAT static inbound. 当前设备不支持入方向静态NAT。

NAT/ OutboundStaticMappings

Message	Explanation
End private address can't be smaller than start private address. 指定的内网结束地址不能小于内网起始地址。	Local end address could not less than local start address. 私网结束地址不能小于起始地址。
Number of addresses in the private address range exceeded the limit. 指定的内网地址范围大小超过系统允许的最大值。	Difference between local end address and local start address is greater than 255. 私网结束地址和起始地址之差超过255。
Invalid end private address. The end private address can't be greater than 255. 指定的内网结束地址错误，内网结束地址不能大于255。	Local end address and start address must be at the same network segment(mask less than 24). 私网结束地址和起始地址必须在同一网段（掩码小于24）
Public IP addresses are already used by another outbound static NAT mapping. 指定的外网地址已经被其他出方向静态NAT表项引用。	The global address overlaps with existing NAT outbound configuration. 指定的公网地址与已配置的NAT outbound公网地址重叠。
Private IP addresses are already used by another outbound static NAT mapping. 指定的内网地址已经被其他出方向静态NAT表项引用。	The local address overlaps with existing NAT outbound configuration. 指定的私网地址与已配置的NAT outbound公网地址重叠。
An ACL is required for reverse address translation. 配置反向地址转时必须指定ACL。	An ACL is required for reversible configured as true. Reversible配置为True时，必须配置ACL规则。

NAT/AddrGroupMembers

Message	Explanation
End address can't be smaller than start address. 指定的结束地址不能小于起始地址。	End address could not less than start address. 结束地址不能小于起始地址。
Number of addresses in the IP address range exceeded the limit. 地址组成员中的IP地址数已经达到最大值。	Difference between end address and start address is greater than 255. 地址组成员的结束地址和起始地址之差超过255。
The address range overlaps with an existing address range in the same address group. 指定的地址组成员与已有的地址组成员配置重叠。	The address overlaps with existing address at the same address group. 配置的地址与本地址组中已配置的地址重叠。
The address range overlaps with an existing address range in another address group. 指定的地址组成员与其他地址组中的成员配置重叠。	The address overlaps with existing address at another address group. 配置的地址与其他地址组中已配置的地址重叠。
Operation failed because the NAT address group is bound to a NAT IP pool. NAT地址组与全局NAT地址池绑定，无法通过本方式向该NAT地址组中添加地址成员。	The configured address overlaps with the address bound to a NAT IP pool. 配置的地址与NAT地址组绑定的地址池为该NAT地址组分配的地址重叠。
Operation failed because the CGN backup mode conflicts with the nat address group configured with an address range. 将CGN备份模式配置为温备负载分担模式或温备非负载分担模式的操作与手工方式向NAT地址组中添加地址成员的操作冲突。	The CGN backup mode conflicts with the address range configured under the address group. 将CGN备份模式配置为温备负载分担模式或温备非负载分担模式的操作与手工方式向NAT地址组中添加地址成员的操作冲突。
Operation failed because service-instance-group bind multiple failover groups and address group being manually assigned address are mutually exclusive. 业务实例组与多个备份组绑定的操作与手工方式向NAT地址组中添加地址成员的操作冲突。	The method of binding multiple backup groups to a service-instance-group conflicts with the method of manually configuring an address group under an address group. 业务实例组与多个备份组绑定的操作与手工方式向NAT地址组中添加地址成员的操作冲突。
Interfaces configured with the same NAT address or NAT address group must be bound to the same NAT service card. 多个接口引用了同一个NAT地址或NAT地址组时，这些接口必须指定同一个NAT业务板进行NAT处理。	Configure the same NAT address or address group must be bound to the same NAT service card. 多个接口引用了同一个NAT地址或NAT地址组时，这些接口必须指定同一个NAT业务板进行NAT处理。
The number of addresses in the NAT address group has reached the upper limit. NAT地址组中的地址数量已经达到设备支持的最大值。	The number of addresses configured under the address group has reached the configurable maximum. NAT地址组下配置的地址数量已经达到设备支持的最大值。

NAT/AddrGroups

Message	Explanation
End port number can't be smaller than start port number.	End port number can't be smaller than start port number.

指定的结束端口不能小于起始端口。	指定的结束端口不能小于起始端口。
Port block size can't be greater than number of ports in the port range. 指定的端口块大小值不能大于公网IP地址端口范围。	Port block size can't be greater than port range. 端口块大小不能大于公网地址的端口范围。
The address range overlaps with an existing address range in the same address group. 指定的地址组成员与已有的地址组成员配置重叠。	The address overlaps with existing address at the same address group. 配置的地址与本地址组中已配置的地址重叠。
The address range overlaps with an existing address range in another address group. 指定的地址组成员与其他地址组中的成员配置重叠。	The address overlaps with existing address at another address group. 配置的地址与其他地址组中已配置的地址重叠。

NAT/ PortBlockGroupLocalMembers

Message	Explanation
End address can't be smaller than start address. 指定的结束地址不能小于起始地址。	End address could not less than start address. 结束地址不能小于起始地址。
The private address range overlaps with an existing private address range in the same address group. 指定的内网地址与已有内网地址配置重叠。	The local address overlaps with existing local address. 配置的私网地址与已配置的地址重叠。

NAT/PortBlockGroupGlobalMembers

Message	Explanation
End address can't be smaller than start address. 指定的结束地址不能小于起始地址。	End address could not less than start address. 结束地址不能小于起始地址。
The public address range overlaps with an existing public address range in the same address group. 指定的公网地址成员与已有公网地址成员配置重叠。	The global address overlaps with existing local address. 配置的公网地址与已配置的地址重叠。
Maximum number of addresses in the public IP address range already reached. 端口块组中公网地址成员的数目已经达到最大值。	Difference between end address and start address is greater than 255. 公网地址的结束地址和起始地址之差超过255。

NAT/HotBackup

Message	Explanation
This device doesn't support nat portblock sync switch. 当前设备不支持更改温备开关。	Not allow to change nat portblock sync switch. 不允许操作温备开关。

NAT/OutboundDynamicRuleMove

Message	Explanation
Cannot move because the second rule is the lowest priority. 规则移动失败，第二条规则的优先级的值已达到最小。	The system does not allow the moving of the rule if the second rule had been the lowest priority. 不允许规则移动，因为第二条规则的优先级值已经达到最小。
Cannot move because the first rule does not exist. 规则移动失败，第一条规则不存在。	The system does not allow the moving of the rule if the first rule does not exist. 当第一条规则不存在时，不允许移动规则。
Cannot move because the second rule does not exist. 规则移动失败，第二条规则不存在。	The system does not allow the moving of the rule if the second rule does not exist. 当第二条规则不存在时，不允许移动规则。
Cannot move because the second rule is the highest priority. 规则移动失败，第二条规则的优先级的值已达到最大。	The system does not allow the moving of the rule if the second rule has been the highest priority. 当第二条规则的优先级值已经达到最大，不允许移动规则。
Cannot move because the second rule is invalid. 规则移动失败，第二条规则是无效规则。	The system does not allow the moving of the rule if the second rule is invalid. 第二条规则无效，不允许移动规则。

Contents

NBAR 1
NBAR/SignatureAutoUpgradeNow 1
XML structure 1
Table description 1
Columns 1
NBAR/SignatureManualUpgrading 1
XML structure 1
Table description 2
Columns 2
NBAR/SignatureRollback 2
XML structure 2
Table description 2
Columns 3

NBAR

NBAR/SignatureAutoUpgradeNow

This table contains the information of APR signatures auto upgrading at once.

XML structure

```
<NBAR>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`AutoUpgradeNow`	Update APR signature database immediately	N/A	N/A	This column must be empty.

NBAR/SignatureManualUpgrading

This table contains the information of APR signatures manual upgrade.

XML structure

```
<NBAR>
  <SignatureManualUpgrading>
    <URL></URL>
  </SignatureManualUpgrading>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the upgrade signature file	N/A	String: case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 characters.	URL

NBAR/SignatureRollback

This table contains the information of APR signatures rollback.

XML structure

```
<NBAR>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback APR signature database	N/A	N/A	Boolean: • true：rollback last version • false：rollback original version

Contents

NBAR 1
NBAR/SignatureAutoUpgrading 1
XML structure 1
Table description 1
Columns 1
NBAR/TerminalObjectGroup 2
XML structure 2
Table description 2
Columns 2
NBAR/UserApps 2
XML structure 3
Table description 3
Columns 3
NBAR/Usersigs 3
XML structure 3
Table description 4
Columns 4
NBAR/MatchContents 5
XML structure 5
Table description 5
Columns 5
NBAR/UserApplications 6
XML structure 6
Table description 7
Columns 7
NBAR/UserRules 7
XML structure 8
Table description 8
Columns 8
NBAR/UserLenSignatures 10
XML structure 10
Table description 10
Columns 10
NBAR/UserACSignatures 11
XML structure 11
Table description 11
Columns 12
NBAR/UserDetections 12
XML structure 12
Table description 13
Columns 13

NBAR

NBAR/SignatureAutoUpgrading

This table contains the information of APR signatures auto upgrade.

XML structure

```
<NBAR>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	`SignatureAutoUpgrading`
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 02:00:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: • 0—Week • 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer: 0-6.	When Type is **0**, the value range is 0 to 6. Otherwise, the value is invalid

NBAR/TerminalObjectGroup

This table contains the information of terminal IP object group.

XML structure

```
<NBAR>
  <TerminalObjectGroup>
    <IPV4ManageObjGroupName></IPV4ManageObjGroupName>
    <IPV4TerminalObjGroupName></IPV4TerminalObjGroupName>
    <IPV6ManageObjGroupName></IPV6ManageObjGroupName>
    <IPV6TerminalObjGroupName></IPV6TerminalObjGroupName>
  </TerminalObjectGroup>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	TerminalObjectGroup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4ManageObjGroupName	The ipv4 manage object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV4TerminalObjGroupName	The ipv4 terminal object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV6ManageObjGroupName	The ipv6 manage object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV6TerminalObjGroupName	The ipv6 terminal object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NBAR/UserApps

This table contains user-defined application information.

XML structure

```
<NBAR>
  <UserApps>
    <UserApp>
      <AppName></AppName>
      <ProtocolType></ProtocolType>
    </UserApp>
  </UserApps>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserApps
Table type	Multi-instance table
Row name	UserApp
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProtocolType	Type of the protocol	N/A	Enumeration: • **0**—TCP. • **1**—UDP. • **2**—HTTP.	

NBAR/Usersigs

This table contains user-defined signature information.

XML structure

```
<NBAR>
  <Usersigs>
    <Usersig>
      <AppName></AppName>
      <SigID></SigID>
```

```
      <HeaderField></HeaderField>
      <ValueType></ValueType>
      <Value></Value>
      <Offset></Offset>
    </Usersig>
  </Usersigs>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserSigs
Table type	Multi-instance table
Row name	UserSig
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigID	ID of the user-defined signatures	Index	Unsigned short. Value range: 1 to 65535.	N/A
HeaderField	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ValueType	Type of the match pattern	N/A	Enumeration: • **0**—STRING. • **1**—HEX. • **2**—REGEX.	N/A
Value	Value of the match pattern	N/A	String. Length: 3 to 256 characters (for ValueType 0). Length: 6 to 254 characters (for ValueType 1). Length: 3 to 253 characters (for ValueType 2).	N/A
Offset	Value of the byte offset	N/A	Unsigned short. Value range: 0 to 65535.	N/A

NBAR/MatchContents

This table contains match contents information.

XML structure

```
<NBAR>
  <MatchContents>
    <MatchContent>
      <AppName></AppName>
      <SigID></SigID>
      <ContentID></ContentID>
      <HeaderField></HeaderField>
      <Operator></Operator>
      <ValueType></ValueType>
      <Value></Value>
      <Offset></Offset>
      <Depth></Depth>
      <Distance></Distance>
      <Within></Within>
    </MatchContent>
  </MatchContents>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	MatchContents
Table type	Multi-instance table
Row name	MatchContent
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigID	ID of the user-defined signatures	Index	Unsigned short. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ContentID	ID of the match content	Index	Unsigned char. Value range: 1 to 255.	N/A
HeaderField	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Operator	Type of the Operator	N/A	Enumeration: • **0**—include. • **1**—not include.	N/A
ValueType	Type of the match pattern	N/A	Enumeration: • **0**—TEXT. • **1**—HEX. • **2**—REGEX.	N/A
Value	Value of the match pattern	N/A	String. Length: 3 to 256 characters (for ValueType 0). Length: 6 to 254 characters (for ValueType 1). Length: 3 to 253 characters (for ValueType 2).	N/A
Offset	Specifying where to start searching	N/A	Unsigned short. Value range: 0 to 65535.	N/A
Depth	Specifying how far into a packet should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A
Distance	Specifying the distance from the last searching	N/A	Signed short. Value range: -32767 to 32767.	N/A
Within	Specifying how far into a packet should search from the last searching	N/A	Unsigned short. Value range: 3 to 65535.	N/A

NBAR/UserApplications

This table contains information about user-defined applications.

XML structure

```
<NBAR>
  <UserApplications>
    <UserApplication>
      <AppName></AppName>
      <Description></Description>
      <SecRisk></SecRisk>
      <RuleLogic></RuleLogic>
```

```
      <DetectLen></DetectLen>
      <Priority></Priority>
    </UserApplication>
  </UserApplications>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserApplications
Table type	Multi-instance table
Row name	UserApplication
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
Description	Description of the application	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
SecRisk	Risk type for the application	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RuleLogic	Relationship between rules for the application	N/A	Enumeration: • **0**—OR. • **1**—AND.	N/A
DetectLen	Specify the NBAR application detect length	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Priority	Priority level of the application	N/A	Unsigned integer. Value range: 1 to 255.	N/A

NBAR/UserRules

This table contains information about user-defined rules for an application.

XML structure

```
<NBAR>
  <UserRules>
    <UserRule>
      <AppName></AppName>
      <RuleID></RuleID>
      <PatternType></PatternType>
      <Description></Description>
      <L4ProtocolName></L4ProtocolName>
      <L5ProtocolName></L5ProtocolName>
      <Direction></Direction>
      <IPType></IPType>
      <SrcIP></SrcIP>
      <SrcIpPrefixLength></SrcIpPrefixLength>
      <SrcPortMin></SrcPortMin>
      <SrcPortMax></SrcPortMax>
      <DestIP></DestIP>
      <DestIpPrefixLength></DestIpPrefixLength>
      <DestPortMin></DestPortMin>
      <DestPortMax></DestPortMax>
      <Enable></Enable>
    </UserRule>
  </UserRules>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserRules
Table type	Multi-instance table
Row name	UserRule
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens

Column name	Column description	Column type	Data type and restrictions	Remarks
	application			(-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 8.	The value is defined by user.
PatternType	Type of the rule	N/A	Enumeration: • **1**—Number. • **2**—Keyword.	N/A
Description	Description of the rule	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
L4ProtocolName	Layer 4 protocol type in the rule	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
L5ProtocolName	Layer 5 protocol type in the rule	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
Direction	Pattern direction of the rule	N/A	Enumeration: • **0**—To server. • **1**—To client. • **2**—Both.	N/A
IPType	IP version	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.	Only IPv4 is supported now.
SrcIP	Source IP address	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
SrcIpPrefixLength	Length of the source address mask.	Index	Unsigned integer. Value range: 0 to 32.	N/A
SrcPortMin	Start port number of a source port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
SrcPortMax	End port number of a source port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
DestIP	Destination IP address	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
DestIpPrefixLength	Length of the destination address mask.	Index	Unsigned integer. Value range: 0 to 32.	N/A
DestPortMin	Start port number of a destination port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
DestPortMax	End port number of a destination port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
Enable	Whether or not to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enable the rule		• true. • false.	

NBAR/UserLenSignatures

This table contains information about user-defined length signatures.

XML structure

```
<NBAR>
  <UserLenSignatures>
    <UserLenSignature>
      <AppName></AppName>
      <RuleID></RuleID>
      <PositionName></PositionName>
      <bNotEqual></bNotEqual>
      <StartPatternValue></StartPatternValue>
      <EndPatternValue></EndPatternValue>
    </UserLenSignature>
  </UserLenSignatures>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserLenSignatures
Table type	Multi-instance table
Row name	UserLenSignature
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 8.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
bNotEqual	Is not equal or equal	N/A	Boolean: • true • false	N/A
StartPatternValue	Start value of the number when the match type is number	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
EndPatternValue	End value of the number when the match type is number	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A

NBAR/UserACSignatures

This table contains information about user-defined AC signatures.

XML structure

```
<NBAR>
  <UserACSignatures>
    <UserACSignature>
      <AppName></AppName>
      <RuleID></RuleID>
      <SigID></SigID>
      <PositionName></PositionName>
      <MatchMode></MatchMode>
      <PatternString></PatternString>
      <Offset></Offset>
      <Depth></Depth>
    </UserACSignature>
  </UserACSignatures>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserACSignatures
Table type	Multi-instance table

Row name	UserACSignature
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 8.	N/A
SigID	ID of the match signature	Index	Unsigned integer: Value range: 1 to 10.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MatchMode	Type of the user-defined pattern	N/A	Enumeration: • **0**—Text. • **2**—Hex	N/A
PatternString	Value of the user-defined pattern	N/A	String. Length: 3 to 127 characters.	N/A
Offset	Specifies where to start searching	N/A	Unsigned short. Value range: 1 to 65535.	N/A
Depth	Specifies how far into a packet NBAR should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A

NBAR/UserDetections

This table contains information about the NBAR user-defined detection items of a signature.

XML structure

```
<NBAR>
  <UserDetections>
    <UserDetection>
      <AppName></AppName>
      <RuleID></RuleID>
      <SigID></SigID>
      <DetectionID></DetectionID>
```

```
      <PositionName></PositionName>
      <MatchType></MatchType>
      <MatchMode></MatchMode>
      <PatternString></PatternString>
      <Offset></Offset>
      <Depth></Depth>
      <Distance></Distance>
      <Within></Within>
    </UserDetection>
  </UserDetections>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserDetections
Table type	Multi-instance table
Row name	UserDetection
Restrictions	This table is supported only on Comware 9 in the current software version.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	ID of the match rule	Index	Unsigned integer: Value range: 1 to 8..	N/A
SigID	ID of the match signature	Index	Unsigned integer: Value range: 1 to 10.	N/A
DetectionID	ID of the user detection item	Index	Unsigned integer. Value range: 1 to 32.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MatchType	Match operator type	N/A	Enumeration: • **1**—include. • **2**—exclude.	N/A
MatchMode	Type of the user-defined pattern	N/A	Enumeration: • **0**—Text.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Regex. • **2**—Hex.	
PatternString	Value of the user-defined pattern	N/A	String. Length: 3 to 127 characters.	N/A
Offset	Offset specifies where to start searching	N/A	Unsigned short. Value range: 1 to 65535.	N/A
Depth	Depth specifies how far into a packet NBAR should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A
Distance	Specifies the distance from the last searching	N/A	Signed short. Value range: -32767 to 32767, excluding 0.	N/A
Within	Specifies how far into a packet NBAR should search from the last searching	N/A	Unsigned short. Value range: 3 to 65535.	N/A

Contents

NBAR 1
NBAR/SignatureFileInfos 1
XML structure 1
Table description 1
Columns 1
NBAR/SignatureAutoUpgrading 2
XML structure 2
Table description 2
Columns 2
NBAR/UpdatePercentage 3
XML structure 3
Table description 3
Columns 3
NBAR/TerminalObjectGroup 4
XML structure 4
Table description 4
Columns 4
NBAR/UserApps 4
XML structure 5
Table description 5
Columns 5
NBAR/Usersigs 5
XML structure 5
Table description 6
Columns 6
NBAR/MatchContents 7
XML structure 7
Table description 7
Columns 7
NBAR/UserApplications 8
XML structure 8
Table description 9
Columns 9
NBAR/UserRules 9
XML structure 9
Table description 10
Columns 10
NBAR/UserLenSignatures 12
XML structure 12
Table description 12
Columns 12
NBAR/UserACSignatures 13
XML structure 13
Table description 13
Columns 14
NBAR/UserDetections 14
XML structure 14
Table description 15
Columns 15

NBAR

NBAR/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<NBAR>
  <SignatureFileInfos>
    <FileInfo>
      <FileName></FileName>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
    </FileInfo>
  </SignatureFileInfos>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureFileInfos
Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	Version of the signature file	N/A	Enumeration: • 1—current • 2—last • 3—factory	N/A
FileName	File name of the signature file	N/A	String: case-insensitive Length: 1 to 31 characters.	N/A
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Consider time-zone

Column name	Column description	Column type	Data type and restrictions	Remarks
Updates	Information of the signature file	N/A	String: case-insensitive Length: 1 to 255 characters.	N/A

NBAR/SignatureAutoUpgrading

This table contains the information of APR signatures auto-upgrade settings.

XML structure

```
<NBAR>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 02:00:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: • 0—Week • 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer:	When Type is **0**, the value range is 0 to 6.

Column name	Column description	Column type	Data type and restrictions	Remarks
			0-6.	Otherwise, the value is invalid

NBAR/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<NBAR>
  <UpdatePercentage>
    <Percentage></Percentage>
    <ErrorCode></ErrorCode>
  </UpdatePercentage>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UpdatePercentage
Table Type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
Percentage	the percentage of update.	N/A	Unsigned integer	When the value range is 0 to 100,it means in upgrading, Otherwise, means error
ErrorCode	the errorcode of update.	N/A	Enumeration: • 0—Success • 1—License check error • 2—SigFile check error • 3—Server connect error	N/A

NBAR/TerminalObjectGroup

This table contains the information of terminal IP object group.

XML structure

```
<NBAR>
  <TerminalObjectGroup>
    <IPV4ManageObjGroupName></IPV4ManageObjGroupName>
    <IPV4TerminalObjGroupName></IPV4TerminalObjGroupName>
    <IPV6ManageObjGroupName></IPV6ManageObjGroupName>
    <IPV6TerminalObjGroupName></IPV6TerminalObjGroupName>
  </TerminalObjectGroup>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	TerminalObjectGroup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPV4ManageObjGroupName	The ipv4 manage object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV4TerminalObjGroupName	The ipv4 terminal object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV6ManageObjGroupName	The ipv6 manage object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
IPV6TerminalObjGroupName	The ipv6 terminal object group name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NBAR/UserApps

This table contains user defined applications information.

XML structure

```
<NBAR>
  <UserApps>
    <UserApp>
      <AppName></AppName>
      <ProtocolType></ProtocolType>
    </UserApp>
  </UserApps>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserApps
Table type	Multi-instance table
Row name	UserApp
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProtocolType	Type of the Protocol	N/A	Enumeration: • **0**—TCP. • **1**—UDP. • **2**—HTTP.	

NBAR/Usersigs

This table contains user defined signatures information.

XML structure

```
<NBAR>
  <Usersigs>
    <Usersig>
      <AppName></AppName>
      <SigID></SigID>
      <HeaderField></HeaderField>
```

```
      <ValueType></ValueType>
      <Value></Value>
      <Offset></Offset>
    </Usersig>
  </Usersigs>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	Usersigs
Table type	Multi-instance table
Row name	Usersig
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigID	ID of the user defined signatures	Index	Unsigned short. Value range: 1 to 65535.	N/A
HeaderField	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ValueType	Type of the match pattern	N/A	Enumeration: • **0**—STRING. • **1**—HEX. • **2**—REGEX.	N/A
Value	Value of the match pattern	N/A	String. Length: 3 to 256 characters (for ValueType 0). Length: 6 to 254 characters (for ValueType 1). Length: 3 to 253 characters (for ValueType 2).	N/A
Offset	Value of the byte offset	N/A	Unsigned short. Value range: 0 to 65535.	N/A

NBAR/MatchContents

This table contains match contents information.

XML structure

```
<NBAR>
  <MatchContents>
    <MatchContent>
      <AppName></AppName>
      <SigID></SigID>
      <ContentID></ContentID>
      <HeaderField></HeaderField>
      <Operator></Operator>
      <ValueType></ValueType>
      <Value></Value>
      <Offset></Offset>
      <Depth></Depth>
      <Distance></Distance>
      <Within></Within>
    </MatchContent>
  </MatchContents>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	MatchContents
Table type	Multi-instance table
Row name	MatchContent
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SigID	ID of the user defined signatures	Index	Unsigned short Value range: 1 to 65535.	N/A
ContentID	ID of the match content	Index	Unsigned char. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HeaderField	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Operator	Type of the Operator	N/A	Enumeration: • **0**—include. • **1**—not include.	N/A
ValueType	Type of the match pattern	N/A	Enumeration: • **0**—STRING. • **1**—HEX. • **2**—REGEX.	N/A
Value	Value of the match pattern	N/A	String. Length: 3 to 256 characters (for ValueType 0). Length: 6 to 254 characters (for ValueType 1). Length: 3 to 253 characters (for ValueType 2).	N/A
Offset	Specifying where to start searching	N/A	Unsigned short. Value range: 0 to 65535.	N/A
Depth	Specifying how far into a packet should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A
Distance	Specifying the distance from the last searching	N/A	Signed short. Value range: -32767 to 32767.	N/A
Within	Specifying how far into a packet should search from the last searching	N/A	Unsigned short. Value range: 3 to 65535.	N/A

NBAR/UserApplications

This table contains information about user-defined applications.

XML structure

```
<NBAR>
  <UserApplications>
    <UserApplication>
      <AppName></AppName>
      <Description></Description>
      <SecRisk></SecRisk>
      <RuleLogic></RuleLogic>
      <DetectLen></DetectLen>
      <Priority></Priority>
    </UserApplication>
```

```
  </UserApplications>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserApplications
Table type	Multi-instance table
Row name	UserApplication
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
Description	Description of the application	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
SecRisk	Risk type for the application	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RuleLogic	Relationship between rules for the application	N/A	Enumeration: • **0**—OR. • **1**—AND.	N/A
DetectLen	Specify the NBAR application detect length	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Priority	Priority level of the application	N/A	Unsigned integer. Value range: 1 to 255.	N/A

NBAR/UserRules

This table contains information about user-defined rules for an application.

XML structure

```
<NBAR>
  <UserRules>
```

```
    <UserRule>
      <AppName></AppName>
      <RuleID></RuleID>
      <PatternType></PatternType>
      <Description></Description>
      <L4ProtocolName></L4ProtocolName>
      <L5ProtocolName></L5ProtocolName>
      <Direction></Direction>
      <IPType></IPType>
      <SrcIP></SrcIP>
      <SrcIpPrefixLength></SrcIpPrefixLength>
      <SrcPortMin></SrcPortMin>
      <SrcPortMax></SrcPortMax>
      <DestIP></DestIP>
      <DestIpPrefixLength></DestIpPrefixLength>
      <DestPortMin></DestPortMin>
      <DestPortMax></DestPortMax>
      <Enable></Enable>
    </UserRule>
  </UserRules>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserRules
Table type	Multi-instance table
Row name	UserRule
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	Rule ID	Index	Unsigned integer:	The value is defined by user.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 8.	
PatternType	Type of the rule	N/A	Enumeration: • **1**—Number. • **2**—Keyword.	N/A
Description	Description of the rule	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
L4ProtocolName	Layer 4 protocol type in the rule	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
L5ProtocolName	Layer 5 protocol type in the rule	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
Direction	Pattern direction of the rule	N/A	Enumeration: • **0**—To server. • **1**—To client. • **2**—Both.	N/A
IPType	IP version	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.	Only IPv4 is supported.
SrcIP	Source IP address	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
SrcIpPrefixLength	Length of the source address mask.	Index	Unsigned integer. Value range: 0 to 32.	N/A
SrcPortMin	Start port number of a source port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
SrcPortMax	End port number of a source port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
DestIP	Destination IP address	N/A	String, case-insensitive. Length: 1 to 45 characters.	N/A
DestIpPrefixLength	Length of the destination address mask.	Index	Unsigned integer. Value range: 0 to 32.	N/A
DestPortMin	Start port number of a destination port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
DestPortMax	End port number of a destination port range	N/A	Unsigned short: Value range: 1 to 65535.	N/A
Enable	Whether or not to enable the rule	N/A	Boolean: • true. • false.	N/A

NBAR/UserLenSignatures

This table contains information about user-defined length signatures.

XML structure

```
<NBAR>
  <UserLenSignatures>
    <UserLenSignature>
      <AppName></AppName>
      <RuleID></RuleID>
      <PositionName></PositionName>
      <bNotEqual></bNotEqual>
      <StartPatternValue></StartPatternValue>
      <EndPatternValue></EndPatternValue>
    </UserLenSignature>
  </UserLenSignatures>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserLenSignatures
Table type	Multi-instance table
Row name	UserLenSignature
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 8.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
bNotEqual	Is not equal or equal	N/A	Boolean: • true • false	N/A
StartPatternValue	Start value of the number when the match type is number	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
EndPatternValue	End value of the number when the match type is number	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A

NBAR/UserACSignatures

This table contains information about user-defined AC signatures.

XML structure

```
<NBAR>
  <UserACSignatures>
    <UserACSignature>
      <AppName></AppName>
      <RuleID></RuleID>
      <SigID></SigID>
      <PositionName></PositionName>
      <MatchMode></MatchMode>
      <PatternString></PatternString>
      <Offset></Offset>
      <Depth></Depth>
    </UserACSignature>
  </UserACSignatures>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserACSignatures
Table type	Multi-instance table
Row name	UserACSignature
Restrictions	This table is supported only on Comware 9 in the current software version.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 8.	N/A
SigID	ID of the match signature	Index	Unsigned integer: Value range: 1 to 65535.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MatchMode	Type of the user-defined pattern	N/A	Enumeration: • **0**—Text. • **2**—Hex	N/A
PatternString	Value of the user-defined pattern	N/A	String. Length: 3 to 127 characters.	N/A
Offset	Specifies where to start searching	N/A	Unsigned short. Value range: 1 to 65535.	N/A
Depth	Specifies how far into a packet NBAR should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A

NBAR/UserDetections

This table contains information about the NBAR user-defined detection items of a signature.

XML structure

```
<NBAR>
  <UserDetections>
    <UserDetection>
      <AppName></AppName>
      <RuleID></RuleID>
      <SigID></SigID>
      <DetectionID></DetectionID>
      <PositionName></PositionName>
      <MatchType></MatchType>
      <MatchMode></MatchMode>
      <PatternString></PatternString>
```

```
      <Offset></Offset>
      <Depth></Depth>
      <Distance></Distance>
      <Within></Within>
    </UserDetection>
  </UserDetections>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	UserDetections
Table type	Multi-instance table
Row name	UserDetection
Restrictions	This table is supported only on Comware 9 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the user-defined application	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The application name can't be **invalid** or **other**.
RuleID	ID of the match rule	Index	Unsigned integer: Value range: 1 to 8..	N/A
SigID	ID of the match signature	Index	Unsigned integer: Value range: 1 to 65535.	N/A
DetectionID	ID of the user detection item	Index	Unsigned integer. Value range: 1 to 10.	N/A
PositionName	Header field of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MatchType	Match operator type	N/A	Enumeration: • **1**—include. • **2**—exclude.	N/A
MatchMode	Type of the user-defined pattern	N/A	Enumeration: • **0**—Text. • **1**—Regex. • **2**—Hex.	N/A
PatternString	Value of the user-defined pattern	N/A	String. Length: 3 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Offset	Offset specifies where to start searching	N/A	Unsigned short. Value range: 1 to 65535.	N/A
Depth	Depth specifies how far into a packet NBAR should search	N/A	Unsigned short. Value range: 3 to 65535.	N/A
Distance	Specifies the distance from the last searching	N/A	Signed short. Value range: -32767 to 32767, excluding 0.	N/A
Within	Specifies how far into a packet NBAR should search from the last searching	N/A	Unsigned short. Value range: 3 to 65535.	N/A

Contents

NBAR 1
NBAR/SignatureManualUpgrading 1
NBAR/SignatureAutoUpgradeNow 1
NBAR/SignatureRollback 2
NBAR/SignatureAutoUpgrading 3
NBAR/ UserApp 3
NBAR/ Usersig 3
NBAR/ MatchContents 3

NBAR

NBAR/SignatureManualUpgrading

Message	Explanation
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	The manual updating of the signature library fails because there is no valid license. 手动升级特征库时，没有license，升级失败。
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Cannot do this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	Upgrade fails due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。
Operation failed because not enough memory was available. 操作失败：设备内存不足。	The upgrade failed due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。
Operation failed because signature file was invalid. 操作失败：无效的特征库文件。	The upgrade failed due to invalid signature file. 由于特征库文件无效，导致升级失败。

NBAR/SignatureAutoUpgradeNow

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Operation failed because no valid license could be found. 操作失败：没有找到有效的license。	When manual updating of the signature library fails because there is no license. 手动升级特征库时，没有license，升级失败。

The signature version is latest, No update is needed. 特征库已是最新版本，不需要进行升级。	Automatic upgrade is to upgrade the signature library to the latest version released on the official website. If it is the latest version, no upgrade is needed. 自动升级是将特征库升级到官网发布的最新版本，如果已经是最新版本就不需要再升级了。
Cannot do this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	Upgrade fails due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。
Operation failed because not enough memory was available. 操作失败：设备内存不足。	The upgrade failed due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。
Operation failed because a connection to the signature library server could not be established. 操作失败：连接特征库服务器失败。	The connection to www.h3c.com failed. For a successful upgrade, the device must connect to www.h3c.com to get the signature library files. 需要连接www.h3c.com网站获取特征库文件才能升级成功，连接www.h3c.com失败。

NBAR/SignatureRollback

Message	Explanation
Operation failed because no valid license can be found.. 操作失败：没有找到有效的license。	When manual updating of the signature library fails because there is no license. 手动升级特征库时，没有license，升级失败。
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。
Cannot do this operation because of memory alert. 由于内存门限不能执行此操作。	The device is in the memory threshold state and cannot be upgraded. 设备此时处于内存门限状态，不能进行升级
Operation failed because not enough storage space was available. 操作失败：设备空间不足。	Upgrade fails due to insufficient storage space for devices. 由于设备的存储空间不足，导致升级失败。

Operation failed because not enough memory was available. 操作失败：设备内存不足。	The upgrade failed due to insufficient memory on the devices. 由于设备的内存不足，导致升级失败。
Operation failed because signature file was invalid. 操作失败：无效的特征库文件。	The upgrade failed due to invalid signature file. 由于特征库文件无效，导致升级失败。

NBAR/SignatureAutoUpgrading

Message	Explanation
The signature file is updating. Please try later. 特征库正在升级，请稍后再试。	The signature library is being updated. You can perform another update when this update is completed. 还有特征库正在升级，需等升级处理完才可以进行下一次升级。

NBAR/ UserApp

Message	Explanation
Maximum number of user-defined applications already reached. 自定义应用的个数已达上限。	Adding user-defined applications fails because the maximum number of applications has been reached. 由于应用个数达到上限，新增自定义应用失败。

NBAR/ Usersig

Message	Explanation
Maximum number of NBAR signatures already reached. 自定义特征的个数已达上限。	Adding NBAR signature fails because the maximum number of NBAR signatures has been reached. 由于自定义特征个数达到上限，新增自定义特征失败。

NBAR/ MatchContents

Message	Explanation
Maximum number of NBAR signature contents already reached. 自定义检查项的个数已达上限。	Adding NBAR signature applications fails because the maximum number of NBAR signature applications has been reached. 由于自定义检查项个数达到上限，新增检查项失败。

Contents

NCM 1
NCM/Peers 1
XML structure 1
Table description 1
Columns 2
NCM/Peers/Sessions 2
XML structure 2
Table description 3
Columns 3

NCM

NCM/Peers

This table contains NCM connection peer information.

XML structure

```
<NCM>
  <Peers>
    <Peer>
      <UpID></UpID>
      <ConnectionName></ConnectionName>
      <SrcIpAddress></SrcIpAddress>
      <DestIpAddress></DestIpAddress>
      <DestPort></DestPort>
      <Vpn></Vpn>
      <UserName></UserName>
      <Sessions>
        <Session>
          <SessionID></SessionID>
          <State></State>
        </Session>
      </Sessions>
    </Peer>
  </Peers>
</NCM>
```

Table description

Item	Description
Feature name	NCM
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpID	The ID of UP device	Index	Unsigned integer. Value range: 1024 to 1279.	The value range is related to the device model, subject to the actual situation of the device.
ConnectionName	Connection name of the UP connected	N/A	String, Length: 1 to 63 characters.	Case sensitive.
SrcIpAddress	Source IP address of the UP connected	N/A	String, dotted decimal notation.	N/A
DestIpAddress	Destination IP address of the UP connected	N/A	String, dotted decimal notation.	Only IPv4 is supported.
DestPort	Port of the UP connected	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Vpn	VPN instance name	N/A	String. Length: 1 to 31 characters.	Case sensitive
UserName	User name of the UP connected	N/A	String. Length:1 to 80 characters	Case sensitive.
Sessions	Sessions table	Sublist	N/A	N/A

NCM/Peers/Sessions

This table contains NCM session information.

XML structure

Please refer to the XML Structure of NCM/Peers.

Table description

Item	Description
Feature name	NCM
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SessionID	Session ID	Index	Unsigned integer. Value range: 1 to 32.
State	Session state	N/A	Enumeration string: • initialed. • connected.

Contents

ND 1
ND/NDClearByType 1
XML structure 1
Table description 1
Columns 1
ND/NDClearByIfIndex 1
XML structure 1
Table description 2
Columns 2
ND/NDClearTable 2
XML structure 2
Table description 2
Columns 3
ND/NDClearSuppressionByVsi 3
XML structure 3
Table description 3
Columns 3

ND

ND/NDClearByType

This table is used to clear ND entries according to ND entry type.

XML structure

```
<ND>
  <NDClearByType>
    <Type></Type>
  </NDClearByType >
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDClearByType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	ND entry type	N/A	Enumeration: • **0**—Static. • **1**—Dynamic. • **2**—All.

ND/NDClearByIfIndex

This table is used to clear dynamic ND entries according to interface index.

XML structure

```
<ND>
  <NDClearByIfIndex>
    <ClearByIfIndex>
      <IfIndex></IfIndex>
```

```
    </ClearByIfIndex>
  </NDClearByIfIndex>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDClearByIfIndex
Table type	Multi-instance table
Row name	ClearByIfIndex
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.

ND/NDClearTable

This table is used to clear dynamic ND entries.

XML structure

```
<ND>
  <NDClearTable>
    <ClearEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
    </ClearEntry>
  </NDClearTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	`NDClearTable`
Table type	Multi-instance table
Row name	ClearEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.

ND/NDClearSuppressionByVsi

This table is used to clear ND suppression entries according to VSI.

XML structure

```
<ND>
  <NDClearSuppressionByVsi>
    <ClearSuppressionByVsi>
      <VsiName></VsiName>
    </ClearSuppressionByVsi>
  </NDClearSuppressionByVsi>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDClearSuppressionByVsi
Table type	Multi-instance table
Row name	ClearSuppressionByVsi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.

Contents

ND 1

ND/NDTable 1
XML structure 1
Table description 1
Columns 1
ND/NDLearnLimit 2
XML structure 2
Table description 3
Columns 3
ND/NDInterface 3
XML structure 3
Table description 4
Columns 4
ND/NDConfig 4
XML structure 5
Table description 5
Columns 5
ND/NDRA 6
XML structure 6
Table description 7
Columns 7
ND/NDRAPrefix 8
XML structure 8
Table description 9
Columns 9
ND/NDProxy 10
XML structure 10
Table description 11
Columns 11
ND/NDStaleAgingTime 11
XML structure 11
Table description 12
Columns 12
ND/NDVsiSnooping 12
XML structure 12
Table description 13
Columns 13
ND/NDVsiDetection 13
XML structure 13
Table description 14
Columns 14
ND/NDVsiDetectionTrust 14
XML structure 14
Table description 14
Columns 15
ND/NDSrcmacAtkDetec 15
XML structure 15
Table description 15
Columns 16
ND/NDIfAtkSuppression 16
XML structure 16
Table description 16
Columns 16
ND/NDUnsolicitedNA(Interface) 17
XML structure 17
Table description 17
Columns 18

ND/NDRouteAdvertise ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 19
ND/NDDNSSuppress ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
ND/NDDNSServer ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 21
ND/NDDNSSearchList ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22
ND/NDRAPrefixDefault ····· 22
XML structure ····· 23
Table description ····· 23
Columns ····· 23
ND/NDRAPrefixRecord ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 25
ND/NDDirectRoutePrefix ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
ND/NDSuppressionPush ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 27
ND/NDSnoopingConfig ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27
ND/NDSnoopingGleanSource ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
ND/NDSnoopingIfConfig ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
ND/NDVsiConfig ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 31
ND/NdRateLimit ····· 31
XML structure ····· 31
Table description ····· 32
Columns ····· 32
ND/NdRateLimitLog ····· 32
XML structure ····· 33
Table description ····· 33
Columns ····· 33
ND/NDVsiSuppression ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
ND/NDScanKeepalive ····· 34
XML structure ····· 34

Table description 35
Columns 35
ND/NDVsrpPort 36
XML structure 36
Table description 36
Columns 36
ND/NDConsistencyTable 36
XML structure 36
Table description 37
Columns 37

ND

ND/NDTable

This table contains information about neighbor entries.

XML structure

```
<ND>
  <NDTable>
    <NDEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
    </NDEntry>
  </NDTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDTable
Table type	Multi-instance table
Row name	NDEntry
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. If the specified interface is a VLAN interface, the VLAN ID corresponding to the interface must be consistent with the value of the VLANID column. Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	It must be configured together with the PortIndex column.
PortIndex	Port index	N/A	Unsigned integer.	It must be configured together with the VLANID column. The port specified by PortIndex must belong to the VLAN specified by VLANID.
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. Required. 0 means public network.

ND/NDLearnLimit

This table contains the information of maximum number of dynamic neighbor entries that an interface can learn.

XML structure

```
<ND>
  <NDLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
    </LearnLimit>
  </NDLearnLimit>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2/Layer 3 interface Layer 2/Layer 3 aggregate interface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of dynamic neighbor entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.

ND/NDInterface

This table contains neighbor interface information.

XML structure

```
<ND>
  <NDInterface>
    <Interface>
      <IfIndex></IfIndex>
      <DADAttempts></DADAttempts>
      <ModeUNI></ModeUNI>
    </Interface>
```

```
  </NDInterface>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
DADAttempts	The number of attempts to send an NS message for DAD	N/A	Unsigned integer. Value range: 0 to 600. Default: 1.	0 means DAD is disabled. Only Layer 3 interfaces are supported.
ModeUNI	Configure a port as a customer-side port true: Customer-side port false:Network-side port	N/A	Boolean: • **true** • **false** (default)	Whether the ModeUNI is supported depends on the device model. Only VLAN interfaces are supported.

ND/NDConfig

This table contains neighbor configuration information.

XML structure

```
<ND>
  <NDConfig>
    <StaleAging></StaleAging>
    <LinkLocalMinimize></LinkLocalMinimize>
    <HopLimit></HopLimit>
    <StaleAgingUnit></StaleAgingUnit>
    <OnOffLineLog></OnOffLineLog>
    <Rate><Rate>
    <IPConflictRecord></IPConflictRecord>
    <MoveRecord></MoveRecord>
    <RABroadcastToTunnels></RABroadcastToTunnels>
  </NDConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaleAging	The aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 1 to 1440 minutes. or 60 to 86400 seconds. Default: 240 minutes.	The aging time must config together with aging time value
LinkLocalMinimize	Wether minimize link-local ND entries or not	N/A	Boolean: • **true** • **false** (default)	N/A
HopLimit	The Hop Limit field in the IPv6 header	N/A	Unsigned integer. Value range: 1 to 255. Default: 64.	If the device advertises the hop limit in RA messages, all RA message receivers receiving the RA message fill the value into the Hop Limit field of IPv6 packets to be sent.

Column name	Column description	Column type	Data type and restrictions	Remarks
StaleAgingUnit	Aging time value type for ND entries in stale state	N/A	Enumeration: • **0**—Aging in minutes. • **1**—Aging in seconds	The aging time value type must config together with aging time.
OnOffLineLog	Whether ND online and offline log is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
Rate	Rate value of outputting logs	N/A	Unsigned integer. Value range: 10 to 300. Default: 100.	N/A
IPConflictRecord	Whether ND conflict IP record is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
MoveRecord	Whether ND move record is enabled	N/A	Boolean: • **true** • **false** (default)	N/A
RABroadcastToTunnels	Whether ND RA brocast to tunnel is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

ND/NDRA

This table contains information about neighbor RA.

XML structure

```
<ND>
  <NDRA>
    <RA>
      <IfIndex></IfIndex>
      <RAHalt></RAHalt>
      <MaxInterval></MaxInterval>
      <MinInterval></MinInterval>
      <NoAdvLinkMTU></NoAdvLinkMTU>
      <HopLimitUnspecified></HopLimitUnspecified>
      <ManagedAddressFlag></ManagedAddressFlag>
      <OtherFlag></OtherFlag>
      <RouterLifetime></RouterLifetime>
      <NSRetransTimer></NSRetransTimer>
      <RouterPreference></RouterPreference>
      <NudReachableTime></NudReachableTime>
      <BootFileUrl></BootFileUrl>
      <BroadcastToTunnels></BroadcastToTunnels>
    </RA>
```

```
  </NDRA>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRA
Table type	Multi-instance table
Row name	RA
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
RAHalt	Whether suppress an interface from advertising RA message or not	N/A	Boolean: • **true** (default) • **false**—Disabled.	N/A
MaxInterval	The maximum interval for advertising RA messages	N/A	Unsigned integer. Value range: 4 to 1800 seconds. Default: 600 seconds.	It must be configured together with the MinInterval column.
MinInterval	The minimum interval for advertising RA messages	N/A	Unsigned integer. Value range: 3 to three-fourths of the MaxInterval. Default: 200 seconds.	It must be configured together with the MaxInterval column.
NoAdvLinkMTU	Whether turn off the MTU option in RA messages or not	N/A	Boolean: • **true** • **false** (default)	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: • **true** • **false** (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: • **true** • **false** (default)	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: • **true** • **false** (default)	N/A
RouterLifetime	The router lifetime in RA messages	N/A	Unsigned integer. Value range: 0 to 9000 seconds. Default: 1800 seconds.	0 means the router does not serve as the default router
NSRetransTimer	The interval for retransmitting an NS message	N/A	Unsigned integer. Value range: 1000 to 4294967295 milliseconds. Default: 1000 milliseconds.	N/A
RouterPreference	The router preference in RA messages	N/A	Enumeration: • **1**—High. • **2**—Low. • **3**—Medium (default).	N/A
NudReachableTime	The neighbor reachable time on an interface	N/A	Unsigned integer. Value range: 1 to 3600000 milliseconds. Default: 30000 milliseconds.	N/A
BootFileUrl	URL address of boot file in RA messages	N/A	String. Length: 1 to 127 characters.	The URL address begins with http://, https:// , ftp:// or tftp://.
BroadcastToTunnels	Whether the function of common ND RA BroadcastToTunnels Is enabled	N/A	Boolean: • **true** • **false** (default)	N/A

ND/NDRAPrefix

This table contains information about neighbor RA prefix.

XML structure

```
<ND>
  <NDRAPrefix>
    <RAPrefix>
      <IfIndex></IfIndex>
     <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
```

```
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6Prefix>
     <ValidLifetime></ValidLifetime>
     <PreferredLifetime></PreferredLifetime>
     <NoAutoConfig></NoAutoConfig>
     <OffLink></OffLink>
     <NoAdvertise></NoAdvertise>
   </RAPrefix>
  </NDRAPrefix>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefix
Table type	Multi-instance table
Row name	RAPrefix
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	It must be configured as valid IPv6 prefix.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidLifetime	The valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	When NoAutoConfig or Offlink is configured,it must be configured. When it is not configured,it is the default value.
PreferredLifetime	The preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	When NoAutoConfig or Offlink is configured,it must be configured. When it is not configured,it is the default value..
NoAutoConfig	Whether the function of not to be used for stateless autoconfiguration is enabled	N/A	Boolean: • **true** • **false** (default)	When NoAdvertise is configured ,it can't be configured.
OffLink	Whether the function of the address with the prefix is not directly reachable on the link is enabled	N/A	Boolean: • **true** • **false** (default)	When NoAdvertise is configured ,it can't be configured.
NoAdvertise	Whether not advertising the prefix specified in the command is enabled	N/A	Boolean: • **true** • **false**	When it is configured, the lifetime can't be configured, and the lifetime is the default value.

ND/NDProxy

This table contains information about neighbor proxy.

XML structure

```
<ND>
  <NDProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
    </Proxy>
  </NDProxy>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDProxy
Table type	Multi-instance table
Row name	Proxy
Restrictions	This table supports interface types: VLAN interface Layer 3 Ethernet interface/ Layer 3 Ethernet subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ProxyEnable	Whether the function of common ND proxy Is enabled	N/A	Boolean: • true • false (default)	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: • true • false (default)	N/A

ND/NDStaleAgingTime

This table contains aging time configuration for ND entries in stale state.

XML structure

```
<ND>
  <NDStaleAgingTime>
    <StaleAgingTime>
      <IfIndex></IfIndex>
      <AgingTime></AgingTime>
```

```
        <StaleAgingUnit></StaleAgingUnit>
      </StaleAgingTime>
    </NDStaleAgingTime>
  </ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDStaleAgingTime
Table type	Multi-instance table
Row name	StaleAgingTime
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 • interfaces are • supported.
AgingTime	Aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 1 to 1440 minutes or 60 to 86400 seconds	The aging time must be configured together with aging time value type.
StaleAgingUnit	Aging time value type for ND entries in stale state	N/A	Enumeration: • **0**—Aging in minutes. • **1**—Aging in seconds.	The aging time value type must be configured together with aging time.

ND/NDVsiSnooping

This table contains ND snooping configuration information for VSIs.

XML structure

```
<ND>
  <NDVsiSnooping>
    <VsiSnooping>
      <VsiName></VsiName>
      <SnoopingGlobalEnable></SnoopingGlobalEnable>
      <SnoopingLinklocalEnable></SnoopingLinklocalEnable>
    </VsiSnooping>
```

```
  </NDVsiSnooping>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiSnooping
Table type	Multi-instance table
Row name	VsiSnooping
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SnoopingGlobalEnable	Whether ND global snooping is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SnoopingLinklocalEnable	Whether ND link-local snooping is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDVsiDetection

This table contains ND detection configuration information for VSIs.

XML structure

```
<ND>
  <NDVsiDetection>
    <VsiDetection>
      <VsiName></VsiName>
      <DetectionEnable></DetectionEnable>
    </VsiDetection>
  </NDVsiDetection>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiDetection
Table type	Multi-instance table
Row name	VsiDetection
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
DetectionEnable	Whether ND detection is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDVsiDetectionTrust

This table contains ND trusted AC configuration information for Ethernet service instances.

XML structure

```
<ND>
  <NDVsiDetectionTrust>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <TrustEnable></TrustEnable>
    </SRV>
  </NDVsiDetectionTrust>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiDetectionTrust
Table type	Multi-instance table
Row name	SRV

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Ethernet service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
TrustEnable	Whether the Ethernet service instance is configured as an ND trusted AC	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

ND/NDSrcmacAtkDetec

This table contains information about ND source MAC attack detection.

XML structure

```
<ND>
  <NDSrcmacAtkDetec>
    <SrcmacMode></SrcmacMode>
    <SrcmacThreshold></SrcmacThreshold>
  </NDSrcmacAtkDetec>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSrcmacAtkDetec
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcmacMode	Enabling status of common ND proxy	N/A	Unsigned integer. • **0**—None. • **1**—Filter. • **2**—Monitor.	N/A
SrcmacThreshold	Threshold for ND source MAC attack detection	N/A	Unsigned integer. Value range: 1 to 5000. Default: 30.	N/A

ND/NDIfAtkSuppression

This table contains information about ND interface suppression.

XML structure

```
<ND>
  <NDIfAtkSuppression>
    <Enable></Enable>
    <Threshold></Threshold>
  </NDIfAtkSuppression>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDIfAtkSuppression
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of ND interface attack suppression	N/A	Boolean: • true • false (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Threshold	Threshold for ND interface attack suppression.	N/A	Unsigned integer. Value range: 1 to 5000. Default: 1000.	N/A

ND/NDUnsolicitedNA(Interface)

This table contains the information about ND unsolicited NA learning on an interface.

XML structure

```
<ND>
  <NDUnsolicitedNA>
    <UnsolicitedNA>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </UnsolicitedNA>
  </NDUnsolicitedNA>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDUnsolicitedNA
Table type	Multi-instance table
Row name	UnsolicitedNA
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see I*fMgr in Ifmgr NETCONF XML API Configuration Reference*. Only Layer 3 interfaces are supported.
Enable	Whether ND unsolicited NA Learning is enabled on the interface	N/A	Boolean: • true • false (default)	N/A

ND/NDRouteAdvertise

This table contains information about interface ND direct route advertisement.

XML structure

```
<ND>
  <NDRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <DelayTime></DelayTime>
      <Preference></Preference>
      <Tag></Tag>
    </RouteAdvertise>
  </NDRouteAdvertise>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Enable	Enabling status of ND direct route advertisement on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled. **(defult)**	N/A
DelayTime	Delay for ND direct route advertisement	N/A	Unsigned integer. Value range: 0 to 3600, in seconds. Default: 0.	N/A
Preference	Preference of the direct routes	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	Preference and Tag can be configured only when ND direct route advertisement on the interface is enabled.
Tag	Route tag for the direct routes	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 0.	Preference and Tag can be configured only when ND direct route advertisement on the interface is enabled.

ND/NDDNSSuppress

This table contains information about the interface ND DNS suppression.

XML structure

```
<ND>
  <NDDNSSuppress>
    <DNSSuppress>
      <IfIndex></IfIndex>
      <ServerSuppressEnable></ServerSuppressEnable>
      <SearchListSuppressEnable></SearchListSuppressEnable>
    </DNSSuppress>
  </NDDNSSuppress>
</ND>
```

Table description

Item	Description
Feature name	ND

Table name	NDDNSSuppress
Table type	Multi-instance table
Row name	DNSSuppress
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
ServerSuppressEnable	Enabling status of ND DNS server suppression on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SearchListSuppressEnable	Enabling status of the ND DNS search list suppression on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDDNSServer

This table contains information about the ND DNS server on an interface.

XML structure

```
<ND>
  <NDDNSServer>
    <DNSServer>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <LifeTime></LifeTime>
      <Infinite></Infinite>
      <Sequence></Sequence>
    </DNSServer>
  </NDDNSServer>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDNSServer

Table type	Multi-instance table
Row name	DNSServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
LifeTime	Life time	N/A	Unsigned integer. Value range: 4 to 4294967295.	The value 4294967295 means infinite. The default setting is three times the max RA interval.
Infinite	Infinite	N/A	Boolean: • **true** • **false**	N/A
Sequence	Sequence	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ND/NDDNSSearchList

This table contains information about the ND DNS search list on an interface.

XML structure

```
<ND>
  <NDDNSSearchList>
    <DNSSearchList>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
      <LifeTime></LifeTime>
      <Infinite></Infinite>
      <Sequence></Sequence>
    </DNSSearchList>
  </NDDNSSearchList>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDNSSearchList
Table type	Multi-instance table
Row name	DNSSearchList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.
LifeTime	Life time	N/A	Unsigned integer. Value range: 4 to 4294967295.	The value 4294967295 means infinite. The default setting is three times the max RA interval.
Infinite	Infinite	N/A	Boolean: • **true** • **false**	N/A
Sequence	Sequence	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ND/NDRAPrefixDefault

This table contains information about ND RA prefix default parameters.

XML structure

```
<ND>
  <NDRAPrefixDefault>
    <RAPrefixDefault>
      <IfIndex></IfIndex>
      <ValidLifetime></ValidLifetime>
      <PreferredLifetime></PreferredLifetime>
      <NoAutoConfig></NoAutoConfig>
      <OffLink></OffLink>
      <NoAdvertise></NoAdvertise>
    </RAPrefixDefault>
  </NDRAPrefixDefault>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefixDefault
Table type	Multi-instance table
Row name	RAPrefixDefault
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidLifetime	Valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds. Default: 2592000	When it is not configured, the default value applies.
PreferredLifetime	Preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds. Default: 604800	When it is not configured, the default value applies.
NoAutoConfig	Indicates the prefix is not used for stateless autoconfiguration	N/A	Boolean: • true • false (default)	If you want to create NoAutoConfig, the ValidLifetime and PreferredLifetime must also be configured.
OffLink	Indicates the address with the prefix is not directly reachable on the link	N/A	Boolean: • true • false (default)	If you want to create OffLink, the ValidLifetime and PreferredLifetime must also be configured.
NoAdvertise	Disables the device from advertising the prefix specified in the command	N/A	Boolean: • true • false	When it is configured, the lifetime cannot be configured, and the lifetime uses the default value.

ND/NDRAPrefixRecord

This table contains information about ND RA prefix records.

XML structure

```
<ND>
  <NDRAPrefixRecord>
    <RAPrefixRecord>
      <VLANID></VLANID>
      <RecordEnable></RecordEnable>
    </RAPrefixRecord>
  </NDRAPrefixRecord>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefixRecord
Table type	Multi-instance table
Row name	RAPrefixRecord

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
RecordEnable	Enabling status of ND RA prefix recording	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDDirectRoutePrefix

This table contains information about neighbor direct route prefix.

XML structure

```
<ND>
  <NDDirectRoutePrefix>
    <DirectRoutePrefix>
      <IfIndex></IfIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ConvertLength></ConvertLength>
      <RetainHostRoute></RetainHostRoute>
    </DirectRoutePrefix>
  </NDDirectRoutePrefix>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDirectRoutePrefix
Table type	Multi-instance table
Row name	DirectRoutePrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Prefix	IPv6 prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	It must be a valid IPv6 address.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
ConvertLength	Length of segment routing for the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 127.	N/A
RetainHostRoute	Retain the 128-bit host routes generated by ND entries	N/A	Enumeration: • **0**—Not retain host routes (default). • **1**—Retain host routes.	N/A

ND/NDSuppressionPush

This table contains information about ND suppression push settings.

XML structure

```
<ND>
  <NDSuppressionPush>
    <Interval></Interval>
  </NDSuppressionPush>
</ND>
```

Table description

Item	Description
Feature name	ND

Table name	NDSuppressionPush
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval at which ND suppression entries are pushed	N/A	Unsigned integer. Value range: 1 to 1440 minutes.	N/A

ND/NDSnoopingConfig

This table contains ND snooping configuration information.

XML structure

```
<ND>
  <NDSnoopingConfig>
    <DadRetransTime></DadRetransTime>
    <InvalidLifetime></InvalidLifetime>
    <ValidLifetime></ValidLifetime>
  </NDSnoopingConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadRetransTi	Interval for	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
me	retransmitting an ND DAD message		Value range: 100 to 500 milliseconds. Default: 250 milliseconds.	
InvalidLifetime	Invalid lifetime of ND snooping entries	N/A	Unsigned integer. Value range: 250 to 1000 milliseconds. Default: 500 milliseconds.	N/A
ValidLifetime	Valid lifetime of ND snooping entries	N/A	Unsigned integer. Value range: 60 to 900 seconds. Default: 300 seconds.	N/A

ND/NDSnoopingGleanSource

This table contains ND snooping glean source configuration information.

XML structure

```
<ND>
  <NDSnoopingGleanSource>
    <SnoopingGleanSource>
      <VLANID></VLANID>
      <Enable></Enable>
    </SnoopingGleanSource>
  </NDSnoopingGleanSource>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingGleanSource
Table type	Multi-instance table
Row name	SnoopingGleanSource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether ND snooping is enabled by IPv6 data packets from unknown sources	N/A	Boolean: • **true** • **false** (default)	N/A

ND/NDSnoopingIfConfig

This table contains interface-specific ND snooping configuration information.

XML structure

```
<ND>
  <NDSnoopingIfConfig>
    <SnoopingIfConfig>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <Uplink></Uplink>
    </SnoopingIfConfig>
  </NDSnoopingIfConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingIfConfig
Table type	Multi-instance table
Row name	SnoopingIfConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				API Configuration Reference.
LearnMaxNum	Maximum number of dynamic snooping entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.
Uplink	Whether interface is an uplink interface	N/A	Boolean: • **true** • **false** (default)	N/A

ND/NDVsiConfig

This table contains VSI-based long ND entry configuration information.

XML structure

```
<ND>
  <NDVsiConfig>
    <VsiConfig>
      <VsiIfIndex></VsiIfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <VrfIndex></VrfIndex>
    </VsiConfig>
  </NDVsiConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiConfig
Table type	Multi-instance table
Row name	VsiConfig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIfIndex	VSI interface index	Index	Unsigned integer.	The VSI interface must be bound to the VSI. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field must be configured when the port is a Layer 2 Ethernet interface. It must be deleted when the port is a Tunnel interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI before you merge, replace or create NDs.
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.

ND/NdRateLimit

This table contains ND rate limit information.

XML structure

```
<ND>
  <NdRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
```

```
    </RateLimit>
  </NdRateLimit>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NdRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
RateLimitEnable	Whether the rate limit function is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

ND/NdRateLimitLog

This table contains ND rate limit log information.

XML structure

```
<ND>
  <NdRateLimitLog>
    <LogEnable></LogEnable>
    <LogInterval></LogInterval>
  </NdRateLimitLog>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NdRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
LogInterval	Set the interval of sending report or log	N/A	Unsigned integer. Value range: 1 to 86400. Default: 60.	N/A

ND/NDVsiSuppression

This table contains information about ND suppression entries for VSIs.

XML structure

```
<ND>
  <NDVsiSuppression>
    <VsiSuppression>
      <VsiName></VsiName>
      <SuppressionEnable></SuppressionEnable>
      <SuppressionMode></SuppressionMode>
      <SuppressionMismatchDiscard></SuppressionMismatchDiscard>
      <NoBroadCast></NoBroadCast>
```

```
    </VsiSuppression>
  </NDVsiSuppression>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiSuppression
Table type	Multi-instance table
Row name	VsiSuppression
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SuppressionEnable	Whether ND suppression is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
SuppressionMode	ND suppression mode	N/A	Enumeration: • **1**—**`proxy-reply`** (default). • **2**—**`unicast-forward`**.	N/A
SuppressionMismatchDiscard	ND suppression mismatch discarding mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
NoBroadCast	Whether ND stateless broadcast is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

ND/NDScanKeepalive

This table contains interface-specific information about ND scan keepalive

XML structure

```
<ND>
```

```
  <NDScanKeepalive>
    <IfScanKeepalive>
      <IfIndex></IfIndex>
      <ScanEnable></ScanEnable>
      <AgingTime></AgingTime>
    </IfScanKeepalive >
  </NDScanKeepalive>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDScanKeepalive
Table type	Multi-instance table
Row name	IfScanKeepalive
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
ScanEnable	Whether ND keepalive scanning is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AgingTime	Aging time of ND keepalive entries	N/A	Unsigned integer. Value range: 1 to 1440.	N/A

ND/NDVsrpPort

This table contains ND VSRP port information

XML structure

```
<ND>
  <NDVsrpPort>
    <PortNum></PortNum>
  </NDVsrpPort>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsrpPort
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNum	Port number of ND VSRP instance	N/A	Unsigned integer. Value range: 1 to 65535.	60044 means not configured.

ND/NDConsistencyTable

This table contains the information about ND consistency check.

XML structure

```
<ND>
  <NDConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </NDConsistencyTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDConsistencyTable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether ND consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

Contents

ND 1

ND/NDTable 1
XML structure 1
Table description 1
Columns 1
ND/NDLearnLimit 2
XML structure 2
Table description 3
Columns 3
ND/NDInterface 3
XML structure 3
Table description 3
Columns 4
ND/NDConfig 4
XML structure 4
Table description 5
Columns 5
ND/NDRA 6
XML structure 6
Table description 6
Columns 6
ND/NDRAPrefix 8
XML structure 8
Table description 8
Columns 8
ND/NDProxy 9
XML structure 9
Table description 9
Columns 10
ND/NDSpecification 10
XML structure 10
Table description 10
Columns 11
ND/NDStaleAgineTime 11
XML structure 11
Table description 11
Columns 12
ND/NDVsiSnooping 12
XML structure 12
Table description 12
Columns 13
ND/NDVsiDetection 13
XML structure 13
Table description 13
Columns 13
ND/NDVsiDetectionTrust 14
XML structure 14
Table description 14
Columns 14
ND/NDSrcmacAtkDetec 15
XML structure 15
Table description 15
Columns 15
ND/NDIfAtkSuppression 15
XML structure 16
Table description 16
Columns 16

ND/NDUnsolicitedNA(Interface) 16
XML structure 16
Table description 17
Columns 17
ND/NDRouteAdvertise 17
XML structure 17
Table description 18
Columns 18
ND/NDDNSSuppress 18
XML structure 18
Table description 19
Columns 19
ND/NDDNSServer 19
XML structure 19
Table description 20
Columns 20
ND/NDDNSSearchList 20
XML structure 20
Table description 21
Columns 21
ND/NDRAPrefixDefault 21
XML structure 22
Table description 22
Columns 22
ND/NDRAPrefixRecord 23
XML structure 23
Table description 23
Columns 24
ND/NDDirectRoutePrefix 24
XML structure 24
Table description 24
Columns 25
ND/NDSuppressionPush 25
XML structure 25
Table description 25
Columns 26
ND/NDSnoopingConfig 26
XML structure 26
Table description 26
Columns 26
ND/NDSnoopingGleanSource 27
XML structure 27
Table description 27
Columns 27
ND/NDSnoopingIfConfig 28
XML structure 28
Table description 28
Columns 28
ND/NDVsiConfig 29
XML structure 29
Table description 29
Columns 30
ND/NdRateLimit 30
XML structure 30
Table description 31
Columns 31
ND/NdRateLimitLog 31
XML structure 32
Table description 32
Columns 32
ND/NDVsiSuppression 32
XML structure 32

Table description ····· 33
Columns ····· 33
ND/NDScanKeepalive ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
ND/NDVsrpPort ····· 34
XML structure ····· 35
Table description ····· 35
Columns ····· 35
ND/NDConsistencyTable ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 36

ND

ND/NDTable

This table contains information about neighbor entries.

XML structure

```
<ND>
  <NDTable>
    <NDEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
      <Type></Type>
      <State></State>
      <AgeTime></AgeTime>
    </NDEntry>
  </NDTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDTable
Table type	Multi-instance table
Row name	NDEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
PortIndex	Port index	N/A	Unsigned integer.	N/A
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network
Type	Neighbor information type	N/A	Enumeration: • **1**—Invalid static. • **2**—Static. • **3**—Dynamic. • **4**—OpenFlow. • **5**—Rule.	N/A
State	State of a neighbor	N/A	Enumeration: • **1**—INCMP. • **2**—REACH. • **3**—STALE. • **4**—DELAY. • **5**—PROBE.	N/A
AgeTime	The elapsed time	N/A	Unsigned integer.	N/A

ND/NDLearnLimit

This table contains the information of maximum number of dynamic neighbor entries that an interface can learn.

XML structure

```
<ND>
  <NDLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
    </LearnLimit>
  </NDLearnLimit>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2/Layer 3 interface Layer 2/Layer 3 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of dynamic neighbor entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model.

ND/NDInterface

This table contains neighbor interface information.

XML structure

```
<ND>
  <NDInterface>
    <Interface>
      <IfIndex></IfIndex>
      <DADAttempts></DADAttempts>
      <ModeUNI></ModeUNI>
    </Interface>
  </NDInterface>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDInterface

Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
DADAttempts	The number of attempts to send an NS message for DAD	N/A	Unsigned integer. Value range: 0 to 600.	0 means DAD is disabled. Only Layer 3 interfaces are supported.
ModeUNI	Configure a port as a customer-side port true: Customer-side port false:Network-side port	N/A	Boolean: • **true** • **false**	Only VLAN interfaces are supported

ND/NDConfig

This table contains neighbor configuration information.

XML structure

```
<ND>
  <NDConfig>
    <StaleAging></StaleAging>
    <LinkLocalMinimize></LinkLocalMinimize>
    <HopLimit></HopLimit>
    <StaleAgingUnit></StaleAgingUnit>
    <OnOffLineLog></OnOffLineLog>
    <Rate></Rate>
    <IPConflictRecord></IPConflictRecord>
    <MoveRecord></MoveRecord>
    <RABroadcastToTunnels></RABroadcastToTunnels>
  </NDConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaleAging	The aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 1 to 1440 minutes. or 60 to 86400 seconds	N/A
LinkLocalMinimize	Wether minimize link-local ND entries or not	N/A	Boolean: • **true** • **false**	N/A
HopLimit	The Hop Limit field in the IPv6 header	N/A	Unsigned integer. Value range: 1 to 255.	If the device advertises the hop limit in RA messages, all RA message receivers receiving the RA message fill the value into the Hop Limit field of IPv6 packets to be sent.
StaleAgingUnit	Aging time value type for ND entries in stale state	N/A	Enumeration: • **0**—Aging in minutes. • **1**—Aging in seconds..	N/A
OnOffLineLog	Whether ND online and offline log is enabled	Data structure	Boolean: • **true** • **false**	N/A
Rate	Rate value of outputting logs	N/A	Unsigned integer. Value range: 10 to 300.	N/A
IPConflictRecord	Whether ND conflict IP record is enabled	N/A	Boolean: • **true** • **false**	N/A
MoveRecord	Whether ND move record is enabled	N/A	Boolean: • **true** • **false**	N/A
RABroadcastToTunnels	Whether ND RA broadcast to tunnel is enabled	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**	

ND/NDRA

This table contains information about neighbor RA.

XML structure

```
<ND>
  <NDRA>
    <RA>
      <IfIndex></IfIndex>
      <RAHalt></RAHalt>
      <MaxInterval></MaxInterval>
      <MinInterval></MinInterval>
      <NoAdvLinkMTU></NoAdvLinkMTU>
      <HopLimitUnspecified></HopLimitUnspecified>
      <ManagedAddressFlag></ManagedAddressFlag>
      <OtherFlag></OtherFlag>
      <RouterLifetime></RouterLifetime>
      <NSRetransTimer></NSRetransTimer>
      <RouterPreference></RouterPreference>
      <NudReachableTime></NudReachableTime>
      <BootFileUrl></BootFileUrl>
      <BroadcastToTunnels></BroadcastToTunnels>
    </RA>
  </NDRA>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRA
Table type	Multi-instance table
Row name	RA
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces

Column name	Column description	Column type	Data type and restrictions	Remarks
				are supported.
RAHalt	Whether suppress an interface from advertising RA message or not	N/A	Boolean: • **true** • **false**	N/A
MaxInterval	The maximum interval for advertising RA messages	N/A	Unsigned integer. Value range: 4 to 1800 seconds.	N/A
MinInterval	The minimum interval for advertising RA messages	N/A	Unsigned integer. Value range: 3 to three-fourths of the MaxInterval.	N/A
NoAdvLinkMTU	Whether turn off the MTU option in RA messages or not	N/A	Boolean: • **true** • **false**	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: • **true** • **false**	N/A
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: • **true**. • **False**	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: • **true** • **false**	N/A
RouterLifetime	The router lifetime in RA messages	N/A	Unsigned integer. Value range: 0 to 9000 seconds.	0 means the router does not serve as the default router
NSRetransTimer	The interval for retransmitting an NS message	N/A	Unsigned integer. Value range: 1000 to 4294967295 milliseconds.	N/A
RouterPreference	The router preference in RA messages	N/A	Enumeration: • **1**—High. • **2**—Low. • **3**—Medium.	N/A
NudReachableTime	The neighbor reachable time on an interface	N/A	Unsigned integer. Value range: 1 to 3600000 milliseconds.	N/A
BootFileUrl	URL address of boot file in RA messages	N/A	String. Length: 1 to 127 characters.	The URL address begins with http://, https:// , ftp:// or tftp://.
BroadcastToTunnels	Whether the function of common ND RA BroadcastToTunnels is enabled	N/A	Boolean: • **true** • **false.**	N/A

ND/NDRAPrefix

This table contains information about neighbor RA prefix.

XML structure

```
<ND>
  <NDRAPrefix>
    <RAPrefix>
      <IfIndex></IfIndex>
     <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
     </Ipv6Prefix>
      <ValidLifetime></ValidLifetime>
      <PreferredLifetime></PreferredLifetime>
      <NoAutoConfig></NoAutoConfig>
      <OffLink></OffLink>
      <NoAdvertise></NoAdvertise>
    </RAPrefix>
  </NDRAPrefix>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefix
Table type	Multi-instance table
Row name	RAPrefix
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 128.	
ValidLifetime	The valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	N/A
PreferredLifetime	The preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	N/A
NoAutoConfig	Whether the function of not to be used for stateless autoconfiguration is enabled	N/A	Boolean: • **true** • **false**	N/A
OffLink	Whether the function of the address with the prefix is not directly reachable on the link is enabled	N/A	Boolean: • **true** • **false**	N/A
NoAdvertise	Whether not advertising the prefix specified in the command is enabled	N/A	Boolean: • **true** • **false**	N/A

ND/NDProxy

This table contains information about neighbor proxy.

XML structure

```
<ND>
  <NDProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
    </Proxy>
  </NDProxy>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDProxy

Table type	Multi-instance table
Row name	Proxy
Restrictions	This table supports interface types: VLAN interface Layer 3 Ethernet interface/ Layer 3 Ethernet subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
ProxyEnable	Whether the function of common ND proxy is enabled	N/A	Boolean: • true • false	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: • true • false.	N/A

ND/NDSpecification

This table contains ND specification information.

XML structure

```
<ND>
  <NDSpecification>
    <LearnMaxNumLimit></LearnMaxNumLimit>
    <SupportModeUNI></SupportModeUNI>
  </NDSpecification>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LearnMaxNumLimit	Set the maximum number of dynamic neighbor entries that the interface can learn	N/A	Unsigned integer.
SupportModeUNI	Whether support for configuring a port as a customer-side port or not	N/A	Boolean: • true • false

ND/NDStaleAgineTime

This table contains aging time configuration information for ND entries in stale state.

XML structure

```
<ND>
  <NDStaleAgingTime>
    <StaleAgingTime>
      <IfIndex></IfIndex>
      <AgingTime></AgingTime>
      <StaleAgingUnit></StaleAgingUnit>
    </StaleAgingTime>
  </NDStaleAgingTime>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDStaleAgingTime
Table type	Multi-instance table
Row name	StaleAgingTime
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
AgingTime	Aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 0 to 1440 minutes or 60 to 86400 seconds Default: 0	When it is not configured, the default value applies.
StaleAgingUnit	Aging time value type for ND entries in stale state	N/A	Enumeration: • **0**—Aging in minutes. • **1**—Aging in seconds.	N/A

ND/NDVsiSnooping

This table contains ND snooping configuration information for VSIs.

XML structure

```
<ND>
  <NDVsiSnooping>
    <VsiSnooping>
      <VsiName></VsiName>
      <SnoopingGlobalEnable></SnoopingGlobalEnable>
      <SnoopingLinklocalEnable></SnoopingLinklocalEnable>
    </VsiSnooping>
  </NDVsiSnooping>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiSnooping
Table type	Multi-instance table
Row name	VsiSnooping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SnoopingGlobalEnable	Whether ND global snooping is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SnoopingLinklocalEnable	Whether ND link-local snooping is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDVsiDetection

This table contains ND detection configuration information for VSIs.

XML structure

```
<ND>
  <NDVsiDetection>
    <VsiDetection>
      <VsiName></VsiName>
      <DetectionEnable></DetectionEnable>
    </VsiDetection>
  </NDVsiDetection>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiDetection
Table type	Multi-instance table
Row name	VsiDetection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionEnable	Whether ND detection is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDVsiDetectionTrust

This table contains ND trusted AC configuration information for Ethernet service instances.

XML structure

```
<ND>
  <NDVsiDetectionTrust>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <TrustEnable></TrustEnable>
    </SRV>
  </NDVsiDetectionTrust>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiDetectionTrust
Table type	Multi-instance table
Row name	SRV
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Ethernet service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TrustEnable	Whether the Ethernet service instance is configured as an ND trusted AC	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

ND/NDSrcmacAtkDetec

This table contains information about ND source MAC attack detection.

XML structure

```
<ND>
  <NDSrcmacAtkDetec>
    <SrcmacMode></SrcmacMode>
    <SrcmacThreshold></SrcmacThreshold>
  </NDSrcmacAtkDetec>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSrcmacAtkDetec
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcmacMode	Enabling status of common ND proxy	N/A	Unsigned integer. • **0**---None. • **1**---Filter. • **2**---Monitor.	N/A
SrcmacThreshold	Threshold for ND source MAC attack detection	N/A	Unsigned integer. Value range: 1 to 5000.	N/A

ND/NDIfAtkSuppression

This table contains information about ND interface suppression.

XML structure

```
<ND>
  <NDIfAtkSuppression>
    <Enable></Enable>
    <Threshold></Threshold>
  </NDIfAtkSuppression>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDIfAtkSuppression
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of ND interface attack suppression	N/A	Boolean: • true • false	N/A
Threshold	Threshold for ND interface attack suppression.	N/A	Unsigned integer. Value range: 1 to 5000.	N/A

ND/NDUnsolicitedNA(Interface)

This table contains the information about ND unsolicited NA learning on an interface.

XML structure

```
<ND>
  <NDUnsolicitedNA>
    <UnsolicitedNA>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </UnsolicitedNA>
  </NDUnsolicitedNA>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDUnsolicitedNA
Table type	Multi-instance table
Row name	UnsolicitedNA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference. Only Layer 3 interfaces are supported.
Enable	Whether ND unsolicited NA Learning is enabled for the interface	N/A	Boolean: • **true** • **false**	N/A

ND/NDRouteAdvertise

This table contains information about interface ND direct route advertisement.

XML structure

```
<ND>
  <NDRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <DelayTime></DelayTime>
      <Preference></Preference>
      <Tag></Tag>
    </RouteAdvertise>
  </NDRouteAdvertise>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Enable	Enabling status of ND direct route advertisement on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled. **(defult)**	N/A
DelayTime	Delay for ND direct route advertisement	N/A	Unsigned integer. Value range: 0 to 3600, in seconds. Default: 0.	N/A
Preference	Preference of the direct routes	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Tag	Route tag for the direct routes	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ND/NDDNSSuppress

This table contains information about the interface ND DNS suppression.

XML structure

```
<ND>
  <NDDNSSuppress>
    <DNSSuppress>
      <IfIndex></IfIndex>
      <ServerSuppressEnable></ServerSuppressEnable>
      <SearchListSuppressEnable></SearchListSuppressEnable>
    </DNSSuppress>
  </NDDNSSuppress>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDNSSuppress
Table type	Multi-instance table
Row name	DNSSuppress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
ServerSuppressEnable	Enabling status of ND DNS server suppression on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SearchListSuppressEnable	Enabling status of the ND DNS search list suppression on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDDNSServer

This table contains information about the ND DNS server on an interface.

XML structure

```
<ND>
  <NDDNSServer>
    <DNSServer>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <LifeTime></LifeTime>
      <Infinite></Infinite>
      <Sequence></Sequence>
    </DNSServer>
  </NDDNSServer>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDNSServer
Table type	Multi-instance table
Row name	DNSServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
LifeTime	Life time	N/A	Unsigned integer. Value range: 4 to 4294967295.	The value 4294967295 means infinite. The default setting is three times the max RA interval.
Infinite	Infinite	N/A	Boolean: • **true** • **false**	N/A
Sequence	Sequence	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ND/NDDNSSearchList

This table contains information about the ND DNS search list on an interface.

XML structure

```
<ND>
  <NDDNSSearchList>
    <DNSSearchList>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
      <LifeTime></LifeTime>
      <Infinite></Infinite>
      <Sequence></Sequence>
    </DNSSearchList>
```

```
  </NDDNSSearchList>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDNSSearchList
Table type	Multi-instance table
Row name	DNSSearchList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.
LifeTime	Life time	N/A	Unsigned integer. Value range: 4 to 4294967295.	The value 4294967295 means infinite. The default setting is three times the max RA interval.
Infinite	Infinite	N/A	Boolean: • **true** • **false**	N/A
Sequence	Sequence	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ND/NDRAPrefixDefault

This table contains information about ND RA prefix default parameters.

XML structure

```
<ND>
  <NDRAPrefixDefault>
    <RAPrefixDefault>
      <IfIndex></IfIndex>
      <ValidLifetime></ValidLifetime>
      <PreferredLifetime></PreferredLifetime>
      <NoAutoConfig></NoAutoConfig>
      <OffLink></OffLink>
      <NoAdvertise></NoAdvertise>
    </RAPrefixDefault>
  </NDRAPrefixDefault>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefixDefault
Table type	Multi-instance table
Row name	RAPrefixDefault
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidLifetime	Valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds. Default: 2592000	When it is not configured, the default value applies.
PreferredLifetime	Preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds. Default: 604800	When it is not configured, the default value applies.
NoAutoConfig	Indicates the prefix is not used for stateless autoconfiguration	N/A	Boolean: • true • false	If you want to create NoAutoConfig, the ValidLifetime and PreferredLifetime must also be configured.
OffLink	Indicates the address with the prefix is not directly reachable on the link	N/A	Boolean: • true • false	If you want to create OffLink, the ValidLifetime and PreferredLifetime must also be configured.
NoAdvertise	Disables the device from advertising the prefix specified in the command	N/A	Boolean: • true • false	When it is configured, the lifetime cannot be configured, and the lifetime uses the default value.

ND/NDRAPrefixRecord

This table contains information about ND RA prefix records.

XML structure

```
<ND>
  <NDRAPrefixRecord>
    <RAPrefixRecord>
      <VLANID></VLANID>
      <RecordEnable></RecordEnable>
    </RAPrefixRecord>
  </NDRAPrefixRecord>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefixRecord
Table type	Multi-instance table
Row name	RAPrefixRecord

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
RecordEnable	Enabling status of ND RA prefix recording	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDDirectRoutePrefix

This table contains information about neighbor direct route prefix.

XML structure

```
<ND>
  <NDDirectRoutePrefix>
    <DirectRoutePrefix>
      <IfIndex></IfIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ConvertLength></ConvertLength>
      <RetainHostRoute></RetainHostRoute>
    </DirectRoutePrefix>
  </NDDirectRoutePrefix>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDDirectRoutePrefix
Table type	Multi-instance table
Row name	DirectRoutePrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Prefix	IPv6 prefix	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	It must be a valid IPv6 address.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
ConvertLength	Length of segment routing for the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 127.	N/A
RetainHostRoute	Retain the 128-bit host routes generated by ND entries	N/A	Enumeration: • **0**—Not retain host routes. • **1**—Retain host routes.	N/A

ND/NDSuppressionPush

This table contains information about ND suppression push settings.

XML structure

```
<ND>
  <NDSuppressionPush>
    <Interval></Interval>
  </NDSuppressionPush>
</ND>
```

Table description

Item	Description
Feature name	ND

Table name	NDSuppressionPush
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval at which ND suppression entries are pushed	N/A	Unsigned integer. Value range: 1 to 1440 minutes. Default: 0	N/A

ND/NDSnoopingConfig

This table contains ND snooping configuration information.

XML structure

```
<ND>
  <NDSnoopingConfig>
    <DadRetransTime></DadRetransTime>
    <InvalidLifetime></InvalidLifetime>
    <ValidLifetime></ValidLifetime>
  </NDSnoopingConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadRetransTime	Interval for retransmitting an ND DAD message	N/A	Unsigned integer. Value range: 100 to 500 milliseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InvalidLifetime	Invalid lifetime of ND snooping entries.	N/A	Unsigned integer. Value range: 250 to 1000 milliseconds.	N/A
ValidLifetime	Valid lifetime of ND snooping entries	N/A	Unsigned integer. Value range: 60 to 900 seconds.	N/A

ND/NDSnoopingGleanSource

This table contains ND snooping glean source configuration information.

XML structure

```
<ND>
  <NDSnoopingGleanSource>
    <SnoopingGleanSource>
      <VLANID></VLANID>
      <Enable></Enable>
    </SnoopingGleanSource>
  </NDSnoopingGleanSource>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingGleanSource
Table type	Multi-instance table
Row name	SnoopingGleanSource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLANID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enable	Whether ND snooping is enabled for IPv6 data packets from unknown sources	N/A	Boolean: • **true** • **false**	N/A

ND/NDSnoopingIfConfig

This table contains interface-specific ND snooping configuration information.

XML structure

```
<ND>
  <NDSnoopingIfConfig>
    <SnoopingIfConfig>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <Uplink></Uplink>
    </SnoopingIfConfig>
  </NDSnoopingIfConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSnoopingIfConfig
Table type	Multi-instance table
Row name	SnoopingIfConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
LearnMaxNum	Maximum number of dynamic snooping entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.
Uplink	Whether the interface is an uplink	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface		• **true** • **false**	

ND/NDVsiConfig

This table contains VSI-based long ND entry configuration information.

XML structure

```
<ND>
  <NDVsiConfig>
    <VsiConfig>
      <VsiIfIndex></VsiIfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <VrfIndex></VrfIndex>
    </VsiConfig>
  </NDVsiConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiConfig
Table type	Multi-instance table
Row name	VsiConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIfIndex	VSI interface index	Index	Unsigned integer.	The VSI interface must be bound to the VSI. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *IfMgr in Ifmgr NETCONF XML API Configuration Reference*.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field must be configured when the port is a Layer 2 Ethernet interface. It must be deleted when the port is a Tunnel interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI before you merge, replace or create NDs.
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.

ND/NdRateLimit

This table contains ND rate limit information.

XML structure

```
<ND>
  <NdRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
```

```
    </RateLimit>
  </NdRateLimit>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NdRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
RateLimitEnable	Whether the rate limit function is enabled	N/A	Boolean: • **true** (default) • **false**	N/A
RateLimitNum	Set the rate limit value	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

ND/NdRateLimitLog

This table contains ND rate limit log information.

XML structure

```
<ND>
  <NdRateLimitLog>
    <LogEnable></LogEnable>
    <LogInterval></LogInterval>
  </NdRateLimitLog>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NdRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enabled	N/A	Boolean: • **true** • **false**(default)	N/A
LogInterval	Set the interval of sending reports or logs	N/A	Unsigned integer. Value range: 1 to 86400. Default: 60.	N/A

ND/NDVsiSuppression

This table contains information about ND suppression entries for VSIs.

XML structure

```
<ND>
  <NDVsiSuppression>
    <VsiSuppression>
      <VsiName></VsiName>
      <SuppressionEnable></SuppressionEnable>
      <SuppressionMode></SuppressionMode>
      <SuppressionMismatchDiscard></SuppressionMismatchDiscard>
      <NoBroadCast></NoBroadCast>
```

```
    </VsiSuppression>
  </NDVsiSuppression>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsiSuppression
Table type	Multi-instance table
Row name	VsiSuppression
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SuppressionEnable	Whether ND suppression is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
SuppressionMode	ND suppression mode	N/A	Enumeration: • **1**—**`proxy-reply`**. • **2**—**`unicast-forward`**.	N/A
SuppressionMismatchDiscard	ND suppression mismatch discarding mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
NoBroadCast	Whether ND stateless broadcast is enabled for the VSI	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

ND/NDScanKeepalive

This table contains interface-specific information about ND scan keepalive

XML structure

```
<ND>
  <NDScanKeepalive>
    <IfScanKeepalive>
      <IfIndex></IfIndex>
```

```
      <ScanEnable></ScanEnable>
      <AgingTime></AgingTime>
    </IfScanKeepalive >
  </NDScanKeepalive>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDScanKeepalive
Table type	Multi-instance table
Row name	IfScanKeepalive
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VSI interface VLAN interface VE-L3VPN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
ScanEnable	Whether ND keepalive scanning is enabled on the interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AgingTime	Aging time of ND keepalive entries	N/A	Unsigned integer. Value range: 0 to 1440.	0 means not configured.

ND/NDVsrpPort

This table contains ND VSRP port information

XML structure

```
<ND>
  <NDVsrpPort>
    <PortNum></PortNum>
  </NDVsrpPort>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDVsrpPort
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNum	Port number of ND VSRP instance	N/A	Unsigned integer. Value range: 1 to 65535.	60044 means not configured.

ND/NDConsistencyTable

This table contains the information about ND consistency check.

XML structure

```
<ND>
  <NDConsistencyTable>
    <ConsistencyCheckEnable></ConsistencyCheckEnable>
  </NDConsistencyTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDConsistencyTable
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConsistencyCheckEnable	Whether ND consistency check is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Contents

ND 1
ND/NDTable 1
ND/NDLearnLimit 2
ND/NDConfig 2
ND/NDRA 2
ND/NDRAPrefix 3
ND/NDClearTable 3
ND/NDStaleAgingTime 4
ND/NDDNSServer 4
ND/NDDNSSearchList 4
ND/NDRAPrefixDefault 5
ND/NDRAPrefixRecord 5
ND/NDDirectRoutePrefix 5
ND/NDSnoopingIfConfig 6
ND/NDVsiConfig 6
ND/NdRateLimit 7

ND

ND/NDTable

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration, please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address configuration 无效的IPv6地址配置
The S-channel subinterface is not supported. 不支持S通道子接口。	The S-channel subinterface is not supported. 不支持S通道子接口。
The VLAN doesn't exist. 该VLAN不存在。	The VLAN does not exist when set the configuration. 配置时VLAN不存在
The VLAN interface doesn't exist. 该VLAN接口不存在。	The VLAN interface does not exist when set the configuration. 配置时VLAN接口不存在
The VRF doesn't exist. 该VRF实例不存在。	The VRF does not exist when set the configuration. 配置时对应VRF不存在
The port doesn't belong to the VLAN, or the VLAN is not permitted on the port. 该端口或Trunk类型的口不属于指定VLAN。	The port doesn't belong to the VLAN, or the VLAN is not permitted on the port. 该端口或Trunk类型的口不属于指定VLAN。
The interface is not associated with the specified VRF. 该接口未绑定在指定VRF实例上。	The interface is not associated with the specified VRF. 该接口未绑定在指定VRF实例上。
The interface is associated with a VRF. 该接口已经绑定在一个VRF实例上。	The interface is associated with a VRF. 该接口已经绑定在一个VRF实例上。
Maximum number of ND entries already reached. 邻居表项个数超过上限。	Maximum number of ND entries already reached ,please check configuration or specifications 邻居表项个数超过上限，请检查配置或者设备规格
Maximum number of static ND entries already reached. 配置静态邻居表项个数超过上限。	Maximum number of static ND entries already reached ,please check configuration or specifications 配置静态邻居表项个数超过上限，请检查配置或者设备规格
The static ND entry already exists. 该静态邻居表项已经存在。	The static ND configuration has existed when creating a new configuration. 该静态邻居表项已经存在。

The VLAN interface number doesn't match the VLAN ID. 该VLAN接口与VLAN不匹配。	The VLAN interface number doesn't match the VLAN ID. 该VLAN接口与VLAN不匹配。

ND/NDLearnLimit

Message	Explanation
The value is out of range. 配置的值超过上限。	The value is out of range ,please check configuration or specifications 配置的值超过上限,请检查配置

ND/NDConfig

Message	Explanation
The value is out of range. 参数值超出范围。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
When ND logging for online and offline events is disabled, the output rate value must be the default value. 当用户上下线日志功能处于关闭状态，日志输出速率必须是默认值。	When ND logging for online and offline events is disabled, the output rate value must be the default value. 当用户上下线日志功能处于关闭状态，日志输出速率必须是默认值。

ND/NDRA

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 无效配置，请按照配置说明修改
The maximum interval for advertising RA messages can't be longer than the router lifetime. RA报文最大发布时间间隔不能大于路由器生存时间。	The maximum interval for advertising RA messages can't be longer than the router lifetime，please modify configuration under guidance. RA报文最大发布时间间隔不能大于路由器生存时间，请按照配置说明修改
The router lifetime can't be less than the maximum interval for advertising RA messages. 路由器生存时间不能小于RA报文最大发布时	The router lifetime can't be less than the maximum interval for advertising RA messages,please modify configuration under guidance. 路由器生存时间不能小于RA报文最大发布时间间隔，请按

间间隔。	照配置说明修改
The minimum interval for advertising RA messages must be in the range of three seconds to three quarters of the maximum interval. RA报文最小发布时间间隔取值范围是3至RA报文最大发布时间间隔取值的3/4。	The minimum interval for advertising RA messages must be in the range of three seconds to three quarters of the maximum interval, please modify configuration under guidance. RA报文最小发布时间间隔取值范围是3至RA报文最大发布时间间隔取值的3/4，请按照配置说明修改
The URL address begins with http://, https://, ftp:// or tftp://. URL地址以http://、https://、ftp://或tftp://开头。	The URL address begins with http://, https://, ftp:// or tftp://. Please check configuration or specifications. URL地址以http://、https://、ftp://或tftp://开头，请检查配置。

ND/NDRAPrefix

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 无效配置，请按照配置说明修改
Invalid IPv6 prefix. 非法的IPv6前缀。	Invalid IPv6 prefix. 非法的IPv6前缀。
Maximum number of IPv6 prefixes for one interface (10) already reached. 一个接口下IPv6前缀的数量不应该超过10个。	Maximum number of IPv6 prefixes for one interface (10) already reached, please check configuration or specifications。 一个接口下IPv6前缀的数量不应该超过10个，请检查配置或者设备规格
The prefix is already used by another interface. 该IPv6前缀已经配置在另一个接口下。	The prefix is already used by another interface. Please check configuration. 该IPv6前缀已经配置在另一个接口下。
The preferred lifetime can't be longer than the valid lifetime. 首选生命期要小于等于有效生命期。	The preferred lifetime can't be longer than the valid lifetime, please modify configuration under guidance. 首选生命期要小于等于有效生命期，请按照配置说明修改

ND/NDClearTable

Message	Explanation
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的IPv6地址。

ND/NDStaleAgingTime

Message	Explanation
The value is out of range. 参数值超出范围。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改

ND/NDDNSServer

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改。
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的IPv6地址。
The DNS server has been configured with sequence number %u. 该DNS服务器已经被序列号%u配置。	The DNS server has been configured with sequence number. 该DNS服务器已经被序列号配置。
The sequence number has been configured for DNS server %s. 该序列号已经被DNS服务器%s配置。	The sequence number has been configured for DNS server. 该序列号已经被DNS服务器配置。
The number of DNS servers has reached the upper limit. 配置DNS服务器个数超过上限。	Maximum number of DNS server for one interface (8) already reached. Please check the configuration or specifications. 一个接口下DNS服务器的数量不应该超过8个，请检查配置或者设备规格。

ND/NDDNSSearchList

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改。
Invalid domain name suffix. 非法的域名后缀。	Invalid domain name suffix. 非法的域名后缀。
The domain name suffix has been configured with sequence number %u. 该DNS域名后缀已经被序列号%u配置。	The domain name suffix has been configured with sequence number. 该DNS域名后缀已经被序列号配置。

The sequence number has been configured for DNS domain name suffix %s. 该序列号已经被DNS域名后缀%s配置。	The sequence number has been configured for DNS domain name suffix. 该序列号已经被DNS域名后缀配置。
The number of domain name suffixes has reached the upper limit. 配置DNS域名后缀个数超过上限。	Maximum number of DNS suffixes for one interface (8) already reached. Please check the configuration or specifications. 一个接口下DNS域名后缀的数量不应该超过8个，请检查配置或者设备规格。

ND/NDRAPrefixDefault

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置，请按照配置说明修改。
The preferred lifetime can't be longer than the valid lifetime. 首选生命期要小于等于有效生命期。	The preferred lifetime can't be longer than the valid lifetime. Please modify configuration under guidance. 首选生命期要小于等于有效生命期, 请按照配置说明修改

ND/NDRAPrefixRecord

Message	Explanation
Not enough resources to complete the operation. 资源不足，无法完成操作。	Not enough resources to complete the operation. 资源不足，无法完成操作。
Not enough hardware resources to complete the operation. 硬件资源不足，无法完成操作。	Not enough hardware resources to complete the operation. 硬件资源不足，无法完成操作。

ND/NDDirectRoutePrefix

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效的目的地址，请按照配置说明修改。
Invalid Destination Address : Destination address can't be loopback. 目的地址不能是环回地址。	Invalid destination address. Please modify configuration under guidance. 无效的目的地址，请按照配置说明修改。
Invalid Destination Address : Destination address can't be link-local. 目的地址不能是本地链路地址。	Invalid destination address. Please modify configuration under guidance. 无效的目的地址，请按照配置说明修改。

Invalid Destination Address : Destination address can't be multicast. 目的地址不能是组播地址。	Invalid destination address. Please modify configuration under guidance. 无效的目的地址，请按照配置说明修改。
Invalid destination address. 无效的目的地址。	Invalid destination address. Please modify configuration under guidance. 无效的目的地址，请按照配置说明修改。
The convert-length must be bigger than prefix-length. 网段路由的前缀长度必须大于IPv6地址的前缀长度。	The convert-length must be bigger than prefix-length. Please modify configuration under guidance. 网段路由的前缀长度必须大于IPv6地址的前缀长度，请按照配置说明修改。
The specified IPv6 prefix doesn't exist. 该IPv6前缀不存在。	The specified IPv6 prefix doesn't exist. Please modify configuration under guidance. 该IPv6前缀不存在，请按照配置说明修改。
The ConvertLength must be specified. 必须指定网段路由前缀长度。	The convert-length should be specified. Please modify configuration under guidance. 必须指定网段路由的前缀长度，请按照配置说明修改。
The ConvertLength cannot be deleted. 不允许删除网段路由前缀长度。	The convert-length cannot be deleted. 网段路由前缀长度不能被删除。

ND/NDSnoopingIfConfig

Message	Explanation
The value is out of range. 配置的值超过上限。	The value is out of range. Please check configuration or specifications. 配置的值超过上限,请检查配置。

ND/NDVsiConfig

Message	Explanation
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address. 非法的IPv6地址。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效的配置，请按照配置说明修改。
The VRF doesn't exist. 该VRF实例不存在。	The VPN instance does not exist when you set the configuration. 配置时对应VPN不存在。
Maximum number of ND entries already reached.	Maximum number of ND entries has already been reached.

邻居表项个数超过上限。	邻居表项个数超过上限。
Maximum number of static ND entries already reached. 配置静态邻居表项个数超过上限。	Maximum number of static ND entries has already been reached. 配置静态邻居表项个数超过上限。
The static ND entry already exists. 该静态邻居表项已经存在。	The static ND entry already exists. 该静态邻居表项已经存在。
The VSI interface is not associated with the VSI. 指定的VSI虚接口与VSI未绑定。	The VSI interface is not associated with the VSI. Please modify configuration under guidance. 指定的VSI虚接口与VSI未绑定，请按照配置说明修改。
The VSI doesn't exist. 指定的VSI不存在。	The VSI doesn't exist. Please modify configuration under guidance. 指定的VSI不存在，请按照配置说明修改。
The Ethernet service instance doesn't exist. 以太网服务实例不存在。	The Ethernet service instance doesn't exist. Please modify configuration under guidance. 以太网服务实例不存在,请检查配置，请按照配置说明修改。
The Ethernet interface and Ethernet service instance are not mapped to the VSI. 以太接口和以太网服务实例与VSI未关联。	The Ethernet interface and Ethernet service instance are not mapped to the VSI. Please modify configuration under guidance. 以太接口和以太网服务实例与VSI未关联，请按照配置说明修改。
Adding failed. The tunnel interface is not a VXLAN tunnel interface. 配置失败，指定的隧道口非VXLAN模式。	Adding failed. The tunnel interface is not a VXLAN tunnel interface. Please modify configuration under guidance. 配置失败，指定的隧道口非VXLAN模式，请按照配置说明修改。
The interface is not associated with the specified VRF. 该接口未绑定在指定VRF实例上。	The interface is not associated with the specified VRF. Please modify configuration under guidance. 该接口未绑定在指定VRF实例上，请按照配置说明修改。
Failed to configure the static ND entry because it has the same IP address and output interface as an existing RULE-type static ND entry. 配置的静态表项与已存在的静态RULE类型表项冲突。	Failed to configure the static ND entry because it had the same IP address and output interface as an existing RULE-type static ND entry. Please modify configuration under guidance. 配置的静态表项与已存在的静态RULE类型表项冲突，请按照配置说明修改。

ND/NdRateLimit

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	Invalid configuration. Please modify the configuration under the guidance. 无效配置，请按照配置说明修改
The value is out of range. 参数值超出范围。	Invalid configuration. Please modify the configuration under the guidance. 无效配置，请按照配置说明修改

Contents

ND event stream 1
NdTable event 1
XML structure for event subscription 1
XML structure for event report 1
PingNDIPv6 event 3
XML structure for event subscription 3
XML structure for event report 4
PingNDMAC event 5
XML structure for event subscription 5
XML structure for event report 6

ND event stream

This event stream is used to report ND event information.

NdTable event

This event is used to report ND change information.

XML structure for event subscription

```
<NdTableEvent>
</NdTableEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ND</stream>
    <filter type="subtree">
      <NdTableEvent xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
      </NdTableEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ND
Event name	NdTableEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ND:1.0
Support for extended query	No

XML structure for event report

```
<NdTableEvent>
  <NdTable>
    <EventType></EventType>
    <IfIndex></IfIndex>
    <Ipv6Address></Ipv6Address>
    <MacAddress></MacAddress>
    <VLANID></VLANID>
    <PortIndex></PortIndex>
    <VrfIndex></VrfIndex>
    <Type></Type>
    <Sequence></Sequence>
  </NdTable>
```

```
</NdTableEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <NdTableEvent xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
    <NdTable>
      <EventType>1</EventType>
      <IfIndex>100</IfIndex>
      <Ipv6Address>10::1</Ipv6Address>
      <MacAddress>1234-1234-1234</MacAddress>
      <VLANID>1</VLANID>
      <PortIndex>1</PortIndex>
      <VrfIndex>0</VrfIndex>
      <Type>1</Type>
      <Sequence>1</Sequence>
    </NdTable>
  </NdTableEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration: • **1**—Add. • **2**—Delete. • **3**—Update. • **4**—Batch start. • **5**—Batch. • **6**—Batch end.	The event type specifies an operation that ND performs.
IfIndex	Interface index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VLANID	VLAN ID	Unsigned integer. Value range: 1 to 4094.	N/A
PortIndex	Port index	Unsigned integer.	N/A
VrfIndex	Index of the VRF	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network
Type	Neighbor information type	Enumeration: • **1**—Invalid static. • **2**—Static. • **3**—Dynamic. • **4**—OpenFlow. • **5**—Rule.	Invalid static is not supported.

Column name	Column description	Data type and restrictions	Remarks
Sequence	Sequence	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

PingNDIPv6 event

This table is used to report information about an ping ND IPv6 operation.

XML structure for event subscription

```
<PingNDIpv6Event>
  <PingNDIpv6Info>
    <Sequence></Sequence>
    <Host></Host>
    <OutputInterface></OutputInterface>
    <OutputVlan></OutputVlan>
    <ReplyTimeOut></ReplyTimeOut>
    <ReplyCount></ReplyCount>
  </PingNDIpv6Info>
</PingNDIpv6Event>
```

Example:

```
<rpc message-id="110" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ND</stream>
    <filter type="subtree">
      <PingNDIpv6Event xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
        <PingNDIpv6Info>
          <Sequence>1</Sequence>
          <Host>2001::3</Host>
          <OutputInterface>MGE0/0/0</OutputInterface>
          <OutputVlan></OutputVlan>
          <ReplyTimeOut>10</ReplyTimeOut>
          <ReplyCount>10</ReplyCount>
        </PingNDIpv6Info>
      </PingNDIpv6Event>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ND
Event name	PingNDIpv6Event

Item	Description
Event namespace	http://www.h3c.com/netconf/event:1.0/ND:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	Ipv6 address or host name of a remote system	String. Length: 1 to 253 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
OutputVlan	ID of the outgoing VLAN	Unsigned integer. Value range: 1 to 4094	No
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 1 to 10 seconds. Default: 3	No
ReplyCount	Number of detections	Unsigned integer. Default: 5	No

XML structure for event report

```
<PingNDIpv6Event>
  <PingNDIpv6Info>
    <Sequence></Sequence>
    <Host></Host>
    <Macaddress></Macaddress>
    <ErrorInfo></ErrorInfo>
  </PingNDIpv6Info>
</PingNDIpv6Event>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-07-21T09:10:51</eventTime>
  <PingNDIpv6Event xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
     <PingNDIpv6Info>
      <Sequence>1</Sequence>
      <Host>2001::3</Host>
      <Macaddress>00-03-00-03-00-04</Macaddress>
      <ErrorInfo></ErrorInfo>
     </PingNDIpv6Info>
  </PingNDIpv6Event>
```

```
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	Ipv6 address of the remote system	String. Length: 1 to 253 characters.	No
Macaddress	MACaddress of the remote system	Six groups of two hexadecimal digits, hyphen-separated.	No
ErrorInfo	Related result information of the request operation	String. Length: 0 to 255 characters.	No

PingNDMAC event

This table is used to report information about an ping ND MAC operation.

XML structure for event subscription

```
<PingNDMacEvent>
  <PingNDMacInfo>
    <Sequence></Sequence>
    <Macaddress></Macaddress>
    <Ipv6address></Ipv6address>
    <Vpninstance></Vpninstance>
    <OutputInterface></OutputInterface>
    <ReplyTimeOut></ReplyTimeOut>
    <ReplyCount></ReplyCount>
  </PingNDMacInfo>
</PingNDMacEvent>
```

Example:

```
<rpc message-id="110" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ND</stream>
    <filter type="subtree">
      <PingNDMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
        <PingNDMacInfo>
          <Sequence>1</Sequence>
          <Macaddress>00-03—00-03-00-03</Macaddress>
```

```
        <Ipv6address></Ipv6address>
        <Vpninstance></Vpninstance>
        <OutputInterface>MGE0/0/0</OutputInterface>
        <ReplyTimeOut></ReplyTimeOut>
        <ReplyCount>10</ReplyCount>
      </PingNDMacInfo>
    </PingNDMacEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ND
Event name	PingNDMacEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ND:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Macaddress	MAC address of a remote system	Six groups of two hexadecimal digits, hyphen-separated.	No
Ipv6address	Destination IPv6 address of echo requests	Ipv6: String, dotted decimal notation.	No
Vpninstance	Name of a VPN instance	String. Length: 0 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 1 to 10 seconds. Default: 3	No
ReplyCount	Number of detections	Unsigned integer. Default: 5	No

XML structure for event report

```
<PingNDMacEvent>
 <PingNDMacInfo>
  <Sequence></Sequence>
  <Macaddress></Macaddress>
  <RemoteIpv6address></RemoteIpv6address>
```

```
    <ErrorInfo></ErrorInfo>
  </PingNDMacInfo>
</PingNDMacEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-07-21T09:10:51</eventTime>
  <PingNDMacEvent xmlns="http://www.h3c.com/netconf/event:1.0/ND:1.0">
    <PingNDMacInfo>
      <Sequence>1</Sequence>
      <Macaddress>00-03-00-03-00-03</Macaddress>
      <RemoteIpv6address>1::1</RemoteIpv6address>
      <ErrorInfo></ErrorInfo>
    </PingNDMacInfo>
  </PingNDMacEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Macaddress	MAC address to be tested	Six groups of two hexadecimal digits, hyphen-separated.	No
RemoteIpv6address	IPv6 address of the remote system	IPv6: String, dotted decimal notation.	No
ErrorInfo	Related result information of the request operation	String. Length: 0 to 255 characters.	No

Contents

NETANALYSIS4 1
NETANALYSIS4/ClearStatistics 1
XML structure 1
Table description 1
Columns 1

NETANALYSIS4

NETANALYSIS4/ClearStatistics

This table is used to clear netanalysis statistics.

XML structure

```
<NETANALYSIS4>
  <ClearStatistics>
    <RoCEv2Clear></RoCEv2Clear>
  </ClearStatistics>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	ClearStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Clear	Clear RoCEv2 statistics	N/A	This column must be empty.	N/A

Contents

NETANALYSIS4 1
NETANALYSIS4/DeployMode 1
XML structure 1
Table description 1
Columns 1
NETANALYSIS4/DropPkt 1
XML structure 1
Table description 2
Columns 2
NETANALYSIS4/ReportInterval 2
XML structure 2
Table description 2
Columns 3
NETANALYSIS4/InActiveTime 3
XML structure 3
Table description 3
Columns 3
NETANALYSIS4/FilterStatistic 4
XML structure 4
Table description 4
Columns 4
NETANALYSIS4/GlobalStatistic 4
XML structure 4
Table description 5
Columns 5
NETANALYSIS4/AiecnEnable 5
XML structure 5
Table description 5
Columns 6
NETANALYSIS4/IpccGlobalCfg 6
XML structure 6
Table description 6
Columns 6
NETANALYSIS4/IpccIfCfg 7
XML structure 7
Table description 7
Columns 7

NETANALYSIS4

NETANALYSIS4/DeployMode

This table contains information about open the working mode of Netanalysis intelligent traffic analysis function.

XML structure

```
<NETANALYSIS4>
  <DeployMode>
    <RoCEv2ModeType></RoCEv2ModeType>
  </DeployMode>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	DeployMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2ModeType	Processing message type	N/A	String, case-sensitive: • single • bidir	single:Processing unidirectional message. bidir: Processing bidirectional message .

NETANALYSIS4/DropPkt

This table contains information about enable Netanalysis packet loss statistics function.

XML structure

```
<NETANALYSIS4>
  <DropPkt>
     <RoCEv2Enable></RoCEv2Enable>
```

```
  </DropPkt>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS
Table name	DropPkt
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Whether check the number of NAKs.	N/A	Boolean: • **True**. • **false**.	N/A

NETANALYSIS4/ReportInterval

This table contains the information about the report interval of flows.

XML structure

```
<NETANALYSIS4>
  <ReportInterval>
    <RoCEv2Time></RoCEv2Time>
  </ReportInterval>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	ReportInterval
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Time	the report interval of flows.	N/A	Unsigned integer. Value range: 5 to 500 seconds. Default: 10 seconds.	N/A

NETANALYSIS4/InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```
<NETANALYSIS4>
  <InActiveTime>
    <RoCEv2Time></RoCEv2Time>
  </InActiveTime>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Time	Aging time of inactive flows.	N/A	Unsigned integer. Value range: 5 to 500 seconds. Default: 30 seconds.	N/A

NETANALYSIS4/FilterStatistic

This table contains the information about the Acl rules of Netanalysis statistics function.

XML structure

```
<NETANALYSIS4>
  <FilterStatistic>
    <RoCEv2ACLName</RoCEv2ACLName>
  </FilterStatistic>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	FilterStatistic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2ACL Name	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter *a* to *z* or *A* to *Z*. The ACL name cannot be **all** in any combination of upper- and lower-case letters.

NETANALYSIS4/GlobalStatistic

This table contains the information about open Netanalysis global statistics function.

XML structure

```
<NETANALYSIS4>
  <GlobalStatistic>
    <RoCEv2Enable></RoCEv2Enable>
  </GlobalStatistic>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	GlobalStatistic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Global Enable	N/A	Boolean: • **True**. • **False**.	N/A.

NETANALYSIS4/AiecnEnable

This table contains the function of reporting session information about the open interface.

XML structure

```
<NETANALYSIS4>
  <AiecnEnable>
    <RoCEv2Enable></RoCEv2Enable>
  </AiecnEnable>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	AiecnEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Enable reporting session information	N/A	Boolean: • 1-True. • 0-False.	N/A.

NETANALYSIS4/IpccGlobalCfg

This table contains information about IPCC mode configuration and IPCC queue configuration.

XML structure

```
<NETANALYSIS4>
  <IpccGlobalCfg>
    <IpccMode></IpccMode>
    <IpccQueueId></IpccQueueId>
  </IpccGlobalCfg>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpccMode	Specify an IPCC mode	N/A	Enumeration: • 1-low-latency. • 0-high-throughput(default).	N/A.
IpccQueueId	Enable IPCC for a queue	N/A	Unsigned integer. Value range: 0 to 7.	You can specify a queue by its ID in the range of 0 to 7.

NETANALYSIS4/IpccIfCfg

This table is used to enable the IPCC configuration on an interface.

XML structure

```
<NETANALYSIS4>
  <IpccIfCfg>
    <IfCfg>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </IfCfg>
  </IpccIfCfg>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccIfCfg
Table type	Multi-instance table
Row name	IfCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	• Unsigned integer.	N/A
Enable	Enable IPCC	N/A	Enumeration: • **0**—Disable(default). • **1**—Enable	N/A

Contents

NETANALYSIS4 1

NETANALYSIS4/DeployMode 1
XML structure 1
Table description 1
Columns 1
NETANALYSIS4/DropPkt 1
XML structure 1
Table description 2
Columns 2
NETANALYSIS4/FilterStatistic 2
XML structure 2
Table description 2
Columns 3
NETANALYSIS4/GlobalStatistic 3
XML structure 3
Table description 3
Columns 3
NETANALYSIS4/ReportInterval 4
XML structure 4
Table description 4
Columns 4
NETANALYSIS4/InActiveTime 4
XML structure 4
Table description 5
Columns 5
NETANALYSIS4/AiecnEnable 5
XML structure 5
Table description 5
Columns 6
NETANALYSIS4/IpccGlobalCfg 6
XML structure 6
Table description 6
Columns 6
NETANALYSIS4/IpccIfCfg 7
XML structure 7
Table description 7
Columns 7
NETANALYSIS4/IpccStatistics 7
XML structure 8
Table description 8
Columns 8
NETANALYSIS4/IpccStatistics/IpccIfStatistics 8
XML structure 8
Table description 9
Columns 9
NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo 9
XML structure 9
Table description 9
Columns 10
NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo/RoceV2Flow 10
XML structure 10
Table description 10
Columns 10

NETANALYSIS4

NETANALYSIS4/DeployMode

This table contains information about open the working mode of Netanalysis intelligent traffic analysis function.

XML structure

```
<NETANALYSIS4>
  <DeployMode>
    <RoCEv2ModeType></RoCEv2ModeType>
  </DeployMode>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	DeployMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2ModeType	Processing message type	N/A	String, case-sensitive: • single • bidir	single:Processing unidirectional message; bidir: Processing bidirectional message .

NETANALYSIS4/DropPkt

This table contains information about enable Netanalysis packet loss statistics function.

XML structure

```
<NETANALYSIS4>
  <DropPkt>
    <RoCEv2Enable></RoCEv2Enable>
```

```
  </DropPkt>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	DropPkt
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Whether check the number of NAKs.	N/A	Boolean: • **true**. • **false**.	N/A

NETANALYSIS4/FilterStatistic

This table contains the information about the Acl rules of Netanalysis statistics function.

XML structure

```
<NETANALYSIS4>
  <FilterStatistic>
    <RoCEv2ACLName></RoCEv2ACLName>
  </FilterStatistic>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	FilterStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2ACL Name	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter *a* to *z* or *A* to *Z*. The ACL name cannot be **all** in any combination of upper- and lower-case letters.

NETANALYSIS4/GlobalStatistic

This table contains the information about open Netanalysis global statistics function.

XML structure

```
<NETANALYSIS4>
  <GlobalStatistic>
    <RoCEv2Enable></RoCEv2Enable>
  </GlobalStatistic>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	GlobalStatistic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Global Enable	N/A	Boolean: • **True**. • **False**.	N/A.

NETANALYSIS4/ReportInterval

This table contains the information about the report interval of flows.

XML structure

```
<NETANALYSIS4>
  <ReportInterval>
    <RoCEv2Time></RoCEv2Time>
  </ReportInterval>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	ReportInterval
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Time	the report interval of flows.	N/A	Unsigned integer. Value range: 5 to 500 seconds.	N/A

NETANALYSIS4/InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```
<NETANALYSIS4>
  <InActiveTime>
    <RoCEv2Time></RoCEv2Time>
  </InActiveTime>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Time	Aging time of inactive flows	N/A	Unsigned integer. Value range: 5 to 500 seconds.	N/A

NETANALYSIS4/AiecnEnable

This table contains the function of reporting session information under the open interface.

XML structure

```
<NETANALYSIS4>
  <AiecnEnable>
    <RoCEv2Enable></RoCEv2Enable>
  </AiecnEnable>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	AiecnEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoCEv2Enable	Interface reporting function enabled	N/A	Boolean: **1-True**. **0-False**.	N/A.

NETANALYSIS4/IpccGlobalCfg

This table contains information about IPCC mode configuration and IPCC queue configuration.

XML structure

```
<NETANALYSIS4>
  <IpccGlobalCfg>
    <IpccMode></IpccMode>
    <IpccQueueId></IpccQueueId>
  </IpccGlobalCfg>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpccMode	Specify an IPCC mode	N/A	Enumeration: • 1-low-latency. • 0-high-throughput.	N/A.
IpccQueueId	Enable IPCC for a queue	N/A	Unsigned integer. Value range: 0 to 7.	You can specify a queue by its ID in the range of 0 to 7.

NETANALYSIS4/IpccIfCfg

This table is used to enable the IPCC configuration on an interface.

XML structure

```
<NETANALYSIS4>
  <IpccIfCfg>
    <IfCfg>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
    </IfCfg>
  </IpccIfCfg>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccIfCfg
Table type	Multi-instance table
Row name	IfCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	• Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Enable	Enable IPCC	N/A	Enumeration: • **0**—Disable. • **1**—Enable	N/A

NETANALYSIS4/IpccStatistics

This table contains statistics of CNP packets proactively sent by IPCC devices.

XML structure

```
<NETANALYSIS4>
  <IpccStatistics>
    <IpccIfStatistics>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <CNPNum></CNPNum>
      <FlowNum></FlowNum>
      <RoceV2FlowInfo>
        <RoceV2Flow>
          <DstIP></DstIP>
          <SrcIP></SrcIP>
          <DstQP></DstQP>
          <CNPNumSub></CNPNumSub>
        </RoceV2Flow>
      </RoceV2FlowInfo>
    </IpccIfStatistics>
  </IpccStatistics>
</NETANALYSIS4>
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpccIfStatistics	Information in the IpccIfStatistics table	Sublist	For details about the sublist, refer to the IpccIfStatistics table.	N/A

NETANALYSIS4/IpccStatistics/IpccIfStatistics

This table contains statistics of CNP packets proactively sent by IPCC devices.

XML structure

```
Please refer to the XML structure of NETANALYSIS4/IpccStatistics/IpccIfStatistics
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	IpccIfStatistics
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
CNPNum	CNP number	N/A	Unsigned integer.	N/A
FlowNum	Flow number	N/A	Unsigned integer.	N/A
RoceV2FlowInfo	Information in the RoceV2FlowInfo table	Sublist	For details about the sublist, refer to the RoceV2FlowInfo table.	N/A

NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo

This table contains RoCEv2 flow information of NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo

XML structure

```
Please refer to the XML structure of NETANALYSIS4/IpccStatistics/IpccIfStatistics/
RoceV2FlowInfo
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	RoceV2FlowInfo
Table type	Single-instance table

Row name	Node
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoceV2Flow	Information in the RoceV2Flow table	Multi-instance	For details about the sublist, refer to the RoceV2Flow table	N/A

NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo/RoceV2Flow

This table contains RoCEv2 flow information of NETANALYSIS4/IpccStatistics/IpccIfStatistics/RoceV2FlowInfo/RoceV2Flow.

XML structure

```
Please refer to the XML structure of NETANALYSIS4/IpccStatistics/IpccIfStatistics/
RoceV2FlowInfo/RoceV2Flow
```

Table description

Item	Description
Feature name	NETANALYSIS4
Table name	RoceV2FlowInfo
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIP	Source IP address	Index	Unsigned integer. String, dotted decimal notation.	N/A
DstIP	Destination IP address	Index	Unsigned integer. String, dotted decimal notation.	N/A
DstQP	Destination queue pairs	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CNPNumSub	CNP number	N/A	Unsigned integer	N/A

Contents

NETANALYSIS4 1
NETANALYSIS4/FilterStatistic 1
NETANALYSIS4/DeployMode 1
NETANALYSIS4/DropPkt 1
NETANALYSIS4/ReportInterval 1
NETANALYSIS4/InActiveTime 1
NETANALYSIS4/GlobalStatistic 1
NETANALYSIS4/AiecnEnable 2
NETANALYSIS4/IpccGlobalCfg 2
NETANALYSIS4/IpccIfCfg 2

NETANALYSIS4

NETANALYSIS4/FilterStatistic

Message	Explanation
Please specify the RoCEv2 mode first. 请优先配置RoCEv2模式。	Please give priority to bidir or single deploy mode. 请优先配置 bidir 或者 single 工作模式。

NETANALYSIS4/DeployMode

Message	Explanation
The deploy mode is invalid. 工作模式无效。	Only bidir or single deploy mode is supported. 只支持bidir或single工作模式。

NETANALYSIS4/DropPkt

Message	Explanation
Please specify the bidirectional RoCEv2 mode. 请在bidir工作模式下配置。	Drop configuration is only supported in bidir deploy mode. 只在bidir工作模式下支持配置Drop。

NETANALYSIS4/ReportInterval

Message	Explanation
Please specify the RoCEv2 mode first. 请优先配置RoCEv2模式。	Please give priority to bidir or single deploy mode. 请优先配置bidir或者single 工作模式。

NETANALYSIS4/InActiveTime

Message	Explanation
Please specify the RoCEv2 mode first. 请优先配置RoCEv2模式。	Please give priority to bidir or single deploy mode. 请优先配置bidir或者single 工作模式。

NETANALYSIS4/GlobalStatistic

Message	Explanation
Please specify the RoCEv2 mode first.	Please give priority to bidir or single deploy mode.

请优先配置RoCEv2模式。	请优先配置 bidir 或者 single 工作模式。

NETANALYSIS4/AiecnEnable

Message	Explanation
Please specify the RoCEv2 mode first. 请优先配置RoCEv2模式。	Please give priority to bidir or single deploy mode. 请优先配置 bidir 或者 single 工作模式。

NETANALYSIS4/IpccGlobalCfg

Message	Explanation
Please first install the license for the IPCC feature 请先安装 `IPCC` 功能的许可证	This feature is only available if a license for the IPCC feature is installed first 只有先安装 IPCC 的许可证，此功能才可用

NETANALYSIS4/IpccIfCfg

Message	Explanation
Please first install the license for the AIECN feature 请先安装 `IPCC` 功能的许可证	This feature is only available if a license for the IPCC feature is installed first 只有先安装 IPCC 的许可证，此功能才可用
The operation conflicts with some existing configurations. 当前操作于已存在的配置冲突	The resources used by the current operation are already occupied by other configurations, and the operation cannot be completed 当前操作使用的资源已被其他配置占用，无法完成该操作
The operation is not supported. 不支持该操作	The operation is not supported. 不支持该操作
The parameter is incorrect. 参数不正确	The parameter is incorrect. 参数不正确
Not enough resources to complete the operation. 资源不足，无法完成该操作	Not enough resources to complete the operation. 资源不足，无法完成该操作

Contents

NETANALYSIS4 event stream 1
NETANALYSIS4 roceV2 connection event 1
XML structure for event subscription 1
XML structure for event report 1
NETANALYSIS4 roceV2 statistic event 5
XML structure for event subscription 6
XML structure for event report 6
NETANALYSIS4 roceV2 Intfstatistic event 10
XML structure for event subscription 10
XML structure for event report 11

NETANALYSIS4 event stream

NETANALYSIS4 event stream description.

NETANALYSIS4 roceV2 connection event

This table is used to report IPv4 NetAnalysis connection information.

XML structure for event subscription

```
<RoceV2ConnectionEvent>
</RoceV2ConnectionEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>NETANALYSIS4</stream>
    <filter type="subtree">
      <RoceV2ConnectionEvent
xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
        <RoceV2Connection/>
      </RoceV2ConnectionEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	NETANALYSIS4
Event name	RoceV2ConnectionEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0
Support for extended query	No

XML structure for event report

```
<RoceV2Connection>
  <EventType></EventType>
  <ServiceType></ServiceType>
  <SourceIP></SourceIP>
  <SourceQP></SourceQP>
  <DestinationIP></DestinationIP>
  <DestinationQP></DestinationQP>
  <S2DInputInterfaceLocation></S2DInputInterfaceLocation>
```

```
  <S2DInputInterface></S2DInputInterface>
  <S2DInputInterfaceName></S2DinputInterfaceName>
  <S2DOutputInterfaceLocation></S2DOutputInterfaceLocation>
  <S2DOutputInterface></S2DOutputInterface>
  <S2DOutputInterfaceName></S2DoutputInterfaceName>
  <D2SInputInterfaceLocation></D2SInputInterfaceLocation>
  <D2SInputInterface></D2SInputInterface>
  <D2SInputInterfaceName></D2SinputInterfaceName>
  <D2SOutputInterfaceLocation></D2SOutputInterfaceLocation>
  <D2SOutputInterface></D2SOutputInterface>
  <D2SOutputInterfaceName></D2SoutputInterfaceName>
  <TimeStamp></TimeStamp>
  <Reason></Reason>
</RoceV2Connection>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2001-03-07T19:09:24</eventTime>
  <RoceV2ConnectionEvent
xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
    <RoceV2Connection>
      <EventType>0</EventType>
      <ServiceType>0</ServiceType>
      <SourceIP>24.1.1.1</SourceIP>
      <SourceQP>2090</SourceQP>
      <DestinationIP>1.1.1.1</DestinationIP>
      <DestinationQP>74</DestinationQP>
      <S2DInputInterfaceLocation>Remote</S2DInputInterfaceLocation>
      <S2DInputInterface>4</S2DInputInterface>
     <S2DInputInterfaceName>GigabitEthernet0/0/4</S2DinputInterfaceName>
      <S2DOutputInterfaceLocation>Remote</S2DOutputInterfaceLocation>
      <S2DOutputInterface>5</S2DOutputInterface>
      <S2DOutputInterfaceName>GigabitEthernet0/0/5</S2DoutputInterfaceName>
      <D2SInputInterfaceLocation>Remote</D2SInputInterfaceLocation>
      <D2SInputInterface>4</D2SInputInterface>
      <D2SInputInterfaceName>GigabitEthernet0/0/4</D2SinputInterfaceName>
      <D2SOutputInterfaceLocation>Remote</D2SOutputInterfaceLocation>
      <D2SOutputInterface>24</D2SOutputInterface>
      <D2SOutputInterfaceName>GigabitEthernet2/0/4</D2SoutputInterfaceName>
      <TimeStamp>983992164</TimeStamp>
      <Reason>1</Reason>
    </RoceV2Connection>
  </RoceV2ConnectionEvent>
</notification>
```

Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
EventType	Event type	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0 – connection establishment. • 1 – disconnection. • 2 – the connection failed.	
ServiceType	Service type	N/A	Enumeration: • 0 – RC. • 1 – UC. • 2 – RD. • 3 – UD. • 4 – CNP • 5 – XRC.	
SourceIP	IPv4 source address in the IP packet header	N/A	Unsigned integer. String, dotted decimal notation.	N/A
SourceQP	Source queue pairs	N/A	Unsigned integer.	
DestinationIP	IPv4 destination address in the IP packet header	N/A	Unsigned integer. String, dotted decimal notation.	N/A
DestinationQP	destination queue pairs	N/A	Unsigned integer.	
S2DInputInterfaceLocation	The Location of inputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
S2DInputInterface	Source to destination Input interface index	N/A	Unsigned integer.	N/A
S2DInputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
S2DOutputInterfaceLocation	The Location of outputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
S2DOutputInterface	Source to destination Output interface index	N/A	Unsigned integer.	N/A
S2DOutputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
D2SInputInterfaceLocation	The Location of inputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
D2SInputInterface	Destination to Source Input interface index	N/A	Unsigned integer.	N/A
D2SInputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
D2SOutputInterfaceLocation	The Location of outputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
D2SOutputInterface	Destination to Source Output interface index	N/A	Unsigned integer.	N/A
D2SOutputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
TimeStamp	Absolute timestamp	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
Reason	The reason of the connection failed or connection successful	N/A	When EventType is 0,Reason is the following enumeration value is 1~2. Enumeration: • 1 – CM chain building message. • 2 – Non CM chain building. When EventType is 1,Reason is the following enumeration value is 1~2. Enumeration: • 1 – CM chain breaking message. • 2 – Inactive aging time. When EventType is 2,Reason is the following enumeration value is 1~35. Enumeration: • 1 – No QP available. • 2 – No EEC available. • 3 – No resources available. • 4 – Timeout. • 5 – Unsupported request.. • 6 – Invaild Communication ID. • 7 – Invalid Communication Instance. • 8 – Invalid Service ID.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9 – Invalid Transport Service Type. • 10 – Stale Connection. • 11 – RDC does not exist. • 12 – Primary Remote Port GID rejexted. • 13 – Primary Remote Port LID rejected. • 14 – Invalid Primary SL. • 15 – Invaild Primary Traffic Class. • 16 – Invalid Primary Hop Limit. • 17 – Invaild Primary Packet Rate. • 18 – Alternate Remote Port GID rejected. • 19 – Alternate Remote Port LID rejected. • 20 – Invalid Alternate SL. • 21 – Invalid Alternate Traffic Class. • 22 – Invalid Alternate Hop Limit. • 23 – Invalid Alternate Packet Rate. • 24 – Port and CM Redirection. • 25 – Port Redirection. • 26 – Invalid Path MTU. • 27 – Insuffcient Responder Resources. • 28 – Consumer Reject. • 29 – RNR Retry Count Reject. • 30 – Duplicate Local Communication ID • 31 – Unsupported Class Version. • 32 – Invalid Primary Flow Label. • 33 – Invalid Alternate Flow Label. • 34 – Invalid Partition Key • 35 – Required vendor option not supported. • 36 – Reserved(65535)	

NETANALYSIS4 roceV2 statistic event

This table is used to report IPv4 NetAnalysis statistic information.

XML structure for event subscription

```
<RoceV2StatisticEvent>
</RoceV2StatisticEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>NETANALYSIS4</stream>
    <filter type="subtree">
      <RoceV2StatisticEvent
xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
      <RoceV2Statistic/>
      </RoceV2StatisticEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	NETANALYSIS4
Event name	RoceV2StatisticEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0
Support for extended query	No

XML structure for event report

```
<RoceV2Statistic>
  <ServiceType></ServiceType>
  <SourceIP></SourceIP>
  <SourceQP></SourceQP>
  <DestinationIP></DestinationIP>
  <DestinationQP></DestinationQP>
  <S2DRTT></S2DRTT>
  <S2DReadPkts></S2DReadPkts>
  <S2DSendPkts></S2DSendPkts>
  <S2DWritePkts></S2DWritePkts>
  <S2DNAKPkts></S2DNAKPkts>
  <S2DReadPktLen></S2DReadPktLen>
  <S2DSendPktLen></S2DSendPktLen>
  <S2DWritePktLen></S2DWritePktLen>
  <D2SRTT></D2SRTT>
  <D2SReadPkts></D2SReadPkts>
  <D2SSendPkts></D2SSendPkts>
  <D2SWritePkts></D2SWritePkts>
  <D2SNAKPkts></D2SNAKPkts>
```

```
  <D2SReadPktLen></D2SReadPktLen>
  <D2SSendPktLen></D2SSendPktLen>
  <D2SWritePktLen></D2SWritePktLen>
  <S2DInputInterfaceLocation></S2DInputInterfaceLocation>
  <S2DInputInterface></S2DInputInterface>
  <S2DInputInterfaceName></S2DInputInterfaceName>
  <S2DOutputInterfaceLocation></S2DOutputInterfaceLocation>
  <S2DOutputInterface></S2DOutputInterface>
  <S2DOutputInterfaceName></S2DOutputInterfaceName>
  <D2SInputInterfaceLocation></D2SInputInterfaceLocation>
  <D2SInputInterface></D2SInputInterface>
  <D2SInputInterfaceName></D2SInputInterfaceName>
  <D2SOutputInterfaceLocation></D2SOutputInterfaceLocation>
  <D2SOutputInterface></D2SOutputInterface>
  <D2SOutputInterfaceName></D2SOutputInterfaceName>
  <TimeStamp></TimeStamp>
  <SlaveBridgeMac></SlaveBridgeMac>
</RoceV2Statistic>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2001-03-07T15:40:55</eventTime>
  <RoceV2StatisticEvent xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
    <RoceV2Statistic>
      <ServiceType>0</ServiceType>
      <SourceIP>24.1.1.1</SourceIP>
      <SourceQP>2090</SourceQP>
      <DestinationIP>1.1.1.1</DestinationIP>
      <DestinationQP>74</DestinationQP>
      <S2DRTT>0</S2DRTT>
      <S2DReadPkts>0</S2DReadPkts>
      <S2DSendPkts>11000</S2DSendPkts>
      <S2DWritePkts>0</S2DWritePkts>
      <S2DNAKPkts>0</S2DNAKPkts>
      <S2DReadPktLen>0</S2DReadPktLen>
      <S2DSendPktLen>60</S2DSendPktLen>
      <S2DWritePktLen>0</S2DWritePktLen>
      <D2SRTT>0</D2SRTT>
      <D2SReadPkts>0</D2SReadPkts>
      <D2SSendPkts>0</D2SSendPkts>
      <D2SWritePkts>0</D2SWritePkts>
      <D2SNAKPkts>0</D2SNAKPkts>
      <D2SReadPktLen>0</D2SReadPktLen>
      <D2SSendPktLen>0</D2SSendPktLen>
      <D2SWritePktLen>0</D2SWritePktLen>
      <S2DInputInterfaceLocation>Remote</S2DInputInterfaceLocation>
      <S2DInputInterface>4</S2DInputInterface>
      <S2DInputInterfaceName>GigabitEthernet0/0/4</S2DInputInterfaceName>
      <S2DOutputInterfaceLocation>Remote</S2DOutputInterfaceLocation>
```

```
      <S2DOutputInterface>5</S2DOutputInterface>
      <S2DOutputInterfaceName>GigabitEthernet0/0/5</S2DOutputInterfaceName>
      <D2SInputInterfaceLocation>Remote</D2SInputInterfaceLocation>
      <D2SInputInterface>4</D2SInputInterface>
      <D2SInputInterfaceName>GigabitEthernet0/0/4</D2SInputInterfaceName>
      <D2SOutputInterfaceLocation>Remote</D2SOutputInterfaceLocation>
      <D2SOutputInterface>24</D2SOutputInterface>
      <D2SOutputInterfaceName>GigabitEthernet2/0/4</D2SOutputInterfaceName>
      <TimeStamp>983979655</TimeStamp>
      <SlaveBridgeMac>bc22-4722-0a11</SlaveBridgeMac>
    </RoceV2Statistic>
  </RoceV2StatisticEvent>
</notification>
```


Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	N/A	Enumeration: • 0 – RC. • 1 – UC. • 2 – RD. • 3 – UD. • 4 – CNP. • 5 – XRC.	
SourceIP	IPv4 source address in the IP packet header	N/A	Unsigned integer. String, dotted decimal notation.	N/A
SourceQP	Source queue pairs	N/A	Unsigned integer.	
DestinationIP	IPv4 destination address in the IP packet header	N/A	Unsigned integer. String, dotted decimal notation.	N/A
DestinationQP	destination queue pairs	N/A	Unsigned integer.	N/A
S2DRTT	Source to Destination RTT time	N/A	Unsigned integer.	0 means no S2DRTT was obtained.
S2DReadPkts	Number of Source to Destination Read Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
S2DSendPkts	Number of Source to Destination Send Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
S2DWritePkts	Number of Source to Destination Write Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
S2DNAKPkts	Number of Source to	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Destination NAK Packets		18446744073709551615.	
S2DReadPktLen	Source to Destination Read packet lenth	N/A	Unsigned integer	N/A
S2DSendPktLen	Source to Destination Send packet lenth	N/A	Unsigned integer	N/A
S2DWritePktLen	Source to Destination Write packet lenth	N/A	Unsigned integer	N/A
D2SRTT	Destination to Source RTT time	N/A	Unsigned integer	0 means no D2SRTT was obtained.
D2SReadPkts	Number of Destination to Source Read Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
D2SSendPkts	Number of Destination to Source Send Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
D2SWritePkts	Number of Destination to Source Write Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
D2SNAKPkts	Number of Destination to Source NAK Packets	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
D2SReadPktLen	Destination to Source Read packet lenth	N/A	Unsigned integer	N/A
D2SSendPktLen	Destination to Source Send packet lenth	N/A	Unsigned integer	N/A
D2SWritePktLen	Destination to Source Write packet lenth	N/A	Unsigned integer	N/A
S2DInputInterfaceLocation	The Location of inputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
S2DInputInterface	Source to destination Input interface index	N/A	Unsigned integer.	N/A
S2DInputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
S2DOutputInt	The Location of	N/A	String,case-sensitive:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
erfaceLocation	outputinterface is mlag master or mlag slave		• Local:mlag master • Remote:mlag slave	
S2DOutputInterface	Source to destination Output interface index	N/A	Unsigned integer.	N/A
S2DOutputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
D2SInputInterfaceLocation	The Location of inputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
D2SInputInterface	Destination to Source Input interface index	N/A	Unsigned integer.	N/A
D2SInputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
D2SOutputInterfaceLocation	The Location of outputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
D2SOutputInterface	Destination to Source Output interface index	N/A	Unsigned integer.	N/A
D2SOutputInterfaceName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
TimeStamp	Absolute timestamp	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
SlaveBridgeMac	Mlag slave bridge mac	N/A	String,case-sensitive	N/A

NETANALYSIS4 roceV2 Intfstatistic event

This table is used to report IPv4 NetAnalysis interface statistic information.

XML structure for event subscription

```
<RoceV2IntfStatisticEvent>
</RoceV2IntfStatisticEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>NETANALYSIS4</stream>
    <filter type="subtree">
      <RoceV2IntfStatisticEvent
xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
      <RoceV2IntfStatistic/>
      </RoceV2IntfStatisticEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	NETANALYSIS4
Event name	RoceV2IntfStatisticEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0
Support for extended query	No

XML structure for event report

```
<RoceV2IntfStatistic>
  <OutputInterfaceLocation></OutputInterfaceLocation>
  <OutputInterface></OutputInterface>
  <OutputInterfaceName></OutputInterfaceName>
  <OutputInterfaceSpeed></OutputInterfaceSpeed>
  <OutputInterfaceQueue></OutputInterfaceQueue>
  <OutputInterfaceAverSpeed></OutputInterfaceAverSpeed>
  <OutputInterfaceWredLowLimit></OutputInterfaceWredLowLimit>
  <OutputInterfaceWredHighLimit></OutputInterfaceWredHighLimit>
  <OutputInterfaceWredDiscard></OutputInterfaceWredDiscard>
  <OutputInterfaceDevUUID></OutputInterfaceDevUUID>
  <OutputInterfaceAvgQlen></OutputInterfaceAvgQlen>
  <OutputInterfaceTxPkt></OutputInterfaceTxPkt>
  <OutputInterfaceTxPktECNMark></OutputInterfaceTxPktECNMark>
  <OutputInterfaceTxByte></OutputInterfaceTxByte>
  <OutputInterfaceAIEcnEnable></OutputInterfaceAIEcnEnable>
  <OutputInterfaceAIEcnMode></OutputInterfaceAIEcnMode>
  <TimeStamp></TimeStamp>
  <Input>
    <InputInterfaceLocation></InputInterfaceLocation>
    <InputInterface></InputInterface>
    <InputInterfaceName></InputInterfaceName>
    <InputInterfaceSpeed></InputInterfaceSpeed>
```

```
    <Flownum></Flownum>
    <BigFlowNum></BigFlowNum>
    <ServicePkts></ServicePkts>
    <ServicePktLen></ServicePktLen>
    <NAKPkts></NAKPkts>
    <RTT></RTT>
  </Input>
</RoceV2IntfStatistic>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2001-03-07T19:09:32</eventTime>
  <RoceV2IntfStatisticEvent
xmlns="http://www.h3c.com/netconf/event:1.0/NETANALYSIS4:1.0">
    <RoceV2IntfStatistic>
      <OutputInterfaceLocation>Remote</OutputInterfaceLocation>
      <OutputInterface>5</OutputInterface>
      <OutputInterfaceName>GigabitEthernet0/0/2</OutputInterfaceName>
      <OutputInterfaceSpeed>10000</OutputInterfaceSpeed>
      <OutputInterfaceQueue>2</OutputInterfaceQueue>
      <OutputInterfaceAverSpeed>617744</OutputInterfaceAverSpeed>
      <OutputInterfaceWredLowLimit>33</OutputInterfaceWredLowLimit>
      <OutputInterfaceWredHighLimit>66</OutputInterfaceWredHighLimit>
      <OutputInterfaceWredDiscard>44</OutputInterfaceWredDiscard>
      <OutputInterfaceDevUUID>03000200-0400-0500-0006-000700080009</OutputInterfaceDev
UUID>
      <OutputInterfaceAvgQlen>0</OutputInterfaceAvgQlen>
      <OutputInterfaceTxPkt>93816907</OutputInterfaceTxPkt>
      <OutputInterfaceTxPktECNMark>0</OutputInterfaceTxPktECNMark>
      <OutputInterfaceTxByte>9194056886</OutputInterfaceTxByte>
      <OutputInterfaceAIEcnEnable>0</OutputInterfaceAIEcnEnable>
      <OutputInterfaceAIEcnMode>Centralized</OutputInterfaceAIEcnMode>
      <TimeStamp>983992172</TimeStamp>
      <Input>
        <InputInterfaceLocation>Remote</InputInterfaceLocation>
        <InputInterface>4</InputInterface>
        <InputInterfaceName>GigabitEthernet0/0/1</InputInterfaceName>
        <InputInterfaceSpeed>10000</InputInterfaceSpeed>
        <Flownum>1</Flownum>
        <BigFlowNum>0</BigFlowNum>
        <ServicePkts>5000</ServicePkts>
        <ServicePktLen>300000</ServicePktLen>
        <NAKPkts>0</NAKPkts>
        <RTT>0</RTT>
      </Input>
    </RoceV2IntfStatistic>
  </RoceV2IntfStatisticEvent>
</notification>
```

Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputInterfaceLocation	The Location of outputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	N/A
OutputInterface	Source to destination Output interface index	N/A	Unsigned integer.	N/A
OutputInterfaceSpeed	The speed of output interface	N/A	Unsigned integer.	N/A
OutputInterfaceQueue	The value of queue number	N/A	Unsigned integer. Value range: 0 to 255	N/A
OutputInterfaceAverSpeed	The actual speed of output inteface	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	N/A
OutputInterfaceWredLowLimit	The lower limit of the queue	N/A	Unsigned integer.	N/A
OutputInterfaceWredHighLimit	The higher limit of the queue	N/A	Unsigned integer.	N/A
OutputInterfaceWredDiscard	The drop probability of the queue	N/A	Unsigned integer. Value range: 0 to 65535	N/A
OutputInterfaceDevUUID	The UUID of mlag slave	N/A	String,case-sensitive:	Exist only the column of OutputInterfaceLocation is Remote
OutputInterfaceAvgQlen	Average length of the output interface queue	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	N/A
OutputInterfaceTxPkt	Total number of sent packets for the output interface queue	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	N/A
OutputInterfaceTxPktECNMark	Total number of sent packets with the ECN mark for the output interface queue	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	N/A
OutputInterfaceTxByte	Total number of sent bytes for the output interface queue	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	N/A
OutputInterfaceAIEcnEnable	Whether enable ECN of the output interface queue	N/A	Boolean: • **true** • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputInterfaceAIEcnMode	The ECN mode of the output interface queue	N/A	String,case-sensitive: • Centralized: Specifies that the analyzer calculates the ECN triggering threshold and communicates it to devices. • Distributed: Specifies that the device itself intelligently sets the optimal ECN triggering threshold. • Neural: Specifies that the neural network algorithm of the device intelligently sets the optimal ECN triggering threshold. • N/A:invalid mode	N./A
TimeStamp	Absolute timestamp	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	N/A
InputInterfaceLocation	The Location of inputinterface is mlag master or mlag slave	N/A	String,case-sensitive: • Local:mlag master • Remote:mlag slave	repeated multiple times,up to 16 times
InputInterface	Source to destination Input interface index	N/A	Unsigned integer.	repeated multiple times,up to 16 times
InputInterfaceSpeed	The speed of input interface	N/A	Unsigned integer.	repeated multiple times,up to 16 times Speed In M, for example: If the current speed of the interface is 1G, the value is 1000
Flownum	number of flows from the Input interface to the output interface	N/A	Unsigned integer.	repeated multiple times,up to 16 times
BigFlowNum	number of big flows from the Input interface to the output	N/A	Unsigned integer.	repeated multiple times,up to 16 times

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			The big flow refers to 0.1% of the total bandwidth of the input interface
ServicePkts	Number of Source to Destination Read/Write/Send Packets within 3s	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	repeated multiple times,up to 16 times
ServicePktLen	Read/Write/Send packet lenth within 3s	N/A	Unsigned integer Value range: 0 to 18446744073709551615.	repeated multiple times,up to 16 times
NAKPkts	Number of Source to Destination NAK Packets within 3s	N/A	Unsigned integer. Value range: 0 to 18446744073709551615.	0 means no NAKPkts was obtained. repeated multiple times,up to 16 times
RTT	Source to Destination average value of RTT time within 3s	N/A	Unsigned integer. Value range: 0 to 18446744073709551615	0 means no S2DRTT was obtained. repeated multiple times,up to 16 times

Contents

NETCONF 2
Common Error Message 2

NETCONF

Common Error Message

Message	Explanation
Invalid value. 非法输入值。	Invalid value. NETCONF处理通用错误，设置操作的值不符合模块要求。
Can't issue the configuration because of configuration conflict. 当前配置与系统已有配置冲突。	Can't issue the configuration because of configuration conflict. NETCONF处理通用错误，设置操作的配置与系统现有配置冲突。
Configuration already exists. 配置已存在。	Configuration already exists. NETCONF处理通用错误，Create操作时，要创建的配置已存在。
Configuration target does not exist. 配置对象不存在。	Configuration target does not exist. NETCONF处理通用错误，SET的对象不存在。
Configuration does not exist. 配置不存在。	Configuration does not exist, delete operation failed. NETCONF处理通用错误，Delete操作，要删除的配置不存在。
The configuration not supported on the specified target. 指定配置对象不支持对应配置。	The configuration not supported on the specified target. NETCONF处理通用错误，当前对象不支持此配置。例如：在一个只支持二层接口的表里面，用户下发了一个三层接口来进行设置操作。
The session does not have the privilege to process the request. 权限不足，不能执行本次操作。	The session does not have the privilege to process the request. NETCONF处理通用错误，当前用户对当前对象没有RBAC权限。
Resources are insufficient for processing the request. 系统资源不足，请求无法完成。	Resources are insufficient for processing the request. NETCONF处理通用错误，系统资源不足，不能完成本次操作。比如配置资源已经达到了系统规格上限。
The system does not support this operation. 系统不支持当前操作。	The system does not support this operation. NETCONF处理通用错误，不支持当前操作。
Operation failed. 操作失败。	Operation failed. NETCONF处理通用错误，上面所述场景之外的错误。
Expecting element '%s':'%s' under element '%s'. 元素'%s'下缺失元素'%s':'%s'	Expecting element '*path*'. Schema一般错误，必须的元素缺失,其xpath路径为*path*
The element '%s' should have an attribute '%s'. 元素'%s'缺失属性'%s'。	The element *'a'* should have an attribute *'b'.* Schema一般错误，元素*a*必须的属性*b*缺失
The value of element '%s' is invalid. %s 元素'%s'的值无效。%s	The value of element *'a'* is invalid. *Reason* Schema一般错误，元素的*a*值无效，具体原因是：*reason*。
The value of attribute '%s' for element '%s' is invalid. %s 元素'%s'的属性'%s'的值无效。%s	The value of attribute *'a'* for element *'b'* is invalid. *Reason* Schema一般错误，元素*b*的属性*a*的值无效，具体原因是：*reason*。
The number of occurrences of element '%s/%s' is invalid.	The number of occurrences of element '%s/%s' is invalid. Schema一般错误，元素出现的次数不正确。

元素'%s/%s'的出现次数不正确。	
Unexpected element '%s':'%s' under element '%s'. 元素'%s'下意外出现元素'%s':'%s'。	Unexpected element '%s'. Schema一般错误，意外出现一个元素。
Unexpected attribute '%s':'%s' of element '%s'. 元素'%s'意外出现属性'%s':'%s'。	Unexpected attribute '%s' of element '%s'. Schema一般错误，意外出现一个属性。
The child elements of '%s' are invalid. '%s'的子元素无效。	The child elements of '%s' are invalid. Schema一般错误，指定位置元素下的子元素出现次数不正确。
Element '%s' can not have a textual child element. 元素'%s'不能出现文本类型的子元素。	Element '%s' can not have a textual child element. Schema一般错误，元素%s不能出现文本。
Element '%s' can not have a child element. 元素'%s'不能出现子元素。	Element '%s' can not have a child element. Schema一般错误，元素%s不能出现子节点。
%%.%lus is an invalid value of %%s type value. %%.%lus不是有效的%%s类型值。	*value* is an invalid value of *type* type value. Schema一般错误，元素或者属性的值不是一个有效的XSD类型的值
%s cannot be empty. %s不能为空。	%s cannot be empty. Schema一般错误，元素不能为空
The value does not match the regular expression. 元素值与正则表达式不匹配。	The value does not match the regular expression. Schema一般错误，元素值和xsd定义的正则表达式不匹配。
The value does not match the enumeration. 元素值与枚举值不匹配。	The value does not match the enumeration. Schema一般错误，元素值和xsd定义的enumeration枚举值不匹配。
The length must be equal to %s. 元素值长度必须等于%s。	The length must be equal to %s. Schema一般错误，元素长度和xsd定义的长度不相等。
The total digit length must be equal to %s. 元素值的数字总长度必须等于%s。	The total digit length must be equal to %s. Schema一般错误，元素的数字总长度和xsd定义的长度不相等。
The length must be less than or equal to %s. 元素值长度必须小于等于%s。	The length must be less than or equal to maxLength. Schema一般错误，元素的长度大于xsd定义的maxLength最大长度时。
The length must be greater than or equal to %s. 元素值长度必须大于等于%s。	The length must be greater than or equal to minLength. Schema一般错误，元素的长度小于xsd定义的minLength最小长度时。
The value must be less than %s. 元素值必须小于%s。	The value must be less than maxExclusive. Schema一般错误，元素的值大于等于xsd定义的maxExclusive最大值时。
The value must be greater than %s. 元素值必须大于%s。	The value must be greater than minExclusive. Schema一般错误，元素的值小于等于xsd定义的minExclusive最小值时。
The value must be less than or equal to %s. 元素值必须小于等于%s。	The value must be less than or equal to maxInclusive. Schema一般错误，元素的值大于xsd定义的maxInclusive最大值时。
The value must be greater than or equal to %s. 元素值必须大于等于%s。	The value must be greater than or equal tominInclusive. Schema一般错误，元素的值小于xsd定义的minInclusive最小值时。

Contents

Netmeister 1
Netmeister/Configuration 1
XML structure 1
Table description 1
Columns 1

Netmeister

Netmeister/Configuration

Enable or disable the Netmeister feature.

XML structure

```
<Netmeister>
  <Configuration>
    <Enable></Enable>
  </Configuration>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	EnableNetmeister
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the netmeister feature.	N/A	Enumeration: • enable • disable	The default is false.

Contents

Netmeister 1
Netmeister/Account 1
XML structure 1
Table description 1
Columns 1
Netmeister/Parents 2
XML structure 2
Table description 2
Columns 2
Netmeister/Proxy 3
XML structure 3
Table description 3
Columns 3

Netmeister

Netmeister/Account

This table is used to configure the account used to establish a connection with NetMeister.

XML structure

```
<Netmeister>
  <Account>
    <Name></Name>
    <PasswordType></PasswordType>
    <Password></Password>
  </Account>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Account
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Account name	Index	String. Length: 2 to 31 characters. Only lowercase English letters, numbers and hyphens "-" are allowed, and the beginning and end cannot be hyphens "-".
PasswordType	N/A	Index	Enumeration. • 1—Cipher • 2—Simple
Password	N/A	Index	String, case-sensitive. PasswordType：Simple

Column name	Column description	Column type	Data type and restrictions
			Length: 41 to 73 characters. PasswordType：Cipher Length: 8 to 31 characters.

Netmeister/Parents

This table is used to configure the parent address and port number.

XML structure

```
<Netmeister>
  <Parents>
    <Parent>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
    </Parent>
  </Parents>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Parents
Table type	Multi-instance table
Row name	Parent
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
PortNumber	Port number.	Index	Unassigned integer. Value range: 1 to 65535. Default value:443	N/A

Netmeister/Proxy

This table is used to specify the proxy server.

XML structure

```
<Netmeister>
  <Proxy>
    <Url></Url>
    <Username></Username>
    <PasswordType></PasswordType>
    <Password></Password>
  </Proxy>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Proxy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url		Index	String, case-sensitive. Length: 8 to 128 characters.	N/A
Username		N/A	String, case-sensitive. Length: 1 to 31 characters.	Cannot include "\", """, "?" and spaces.
PasswordType		N/A	Enumeration. • 1—Cipher • 2—Simple	
Password		N/A	String, case-sensitive. PasswordType：Simple Length: 41 to 73 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			PasswordType：Cipher Length: 8 to 31 characters.	

Contents

Netmeister 1
Netmeister/Configuration 1
XML structure 1
Table description 1
Columns 1
Netmeister/Account 1
XML structure 1
Table description 2
Columns 2
Netmeister/Parents 2
XML structure 2
Table description 3
Columns 3
Netmeister/Proxy 3
XML structure 3
Table description 4
Columns 4

Netmeister

Netmeister/Configuration

Enable or disable the Netmeister feature.

XML structure

```
<Netmeister>
  <Configuration>
    <Enable></Enable>
  </Configuration>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	EnableNetmeister
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the netmeister feature.	N/A	Enumeration: • enable • disable	The default is false.

Netmeister/Account

This table is used to configure the account used to establish a connection with NetMeister.

XML structure

```
<Netmeister>
  <Account>
    <Name></Name>
    <PasswordType></PasswordType>
```

```
    <Password></Password>
  </Account>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Account
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Account name	Index	String. Length: 2 to 31 characters. Only lowercase English letters, numbers and hyphens "-" are allowed, and the beginning and end cannot be hyphens "-".
PasswordType		Index	Enumeration. • 1—Cipher • 2—Simple
Password		Index	String, case-sensitive. PasswordType：Simple Length: 41 to 73 characters. PasswordType：Cipher Length: 8 to 31 characters.

Netmeister/Parents

This table is used to configure the parent address and port number.

XML structure

```
<Netmeister>
  <Parents>
    <Parent>
      <Ipv4Address></Ipv4Address>
```

```
      <PortNumber></PortNumber>
    </Parent>
  </Parents>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Parents
Table type	Multi-instance table
Row name	Parent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
PortNumber	Port number.	Index	Unassigned integer. Value range: 1 to 65535.	N/A

Netmeister/Proxy

This table is used to specify the proxy server.

XML structure

```
<Netmeister>
  <Proxy>
    <Url></Url>
    <Username></Username>
    <PasswordType></PasswordType>
    <Password></Password>
  </Proxy>
</Netmeister>
```

Table description

Item	Description
Feature name	Netmeister
Table name	Proxy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url		Index	String, case-sensitive. Length: 8 to 128 characters.	N/A
Username		N/A	String, case-sensitive. Length: 1 to 31 characters.	Cannot include "\", """, "?" and spaces.
PasswordType		N/A	Enumeration. • 1—Cipher • 2—Simple	
Password		N/A	String, case-sensitive. PasswordType：Simple Length: 41 to 73 characters. PasswordType：Cipher Length: 8 to 31 characters.	

Contents

NETSHARE 1
NETSHARE/FreezeIP 1
XML structure 1
Table description 1
Columns 1
NETSHARE/UnfreezeIP 2
XML structure 2
Table description 2
Columns 3

NETSHARE

NETSHARE/FreezeIP

This table is used to freeze IP addresses.

XML structure

```
<NETSHARE>
  <FreezeIP>
    <IPAddress></IPAddress>
    <VrfName></VrfName>
    <Freezetime></Freezetime>
  </FreezeIP>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	FreezeIP
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A
Freezetime	Freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 5 to 720.	N/A

NETSHARE/UnfreezeIP

This table is used to unfreeze IP addresses.

XML structure

```
<NETSHARE>
  <UnfreezeIP>
    <IPAddress></IPAddress>
    <VrfName></VrfName>
  </UnfreezeIP>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	UnfreezeIP
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A

Contents

NETSHARE 1
NETSHARE/Policies 1
XML structure 1
Table description 1
Columns 2
NETSHARE/PolicyJsonOptions 2
XML structure 3
Table description 3
Columns 3

NETSHARE

NETSHARE/Policies

This table contains netshare control policy information.

XML structure

```
<NETSHARE>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <Enable></Enable>
      <IPIDtrailsw></IPIDtrailsw>
      <IPtmmaxnum></IPtmmaxnum>
      <Action></Action>
      <Freezetime></Freezetime>
      <Logging></Logging>
    </Policy>
  </Policies>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the netshare control policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PolicyDescription	Description of the policy	N/A	String: case-sensitive. Length: 1 to 127 characters.	N/A
Enable	Enabling status of the policy	N/A	Boolean: • true • false	The default value is true.
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: • false • true	The default value is false.
IPtmmaxnum	Max number of terminals for each IP	N/A	Unsigned integer: Value range: 1 to 15.	N/A
Action	Action for shared IP addresses with excessive terminals	N/A	Enumeration: • **0**—permit. • **1**—freeze.	N/A
Freezetime	Freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 5 to 720.	N/A
Logging	Log the event that a shared IP address has excessive terminals	N/A	Boolean: • false • true	The default value is false.

NETSHARE/PolicyJsonOptions

This table contains the match criteria information in the netshare control policy.

XML structure

```
<NETSHARE>
  <PolicyJsonOptions>
    <OptionJson>
      <PolicyJsonName></PolicyJsonName>
      <OptionJsonType></OptionJsonType>
      <OptionJsonValue></OptionJsonValue>
    </OptionJson>
  </PolicyJsonOptions>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	PolicyJsonOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyJsonName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionJsonType	Type of the criteria in the policy	Index	Enumeration: • **1**—SourceZones. • **2**—DestZones. • **3**—SourceAddressSetsIPV4. • **4**—SourceAddressSetsIPV6. • **5**—DestAddressSetsIPV4. • **6**—DestAddressSetsIPV6. • **7**—Users.

Column name	Column description	Column type	Data type and restrictions
			• **8**—UserGroups.
OptionJsonValue	Match criteria content	Index	String, case-insensitive. Length: 1 to 65535.

Contents

NETSHARE 1
NETSHARE/Policies 1
XML structure 1
Table description 1
Columns 1
NETSHARE/PolicyOptions 2
XML structure 2
Table description 3
Columns 3
NETSHARE/ShareStatusInfors 4
XML structure 4
Table description 4
Columns 5

NETSHARE

NETSHARE/Policies

This table contains netshare control policy information.

XML structure

```
<NETSHARE>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <OptionContent></OptionContent>
      <Enable></Enable>
      <IPIDtrailsw></IPIDtrailsw>
      <IPtmmaxnum></IPtmmaxnum>
      <Action></Action>
      <Freezetime></Freezetime>
      <Logging></Logging>
    </Policy>
  </Policies>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyName	Name of the netshare	Index	String, case-insensitive.

Column name	Column description	Column type	Data type and restrictions
	control policy		Length: 1 to 63 characters.
PolicyDescription	Description of the policy	N/A	String: case-sensitive. Length: 1 to 127 characters.
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 65535.
Enable	Enabling status of the policy	N/A	Boolean: • true • false
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: • false • true
IPtmmaxnum	Max number of terminals for each IP	N/A	Unsigned integer. Value range: 1 to 15.
Action	Action for shared IP addresses with excessive terminals	N/A	Enumeration: • **0**—permit. • **1**—freeze
Freezetime	Freezing time	N/A	Unsigned integer Unit: Minute. Value range: 5 to 720.
Logging	Log the event that a shared IP address has excessive terminals	N/A	Boolean: • false • true

NETSHARE/PolicyOptions

This table contains the match criteria information in the netshare control policy.

XML structure

```
<NETSHARE>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionSeqNum></OptionSeqNum>
```

```
      <OptionType></OptionType>
      <OptionValue></OptionValue>
    </Option>
  </PolicyOptions>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	PolicyOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionSeqNum	Sequence number of the match criterion after which the operation starts	Index	Unsigned integer. Value range: 1 to 2^{32} - 1.
OptionType	Type of the criteria in the policy	N/A	Enumeration: • **1**—SourceZones. • **2**—DestZones. • **3**—SourceAddressSetsIPV4. • **4**—SourceAddressSetsIPV6. • **5**—DestAddressSetsIPV4. • **6**—DestAddressSetsIPV6. • **7**—Users. • **8**—UserGroups.
OptionValue	Match criteria content	N/A	String, case-insensitive. Length: 1 to 65535 characters.

NETSHARE/ShareStatusInfors

This table contains netshare control information.

XML structure

```
<NETSHARE>
  <ShareStatusInfors>
    <StatusInfors>
      <Chassis></Chassis>
      <Slot></Slot>
      <CpuID></CpuID>
      <TotalCount></TotalCount>
      <PositionOnNode></PositionOnNode>
      <DataType></DataType>
      <Mask></Mask>
      <VrfName></VrfName>
      <IPAddress></IPAddress>
      <Status></Status>
      <User></User>
      <TerminalNum></TerminalNum>
      <Policyname></Policyname>
      <RemainingTime></RemainingTime>
    </StatusInfors>
  </ShareStatusInfors>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	ShareStatusInfors
Table type	Multi-instance table
Row name	StatusInfors
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CpuID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
TotalCount	Total count	Index	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
PositionOnNode	Sequence number of the netshare control information after which the operation starts	Index	Unsigned integer. Value range: 1 to 2^{32} - 1.	N/A
DataType	Type of the filter keyword	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Mask	Mask value of node	Index	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A
IPAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Status	Status of the shared IP address	N/A	Enumeration: • **0**—invalid. • **1**—frozen. • **2**—unfrozen.	N/A
User	Username suffixed with	N/A	String: case-insensitive.	N/A

	domain name		Length: 1 to 311	
TerminalNum	Number of terminals	N/A	Unsigned integer. Value range: 1 to 15.	N/A
Policyname	Policy name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A
RemainingTime	Remaining freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 0 to 720.	When the status is unfrozen, the remaining time is 0.

Contents

Netshare 2
Netshare/Policy 2
Netshare/Policy/Option 2
Netshare/Freeze 2
Netshare/UnFreeze 3
Netshare/ShareStatusInfors 3

Netshare

Netshare/Policy

Message	Explanation
Can't create new NetShare control policy because only one NetShare control policy can be created. 最多可以配置一个共享上网管理策略。	Currently the NetShare module allows only one policy to be created. 目前共享上网模块仅允许配置一个策略。
The policy name already exists. 策略名称已存在。	The policy name is being used by another policy. 当前配置的策略名称已存在。
The specified policy does not exist. 策略不存在。	The policy does not exist. 要操作的策略已不存在。

Netshare/Policy/Option

Message	Explanation
Maximum number of source IP addresses already reached. 配置的源IP地址数量超过上限。	The number of source IP address referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的源IP地址数量已超过上限，上限数量为1024。
Maximum number of destination IP addresses already reached. 配置的目的IP地址数量超过上限。	The number of destination IP address referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的目的IP地址数量已超过上限，上限数量为1024。
Maximum number of source security zones already reached. 配置的源安全域数量超过上限。	The number of source security zones referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的源安全域数量已超过上限，上限数量为1024。
Maximum number of destination security zones already reached. 配置的目的安全域数量超过上限。	The number of destination security zones referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的目的安全域数量已超过上限，上限数量为1024。
Maximum number of users already reached. 配置的用户数量超过上限。	The number of users referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的用户数量已超过上限，上限数量为1024。
Maximum number of user groups already reached. 配置的用户组数量超过上限。	The number of user groups referenced by the policy has exceeded the upper limit. The maximum number is 1024. 策略引用的用户组数量已超过上限，上限数量为1024。
The specified VPN instance does not exist. VPN实例不存在。	The VPN instance does not exist. VPN实例不存在。

Netshare/Freeze

Message	Explanation
The IP address is frozen.	The specified IP address is frozen.

IP地址已经被冻结。	想要操作的IP地址已经被冻结

Netshare/UnFreeze

Message	Explanation
The IP address is not frozen. 指定的IP地址未被冻结。	The specified IP address is unfrozen. 想要操作的IP地址已经被解冻。

Netshare/ShareStatusInfors

Message	Explanation
The IP address is not on the shared IP address list. 共享状态列表中不存在该IP地址。	The specified IP address does not exist in the shared status list. 想要操作的IP地址不存在共享列表中。

Contents

NETSLICING 1
NETSLICING/ClearStatistics 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 1
Responsed columns 2

NETSLICING

NETSLICING/ClearStatistics

This table is used to clear network slicing statistics.

XML structure

```
<NETSLICING>
  <ClearStatistics>
    <Clear>
     <ClearType></ClearType>
     <SliceID></SliceID>
     <IfIndex></IfIndex>
    </Clear>
  </ClearStatistics>
</NETSLICING>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	NETSLICING
Table name	ClearStatistics
Table type	Multi-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClearType	Clear type	index	Enumeration: • **0**—All. • **1**—Specific.	To clear all network slicing statistics, set the value to 0. The SliceID and IfIndex columns are ignored. To clear specific network slicing statistics, set the value

Column name	Column description	Column type	Data type and restrictions	Remarks
				to 1 and specify the SliceID column, the IfIndex column, or both.
SliceID	ID of a network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
IfIndex	Interface index or interface name	N/A	Unsigned integer and string union: • Unsigned integer. • String. Length: 1 to 47 characters.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Responsed columns

N/A

Contents

NETSLICING 1
NETSLICING/NetworkSlice 1
XML structure 1
Table description 2
Columns 2
NETSLICING/NetworkSlice/Attributes 2
XML structure 2
Table description 2
Columns 3
NETSLICING/NetworkSlice/Instances 3
XML structure 3
Table description 3
Columns 4
NETSLICING/NetworkSlice/Interfaces 4
XML structure 4
Table description 4
Columns 4
NETSLICING/NetworkSlice/Interfaces/InterfaceSlices 5
XML structure 5
Table description 5
Columns 5
NETSLICING/NetworkSlice/ColorMappings 5
XML structure 6
Table description 6
Columns 6

NETSLICING

NETSLICING/NetworkSlice

This table contains configuration information for network slicing.

XML structure

```
<NETSLICING>
  <NetworkSlice>
    <Attributes>
      <SliceEnable></SliceEnable>
      <StatisticsEnable></StatisticsEnable>
      <StatisticsInterval></StatisticsInterval>
      <ProtocolNumber></ProtocolNumber>
    </Attributes>
    <Instances>
      <Instance>
        <SliceID></SliceID>
        <Description></Description>
      </Instance>
    </Instances>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <BasicSliceID></BasicSliceID>
        <InterfaceSlices>
          <InterfaceSlice>
            <SliceID></SliceID>
            <FlexChannel></FlexChannel>
            <DataPlane></DataPlane>
          </InterfaceSlice>
        </InterfaceSlices>
      </Interface>
    </Interfaces>
    <ColorMappings>
      <ColorMapping>
        <Color></Color>
```

```
        <SliceID></SliceID>
      </ColorMapping>
    </ColorMappings>
  </NetworkSlice>
</NETSLICING>
```

Table description

Item	Description
Feature name	NETSLICING
Table name	NetworkSlice
Table type	Single-instance table
Row name	NetworkSlice
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Attributes	Attributes for network slicing	Subtable	For details of the subtable, refer to the Attributes table.	N/A
Instances	Instances for network slicing	Subtable	For details of the subtable, refer to the Instances table.	N/A
Interfaces	Interfaces for network slicing	Subtable	For details of the subtable, refer to the Interfaces table.	N/A
ColorMappings	Color mapping for network slicing	Subtable	For details of the subtable, refer to the ColorMappings table.	N/A

NETSLICING/NetworkSlice/Attributes

This table contains attribute information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Attributes
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceEnable	Enabling status of global network slicing	N/A	Enumeration: • **0**—Disabled (default). • **1**—Enabled.	N/A
StatisticsEnable	Enabling status of traffic statistics for network slicing	N/A	Enumeration: • **0**—Disabled (default). • **1**—Enabled.	N/A
StatisticsInterval	Statistics collection interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds. Default: 30 seconds.	N/A
ProtocolNumber	Protocol number	N/A	Unsigned integer. Value range: 0, 160 to 252. Default: 0.	N/A

NETSLICING/NetworkSlice/Instances

This table contains instance information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceID	ID of a network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Description	Description for the network slice instance	N/A	String. Length: 1 to 80 characters.	N/A

NETSLICING/NetworkSlice/Interfaces

This table contains interface information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	Unsigned integer and string union: • Unsigned integer. • String. Length: 1 to 47 characters.	Cannot disable the attribute column by merge or replace. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BasicSliceID	ID of a basic network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
InterfaceSlices	Interface-specific network slice instance	Sublist	For details of the sublist, refer to the InterfaceSlices table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	information			

NETSLICING/NetworkSlice/Interfaces/InterfaceSlices

This table contains network slice instance information on interfaces.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	InterfaceSlices
Table type	Multi-instance table
Row name	InterfaceSlices
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceID	ID of a network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
FlexChannel	Bandwidth for the network slice instance	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
DataPlane	Set dataplane for the network slice instance	N/A	Enumeration: • **True**. • **False**.	N/A

NETSLICING/NetworkSlice/ColorMappings

This table contains color mapping information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	ColorMappings
Table type	Multi-instance table
Row name	ColorMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Color	Color associated with the network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
SliceID	ID of a network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Contents

NETSLICING 1
NETSLICING/NetworkSlice 1
XML structure 1
Table description 3
Columns 3
NETSLICING/NetworkSlice/Attributes 3
XML structure 3
Table description 4
Columns 4
NETSLICING/NetworkSlice/Instances 4
XML structure 4
Table description 4
Columns 5
NETSLICING/NetworkSlice/Interfaces 5
XML structure 5
Table description 5
Columns 5
NETSLICING/NetworkSlice/Interfaces/InterfaceSlices 6
XML structure 6
Table description 6
Columns 6
NETSLICING/NetworkSlice/Stats 6
XML structure 6
Table description 7
Columns 7
NETSLICING/NetworkSlice/Stats/QueueStats 7
XML structure 7
Table description 7
Columns 8
NETSLICING/NetworkSlice/Stats/TotalStats 9
XML structure 9
Table description 9
Columns 9
NETSLICING/NetworkSlice/ColorMappings 10
XML structure 10
Table description 10
Columns 10

NETSLICING

NETSLICING/NetworkSlice

This table contains configuration information for network slicing.

XML structure

```
<NETSLICING>
  <NetworkSlice>
    <Attributes>
      <SliceEnable></SliceEnable>
      <StatisticsEnable></StatisticsEnable>
      <StatisticsInterval></StatisticsInterval>
      <ProtocolNumber></ProtocolNumber>
    </Attributes>
    <Instances>
      <Instance>
        <SliceID></SliceID>
        <Description></Description>
      </Instance>
    </Instances>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <IfName></IfName>
        <BasicSliceID></BasicSliceID>
        <InterfaceSlices>
          <InterfaceSlice>
            <SliceID></SliceID>
            <FlexChannel></FlexChannel>
            <DataPlane></DataPlane>
          </InterfaceSlice>
        </InterfaceSlices>
      </Interface>
    </Interfaces>
    <Stats>
      <Statistics>
```

```
    <IfIndex></IfIndex>
    <SliceID></SliceID>
    <IfName></IfName>
    <QueueStats>
      <QueueStat>
        <Type></Type>
        <PassPackets></PassPackets>
        <PassBytes></PassBytes>
        <DiscardPackets></DiscardPackets>
        <DiscardBytes></DiscardBytes>
        <AvgPassPps></AvgPassPps>
        <AvgPassBps></AvgPassBps>
        <AvgDiscardPps></AvgDiscardPps>
        <AvgDiscardBps></AvgDiscardBps>
        <RtPassPps></RtPassPps>
        <RtPassBps></RtPassBps>
        <RtDiscardPps></RtDiscardPps>
        <RtDiscardBps></RtDiscardBps>
      </QueueStat>
    </QueueStats>
    <TotalStats>
      <TotalStat>
        <PassPackets></PassPackets>
        <PassBytes></PassBytes>
        <DiscardPackets></DiscardPackets>
        <DiscardBytes></DiscardBytes>
        <AvgPassPps></AvgPassPps>
        <AvgPassBps></AvgPassBps>
        <AvgDiscardPps></AvgDiscardPps>
        <AvgDiscardBps></AvgDiscardBps>
        <RtPassPps></RtPassPps>
        <RtPassBps></RtPassBps>
        <RtDiscardPps></RtDiscardPps>
        <RtDiscardBps></RtDiscardBps>
      </TotalStat>
    </TotalStats>
  </Statistics>
</Stats>
```

```
    <ColorMappings>
      <ColorMapping>
        <Color></Color>
        <SliceID></SliceID>
      </ColorMapping>
    </ColorMappings>
  </NetworkSlice>
</NETSLICING>
```

Table description

Item	Description
Feature name	NETSLICING
Table name	NetworkSlice
Table type	Single-instance table
Row name	NetworkSlice
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Attributes	Attributes for network slicing	Subtable	For details of the subtable, refer to the Attributes table.	N/A
Instances	Instances for network slicing	Subtable	For details of the subtable, refer to the Instances table.	N/A
Interfaces	Interfaces for network slicing	Subtable	For details of the subtable, refer to the Interfaces table.	N/A
Stats	Traffic statistics for network slicing	Subtable	For details of the subtable, refer to the Stats table.	N/A
ColorMappings	Color mapping for network slicing	Subtable	For details of the subtable, refer to the ColorMappings table.	N/A

NETSLICING/NetworkSlice/Attributes

This table contains attribute information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Attributes
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceEnable	Enabling status of global network slicing	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
StatisticsEnable	Enabling status of traffic statistics for network slicing	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
StatisticsInterval	Statistics collection interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds.	N/A
ProtocolNumber	Protocol number	N/A	Unsigned integer. Value range: 0, 160 to 252.	N/A

NETSLICING/NetworkSlice/Instances

This table contains instance information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceID	ID of a network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Description	Description for the network slice instance	N/A	String. Length: 1 to 80 characters.	N/A

NETSLICING/NetworkSlice/Interfaces

This table contains interface information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	Unsigned integer and string union: • Unsigned integer. • String. Length: 1 to 47 characters.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
BasicSliceID	ID of a basic network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
InterfaceSlices	Interface-specific network slice instance information	Sublist	For details of the sublist, refer to the InterfaceSlices table.	N/A

NETSLICING/NetworkSlice/Interfaces/InterfaceSlices

This table contains network slice instance information on interfaces.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	InterfaceSlices
Table type	Multi-instance table
Row name	InterfaceSlice
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SliceID	ID of a network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
FlexChannel	Bandwidth for the network slice instance	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
DataPlane	Dataplane for the network slice instance	N/A	Enumeration: • **True**. • **False**.	N/A

NETSLICING/NetworkSlice/Stats

This table contains traffic statistics for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	Stats
Table type	Multi-instance table
Row name	statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	Unsigned integer and string union: • Unsigned integer. • String. Length: 1 to 47 characters.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SliceID	ID of a network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
QueueStats	Queue-based traffic statistics for network slicing	Subtable	For details of the subtable, refer to the QueueStats table.	N/A
TotalStats	Total traffic statistics for network slicing	Subtable	For details of the subtable, refer to the TotalStats table.	N/A

NETSLICING/NetworkSlice/Stats/QueueStats

This table contains queue-based traffic statistics for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	QueueStats
Table type	Multi-instance table

Row name	QueueStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Queue type	Index	Enumeration: • **0**—be. • **1**—af1. • **2**—af2. • **3**—af3. • **4**—af4. • **5**—ef. • **6**—cs6. • **7**—cs7.	N/A
PassPackets	Total number of packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassBytes	Total number of bytes passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardPackets	Total number of packets discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardBytes	Total number of bytes discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgPassPps	Average rate for packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgPassBps	Average rate for bits passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgDiscardPps	Average rate for packets discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgDiscardBps	Average rate for bits discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtPassPps	Real-time rate for packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtRassBps	Real-time rate for bits passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtDiscardPps	Real-time rate for packets discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtDiscardBps	Real-time rate for bits discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

NETSLICING/NetworkSlice/Stats/TotalStats

This table contains total traffic statistics for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	TotalStats
Table type	Multi-instance table
Row name	TotalStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PassPackets	Total number of packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassBytes	Total number of bytes passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardPackets	Total number of packets discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DiscardBytes	Total number of bytes discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgPassPps	Average rate for packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgPassBps	Average rate for bits passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgDiscardPps	Average rate for packets discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AvgDiscardBps	Average rate for bits discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtPassPps	Real-time rate for packets passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtRassBps	Real-time rate for bits passed	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RtDiscardPps	Real-time rate for packets	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	discarded		Value range: 0 to 2^{64} - 1.	
RtDiscardBps	Real-time rate for bits discarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

NETSLICING/NetworkSlice/ColorMappings

This table contains color mapping information for network slicing.

XML structure

Please refer to the XML Structure of NETSLICING/NetworkSlice.

Table description

Item	Description
Feature name	NETSLICING
Table name	ColorMappings
Table type	Multi-instance table
Row name	ColorMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Color	Color associated with the network slice instance	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
SliceID	ID of a network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Contents

NETSLICING 2
NETSLICING/NetworkSlice/Attributes 2
NETSLICING/NetworkSlice/Instances 2
NETSLICING/NetworkSlice/Interfaces 2
NETSLICING/NetworkSlice/Interfaces/InterfaceSlices 3
NETSLICING/NetworkSlice/ClearStatistics 4
NETSLICING/NetworkSlice/ColorMappings 4

NETSLICING

NETSLICING/NetworkSlice/Attributes

Message	Explanation
The network slicing process has not started. Netslicing进程未启动。	The network slicing process has not started. Netslicing进程未启动。
The network slicing process is being reset. Netslicing进程正在重置。	The network slicing process is being reset. Netslicing进程正在重置。
This column can be configured only when global network slicing is enabled. 只有将SliceEnable置为1，才能配置该属性列。	This column can be configured only when global network slicing is enabled. 只有将SliceEnable置为1，才能配置该属性列。
This column is not supported when global network slicing is disabled. 不能去使能SliceEnable时指定该属性列。	This column is not supported when global network slicing is disabled. 不能去使能SliceEnable时指定该属性列。
Global network slicing cannot be disabled when network slicing settings have been configured on interfaces. 接口下已配置了切片使能，不能去使能SliceEnable。	Global network slicing cannot be disabled when network slicing settings have been configured on interfaces. 接口下已配置了切片使能，不能去使能SliceEnable。

NETSLICING/NetworkSlice/Instances

Message	Explanation
Maximum number of network slice instances already reached. 已达到最大网络切片实例数。	Maximum number of network slice instances already reached. 已达到最大网络切片实例数。
The network slice instance cannot be deleted, because its ID has been specified for an interface. 接口下配置了该切片ID，实例不能删除。	The network slice instance cannot be deleted, because its ID has been specified for an interface. 接口下配置了该切片ID，实例不能删除。
The instance can't be deleted, because its instance ID has been mapped to a color. color映射使用了该切片ID，实例不能删除。	The instance can't be deleted, because its instance ID has been mapped to a color. color映射使用了该切片ID，实例不能删除。

NETSLICING/NetworkSlice/Interfaces

Message	Explanation
Global network slicing has not been configured. 未配置全局network-slice。	Global network slicing has not been configured. 未配置全局network-slice。
Base interface association can't be configured on the interface, because a network slice channel already exists on the interface. 接口下已存在网络切片通道，则该接口下不能配置	Base interface association can't be configured on the interface, because a network slice channel already exists on the interface. 接口下已存在网络切片通道，则该接口下不能配置BasicSliceID。

BasicSliceID。	
The network slice instance ID specified for the slicing interface can't be associated with another slicing interface. 切片转发接口上配置BasicSliceID指定切片ID不能关联其他切片转发接口。	The network slice instance ID specified for the slicing interface can't be associated with another slicing interface. 切片转发接口上配置BasicSliceID指定切片ID不能关联其他切片转发接口。
Base interface association can't be configured on a Layer 3 main interface or aggregate interface. 三层路由主接口、聚合主接口不允许配置BasicSliceID命令。	Base interface association can't be configured on a Layer 3 main interface or aggregate interface. 三层路由主接口、聚合主接口不允许配置BasicSliceID命令。
Network slicing can't be disabled on the interface, because it has been associated with a slice base interface. 接口下已配置BasicSliceID，则该接口不可以去使能网络切片。	Network slicing can't be disabled on the interface, because it has been associated with a slice base interface. 接口下已配置BasicSliceID，则该接口不可以去使能网络切片。
The base interface association configuration can't be deleted from the interface, because a network slice channel exists on the interface. 切片转发口下已存在网络切片通道，则该接口下不能删除BasicSliceID。	The base interface association configuration can't be deleted from the interface, because a network slice channel exists on the interface. 切片转发口下已存在网络切片通道，则该接口下不能删除BasicSliceID。
Failed to associate the interface with a base interface. Please first create the network slice channel represented by the network slice instance ID on the base interface. 基础接口上如果不存在网络切片通道，则该切片转发接口下不能配置BasicSliceID。	Failed to associate the interface with a base interface. Please first create the network slice channel represented by the network slice instance ID on the base interface. 基础接口上如果不存在网络切片通道，则该切片转发接口下不能配置BasicSliceID。
Network slicing can't be disabled on the interface, because it has been specified as the base interface of a slicing interface. 接口下配置的slice-id，已被切片转发口配置关联BasicSliceID，则该接口不可以去使能网络切片。	Network slicing can't be disabled on the interface, because it has been specified as the base interface of a slicing interface. 接口下配置的slice-id，已被切片转发口配置关联BasicSliceID，则该接口不可以去使能网络切片。
Network slicing can't be enabled on a member port of an aggregate interface. 聚合口成员口不允许配置网络切片。	Network slicing can't be enabled on a member port of an aggregate interface. 聚合口成员口不允许配置网络切片。

NETSLICING/NetworkSlice/Interfaces/InterfaceSlices

Message	Explanation
The network slice instance ID doesn't exist. 切片ID实例不存在。	The network slice instance ID doesn't exist. 切片ID实例不存在。
The Bandwidth column is required. 需要补齐Bandwidth属性列。	The Bandwidth column is required. 需要补齐Bandwidth属性列。
The same network slice instance ID has been configured for the main interface or subinterface. 主接口或者子接口下已配置相同的slice-id。	The same network slice instance ID has been configured for the main interface or subinterface. 主接口或者子接口下已配置相同的slice-id。
The bandwidth value configured for the interface	The bandwidth value configured for the interface exceeds the

exceeds the upper limit. 接口下配置的带宽值超过了最大限制。	upper limit. 接口下配置的带宽值超过了最大限制。
Maximum number of network slice channels already reached. 已达到最大网络切片通道数。	Maximum number of network slice channels already reached. 已达到最大网络切片通道数。
The slice bandwidth configuration conflicts with some existing settings such as HQoS, exclusive bandwidth, CBQ, and MPLS TE bandwidth. 切片带宽配置与HQoS、独占带宽、CBQ、MPLS TE带宽等部分现有配置存在冲突。	The slice bandwidth configuration conflicts with some existing settings such as HQoS, exclusive bandwidth, CBQ, and MPLS TE bandwidth. 切片带宽配置与HQoS、独占带宽、CBQ、MPLS TE带宽等部分现有配置存在冲突。
The sum of the slice bandwidth and the channelized bandwidth configured for the interface exceeds the limit. 接口配置的切片带宽和通道化带宽之和超过限制。	The sum of the slice bandwidth and the channelized bandwidth configured for the interface exceeds the limit. 接口配置的切片带宽和通道化带宽之和超过限制。
The slice id can not configure bandwidth and dataplane at the same time. SliceID不能同时配置Bandwidth和DataPlane。	The slice id can not configure bandwidth and dataplane at the same time. SliceID不能同时配置Bandwidth和DataPlane。
The valid bandwidth or dataplane is required. 需要有效的Bandwidth或者DataPlane属性列。	The valid bandwidth or dataplane is required. 需要有效的Bandwidth或者DataPlane属性列。
The network slice instance ID can't be removed, because it has been specified as the slice instance ID of the base interface for a slicing interface. 接口下配置的slice-id，已被切片转发口关联为BasicSliceID，则该接口下配置的slice-id不可被删除。	The network slice instance ID can't be removed, because it has been specified as the slice instance ID of the base interface for a slicing interface. 接口下配置的slice-id，已被切片转发口关联为BasicSliceID，则该接口下配置的slice-id不可被删除。
Failed to create the network slice channel on the slicing interface, because another network slice channel specified with the data-plane keyword already exists on the slicing interface. 切片转发口下只能配置一条data-plane。	Failed to create the network slice channel on the slicing interface, because another network slice channel specified with the data-plane keyword already exists on the slicing interface. 切片转发口下只能配置一条data-plane。

NETSLICING/NetworkSlice/ClearStatistics

Message	Explanation
To clear specific network slicing statistics, you must specify a network slice instance ID, an interface index or name, or both. 清除指定切片ID或接口下统计数据时，需要指定切片ID或接口索引。	To clear specific network slicing statistics, you must specify a network slice instance ID, an interface index or name, or both. 清除指定切片ID或接口下统计数据时，需要指定切片ID或接口索引。

NETSLICING/NetworkSlice/ColorMappings

Message	Explanation
The SliceID column is required. 需要补齐SliceID属性列。	The SliceID column is required. 需要补齐SliceID属性列。
The network slice instance ID doesn't exist.	The network slice instance ID doesn't exist.

切片ID实例不存在。	切片ID实例不存在。

Contents

NETSTREAM4 1
NETSTREAM4/ClearNS4Statistics 1
XML structure 1
Table description 1
Columns 1

NETSTREAM4

NETSTREAM4/ClearNS4Statistics

This table is used to clear IPv4 NETSTREAM statistics.

XML structure

```
<NETSTREAM4>
  <ClearNS4Statistics>
    <Clear></Clear>
  </ClearNS4Statistics>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	ClearNS4Statistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear IP NETStream statistics	N/A	This column must be empty.	This setting ages out all flows in the cache and export NetStream data.

Contents

NETSTREAM4 1

NETSTREAM4/NS4Enable 1
XML structure 1
Table description 1
Columns 1
NETSTREAM4/NS4Sampler 2
XML structure 2
Table description 2
Columns 2
NETSTREAM4/NS4Filter 3
XML structure 3
Table description 3
Columns 3
NETSTREAM4/NS4V9RefreshTime 4
XML structure 4
Table description 4
Columns 5
NETSTREAM4/NS4V9RefreshPacket 5
XML structure 5
Table description 5
Columns 5
NETSTREAM4/NS4Host 6
XML structure 6
Table description 6
Columns 6
NETSTREAM4/NS4Source 6
XML structure 7
Table description 7
Columns 7
NETSTREAM4/NS4ActiveTime 7
XML structure 7
Table description 7
Columns 8
NETSTREAM4/NS4InActiveTime 8
XML structure 8
Table description 8
Columns 8
NETSTREAM4/NS4MaxEntry 9
XML structure 9
Table description 9
Columns 9
NETSTREAM4/NS4Version 9
XML structure 10
Table description 10
Columns 10
NETSTREAM4/NS4Rate 10
XML structure 11
Table description 11
Columns 11
NETSTREAM4/NS4Aging 11
XML structure 11
Table description 11
Columns 12
NETSTREAM4/NS4IPSECRawPacket 12
XML structure 12
Table description 12
Columns 13

NETSTREAM4/NS4MPLSCollection ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 14
NETSTREAM4/NS4SRv6PolicyEnable ····· 14
XML structure ····· 15
Table description ····· 15
Columns ····· 15
NETSTREAM4/NS4SRv6PolicySampler ····· 15
XML structure ····· 15
Table description ····· 16
Columns ····· 16
NETSTREAM4/NS4GREInnerPacket ····· 16
XML structure ····· 16
Table description ····· 17
Columns ····· 17
NETSTREAM4/NS4HostEx ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 18

NETSTREAM4

NETSTREAM4/NS4Enable

This table contains information about enabling NetStream on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceEnable>
  </NS4Enable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Enable
Table type	Multi-instance table
Row name	InterfaceEnable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Traffic direction	N/A	Enumeration: • **0**—Disable(default). • **1**—Enables NetStream for incoming traffic. • **2**—Enables NetStream	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			for outgoing traffic. • **3**—Enables NetStream for incoming and outgoing traffic.	

NETSTREAM4/NS4Sampler

This table contains information about enabling NetStream sampling on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS4Sampler>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Traffic direction	Index	Enumeration: • 1—Incoming traffic. • 2—Outgoing traffic.	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM4/NS4Filter

This table contains information about enabling NetStream filtering an interface.

XML structure

```
<NETSTREAM4>
  <NS4Filter>
    <InterfaceFilter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <AclNumber></AclNumber>
    </InterfaceFilter>
  </NS4Filter>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Filter
Table type	Multi-instance table
Row name	InterfaceFilter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex,

Column name	Column description	Column type	Data type and restrictions	Remarks
				see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Traffic direction	Index	Enumeration: • **1**—Incoming traffic. • **2**—Outgoing traffic.	N/A
AclNumber	IPv4 ACL number	N/A	Unsigned integer. For an IPv4 basic ACL, the value range is 2000 to 2999. For an IPv4 advanced ACL, the value range is 3000 to 3999. For an IPv4 MAC ACL, the value range is 4000 to 4999. For an IPv4 user-defined ACL, the value range is 5000 to 5999.	NetStream filtering uses an ACL to identify target packets. If you want to collect data for specific flows, use the ACL permit statements to identify the flows. NetStream collects data only for these flows. If you do not want to collect data for specific flows, use the ACL deny statements to identify the flows. NetStream does not collect data for these flows. The value range for IPv4 ACL number varies by product branch. For more information about the value range in a product branch, see that product branch.

NETSTREAM4/NS4V9RefreshTime

This table contains information about the refresh rate of time for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshTime>
    <Time></Time>
  </NS4V9RefreshTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshTime
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Time	Interval at which the template is sent	N/A	Unsigned integer. The value range is 1 to 3600 minutes. The default time-based refresh interval is 30 minutes.

NETSTREAM4/NS4V9RefreshPacket

This table contains information about the refresh rate of packet for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshPacket>
    <Packet></Packet>
  </NS4V9RefreshPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshPacket
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Packet	Number of packets that are sent before the template is sent	N/A	Unsigned integer. The value range is 1 to 600. The default packet count-based refresh rate is 20 packets.

NETSTREAM4/NS4Host

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4Host>
    <Host>
      <VrfIndex></VrfIndex>
      <IP></IP>
      <UDPPort></UDPPort>
    </Host>
  </NS4Host>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Host
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

NETSTREAM4/NS4Source

This table contains the information about the source interface for NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM4>
  <NS4Source>
    <IfIndex></IfIndex>
  </NS4Source>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Source
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Source interface index	N/A	Unsigned integer.	This supports name index.

NETSTREAM4/NS4ActiveTime

This table contains the information about the aging time of active flows.

XML structure

```
<NETSTREAM4>
  <NS4ActiveTime>
    <ActiveTime></ActiveTime>
  </NS4ActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4ActiveTime
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	Aging time of active flows	N/A	Unsigned integer. Value range: 1 to 60 minutes. Default: 30 minutes.

NETSTREAM4/NS4InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```
<NETSTREAM4>
  <NS4InActiveTime>
    <InActiveTime></InActiveTime>
  </NS4InActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InActiveTime	Aging time of inactive flows	N/A	Unsigned integer. Value range: 10 to 600 seconds. Default: 30 seconds.

NETSTREAM4/NS4MaxEntry

This table contains the information about the upper limit on IPv4 NetStream entries.

XML structure

```
<NETSTREAM4>
  <NS4MaxEntry>
    <MaxEntry></MaxEntry>
    <Action></Action>
  </NS4MaxEntry>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxEntry	Maximum number of IP NetStream entries can be cached	N/A	Unsigned integer. Default: User-defined value	N/A.
Action	Processing method when the upper limit is reached	N/A	Boolean: • true—Ages out the oldest entries when the upper limit is reached. • false—Disables creation of a new entry when the upper limit is reached.	N/A

NETSTREAM4/NS4Version

This table contains information about the version that IPv4 NetSrteam uses to export data.

XML structure

```
<NETSTREAM4>
  <NS4Version>
    <Version></Version>
    <As></As>
    <Nexthop></Nexthop>
    <SerialNumber></SerialNumber>
  </NS4Version>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Version
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Version	Version format	N/A	Enumeration: • 5 • 9 (default) • 10
As	Autonomous system	N/A	Enumeration: • **0**—peer-as (default) • **1**—origin-as
Nexthop	BGP nexthop	N/A	Boolean: • true • false (default)
SerialNumber	Device serial number	N/A	Boolean: • true • false (default)

NETSTREAM4/NS4Rate

This table contains information about the export rate.

XML structure

```
<NETSTREAM4>
  <NS4Rate>
    <Rate></Rate>
  </NS4Rate>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NETSTREAM4Rate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Rate	Export rate	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0.

NETSTREAM4/NS4Aging

This table contains information about IPv4 NetStream periodical aging and TCP FIN- and RST-triggered aging.

XML structure

```
<NETSTREAM4>
  <NS4Aging>
    <AgingEnable></AgingEnable>
  </NS4Aging>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Aging

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AgingEnable	Enabling status of periodical aging, TCP FIN and RST-triggered aging.	N/A	Boolean: • true (default). • false.

NETSTREAM4/NS4IPSECRawPacket

This table contains information about NetStream for outgoing packets before/after IPsec encapsulation.

XML structure

```
<NETSTREAM4>
  <NS4IPSECRawPacket>
    <IPSECRawPacket>
      <IfIndex></IfIndex>
      <RawPacketEnable></RawPacketEnable>
    </IPSECRawPacket>
  </NS4IPSECRawPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4IPSECRawPacket
Table type	Single-instance table
Row name	IPSECRawPacket
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
RawPacketEnable	Enabling status of NetStream for outgoing packets before IPsec encapsulation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	By default, NetStream is enabled for outgoing IPsec encapsulated packets.

NETSTREAM4/NS4MPLSCollection

This table contains information about MPLS-aware IPv4 NetStream.

XML structure

```
<NETSTREAM4>
  <NS4MPLSCollection>
    <LabelPosition1></LabelPosition1>
    <LabelPosition2></LabelPosition2>
    <LabelPosition3></LabelPosition3>
    <NoIPFieldsEnable></NoIPFieldsEnable>
  </NS4MPLSCollection>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MPLSCollection
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LabelPositions1	Position of the first label in the label stack	N/A	Enumeration: • 0(default) • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
LabelPositions2	Position of the second label in the label stack	N/A	Enumeration: • 0(default) • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
LabelPositions3	Position of the third label in the label stack	N/A	Enumeration: • 0(default) • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
NoIPFieldsEnable	Specifies not to count IP fields.	N/A	Boolean: • true. • false (default).	N/A

NETSTREAM4/NS4SRv6PolicyEnable

This table contains information about enabling NetStream on an SRv6 policy.

XML structure

```
<NETSTREAM4>
  <NS4SRv6PolicyEnable>
    <SRv6PolicyEnable>
      <Endpoint></Endpoint>
      <Color></Color>
      <Enable></Enable>
    </SRv6PolicyEnable>
  </NS4SRv6PolicyEnable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4SRv6PolicyEnable
Table type	Multi-instance table
Row name	SRv6PolicyEnable
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint.	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Enable	Enabling NetStream.	N/A	Enumeration: • **0**—Disable • 1—Enables NetStream on an SRv6 policy for outgoing traffic.	N/A

NETSTREAM4/NS4SRv6PolicySampler

This table contains information about enabling NetStream sampling on an SRv6 Policy.

XML structure

```
<NETSTREAM4>
```

```
  <NS4SRv6PolicySampler>
    <SRv6PolicySampler>
      <Endpoint></Endpoint>
      <Color></Color>
      <SamplerName></SamplerName>
    </SRv6PolicySampler>
  </NS4SRv6PolicySampler>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4SRv6PolicySampler
Table type	Multi-instance table
Row name	SRv6PolicySampler
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint.	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
SamplerName	Sampler name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A

NETSTREAM4/NS4GREInnerPacket

This table contains IPv4 NetStream statistics on GRE inner packets.

XML structure

```
<NETSTREAM4>
  <NS4GREInnerPacket>
    <InnerPacketEnable></InnerPacketEnable>
  </NS4GREInnerPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4GREInnerPacket
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InnerPacketEnable	Whether to enable statistics on GRE inner packets.	N/A	Boolean: • true. • false(default).

NETSTREAM4/NS4HostEx

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4HostEx>
    <Host>
      <VrfIndex></VrfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <UDPPort></UDPPort>
    </Host>
  </NS4HostEx>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4HostEx
Table type	Multi-instance table
Row name	Host

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
AddressType	Type of the host IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the host	Index	String, case insensitive. Length: 1 to 45 characters.	If the AddressType is IPv4,specify an IPv4 address. If the AddressType is IPv6,specify an IPv6 address.
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Contents

NETSTREAM4 1

NETSTREAM4/NS4Enable 1
XML structure 1
Table description 1
Columns 1
NETSTREAM4/NS4Sampler 2
XML structure 2
Table description 2
Columns 2
NETSTREAM4/NS4Filter 3
XML structure 3
Table description 3
Columns 4
NETSTREAM4/NS4V9RefreshTime 4
XML structure 4
Table description 5
Columns 5
NETSTREAM4/NS4V9RefreshPacket 5
XML structure 5
Table description 5
Columns 6
NETSTREAM4/NS4Host 6
XML structure 6
Table description 6
Columns 6
NETSTREAM4/NS4Source 7
XML structure 7
Table description 7
Columns 7
NETSTREAM4/NS4ActiveTime 7
XML structure 8
Table description 8
Columns 8
NETSTREAM4/NS4InActiveTime 8
XML structure 8
Table description 8
Columns 9
NETSTREAM4/NS4MaxEntry 9
XML structure 9
Table description 9
Columns 9
NETSTREAM4/NS4Version 10
XML structure 10
Table description 10
Columns 10
NETSTREAM4/NS4Rate 11
XML structure 11
Table description 11
Columns 11
NETSTREAM4/NS4Aging 11
XML structure 11
Table description 12
Columns 12
NETSTREAM4/NS4IPSECRawPacket 12
XML structure 12
Table description 12
Columns 13

NETSTREAM4/NS4MPLSCollection ····· 13
XML structure ····· 13
Table description ····· 13
Columns ····· 14
NETSTREAM4/NS4ExportInfo ····· 14
XML structure ····· 15
Table description ····· 15
Columns ····· 15
NETSTREAM4/NS4Specification ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 18
NETSTREAM4/NS4CacheInfo ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
NETSTREAM4/NS4SRv6PolicyEnable ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
NETSTREAM4/NS4SRv6PolicySampler ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
NETSTREAM4/NS4GREInnerPacket ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
NETSTREAM4/NS4HostEx ····· 23
XML structure ····· 23
Table description ····· 24
Columns ····· 24

NETSTREAM4

NETSTREAM4/NS4Enable

This table contains information about enabling NetStream on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
    </InterfaceEnable>
  </NS4Enable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Enable
Table type	Multi-instance table
Row name	InterfaceEnable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in I*fmgr NETCONF XML API Configuration Reference*.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Enable	Traffic direction	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—Disable • **1**—Enables NetStream for incoming traffic. • **2**—Enables NetStream for outgoing traffic. • **3**—Enables NetStream for incoming and outgoing traffic.	

NETSTREAM4/NS4Sampler

This table contains information about enabling NetStream sampling on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <IfName></IfName>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS4Sampler>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Traffic direction	Index	Enumeration: • **1**—Incoming traffic. • **2**—Outgoing traffic.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM4/NS4Filter

This table contains information about enabling NetStream filtering an interface.

XML structure

```
<NETSTREAM4>
  <NS4Filter>
    <InterfaceFilter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <IfName></IfName>
      <AclNumber></AclNumber>
    </InterfaceFilter>
  </NS4Filter>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Filter
Table type	Multi-instance table
Row name	InterfaceFilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Traffic direction	Index	Enumeration: • **1**—Incoming traffic. • **2**—Outgoing traffic.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
AclNumber	IPv4 ACL number.	N/A	Unsigned integer. For an IPv4 basic ACL, the value range is 2000 to 2999. For an IPv4 advanced ACL, the value range is 3000 to 3999. For an IPv4 MAC ACL, the value range is 4000 to 4999. For an IPv4 user-defined ACL, the value range is 5000 to 5999.	NetStream filtering uses an ACL to identify target packets. If you want to collect data for specific flows, use the ACL permit statements to identify the flows. NetStream collects data only for these flows. If you do not want to collect data for specific flows, use the ACL deny statements to identify the flows. NetStream does not collect data for these flows. The value range for IPv4 ACL number varies by product branch. For more information about the value range in a product branch, see that product branch.

NETSTREAM4/NS4V9RefreshTime

This table contains information about the refresh rate of time for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshTime>
    <Time></Time>
```

```
  </NS4V9RefreshTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Time	Interval at which the template is sent	N/A	Unsigned integer. Value range: 1 to 3600 minutes.

NETSTREAM4/NS4V9RefreshPacket

This table contains information about the refresh rate of packet for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshPacket>
    <Packet></Packet>
  </NS4V9RefreshPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshPacket
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Packet	Number of packets that are sent before the template is sent	N/A	Unsigned integer. Value range: 1 to 600.

NETSTREAM4/NS4Host

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4Host>
    <Host>
      <VrfIndex></VrfIndex>
      <IP></IP>
      <UDPPort></UDPPort>
    </Host>
  </NS4Host>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Host
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535	

NETSTREAM4/NS4Source

This table contains the information about the source interface for NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM4>
  <NS4Source>
    <IfIndex></IfIndex>
    <IfName></IfName>
  </NS4Source>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Source
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Source interface index	N/A	Unsigned integer	This supports name index.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

NETSTREAM4/NS4ActiveTime

This table contains the information about the aging time of active flows.

XML structure

```
<NETSTREAM4>
  <NS4ActiveTime>
    <ActiveTime></ActiveTime>
  </NS4ActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4ActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	The active timeout	N/A	Unsigned integer. Value range: 1 to 60 minutes.

NETSTREAM4/NS4InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```
<NETSTREAM4>
  <NS4InActiveTime>
    <InActiveTime></InActiveTime>
  </NS4InActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4InActiveTime
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
InActiveTime	The Inactive timeout	N/A	Unsigned integer. Value range: 10 to 600 seconds.

NETSTREAM4/NS4MaxEntry

This table contains the information about the upper limit on IPv4 NetStream entries.

XML structure

```
<NETSTREAM4>
  <NS4MaxEntry>
    <MaxEntry></MaxEntry>
    <Action></Action>
  </NS4MaxEntry>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxEntry	The MaxEntries of ip netstream	N/A	Unsigned integer	N/A.
Action	Processing method when the upper limit is reached	N/A	Boolean: • true—Ages out the oldest entries when the upper limit is reached. • false—Disables creation of a new entry	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			when the upper limit is reached.	

NETSTREAM4/NS4Version

This table contains information about the version that IPv4 NetSrteam uses to export data.

XML structure

```
<NETSTREAM4>
  <NS4Version>
    <Version></Version>
    <As></As>
    <Nexthop></Nexthop>
    <SerialNumber></SerialNumber>
  </NS4Version>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Version
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Version	The ip netstream version	N/A	Enumeration: • 5 • 9 • 10
As	The autonomous system	N/A	Enumeration: • **0**—peer-as • **1**—origin-as
Nexthop	bgp-nexthop	N/A	Boolean: • true • false
SerialNumber	Device serial number	N/A	Boolean: • true

Column name	Column description	Column type	Data type and restrictions
			false

NETSTREAM4/NS4Rate

This table contains information about the export rate.

XML structure

```
<NETSTREAM4>
  <NS4Rate>
    <Rate></Rate>
  </NS4Rate>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NETSTREAM4Rate
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Rate	Export rate	N/A	Unsigned integer. Value range: 0 to 1000

NETSTREAM4/NS4Aging

This table contains information about IPv4 NetStream periodical aging and TCP FIN- and RST-triggered aging.

XML structure

```
<NETSTREAM4>
  <NS4Aging>
    <AgingEnable></AgingEnable>
  </NS4Aging>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Aging
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AgingEnable	Enabling status of periodical aging, TCP FIN and RST-triggered aging.	N/A	Boolean: • true. • false.

NETSTREAM4/NS4IPSECRawPacket

This table contains information about NetStream for outgoing packets before/after IPsec encapsulation.

XML structure

```
<NETSTREAM4>
  <NS4IPSECRawPacket>
    <IPSECRawPacket>
      <IfIndex></IfIndex>
      <RawPacketEnable></RawPacketEnable>
    </IPSECRawPacket>
  </NS4IPSECRawPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4IPSECRawPacket
Table type	Single-instance table
Row name	IPSECRawPacket
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
RawPacketEnable	Enabling status of NetStream for outgoing packets before IPsec encapsulation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	By default, NetStream is enabled for outgoing IPsec encapsulated packets.

NETSTREAM4/NS4MPLSCollection

This table contains information about MPLS-aware IPv4 NetStream.

XML structure

```
<NETSTREAM4>
  <NS4MPLSCollection>
    <LabelPosition1></LabelPosition1>
    <LabelPosition2></LabelPosition2>
    <LabelPosition3></LabelPosition3>
    <NoIPFieldsEnable></NoIPFieldsEnable>
  </NS4MPLSCollection>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MPLSCollection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LabelPositions1	Position of the first label in the label stack	N/A	Enumeration: • 0. • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
LabelPositions2	Position of the second label in the label stack	N/A	Enumeration: • 0. • 1 • 2. • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
LabelPositions3	position of the third label in the label stack.	N/A	Enumeration: • 0. • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10	N/A
NoIPFieldsEnable	Specifies not to count IP fields.	N/A	Boolean: • true. • false.	N/A

NETSTREAM4/NS4ExportInfo

This table contains information about the IPv4 NetStream data Export.

XML structure

```
<NETSTREAM4>
  <NS4ExportInfo>
    <ExportInfo>
      <ExportType></ExportType>
      <Ipv4Address></Ipv4Address>
      <VrfIndex></VrfIndex>
      <UDPPort></UDPPort>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <V5ExportNum></V5ExportNum>
      <V5UDPDatagramsNum></V5UDPDatagramsNum>
      <V5UDPDatagramsFailed></V5UDPDatagramsFailed>
      <V8ExportNum></V8ExportNum>
      <V8UDPDatagramsNum></V8UDPDatagramsNum>
      <V8UDPDatagramsFailed></V8UDPDatagramsFailed>
      <V9ExportNum></V9ExportNum>
      <V9UDPDatagramsNum></V9UDPDatagramsNum>
      <V9UDPDatagramsFailed></V9UDPDatagramsFailed>
      <V10ExportNum></V10ExportNum>
      <V10UDPDatagramsNum></V10UDPDatagramsNum>
      <V10UDPDatagramsFailed></V10UDPDatagramsFailed>
    </ExportInfo>
  </NS4ExportInfo>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4ExportInfo
Table type	Multi-instance table
Row name	ExportInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExportType	Export Type	index	Unsigned integer: • 1-17	1-13:aggregation 14:IP 15:MPLS 16:L2 17:IPL2

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	index	String, dotted decimal notation.	HOST ip address
VrfIndex	Index of the VRF	index	Unsigned integer.	N/A
UDPPort	UDP Port	N/A	Unsigned integer.	N/A
IfIndex	Interface Index	N/A	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
V5ExportNum	Version 5 exported flows number.	N/A	Unsigned integer.	N/A
V5UDPDatagramsNum	Version 5 exported UDP datagram number.	N/A	Unsigned integer.	N/A
V5UDPDatagramsFailed	Version 5 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V8ExportNum	Version 8 exported flows number.	N/A	Unsigned integer.	N/A
V8UDPDatagramsNum	Version 8 exported flows number.	N/A	Unsigned integer.	N/A
V8UDPDatagramsFailed	Version 8 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V9ExportNum	Version 9 exported flows number.	N/A	Unsigned integer.	N/A
V9UDPDatagramsNum	Version 9 exported UDP datagram number.	N/A	Unsigned integer.	N/A
V9UDPDatagramsFailed	Version 9 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V10ExportNum	Version 10 exported flows number.	N/A	Unsigned integer.	Some version may not support.
V10UDPDatagramsNum	Version 10 exported UDP datagram number.	N/A	Unsigned integer.	Some version may not support.
V10UDPDatagramsFailed	Version 10 exported UDP	N/A	Unsigned integer.	Some version may not support.

Column name	Column description	Column type	Data type and restrictions	Remarks
	datagram failed number.			

NETSTREAM4/NS4Specification

This table contains information about IPv4 NetStream specification.

XML structure

```
<NETSTREAM4>
  <NS4Specification>
    <MaxEntryAction></MaxEntryAction>
    <MaxEntryNum></MaxEntryNum>
    <MinEntryNum></MinEntryNum>
    <ActiveMaxTimeOut></ActiveMaxTimeOut>
    <InActiveMaxTimeOut></InActiveMaxTimeOut>
    <NoSupportMPLS></NoSupportMPLS>
    <SupportGlobal></SupportGlobal>
    <NSNoFilter></NSNoFilter>
    <NSSupportMirror></NSSupportMirror>
    <NSNoSampler></NSNoSampler>
    <NS4IfSetConfBitMap></NS4IfSetConfBitMap>
    <NSNoAging></NSNoAging>
    <NsSupportVxlan></NsSupportVxlan>
    <NsIgnoreDirect></NsIgnoreDirect>
    <NsModeRaw></NsModeRaw>
  </NS4Specification>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxEntryAction	Whether the entry action is supported	N/A	Boolean: • true. • false.
MaxEntryNum	Max entry number	N/A	Unsigned integer.
MinEntryNum	Min entry number	N/A	Unsigned integer.
ActiveMaxTimeOut	Active Max TimeOut	N/A	Unsigned integer.
InActiveMaxTimeOut	Inactive Max TimeOut	N/A	Unsigned integer.
NoSupportMPLS	Whether the MPLS is supported	N/A	Boolean: • true. • False.
SupportGlobal	Whether enabling IPv4 NetStream globally is supported	N/A	Boolean: • true. • false.
NSNoFilter	Whether filter is supported.	N/A	Boolean: • true. • false.
NSSupportMirror	Whether the mirror is supported.	N/A	Boolean: • true. • false.
NSNoSampler	Whether the sampler is supported.	N/A	Boolean: • true. • false.
NS4IfSetConfBitMap	Whether the interface is supported.	N/A	Unsigned integer.
NSNoAging	Whether the aging is supported.	N/A	Boolean: • true. • false.
NsSupportVxlan	Whether the VXLAN is supported.	N/A	Boolean: • true. • false.
NsIgnoreDirect	Whether ignore direct.	N/A	Boolean: • true. • false.
NsModeRaw	Whether the IPsec raw is supported.	N/A	Boolean: • true. • false.

NETSTREAM4/NS4CacheInfo

This table contains information about IPv4 NetStream Cache.

XML structure

```
<NETSTREAM4>
  <NS4CacheInfo>
    <CacheInfo>
      <LipNode></LipNode>
      <HashIndex></HashIndex>
      <Order></Order>
      <FlowType></FlowType>
      <PacketNum></PacketNum>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <VxlanID></VxlanID>
      <SrcAddress></SrcAddress>
      <SrcPort></SrcPort>
      <DstAddress></DstAddress>
      <DstPort></DstPort>
      <Protocol></Protocol>
      <Tos></Tos>
      <AppID></AppID>
      <MplsTopType></MplsTopType>
      <MplsTopLabelIP></MplsTopLabelIP>
      <MplsTopLabelMaskLen></MplsTopLabelMaskLen>
      <MplsLable1></MplsLable1>
      <MplsLable2></MplsLable2>
      <MplsLable3></MplsLable3>
    </CacheInfo>
  </NS4CacheInfo>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4CacheInfo
Table type	Multi-instance table
Row name	CacheInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LipNode	The LipNode index	Index	Unsigned integer.	N/A
HashIndex	The hash table index	Index	Unsigned integer Value range: 0 to 65535.	N/A
Order	Position of hash conflict link	Index	Unsigned integer.	N/A
FlowType	NetStream entry type	N/A	Enumeration: • **1**—IP • **2**—MPLS • **3**—MIX	N/A
PacketNum	Total number of packets	N/A	Unsigned integer	Unsigned integer. Value range: 0 to 2^{64} - 1.
IfIndex	Interface index	Index	Unsigned integer.	This supports name index
Direction	Direction of the packet	N/A	Enumeration: • **0**—OUT • **1**—IN	N/A
VxlanID	N/A	N/A	Unsigned integer.	N/A
SrcAddress	IP address of the source	N/A	String, dotted decimal notation.	N/A
SrcPort	Port of the source.	N/A	Unsigned integer.	N/A
DstAddress	IP address of the destination	N/A	String, dotted decimal notation.	N/A
DstPort	Port of the destination.	N/A	Unsigned integer.	N/A
Protocol	Protocol type	N/A	Unsigned integer.	N/A
Tos	Service type	N/A	Unsigned integer.	N/A
AppID	Application ID	N/A	Unsigned integer.	N/A
MplsTopType	MPLS top type	N/A	Enumeration: • **0**—UNKNOW • **1**—TE_MIDPT • **2**—ATOM • **3**—VPN • **5**—BGP • **6**—LDP	N/A
MplsTopLabelIP	Label IP address	Index	String, dotted decimal notation.	N/A
MplsTopLabelMaskLen	Lable ip mask length	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MplsLable1	First mpls lable	N/A	Unsigned integer.	N/A
MplsLable2	Second MPLS lable	N/A	Unsigned integer.	N/A
MplsLable3	Third MPLS lable	N/A	Unsigned integer.	N/A

NETSTREAM4/NS4SRv6PolicyEnable

This table contains information about enabling NetStream on an SRv6 policy.

XML structure

```
<NETSTREAM4>
  <NS4SRv6PolicyEnable>
    <SRv6PolicyEnable>
      <Endpoint></Endpoint>
      <Color></Color>
      <Enable></Enable>
    </SRv6PolicyEnable>
  </NS4SRv6PolicyEnable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4SRv6PolicyEnable
Table type	Multi-instance table
Row name	SRv6PolicyEnable
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint.	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	with the policy			
Enable	Enabling NetStream.	N/A	Enumeration: • **0**—Disable • 1—Enables NetStream on an SRv6 policy for outgoing traffic.	N/A

NETSTREAM4/NS4SRv6PolicySampler

This table contains information about enabling NetStream sampling on an SRv6 Policy.

XML structure

```
<NETSTREAM4>
  <NS4SRv6PolicySampler>
    <SRv6PolicySampler>
      <Endpoint></Endpoint>
      <Color></Color>
      <SamplerName></SamplerName>
    </SRv6PolicySampler>
  </NS4SRv6PolicySampler>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4SRv6PolicySampler
Table type	Multi-instance table
Row name	SRv6PolicySampler
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint.	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A

NETSTREAM4/NS4GREInnerPacket

This table contains IPv4 NetStream statistics on GRE inner packets.

XML structure

```
<NETSTREAM4>
  <NS4GREInnerPacket>
    <InnerPacketEnable></InnerPacketEnable>
  </NS4GREInnerPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4GREInnerPacket
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InnerPacketEnable	Whether to enable statistics on GRE inner packets.	N/A	Boolean: • true. • false.

NETSTREAM4/NS4HostEx

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4HostEx>
```

```
    <Host>
      <VrfIndex></VrfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <UDPPort></UDPPort>
    </Host>
  </NS4HostEx>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4HostEx
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
AddressType	Type of the host IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the host	Index	String, case insensitive. Length: 1 to 45 characters.	If the AddressType is IPv4,specify an IPv4 address. If the AddressType is IPv6,specify an IPv6 address.
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Contents

NETSTREAM4 1
NETSTREAM4/NS4Host 1
NETSTREAM4/NS4Sampler 1
NETSTREAM4/NS4ActiveTime 1
NETSTREAM4/NS4InActiveTime 1
NETSTREAM4/NS4MPLSCollection 2
NETSTREAM4/NS4HostEx 2

NETSTREAM4

NETSTREAM4/NS4Host

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	Invalid IPv4 address setting. 非法的 IPv4 地址配置。
The number of export hosts has reached the maximum. 输出报文主机的数量已经达到最大值。	The number of export hosts has reached the maximum. Please specify a value in the allowed range. 输出报文主机的数量已经达到最大值。请指定允许范围内的值。
Configuration items don’t meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改。
The VPN instance does not exist. 该VPN实例不存在。	The set VPN-Instance does not exist. 配置的 VPN 实例不存在。

NETSTREAM4/NS4Sampler

Message	Explanation
Configuration items don’t meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改

NETSTREAM4/NS4ActiveTime

Message	Explanation
The value is out of range. 参数值超出取值范围。	The value is out of range. Please specify a value in the allowed range. 配置的值超出取值范围。请指定允许范围内的值。

NETSTREAM4/NS4InActiveTime

Message	Explanation
The value is out of range. 参数值超出取值范围。	The value is out of range. Please specify a value in the allowed range. 配置的值超出取值范围。请指定允许范围内的值。

NETSTREAM4/NS4MPLSCollection

Message	Explanation
Invalid configuration items. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改

NETSTREAM4/NS4HostEx

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	Invalid IPv4 address setting. 非法的 IPv4 地址配置。
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address setting. 非法的 IPv6 地址配置。
The number of export hosts has reached the maximum. 输出报文主机的数量已经达到最大值。	The number of export hosts has reached the maximum. Please specify a value in the allowed range. 输出报文主机的数量已经达到最大值。请指定允许范围内的值。
Configuration items don’t meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改。
The VPN instance does not exist. 该VPN实例不存在。	The set VPN-Instance does not exist. 配置的 VPN 实例不存在。

Contents

Netstream4 event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1

Netstream4 event

This event is used to report IPv4 NetStream information.

XML structure for event subscription

```
<Netstream4Event>
  <Netstream4>
  </Netstream4>
</Netstream4Event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Netstream4</stream>
    <filter type="subtree">
      <Netstream4Event xmlns="http://www.h3c.com/netconf/event:1.0/Netstream4:1.0">
        <Netstream4>
        </Netstream4>
      </Netstream4Event>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Netstream4
Event name	Netstream4Event
Event namespace	http://www.h3c.com/netconf/event:1.0/Netstream4:1.0
Support for extended query	No

XML structure for event report

```
<Netstream4Event>
  <Netstream4>
    <Bytes></Bytes>
    <Packets></Packets>
    <StartTimeStamp></StartTimeStamp>
    <EndTimeStamp></EndTimeStamp>
    <InputInterface></InputInterface>
    <InputInterfaceName></InputInterfaceName>
    <OutputInterface></OutputInterface>
    <OutputInterfaceName></OutputInterfaceName>
    <InputVRFID></InputVRFID>
```

```
    <OutputVRFID></OutputVRFID>
    <SrcIpv4Address></SrcIpv4Address>
    <DstIpv4Address></DstIpv4Address>
    <SrcMask></SrcMask>
    <DstMask></DstMask>
    <Ipv4Nexthop></Ipv4Nexthop>
    <BgpIpv4NextHop></BgpIpv4NextHop>
    <SrcASNumber></SrcASNumber>
    <DstASNumber></DstASNumber>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <IpVersion></IpVersion>
    <TcpFlags></TcpFlags>
    <Protocol></Protocol>
    <Tos></Tos>
    <Direction></Direction>
    <SamplingAlgorithm></SamplingAlgorithm>
    <SamplingInterval></SamplingInterval>
    <SrcMacAddress></SrcMacAddress>
    <DstMacAddress></DstMacAddress>
    <SrcVlanId></SrcVlanId>
    <DstVlanId></DstVlanId>
    <VXLANID></VXLANID>
    <APPID></APPID>
    <MplsTopLabelType></MplsTopLabelType>
    <MplsTopLabelIpv4Address></MplsTopLabelIpv4Address>
    <MplsTopLabelIpv4Mask></MplsTopLabelIpv4Mask>
    <MplsTopLabelIpv6Address></MplsTopLabelIpv6Address>
    <MplsTopLabelIpv6Mask></MplsTopLabelIpv6Mask>
    <MplsLabelStackSectionTop></MplsLabelStackSectionTop>
    <MplsLabelStackSection2></MplsLabelStackSection2>
    <MplsLabelStackSection3></MplsLabelStackSection3>
    <MplsLabelStackSection4></MplsLabelStackSection4>
    <MplsLabelStackSection5></MplsLabelStackSection5>
    <MplsLabelStackSection6></MplsLabelStackSection6>
  </Netstream4>
</Netstream4Event>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Netstream4Event xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <Netstream4>
      <Bytes>40</Bytes>
      <Packets>1</Packets>
      <StartTimeStamp>1598365872</StartTimeStamp>
      <EndTimeStamp>1598365872</EndTimeStamp>
      <InputInterface>258</InputInterface>
```

```
      <InputInterfaceName>GigabitEthernet2/0/1</InputInterfaceName>
      <OutputInterface>1410</OutputInterface>
      <OutputInterfaceName>M-GigabitEthernet0/0/0</OutputInterfaceName>
      <InputVRFID>0</InputVRFID>
      <SrcIpv4Address>5.5.5.4</SrcIpv4Address>
      <DstIpv4Address>5.5.5.5</DstIpv4Address>
      <SrcMask>32</SrcMask>
      <DstMask>32</DstMask>
      <Ipv4Nexthop>127.0.0.1</Ipv4Nexthop>
      <SrcPort>0</SrcPort>
      <DstPort>0</DstPort>
      <IpVersion>4</IpVersion>
      <TcpFlags>0</TcpFlags>
      <Protocol>6</Protocol>
      <Tos>0</Tos>
      <Direction>0</Direction>
      <SamplingAlgorithm>2</SamplingAlgorithm>
      <SamplingInterval>10</SamplingInterval>
    </Netstream4>
  </Netstream4Event>
</notification>
```


Columns

Column name	Column description	Data type and restrictions	Remarks
Bytes	Number of bytes of the flow	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Packets	Number of packets of the flow	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
StartTimeStamp	Absolute timestamp of the first packet of the flow	Unsigned integer.	N/A
EndTimeStamp	Absolute timestamp of the last packet of the flow	Unsigned integer.	N/A
InputInterface	Input interface index	Unsigned integer.	N/A
InputInterfaceName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
OutputInterface	Output interface index	Unsigned integer.	N/A
OutputInterfaceName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

Column name	Column description	Data type and restrictions	Remarks
InputVRFID	Unique identifier of the VRF that receives the packets of the flow	Unsigned integer. Value range: 0 to 65535.	N/A
OutputVRFID	Unique identifier of the VRF that sends the packets of the flow	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv4Address	IPv4 source address in the IP packet header	String, dotted decimal notation.	N/A
DstIpv4Address	IPv4 destination address in the IP packet header	String, dotted decimal notation.	N/A
SrcMask	Number of contiguous bits that are relevant in the source IPv4 prefix information element	Unsigned integer. Value range: 0 to 32.	N/A
DstMask	Number of contiguous bits that are relevant in the destination IPv4 prefix information element	Unsigned integer. Value range: 0 to 32.	N/A
Ipv4Nexthop	IPv4 address of the next IPv4 hop	String, dotted decimal notation.	N/A
BgpIpv4NextHop	IPv4 address of the next BGP hop	String, dotted decimal notation.	N/A
SrcASNumber	AS number of the source IP address	Unsigned integer.	N/A
DstASNumber	AS number of the destination IP address	Unsigned integer.	N/A
SrcPort	Source port in the transport header	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port in the transport header	Unsigned integer. Value range: 0 to 65535.	N/A
IpVersion	IP version field in the IP packet header	Unsigned integer. Value range: 0 to 16.	N/A
TcpFlags	TCP control bits observed for the packets of the flow	Unsigned integer. Value range: 0 to 64.	N/A
Protocol	Value of the protocol number in the IP packet header	Unsigned integer. Value range: 0 to 255.	N/A
Tos	ToS field in the IPv4 packet header	Unsigned integer. Value range: 0 to 255.	N/A
Direction	Direction of the flow	Enumeration:	N/A

Column name	Column description	Data type and restrictions	Remarks
		• 0 – Input. • 1 – Output.	
SamplingAlgorithm	Type of algorithm used for sampled flow	Enumeration: • 1 – Deterministic Sampling. • 2 – Random Sampling.	N/A
SamplingInterval	Sampling packet interval	Unsigned integer.	N/A
SrcMacAddress	Source MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DstMacAddress	Destination MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
SrcVlanId	VLAN ID associated with ingress interface	Unsigned integer. Value range: 0 to 65535.	N/A
DstVlanId	VLAN ID associated with egress interface	Unsigned integer. Value range: 0 to 65535.	N/A
VXLANID	A 24-bit segment ID VXLAN network identifier (VNI)	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
APPID	Application ID	Unsigned integer.	N/A
MplsTopLabelType	Field identifies the control protocol that allocated the top-of-stack label	Enumeration: • 0 –Unknown: The MPLS label type is not known. [RFC3954][ipfix-iana_at_cisco.com] • 1 –TE-MIDPT: Any TE tunnel mid-point or tail label [RFC5102]. • 2 –Pseudowire: Any PWE3 or Cisco AToM based label [RFC5102] • 3 –VPN: Any label associated with VPN [RFC5102] • 4 –BGP: Any label associated with BGP or BGP routing [RFC5102] • 5 –LDP: Any label associated with dynamically assigned labels using LDP [RFC5102]	Values for this field are listed in the MPLS label type registry. See [http://www.iana.org/assignments/ipfix/ipfix.xhtml#ipfix-mpls-label-type].
MplsTopLabelIpv4Address	IPv4 address of the system that the MPLS top label will cause the flow to be forwarded to	String, dotted decimal notation.	N/A
MplsTopLabelIpv4Mask	Prefix length of the subnet of the MplsTopLabelIpv4Address that the MPLS top label will cause the flow to be forwarded to	Unsigned integer. Value range: 0 to 32.	N/A
MplsTopLabelIpv6Address	IPv6 address of the system that the MPLS top label will cause the flow to be forwarded to	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Data type and restrictions	Remarks
MplsTopLabelIpv6Mask	Prefix length of the subnet of the MplsTopLabelIpv6Address that the MPLS top label will cause the flow to be forwarded to	Unsigned integer. Value range: 0 to 128.	N/A
MplsLabelStackSectionTop	Label, Exp, and S fields from the top MPLS label stack entry from the last label that was pushed	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection2	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSectionTop	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection3	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection2	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection4	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection3	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection5	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection4	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection6	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSecti	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A

Column name	Column description	Data type and restrictions	Remarks
	on5		

Contents

NETSTREAM6 1
NETSTREAM6/NS6Enable 1
XML structure 1
Table description 1
Columns 1
NETSTREAM6/NS6Sampler 2
XML structure 2
Table description 2
Columns 2
NETSTREAM6/NS6Host 3
XML structure 3
Table description 3
Columns 3
NETSTREAM6/NS6Source 4
XML structure 4
Table description 4
Columns 4
NETSTREAM6/NS6ActiveTime 5
XML structure 5
Table description 5
Columns 5
NETSTREAM6/NS6InActiveTime 5
XML structure 5
Table description 6
Columns 6
NETSTREAM6/NS6Version 6
XML structure 6
Table description 6
Columns 7
NETSTREAM6/NS6SRv6PolicyEnable 7
XML structure 7
Table description 7
Columns 8
NETSTREAM6/NS6SRv6PolicySampler 8
XML structure 8
Table description 8
Columns 9
NETSTREAM6/NS6GREInnerPacket 9
XML structure 9
Table description 9
Columns 9

NETSTREAM6

NETSTREAM6/NS6Enable

This table contains information about enabling IPv6 NetStream on an interface.

XML structure

```
<NETSTREAM6>
  <NS6Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceEnable>
  </NS6Enable>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Enable
Table type	Multi-instance table
Row name	InterfaceEnable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enabling IPv6 NetStream for traffic in different directions	N/A	Enumeration: • **0**—Disable IPv6 Netstream(default). • **1**—Enables IPv6 NetStream for incoming traffic.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Enables IPv6 NetStream for outgoing traffic. • **3**—Enables IPv6 NetStream for incoming and outgoing traffic.	

NETSTREAM6/NS6Sampler

This table contains information about enabling IPv6 NetStream sampling on an interface.

XML structure

```
<NETSTREAM6>
  <NS6Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS6Sampler>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr*

Column name	Column description	Column type	Data type and restrictions	Remarks
				NETCONF XML API Configuration Reference.
Direction	Traffic direction	Index	Enumeration: • **1**—Incoming traffic. • **2**—Outgoing traffic.	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM6/NS6Host

This table contains information about the destination hosts to which the IPv6 NetStream exports.

XML structure

```
<NETSTREAM6>
  <NS6Host>
    <Host>
      <VrfIndex></VrfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <UDPPort></UDPPort>
    </Host>
  </NS6Host>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Host
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This supports name index.
AddressType	Type of the host IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the host	Index	String, case insensitive. Length: 1 to 45 characters.	If the AddressType is IPv4,specify an IPv4 address. If the AddressType is IPv6,specify an IPv6 address.
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

NETSTREAM6/NS6Source

This table contains information about the source interface for IPv6 NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM6>
  <NS6Source>
    <IfIndex></IfIndex>
  </NS6Source>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Source
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Source interface index	N/A	Unsigned integer.	This supports name index.

NETSTREAM6/NS6ActiveTime

This table contains information about the aging time of active flows.

XML structure

```
<NETSTREAM6>
  <NS6ActiveTime>
    <ActiveTime></ActiveTime>
  </NS6ActiveTime>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6ActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	Aging time of active flows	N/A	Unsigned integer. Value range: 1 to 60 minutes. Default: 30 minutes.

NETSTREAM6/NS6InActiveTime

This table contains information about the aging time of inactive flows.

XML structure

```
<NETSTREAM6>
  <NS6InActiveTime>
    <InActiveTime></InActiveTime>
  </NS6InActiveTime>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InActiveTime	Aging time of inactive flows	N/A	Unsigned integer. Value range: 10 to 600 seconds. Default: 30 senconds.

NETSTREAM6/NS6Version

This table contains information about the version that IPv6 NetSrteam uses to export data.

XML structure

```
<NETSTREAM6>
  <NS6Version>
    <Version></Version>
    <As></As>
    <Nexthop></Nexthop>
    <SerialNumber></SerialNumber>
  </NS6Version>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Version
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Version	Version format	N/A	Enumeration: • 9 (default) • 10
As	Autonomous system	N/A	Enumeration: • **0**—peer-as (default) • **1**—origin-as
Nexthop	BGP nexthop	N/A	Boolean: • true • false (default)
SerialNumber	Device serial number	N/A	Boolean: • true • false (default)

NETSTREAM6/NS6SRv6PolicyEnable

This table contains information about enabling IPv6 NetStream on an SRv6 policy .

XML structure

```
<NETSTREAM6>
  <NS6SRv6PolicyEnable>
    <SRv6PolicyEnable>
      <Endpoint></Endpoint>
      <Color></Color>
      <Enable></Enable>
    </SRv6PolicyEnable>
  </NS6SRv6PolicyEnable>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6SRv6PolicyEnable
Table type	Multi-instance table
Row name	SRv6PolicyEnable
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Color	Color associated with the policy	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Endpoint	IPv6 address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
Enable	Whether to enable or disable IPv6 NetStream	N/A	Enumeration: • **0**—Disable • **1**—Enable	N/A

NETSTREAM6/NS6SRv6PolicySampler

This table contains information about enabling NetStream sampling in an SRv6 Policy.

XML structure

```
<NETSTREAM6>
  <NS6SRv6PolicySampler>
    <SRv6PolicySampler>
      <Endpoint></Endpoint>
      <Color></Color>
      <SamplerName></SamplerName>
    </SRv6PolicySampler>
  </NS6SRv6PolicySampler>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6SRv6PolicySampler
Table type	Multi-instance table
Row name	SRv6PolicySampler
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM6/NS6GREInnerPacket

This table contains IPv6 NetStream statistics on GRE inner packets.

XML structure

```
<NETSTREAM6>
  <NS6GREInnerPacket>
    <InnerPacketEnable></InnerPacketEnable>
  </NS6GREInnerPacket>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6GREInnerPacket
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InnerPacketEnable	Whether to enable statistics on GRE inner packets.	N/A	Boolean: • true. • false(default)

Contents

NETSTREAM6 1

NETSTREAM6/NS6Enable 1
XML structure 1
Table description 1
Columns 1
NETSTREAM6/NS6Sampler 2
XML structure 2
Table description 2
Columns 2
NETSTREAM6/NS6Host 3
XML structure 3
Table description 3
Columns 4
NETSTREAM6/NS6Source 4
XML structure 4
Table description 4
Columns 5
NETSTREAM6/NS6ActiveTime 5
XML structure 5
Table description 5
Columns 5
NETSTREAM6/NS6InActiveTime 5
XML structure 6
Table description 6
Columns 6
NETSTREAM6/NS6Version 6
XML structure 6
Table description 6
Columns 7
NETSTREAM6/NS6SRv6PolicyEnable 7
XML structure 7
Table description 7
Columns 8
NETSTREAM6/NS6SRv6PolicySampler 8
XML structure 8
Table description 8
Columns 9
NETSTREAM6/NS6GREInnerPacket 9
XML structure 9
Table description 9
Columns 9

NETSTREAM6

NETSTREAM6/NS6Enable

This table contains information about enabling IPv6 NetStream on an interface.

XML structure

```
<NETSTREAM6>
  <NS6Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
    </InterfaceEnable>
  </NS6Enable>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Enable
Table type	Multi-instance table
Row name	InterfaceEnable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in I*fmgr NETCONF XML API Configuration Reference*.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Enable	Enabling IPv6	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Netstream for traffic in different directions.		• **0**—Disable IPv6 Netstream • **1**—Enables IPv6 NetStream for incoming traffic. • **2**—Enables IPv6 NetStream for outgoing traffic. • **3**—Enables IPv6 NetStream for incoming and outgoing traffic.	

NETSTREAM6/NS6Sampler

This table contains information about enabling IPv6 NetStream sampling on an interface.

XML structure

```
<NETSTREAM6>
  <NS6Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <IfName></IfName>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS6Sampler>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Direction	Traffic direction	Index	Enumeration: • **1**—Incoming traffic. • **2**—Outgoing traffic.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM6/NS6Host

This table contains information about the destination hosts to which the IPv6 NetStream exports.

XML structure

```
<NETSTREAM6>
  <NS6Host>
    <Host>
      <VrfIndex></VrfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <UDPPort></UDPPort>
    </Host>
  </NS6Host>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Host
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
AddressType	Type of the host IP address	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	IP address of the host	Index	String, case insensitive. Length: 1 to 45 characters.	If the AddressType is IPv4,specify an IPv4 address. If the AddressType is IPv6,specify an IPv6 address.
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535	N/A

NETSTREAM6/NS6Source

This table contains information about the source interface for IPv6 NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM6>
  <NS6Source>
    <IfIndex></IfIndex>
    <IfName></IfName>
  </NS6Source>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6Source
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Source interface index	N/A	Unsigned integer	This supports name index.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

NETSTREAM6/NS6ActiveTime

This table contains information about the aging time of active flows.

XML structure

```
<NETSTREAM6>
  <NS6ActiveTime>
    <ActiveTime></ActiveTime>
  </NS6ActiveTime>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6ActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	The active timeout	N/A	Unsigned integer. Value range: 1 to 60 minutes.

NETSTREAM6/NS6InActiveTime

This table contains information about the aging time of inactive flows.

XML structure

```
<NETSTREAM6>
  <NS6InActiveTime>
    <InActiveTime></InActiveTime>
  </NS6InActiveTime>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
InActiveTime	The Inactive timeout	N/A	Unsigned integer. Value range: 10 to 600 seconds.

NETSTREAM6/NS6Version

This table contains information about the version that IPv6 NetSrteam uses to export data.

XML structure

```
<NETSTREAM6>
  <NS6Version>
    <Version></Version>
    <As></As>
    <Nexthop></Nexthop>
    <SerialNumber></SerialNumber>
  </NS6Version>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6MaxEntry

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Version	The IPv6 NetStream version	N/A	Enumeration: • 9 • 10
As	The autonomous system	N/A	Enumeration: • **0**—peer-as • **1**—origin-as
Nexthop	bgp-nexthop	N/A	Boolean: • true • false
SerialNumber	Device serial number	N/A	Boolean: • true false

NETSTREAM6/NS6SRv6PolicyEnable

This table contains information about enabling IPv6 NetStream on an SRv6 policy .

XML structure

```
<NETSTREAM6>
  <NS6SRv6PolicyEnable>
    <SRv6PolicyEnable>
      <Endpoint></Endpoint>
      <Color></Color>
      <Enable></Enable>
    </SRv6PolicyEnable>
  </NS6SRv6PolicyEnable>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6SRv6PolicyEnable
Table type	Multi-instance table

Item	Description
Row name	SRv6PolicyEnable
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint.	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Enable	Enabling IPv6 NetStream.	N/A	Enumeration: • **0**—Disable • 1—Enables NetStream on an SRv6 policy for outgoing traffic.	N/A

NETSTREAM6/NS6SRv6PolicySampler

This table contains information about enabling NetStream sampling in an SRv6 Policy.

XML structure

```
<NETSTREAM6>
  <NS6SRv6PolicySampler>
    <SRv6PolicySampler>
      <Endpoint></Endpoint>
      <Color></Color>
      <SamplerName></SamplerName>
    </SRv6PolicySampler>
  </NS6SRv6PolicySampler>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6SRv6PolicySampler
Table type	Multi-instance table
Row name	SRv6PolicySampler
Restrictions	None

Item	Description
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Endpoint	IPv6 address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM6/NS6GREInnerPacket

This table contains IPv6 NetStream statistics on GRE inner packets.

XML structure

```
<NETSTREAM6>
  <NS6GREInnerPacket>
    <InnerPacketEnable></InnerPacketEnable>
  </NS6GREInnerPacket>
</NETSTREAM6>
```

Table description

Item	Description
Feature name	NETSTREAM6
Table name	NS6GREInnerPacket
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
InnerPacketEnabl	Whether to enable	N/A	Boolean:

Column name	Column description	Column type	Data type and restrictions
e	statistics on GRE inner packets.		• true. • false.

Contents

NETSTREAM6 1

NETSTREAM6/NS6Host 1
NETSTREAM6/NS6Sampler 1
NETSTREAM6/NS6ActiveTime 1
NETSTREAM6/NS6InActiveTime 1

NETSTREAM6

NETSTREAM6/NS6Host

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	Invalid IPv4 address setting. 非法的 IPv4 地址配置。
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address setting. 非法的 IPv6 地址配置。
The number of export hosts has reached the maximum. 输出报文主机的数量已经达到最大值。	The number of export hosts has reached the maximum. Please specify a value in the allowed range. 输出报文主机的数量已经达到最大值。请指定允许范围内的值。
Configuration items don’t meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改。
The VPN instance does not exist. 该VPN实例不存在。	The set VPN-Instance does not exist. 配置的 VPN 实例不存在。

NETSTREAM6/NS6Sampler

Message	Explanation
Configuration items don’t meet the requirements. 不符合配置要求。	Invalid configuration. Please modify configuration under guidance. 无效配置。请按照配置说明修改。

NETSTREAM6/NS6ActiveTime

Message	Explanation
The value is out of range. 参数值超出取值范围。	The value is out of range. Please specify a value in the allowed range. 配置的值超出取值范围。请指定允许范围内的值。

NETSTREAM6/NS6InActiveTime

Message	Explanation
The value is out of range.	The value is out of range. Please specify a value in the

参数值超出取值范围。	allowed range. 配置的值超出取值范围。请指定允许范围内的值。

Contents

Netstream6 event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1

Netstream6 event

This event is used to report IPv6 NetStream information.

XML structure for event subscription

```
<Netstream6Event>
  <Netstream6>
  </Netstream6>
</Netstream6Event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Netstream6</stream>
    <filter type="subtree">
      <Netstream6Event xmlns="http://www.h3c.com/netconf/event:1.0/Netstream6:1.0">
        <Netstream6>
        </Netstream6>
      </Netstream6Event>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Netstream6
Event name	Netstream6Event
Event namespace	http://www.h3c.com/netconf/event:1.0/Netstream6:1.0
Support for extended query	No

XML structure for event report

```
<Netstream6Event>
  <Netstream6>
    <Bytes></Bytes>
    <Packets></Packets>
    <StartTimeStamp></StartTimeStamp>
    <EndTimeStamp></EndTimeStamp>
    <InputInterface></InputInterface>
    <InputInterfaceName></InputInterfaceName>
    <OutputInterface></OutputInterface>
    <OutputInterfaceName></OutputInterfaceName>
    <InputVRFID></InputVRFID>
```

```
    <OutputVRFID></OutputVRFID>
    <SrcIpv6Address></SrcIpv6Address>
    <DstIpv6Address></DstIpv6Address>
    <FlowLabelIpv6></FlowLabelIpv6>
    <SrcMask></SrcMask>
    <DstMask></DstMask>
    <Ipv6Nexthop></Ipv6Nexthop>
    <BgpIpv6NextHop></BgpIpv6NextHop>
    <SrcASNumber></SrcASNumber>
    <DstASNumber></DstASNumber>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <IpVersion></IpVersion>
    <TcpFlags></TcpFlags>
    <Protocol></Protocol>
    <TrafficClass></TrafficClass>
    <Direction></Direction>
    <SamplingAlgorithm></SamplingAlgorithm>
    <SamplingInterval></SamplingInterval>
    <SrcMacAddress></SrcMacAddress>
    <DstMacAddress></DstMacAddress>
    <SrcVlanId></SrcVlanId>
    <DstVlanId></DstVlanId>
    <APPID></APPID>
    <MplsTopLabelType></MplsTopLabelType>
    <MplsTopLabelIpv4Address></MplsTopLabelIpv4Address>
    <MplsTopLabelIpv4Mask></MplsTopLabelIpv4Mask>
    <MplsTopLabelIpv6Address></MplsTopLabelIpv6Address>
    <MplsTopLabelIpv6Mask></MplsTopLabelIpv6Mask>
    <MplsLabelStackSectionTop></MplsLabelStackSectionTop>
    <MplsLabelStackSection2></MplsLabelStackSection2>
    <MplsLabelStackSection3></MplsLabelStackSection3>
    <MplsLabelStackSection4></MplsLabelStackSection4>
    <MplsLabelStackSection5></MplsLabelStackSection5>
    <MplsLabelStackSection6></MplsLabelStackSection6>
  </Netstream6>
</Netstream6Event>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Netstream6Event xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <Netstream6>
      <Bytes>60</Bytes>
      <Packets>1</Packets>
      <StartTimeStamp>1598365874</StartTimeStamp>
      <EndTimeStamp>1598365874</EndTimeStamp>
      <InputInterface>258</InputInterface>
```

```
      <InputInterfaceName>GigabitEthernet2/0/1</InputInterfaceName>
      <OutputInterface>1410</OutputInterface>
      <OutputInterfaceName>M-GigabitEthernet0/0/0</OutputInterfaceName>
      <InputVRFID>0</InputVRFID>
      <OutputVRFID></OutputVRFID>
      <SrcIpv6Address>3000::40</SrcIpv6Address>
      <DstIpv6Address>3000::30</DstIpv6Address>
      <FlowLabelIpv6>0</FlowLabelIpv6>
      <SrcMask>128</SrcMask>
      <DstMask>128</DstMask>
      <Ipv6Nexthop>::1</Ipv6Nexthop>
      <SrcPort>0</SrcPort>
      <DstPort>0</DstPort>
      <IpVersion>6</IpVersion>
      <TcpFlags>0</TcpFlags>
      <Protocol>6</Protocol>
      <TrafficClass>0</TrafficClass>
      <Direction>0</Direction>
      <SamplingAlgorithm>2</SamplingAlgorithm>
      <SamplingInterval>10</SamplingInterval>
    </Netstream6>
  </Netstream6Event>
</notification>
```


Columns

Column name	Column description	Data type and restrictions	Remarks
Bytes	Number of bytes of the flow	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Packets	Number of packets of the flow	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
StartTimeStamp	Absolute timestamp of the first packet of the flow	Unsigned integer.	N/A
EndTimeStamp	Absolute timestamp of the last packet of the flow	Unsigned integer.	N/A
InputInterface	Input interface index	Unsigned integer.	N/A
InputInterfaceName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
OutputInterface	Output interface index	Unsigned integer.	N/A
OutputInterfaceName	Full name of an interface	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Data type and restrictions	Remarks
		GigabitEthernet2/0/2	
InputVRFID	Unique identifier of the VRF that receives the packets of the flow	Unsigned integer. Value range: 0 to 65535.	N/A
OutputVRFID	Unique identifier of the VRF that sends the packets of the flow	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv6Address	IPv6 source address in the IP packet header	Hexadecimal string, colon-separated.	N/A
DstIpv6Address	IPv6 destination address in the IP packet header	Hexadecimal string, colon-separated.	N/A
FlowLabelIpv6	IPv6 flow label field in the IP packet header	Unsigned integer. Value range: 0 to 2^{20}-1.	N/A
SrcMask	Number of contiguous bits that are relevant in the source IPv6 prefix information element	Unsigned integer. Value range: 0 to 128.	N/A
DstMask	Number of contiguous bits that are relevant in the destination IPv6 prefix information element	Unsigned integer. Value range: 0 to 128.	N/A
Ipv6Nexthop	IPv6 address of the next IPv6 hop	Hexadecimal string, colon-separated.	N/A
BgpIpv6NextHop	IPv6 address of the next BGP hop	Hexadecimal string, colon-separated.	N/A
SrcASNumber	AS number of the source IP address	Unsigned integer.	N/A
DstASNumber	AS number of the destination IP address	Unsigned integer.	N/A
SrcPort	Source port in the transport header	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port in the transport header	Unsigned integer. Value range: 0 to 65535.	N/A
IpVersion	IP version field in the IP packet header	Unsigned integer. Value range: 0 to 16.	N/A
TcpFlags	TCP control bits observed for the packets of the flow	Unsigned integer. Value range: 0 to 64.	N/A
Protocol	Value of the protocol number in the IP	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Data type and restrictions	Remarks
	packet header		
TrafficClass	Traffic class field in the IPv6 packet header	Unsigned integer. Value range: 0 to 255.	N/A
Direction	Direction of the flow	Enumeration: • 0 – Input. • 1 – Output.	N/A
SamplingAlgorithm	Type of algorithm used for sampled flow	Enumeration: • 1 – Deterministic Sampling. • 2 – Random Sampling.	N/A
SamplingInterval	Sampling packet interval	Unsigned integer.	N/A
SrcMacAddress	Source MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DstMacAddress	Destination MAC address	Six groups of two hexadecimal digits, hyphen-separated.	N/A
SrcVlanId	V LAN ID associated with ingress interface	Unsigned integer. Value range: 0 to 65535.	N/A
DstVlanId	VLAN ID associated with egress interface	Unsigned integer. Value range: 0 to 65535.	N/A
APPID	Application ID	Unsigned integer.	N/A
MplsTopLabelType	Field identifies the control protocol that allocated the top-of-stack label	Enumeration: • 0 –Unknown: The MPLS label type is not known. [RFC3954][ipfix-iana_at_cisco.com] • 1 –TE-MIDPT: Any TE tunnel mid-point or tail label [RFC5102]. • 2 –Pseudowire: Any PWE3 or Cisco AToM based label [RFC5102] • 3 –VPN: Any label associated with VPN [RFC5102] • 4 –BGP: Any label associated with BGP or BGP routing [RFC5102] • 5 –LDP: Any label associated with dynamically assigned labels using LDP [RFC5102]	Values for this field are listed in the MPLS label type registry. See [http://www.iana.org/assignments/ipfix/ipfix.xhtml#ipfix-mpls-label-type].
MplsTopLabelIpv4Address	IPv4 address of the system that the MPLS top label will cause the flow to be forwarded to	String, dotted decimal notation.	N/A
MplsTopLabelIpv4Mask	Prefix length of the subnet of the MplsTopLabelIpv4Address that the MPLS top label will cause the flow to be forwarded to	Unsigned integer. Value range: 0 to 32.	N/A
MplsTopLabelIpv6Address	IPv6 address of the system that the	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Data type and restrictions	Remarks
	MPLS top label will cause the flow to be forwarded to		
MplsTopLabelIpv6Mask	Prefix length of the subnet of the MplsTopLabelIpv6Address that the MPLS top label will cause the flow to be forwarded to	Unsigned integer. Value range: 0 to 128.	N/A
MplsLabelStackSectionTop	Label, Exp, and S fields from the top MPLS label stack entry from the last label that was pushed	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection2	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSectionTop	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection3	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection2	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection4	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection3	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection5	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack entry that would be reported by MplsLabelStackSection4	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A
MplsLabelStackSection6	Label, EXP, and S fields from the label stack entry that was pushed immediately before the label stack	Unsigned integer. Value range: 0 to 2^{24}-1.	N/A

Column name	Column description	Data type and restrictions	Remarks
	entry that would be reported by MplsLabelStackSection5		

Contents

NQA 1
NQA/TwamplightSenderStarts 1
XML structure 1
Table description 1
Columns 1
NQA/TwamplightSenderStops 2
XML structure 2
Table description 2
Columns 3
NQA/TwamplightSenderStopAll 3
XML structure 3
Table description 3
Columns 3
NQA/TwamplightResetStats 3
XML structure 4
Table description 4
Columns 4
NQA/TwamplightResetAllStat 4
XML structure 4
Table description 4
Columns 5

NQA

NQA/TwamplightSenderStarts

This table contains information about starting NQA TWAMP Light sessions on demand.

XML structure

```
<NQA>
  <TwamplightSenderStarts>
    <TwamplightSenderStart>
      <SessionID></SessionID>
      <Duration></Duration>
      <PacketCount></PacketCount>
      <TxInterval></TxInterval>
      <Timeout></Timeout>
      <StatisticsInterval></StatisticsInterval>
      <MonitorTime></MonitorTime>
    </TwamplightSenderStart>
  </TwamplightSenderStarts>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderStarts
Table type	Multi-instance table
Row name	TwamplightSenderStart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is limited.
Duration	Duration of the session running before being stopped, in seconds	N/A	Unsigned integer. Value range: 60 to 300.	N/A

PacketCount	Number of packets to send before the session being stopped	N/A	Unsigned integer. Value range: 100 to 30000.	N/A
TxInterval	Interval at which probe packets are sent	N/A	Enumeration: • **10**—10 milliseconds. • **100**—100 milliseconds. • **1000**—1000 milliseconds. • **10000**—10000 milliseconds. • **30000**—30000 milliseconds.	N/A
Timeout	Timeout time for reponse packets in seconds	N/A	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
StatisticsInterval	Statistics collection interval in milliseconds	N/A	Unsigned integer. Value range: 1000 to 6000000.	This parameter supports customization.
MonitorTime	Reaction entry threshold violation monitor time in milliseconds	N/A	Unsigned integer. Value range: 1000 to 86400000.	This parameter depend on StatisticsInterval.

NQA/TwamplightSenderStops

This table contains information about stopping NQA TWAMP Light sessions.

XML structure

```
<NQA>
  <TwamplightSenderStops>
    <TwamplightSenderStop>
      <SessionID></SessionID>
    </TwamplightSenderStop>
  </TwamplightSenderStops>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderStops
Table type	Multi-instance table
Row name	TwamplightSenderStop

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is limited.

NQA/TwamplightSenderStopAll

This table contains information about stopping all NQA TWAMP Light sessions.

XML structure

```
<NQA>
  <TwamplightSenderStopAll>
    <StopAll></StopAll>
  </TwamplightSenderStopAll>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderStopAll
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StopAll	Stops all TWAMP Light test session	N/A	This column must be empty.	N/A

NQA/TwamplightResetStats

This table contains information about resetting NQA TWAMP Light session statistics.

XML structure

```
<NQA>
  <TwamplightResetStats>
    <TwamplightResetStat>
      <SessionID></SessionID>
    </TwamplightResetStat>
  </TwamplightResetStats>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightResetStats
Table type	Multi-instance table
Row name	TwamplightResetStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is limited.

NQA/TwamplightResetAllStat

This table contains information about resetting all NQA TWAMP Light session statistics.

XML structure

```
<NQA>
  <TwamplightResetAllStat>
    <ResetAll></ResetAll>
  </TwamplightResetAllStat>
</NQA>
```

Table description

Item	Description
Feature name	NQA

Table name	TwamplightResetAllStat
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetAll	Reset all TWAMP Light test session statistics	N/A	This column must be empty.	N/A

Contents

NQA 1
NQA/Templates 1
XML structure 1
Table description 1
Columns 2
NQA/IcmpEchoTemplates 6
XML structure 6
Table description 6
Columns 7
NQA/UdpEchoTemplates 7
XML structure 8
Table description 8
Columns 9
NQA/TcpTemplates 11
XML structure 11
Table description 12
Columns 12
NQA/FtpTemplates 14
XML structure 15
Table description 15
Columns 15
NQA/SnmpTemplates 16
XML structure 16
Table description 16
Columns 16
NQA/DnsTemplates 17
XML structure 17
Table description 17
Columns 17
NQA/HttpTemplates 18
XML structure 18
Table description 19
Columns 19
NQA/ImapTemplates 22
XML structure 22
Table description 22
Columns 22
NQA/Pop3Templates 23
XML structure 23
Table description 23
Columns 23
NQA/RadiusTemplates 24
XML structure 24
Table description 24
Columns 24
NQA/RtspTemplates 25
XML structure 25
Table description 25
Columns 25
NQA/SipTemplates 26
XML structure 26
Table description 26
Columns 26
NQA/SslTemplates 26
XML structure 27
Table description 27
Columns 27

NQA/SnmpDcaTemplates 27
XML structure 27
Table description 28
Columns 28
NQA/WapTemplates 30
XML structure 30
Table description 30
Columns 31
NQA/TcpHalfOpenTemplates 31
XML structure 32
Table description 32
Columns 32
NQA/DiameterTemplates 32
XML structure 33
Table description 33
Columns 33
NQA/Entries 35
XML structure 35
Table description 36
Columns 36
NQA/IcmpEchoEntries 42
XML structure 42
Table description 42
Columns 43
NQA/IcmpJitterEntries 43
XML structure 43
Table description 44
Columns 44
NQA/UdpEchoEntries 44
XML structure 45
Table description 45
Columns 45
NQA/UdpJitterEntries 45
XML structure 46
Table description 46
Columns 46
NQA/HttpEntries 47
XML structure 47
Table description 48
Columns 48
NQA/Schedules 49
XML structure 49
Table description 50
Columns 50
NQA/ReactionTriggerFailItems 51
XML structure 51
Table description 51
Columns 51
NQA/Reactions 52
XML structure 52
Table description 52
Columns 53
NQA/ClientStatus 55
XML structure 56
Table description 56
Columns 56
NQA/TwamplightClientEnable 56
XML structure 56
Table description 56
Columns 57
NQA/TwamplightClientSessions 57
XML structure 57

Table description ····· 58
Columns ····· 58
NQA/TwamplightClientSessions/ReactionEntries ····· 60
XML structure ····· 61
Table description ····· 61
Columns ····· 61
NQA/TwamplightSenderEnable ····· 61
XML structure ····· 61
Table description ····· 62
Columns ····· 62
NQA/TwamplightSenderSessions ····· 62
XML structure ····· 62
Table description ····· 63
Columns ····· 63

NQA

NQA/Templates

This table contains information about NQA templates.

XML structure

```
<NQA>
  <Templates>
    <Template>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Frequency></Frequency>
      <ProbeTimeout></ProbeTimeout>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <NextHop></NextHop>
      <TriggerPassCount></TriggerPassCount>
      <TriggerFailCount></TriggerFailCount>
      <TriggerPerProbe></TriggerPerProbe>
      <FrequencyAdjust></FrequencyAdjust>
    </Template>
  </Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type.	N/A	Enumeration: • **0**—ICMP-echo. • **1**—UDP-echo. • **2**—TCP. • **3**—DLSw. • **4**—FTP. • **5**—DHCP. • **6**—SNMP. • **7**—DNS. • **8**—HTTP. • **9**—UDP-jitter. • **10**—Voice. • **11**—Path-jitter. • **12**—UDP-tracert. • **13**—ARP. • **14**—IMAP. • **15**—POP3. • **16**—RADIUS. • **17**—RTSP. • **18**—SIP. • **19**—SMTP. • **20**—SSL. • **21**—HTTPS. • **22**—TCP half-open. • **23**—Throughput. • **24**—Latency. • **25**—Frame-loss. • **26**—ICMP-jitter. • **27**—SNMP-DCA. • **28**—WAP. • **29**—Y1564. • **30**—RADIUS-ACCOUNT. • **31**—TWAMP Light. • 32—ICMP. • 33—HTTP2. • 34—Diameter.	NQA templates are not available for the following types of operations: • DLSW. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter. • Y1564. • TWAMP Light. • ICMP. You must specify an operation type when you create a template. You cannot specify an operation type when you remove or delete a template. The operation type of an NQA template cannot be modified.
Description	Description of the template.	N/A	String, case-sensitive. Length: 1 to 200 characters.	By default, no description is specified for an NQA template.
Frequency	Interval in milliseconds at	N/A	Unsigned integer. Value range: 0 to	If the operation is not completed when the interval expires, the next

Column name	Column description	Column type	Data type and restrictions	Remarks
	which the NQA operation repeats.		604800000. Default: 5000.	operation does not start.
ProbeTimeout	Probe timeout time in milliseconds.	N/A	Unsigned integer. Default: 3000.	The value range for the probe timeout time varies by the **Type** column. • FTP/HTTP/HTTPS/HTTP2/SNMP-DCA/WAP: 10 to 86400000. • ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open/RADIUS-ACCOUNT: 10 to 3600000.
TTL	TTL for probe packets.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	The ARP operation does not support this column.
ToS	ToS value in the IP packet header of probe packets.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The ARP operation does not support this column.
VRF	VRF instance where the operation is performed.	N/A	String, case-sensitive. Length: 1 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
URL	URL of the destination server.	N/A	String. Length: 1 to 255 characters.	This column cannot be configured with the **DstIP** or **DstPort** column simultaneously, except for the WAP operation. Only the FTP, HTTP, HTTPS, HTTP2,RTSP, WAP, ICMP, WAP and TCP operations support this column. By default, no URL is specified for the destination server. Valid URL formats vary by the **Type** column: • For FTP operations, enter the URL in one of the following formats: ○ ftp:*//host/filename* ○ ftp:*//host:port/filename* When performing the get operation, the *filename* argument is required. When performing the put operation, the *filename* argument does not take effect, even if it is specified. The file name for the put operation is determined by the **filename** command. • For HTTP operations, enter the URL in one of the following formats:

Column name	Column description	Column type	Data type and restrictions	Remarks
				○ http://*host/resource* ○ http://*host:port/resource* • For HTTPS operations, enter the URL in one of the following formats: ○ https://*host/resource* ○ https://*host:port/resource* • For HTTP2 operations, enter the URL in one of the following formats: ○ http://*host/resource* ○ http://*host:port/resource* ○ https://*host/resource* ○ https://*host:port/resource* • For RTSP operations, enter the URL in one of the following formats: ○ rtsp://*host/resource* ○ rtsp://*host:port/resource* • For WAP operations, enter the URL in one of the following formats: ○ http://*host/resource* ○ http://*host:port/resourc*e ○ https://*host/resource* ○ https://*host:port/resource*
DstIP	Destination IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column cannot be configured with the **URL** column simultaneously, except for the WAP operation. The FTP, HTTP, HTTPS, HTTP2 and RTSP operations do not support this column. By default, no destination address is specified. Destination IP address examples: • 1.1.1.1. • 1:1::1:1. This column and the URL column cannot both be configured.
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	This column cannot be configured with the **URL** column simultaneously, except in the WAP operation. The ICMP-echo, ARP, FTP, HTTP, HTTPS, HTTP2 and RTSP operations do not support this column. The default destination port number varies by the **Type** column: • UDP-echo: Not specified. • TCP: Not specified. • SNMP: 161. • DNS: 53.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• IMAP: 143. • POP3: 110. • RADIUS: 1812. • RTSP: 554. • SIP: 5060 (UDP) or 5061 (TCP). • SMTP: 25. • SSL: Not specified. • SNMP-DCA: 161. • WAP: 9201. • RADIUS-ACCOUNT: 1813.
SrcIP	Source IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no source IP address is specified. Source IP address examples: • 1.1.1.1. • 1:1::1:1. The source IP address must be the IP address of a local interface, and the interface must be up.
SrcPort	Source port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	Only the DNS operation supports this column. By default, no source port number is specified.
NextHop	Next hop IP address.	N/A	String. Length: 1 to 46 characters.	Only the ICMP-echo, TCP, DNS and TCP half-open operations support this column. Next hop IP address examples: • 1.1.1.1. • 1:1::1:1.
TriggerPass Count	Number of consecutive successful probes to determine a successful operation event.	N/A	Unsigned integer. Value range: 1 to 15. Default: 3.	In the same table, TriggerPassCount can be configured only when TiggerPerProbe is set to false. If TriggerPassCount and TiggerPerProbe are configured in different tables, the most recent configuration takes effect.
TriggerFailC ount	Number of consecutive probe failures to determine an operation failure.	N/A	Unsigned integer. Value range: 1 to 15. Default: 3.	In the same table, TriggerFailCount can be configured only when TiggerPerProbe is set to false. If TriggerFailCount and TiggerPerProbe are configured in different tables, the most recent configuration takes effect...
TriggerPerP robe	Report the result of each probe.	N/A	Boolean: • **true**—Report the result of each probe. • **false**—Report according to TriggerPassCount and TriggerFailCount	In the same table, TriggerPerProbe can be configured true only when both TriggerPassCount and TriggerFailCount are not set to false. If TriggerPerProbe and TriggerPassCount/TriggerFailCount are configured in different tables, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default).	Only the ICMP-echo, DNS and TCP half-open operations support this column.
FrequencyAdjust	This frequency time will be adjusted to this value when the probe fails.	N/A	Unsigned integer. Value range: 0 to 604800000. Default: 0.	If the operation is not completed when the interval expires, the next operation does not start. If the value is 0, the frequency time will not be changed when the probe fails.

NQA/IcmpEchoTemplates

This table contains information about ICMP-echo templates.

XML structure

```
<NQA>
  <IcmpEchoTemplates>
    <IcmpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
    </IcmpEchoTemplate>
  </IcmpEchoTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoTemplates
Table type	Multi-instance table
Row name	IcmpEchoTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809.
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507. Default: 100.	N/A
SrcIf	Source interface whose primary IP address will be used as the source IP address for the requests.	N/A	String. Length: 2 to 47 characters.	By default, no source IP address is specified. The requests use the primary IP address of the outgoing interface as their source IP address. If both the source IP address and source interface are specified, the most recent configuration takes effect. The specified source interface must be up. The following types of interfaces can be configured as the source interface for the operation: • VLAN interface. • Layer 3 Ethernet interface. • Layer 3 aggregate interface. • EFM interface. • Ethernet channel interface. • Management interface. • Layer 3 redundancy interface. Support for interface types depends on the device model.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/UdpEchoTemplates

This table contains information about UDP-echo templates.

XML structure

```
<NQA>
  <UdpEchoTemplates>
    <UdpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectFailedData>
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
        <RawFlag></RawFlag>
      </RequestDataFill>
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </ReleaseDataFill>
      <PortDetectEnable></PortDetectEnable>
    </UdpEchoTemplate>
  </UdpEchoTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoTemplates
Table type	Multi-instance table
Row name	UdpEchoTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809. DataFill is similar to RequestDataFill, and it should not be specified with RequestDataFill simultaneously.
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507. Default: 100.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and

Column name	Column description	Column type	Data type and restrictions	Remarks
				get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: • Data. • HexFlag. • RawFlag.	By default, no payload fill string is specified. All the members must be specified. RequestDataFill is similar to DataFill, and it should not be specified with DataFill simultaneously. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A
RawFlag	Whether the raw mode is used.	N/A	Boolean: • **true**—Raw mode. • **false**—General mode (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: • Data. • HexFlag	By default, no payload fill string is specified. Both Data and HexFlag must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: • true—Port detection mode is enabled. • false—Port detection mode is disabled (default).	N/A

NQA/TcpTemplates

This table contains information about TCP templates.

XML structure

```
<NQA>
  <TcpTemplates>
    <TcpTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectFailedData>
```

```
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </RequestDataFill >
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </ReleaseDataFill>
      <DisconnectMode></DisconnectMode>
    </TcpTemplate>
  </TcpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpTemplates
Table type	Multi-instance table
Row name	TcpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809. DataFill is similar to RequestDataFill, and it should not be specified with RequestDataFill simultaneously.
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag	By default, no expected data is specified. The expected data is checked only when both data-fill and expect-data are specified. Both Data and Offset must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
				For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: • Data.	By default, no payload fill string is specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• HexFlag	Both Data and HexFlag must be specified. RequestDataFill is similar to DataFill, and it should not be specified with DataFill simultaneously. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: • Data. • HexFlag	By default, no payload fill string is specified. Both Data and HexFlag must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A
DisconnectMode	The tcp disconnection mode.	N/A	Enumeration: • **0**—RST mode (default). • **1**—FIN mode.	N/A

NQA/FtpTemplates

This table contains information about FTP templates.

XML structure

```
<NQA>
  <FtpTemplates>
    <FtpTemplate>
      <Name></Name>
      <Operation></Operation>
      <UserName></UserName>
      <Password></Password>
      <FileName></FileName>
      <Mode></Mode>
    </FtpTemplate>
  </FtpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	FtpTemplates
Table type	Multi-instance table
Row name	FtpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Operation	FTP operation type.	N/A	Enumeration: • **1**—Get operation (default). • **2**—Put operation.	By default, the FTP operation type is get, which means obtaining files from the FTP server.
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no FTP login username is specified.
Password	Login password.	N/A	String. Length : 1 to 32 characters.	By default, no FTP login password is specified.
FileName	Name of the file to be transferred.	N/A	String. Length: 1 to 200 characters.	This configuration is required for the put operation and does not take effect for the get operation.

Column name	Column description	Column type	Data type and restrictions	Remarks
				By default, no file is specified. The forward slash (/) is not supported in FileName.
Mode	The data transmission mode.	N/A	Enumeration: • **0**—Active mode (default). • **1**—Passive mode.	N/A

NQA/SnmpTemplates

This table contains information about SNMP templates.

XML structure

```
<NQA>
  <SnmpTemplates>
    <SnmpTemplate>
      <Name></Name>
      <Community></Community>
    </SnmpTemplate>
  </SnmpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpTemplates
Table type	Multi-instance table
Row name	SnmpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP	N/A	String.	The default community

Column name	Column description	Column type	Data type and restrictions	Remarks
	community name.		Length: 1 to 32 characters.	name is **public**.

NQA/DnsTemplates

This table contains information about DNS templates.

XML structure

```
<NQA>
  <DnsTemplates>
    <DnsTemplate>
      <Name></Name>
      <ResolveTarget></ResolveTarget>
      <ResolveType></ResolveType>
      <ExpectIP></ExpectIP>
      <OutIf></OutIf>
    </DnsTemplate>
  </DnsTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	DnsTemplates
Table type	Multi-instance table
Row name	DnsTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResolveTarget	Domain name that needs to be translated.	N/A	String. Length: 1 to 255 characters.	By default, no domain name is specified.
ResolveType	Domain name resolution type.	N/A	Enumeration:	A type A query resolves a domain name to a

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Type A query (default). • **28**—Type AAAA query.	mapped IPv4 address, and a type AAAA query to a mapped IPv6 address.
ExpectIP	The IPv4 or IPv6 address that is expected to be returned.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Expected IP address examples: • 1.1.1.1. • 1:1::1:1.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/HttpTemplates

This table contains information about HTTP, HTTPS and HTTP2 templates.

XML structure

```
<NQA>
  <HttpTemplates>
    <HttpTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <ExpectStatus></ExpectStatus>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
      </ExpectData>
      <SslClientPolicy></SslClientPolicy>
      <ProxyUrl></ProxyUrl>
      <ExpectFailedStatus></ExpectFailedStatus>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
      </ExpectFailedData>
      <OutIf></OutIf>
    </HttpTemplate>
  </HttpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	HttpTemplates
Table type	Multi-instance table
Row name	HttpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 32 characters.	By default, no login password is specified.
Operation	Operation type.	N/A	Enumeration: • **1**—Get operation (default). • **2**—Post operation. • **3**—Raw Operation.	By default, the operation type is get, which means obtaining files from the server. In the raw operation, use the raw-request command to specify the content of the HTTP request to be sent to the server.
Version	Version	N/A	Enumeration: • **0**—Version1.0 (default). • **1**—Version1.1.	HTTP2 operation do not support this column.
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	This step is required for the raw operation. By default, no contents are specified. For HTTP and HTTPS operations, the following formats are not supported: Xq/qu/qui/quitX, XquitYaaaX, Xr/re/ret/retu/retur/returnX or XreturnYaaaX(X represents 0 to n spaces, Y represents 1 to n spaces and aaa represents a character

Column name	Column description	Column type	Data type and restrictions	Remarks
				string without spaces.) As a best practice, do not configure the alias. For HTTP2 operation, must be formatted hex string.and the length of the string must be an even length 2 to 512.
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, No expected status code is configured.
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search the expected response string.	Offset in bytes after which the client starts to search for the expected string	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
SslClientPolicy	SSL client policy used to access the HTTPS server	N/A	String, case-insensitive. Length: 1 to 31 characters.	Only the HTTPS and HTTP2 operations support this column. By default, no SSL client policy is specified.
ProxyUrl	URL of the proxy server.	N/A	String. Length: 1 to 255 characters.	ProxyUrl is the address of proxy server,and the client to access the server through proxy server. By default, no ProxyUrl is specified for the proxy server.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Valid ProxyUrl formats vary by operations: • For HTTP operations, enter the URL in one of the following formats: ○ http://*host* ○ http://*host:port* • For HTTPS operations, enter the URL in one of the following formats: ○ https://*host* ○ https://*host:port* • For HTTP2 operations, enter the URL in one of the following formats: ○ http://*host* ○ http://*host:port* ○ https://host ○ https://*host:port*
ExpectFailed Status	List of expected failed- status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, No expected failed-status code is configured.
ExpectFailed Data	Data expected in responses to determine a failed operation.	Data structure	Members include: • Data. • Offset. • StrictFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected failed response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected failed response string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			offset.	
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/ImapTemplates

This table contains information about IMAP templates.

XML structure

```
<NQA>
  <ImapTemplates>
    <ImapTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Mailbox></Mailbox>
    </ImapTemplate>
  </ImapTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ImapTemplates
Table type	Multi-instance table
Row name	ImapTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	By default, no login username is specified.
Password	Login	N/A	String.	By default, no login

Column name	Column description	Column type	Data type and restrictions	Remarks
	password.		Length: 1 to 40 characters.	password is specified.
Mailbox	Mailbox name.	N/A	String. Length: 1 to 64 characters.	By default, the mailbox is **INBOX**.

NQA/Pop3Templates

This table contains information about POP3 templates.

XML structure

```
<NQA>
  <Pop3Templates>
    <Pop3Template>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
    </Pop3Template>
  </Pop3Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Pop3Templates
Table type	Multi-instance table
Row name	Pop3Template
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 40 characters.	By default, no login password is specified.

NQA/RadiusTemplates

This table contains information about RADIUS and RADIUS-ACCOUNT templates.

XML structure

```
<NQA>
  <RadiusTemplates>
    <RadiusTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Key></Key>
    </RadiusTemplate>
  </RadiusTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RadiusTemplates
Table type	Multi-instance table
Row name	RadiusTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 253 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 64 characters.	The RADIUS-ACCOUNT operation does not support this column. By default, no login password is specified.
Key	Shared key.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/RtspTemplates

This table contains information about RTSP templates.

XML structure

```
<NQA>
  <RtspTemplates>
    <RtspTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <RequestMethod></RequestMethod>
    </RtspTemplate>
  </RtspTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RtspTemplates
Table type	Multi-instance table
Row name	RtspTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, no expected status code is configured.
RequestMethod	Request method.	N/A	Enumeration: • **1**—Options method (default). • **2**—Describe method.	By default, the request method is options, which means obtaining request methods that available on the server.

NQA/SipTemplates

This table contains information about SIP templates.

XML structure

```
<NQA>
  <SipTemplates>
    <SipTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <TransProtocol></TransProtocol>
    </SipTemplate>
  </SipTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SipTemplates
Table type	Multi-instance table
Row name	SipTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, no expected status is specified.
TransProtocol	Transport layer protocol.	N/A	Enumeration: • **6**—TCP. • **17**—UDP (default).	N/A.

NQA/SslTemplates

This table contains information about SSL templates.

XML structure

```
<NQA>
  <SslTemplates>
    <SslTemplate>
      <Name></Name>
      <ClientPolicy></ClientPolicy>
    </SslTemplate>
  </SslTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SslTemplates
Table type	Multi-instance table
Row name	SslTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	By default, no SSL client policy is specified.

NQA/SnmpDcaTemplates

This table contains information about SNMP-DCA templates.

Reading of and modification to the table must follow the order of the column in the table.

XML structure

```
<NQA>
  <SnmpDcaTemplates>
    <SnmpDcaTemplate>
      <Name></Name>
      <Community></Community>
```

```
      <Version></Version>
      <AgentType></AgentType>
      <CPU>
        <Threshold></Threshold>
        <Weight></Weight>
      </CPU>
      <Memory>
        <Threshold></Threshold>
        <Weight></Weight>
      </Memory>
      <Disk>
        <Threshold></Threshold>
        <Weight></Weight>
      </Disk>
      <OID>
        <OidString></OidString>
        <Threshold></Threshold>
        <Weight></Weight>
      </OID>
    </SnmpDcaTemplate>
  </SnmpDcaTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpDcaTemplates
Table type	Multi-instance table
Row name	SnmpDcaTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	The default community name is **public**.
Version	SNMP version.	N/A	Enumeration: • **1**—SNMPv1 (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—SNMPv2c.	
AgentType	SNMP agent type.	N/A	Enumeration: • **0**—Net-Snmp (default). • **1**—Windows. • **2**—UserDefined.	N/A
CPU	CPU usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	CPU usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 80.	N/A
Weight	CPU usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 3.	N/A
Memory	Memory usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	Memory usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 70.	N/A
Weight	Memory usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 2.	N/A
Disk	Disk usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	Disk usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 90.	N/A
Weight	Disk usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 4.	N/A
OID	OID	Data	Members include:	This column can appear

Column name	Column description	Column type	Data type and restrictions	Remarks
	information of the MIB object whose statistics the SNMP DCA operation collects.	structure	• OidString. • Threshold. • Weight.	at most 8 times in this row. By default, no OID data is specified. All the members must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
OidString	MIB subtree by its root node's OID.	N/A	Dotted numeric string. Length: 1 to 255 characters	Example for OID: 1.3.6.1.4.1.2021.11.11.0.
Threshold	Threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NQA/WapTemplates

This table contains information about WAP templates.

XML structure

```
<NQA>
  <WapTemplates>
    <WapTemplate>
      <Name></Name>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
    </WapTemplate>
  </WapTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	WapTemplates

Table type	Multi-instance table
Row name	WapTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A

NQA/TcpHalfOpenTemplates

This table contains information about TCP half-open templates.

XML structure

```
<NQA>
  <TcpHalfOpenTemplates>
    <TcpHalfOpenTemplate>
      <Name></Name>
      <PortDetectEnable></PortDetectEnable>
      <OutIf></OutIf>
    </TcpHalfOpenTemplate>
  </TcpHalfOpenTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpHalfOpenTemplates
Table type	Multi-instance table
Row name	TcpHalfOpenTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: • **true**—Port detection mode is enabled. • **false**—Port detection mode is disabled (default).	N/A
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/DiameterTemplates

This table contains information about Diameter templates.

XML structure

```
<NQA>
  <DiameterTemplates>
    <DiameterTemplate>
      <Name></Name>
      <LocalHostName></LocalHostName>
      <LocalRealmName></LocalRealmName>
      <ProductName></ProductName>
      <VendorId></VendorId>
      <AuthAppId></AuthAppId>
      <AcctAppId></AcctAppId>
      <VendorSpecificAppId>
        <VendorId></VendorId>
        <AuthAppId></AuthAppId>
        <AcctAppId></AcctAppId>
      </VendorSpecificAppId>
      <ExpectStatus></ExpectStatus>
      <SslClientPolicy></SslClientPolicy>
      <OutIf></OutIf>
    </DiameterTemplate>
  </DiameterTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	DiameterTemplates
Table type	Multi-instance table
Row name	DiameterTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
LocalHostName	Local host name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	It can include letters, digits, hyphens (-) and dots (.). By default,no local host

Column name	Column description	Column type	Data type and restrictions	Remarks
				name is specified.
LocalRealmName	Local realm name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	It can include letters, digits, hyphens (-) and dots (.). By default, the local realm name is “h3c.com”.
ProductName	Product name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	By default, the local realm name is “H3C Diameter Health Monitoring”.
VendorId	Vendor identification number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	By default, the vendor identification number is 0.
AuthAppId	Authentication and authorization application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	By default, no authentication and authorization application identification number is specified.
AcctAppId	Accounting application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	By default, no accounting application identification number is specified.
VendorSpecificAppId	Application identification number for specific vendor.	Data structure	Members include: • VendorId. • AuthAppId. • AcctAppId.	By default, no application identification number for specific vendor is specified. VendorId must be specified. Only one of AuthAppId and AcctAppId can be specified.
VendorId	Vendor identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AuthAppId	Authentication and authorization application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AcctAppId	Accounting application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 2000,3000-4000,5000. By default, No expected failed-status code is configured.
SslClientPolicy	SSL client policy used to access the	N/A	String, case-insensitive. Length: 1 to 31 characters.	By default, no SSL client policy is specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
	Diameter server			
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/Entries

This table contains information about NQA entries.

XML structure

```
<NQA>
  <Entries>
    <Entry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <Type></Type>
      <Description></Description>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <Frequency></Frequency>
      <HistoryEnable></HistoryEnable>
      <HistoryHoldTime></HistoryHoldTime>
      <HistoryNumber></HistoryNumber>
      <NextHop></NextHop>
      <ProbeCount></ProbeCount>
      <ProbeTimeout></ProbeTimeout>
      <BypassRouteEnable></BypassRouteEnable>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <StatHoldTime></StatHoldTime>
      <StatInterval></StatInterval>
      <StatMaxGroup></StatMaxGroup>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
    </Entry>
  </Entries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • **0**—ICMP-echo • **1**—UDP-echo • **2**—TCP • **3**—DLSw • **4**—FTP • **5**—DHCP • **6**—SNMP • **7**—DNS • **8**—HTTP • **9**—UDP-jitter • **10**—VOICE • **11**—Path-jitter • **12**—UDP-tracert • **13**—ARP • **14**—IMAP • **15**—POP3 • **16**—Radius • **17**—RTSP • **18**—SIP • **19**—SMTP • **20**—SSL • **21**—HTTPS • **22**—TCP Half-open • **23**—Throughput • **24**—Latency • **25**—Frame-Loss • **26**—ICMP-jitter	Type ICMP-echo, ICMP-jitter, ARP, HTTP, HTTP2, UDP-echo, and UDP-jitter are supported. You must specify a type when you create an entry that does not exist. You cannot specify a type when you remove or delete an entry. The type cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **27**—SNMP-DCA • **28**—WAP • **29**—Y1564 • **30**—RADIUS-ACCOUNT • **31**—Twamp Light • **32**—ICMP • **33**—HTTP2 • **34**—Diameter	
Description	Entry description	N/A	String, case-sensitive. Length: 1 to 200 characters.	By default, no description is specified for an entry.
DstIP	Destination IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column and the URL column cannot be both configured. The type FTP, HTTP, HTTPS, HTTP2 and RTSP types do not support this column. Type ICMP-echo and UDP-jitter support IPv6 address. By default, no destination address is specified. IPv4 example: 1.1.1.1. IPv6 example: 1:1::1:1.
DstPort	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	The type ICMP-echo, ICMP-Jitter, ARP,HTTP, HTTP2 and FTP do not support this column. The default value of destination port depend on the Type column. • UDP-echo: none. • TCP: none. • SNMP: 161. • DNS: 53. • IMAP: 143. • POP3: 110. • Radius: 1812. • RTSP: 554. • SIP: 5060(UDP)

Column name	Column description	Column type	Data type and restrictions	Remarks
				or 5061(TCP). • SMTP: 25. • SSL: none. • UDP-jitter:none.
Frequency	Probe interval in milliseconds	N/A	Unsigned integer. Value range: 0 to 604800000.	The default value of probe interval depend on the Type column. • Voice/Path-jitter : 60000. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/HTTP2/SNMP/UDP-tracert/ICMP-jitter/UDP-jitter/ARP: 0.
HistoryEnable	Whether to enable the saving of history records	N/A	EnableState: • **enable**—Enable the saving of history records. • **disable**—Disable the saving of history records.	The default state depend on the Type column. • UDP-tracert: enable. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/HTTP2/SNMP/ARP: disable.
HistoryHoldTime	History records lifetime in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	The default value is 120.
HistoryNumber	Maximum number of history records that can be saved	N/A	Unsigned integer. Value range: 0 to 50.	The default value is 50.
NextHop	Next hop IPv4 or IPv6 address	N/A	String. Length: 1 to 46 characters.	Only the type ICMP-echo support this column. IPv4 example: 1.1.1.1. IPv6 example: 1:1::1:1.
ProbeCount	Probe times per operation	N/A	Unsigned integer. Value range: 1 to 15.	The default value of probe count depend on the Type column. • UDP-tracert: 3. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/HTTP2/SNMP/ICMP-jitter/UDP-jitter/ARP: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The value ranges of probe count depend on the Type column. • UDP-tracert: 1 to 10. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS//FTP/HTTP/HTTP2/SNMP/ICMP-jitter/UDP-jitter/ARP: 1 to 15.
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer. Default: 3000.	The value ranges of probe timeout depends on the Type column. • FTP/HTTP/HTTPS/HTTP2: 10 to 86400000. • ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/Radius/RTSP/SIP/SMTP/SSL/TCP Half-open/ARP: 10 to 3600000.
BypassRouteEnable	Whether to enable the routing table bypass feature to test the connectivity to the direct destination	N/A	EnableState: • **enable**—Enable the routing table bypass feature. • **disable**—Disable the routing table bypass feature.	The default state is disable. The type ARP does not support this column.
SrcIP	Source IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	Type ICMP-echo and UDP-jitter support IPv6 address. By default, no source address is specified. IPv4 example: 1.1.1.1. IPv6 example: 1:1::1:1. The source IPv4 or IPv6 address must be the IPv4 or IPv6 address of a local interface, and the interface must be up.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Source port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	Type ICMP-echo, DHCP, DLSW, DNS, ICMP-jitter, Path-jitter, TCP, FTP, ARP, HTTP and HTTP2 do not support this column. The default source port number varies by operation type: • Frame-loss/Throughtput/Latency: 49184 • Udp-echo/Snmp/UDP-tracert/UDP-jitter/Voice: none
StatHoldTime	Statistics groups hold time in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	The default value is 120.
StatInterval	Statistics collection interval in minutes	N/A	Unsigned integer. Value range: 1 to 35791394.	The default value is 60.
StatMaxGroup	Maximum number of statistics groups	N/A	Unsigned integer. Value range: 0 to 100.	The default value is 2.
TTL	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 255.	Type ARP does not support this column. The default value of TTL depend on the Type column. • UDP-tracert: 30. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/HTTP2/SNMP/ICMP-jitter/UDP-jitter: 20.
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	Type ARP does not support this column.
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 0 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
URL	URL of the destination server	N/A	String. Length: 1 to 255 characters.	This column and the DstIP, DstPort column cannot be configured simultaneity.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Only the types of FTP, HTTP, HTTPS, HTTP2, ICMP-echo, UDP-jitter, and RTSP support this column. By default, no URL is specified for the destination server. The formats of URL depend on the Type column. • FTP Enter the URL in one of the following formats: ftp://host/filename ftp://host:port/filename When performing the get operation, the file name is required. When performing the put operation, the filename argument does not take effect, even if it is specified. The file name for the put operation is determined by the FileName column. • HTTP Enter the URL in one of the following formats: http://host/resource http://host:port/resource • HTTPS Enter the URL in one of the following formats: https://host/resource https://host:port/resource • HTTP2 Enter the URL in one of the following formats: http://host/resource http://host:port/reso

Column name	Column description	Column type	Data type and restrictions	Remarks
				urce https://host/resource https://host:port/resource • RTSP Enter the URL in one of the following formats: rtsp://host/resource rtsp://host:port/resource

NQA/IcmpEchoEntries

This table contains information about ICMP-Echo entries.

XML structure

```
<NQA>
  <IcmpEchoEntries>
    <IcmpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
      <RethMemberProbe></RethMemberProbe>
    </IcmpEchoEntry>
  </IcmpEchoEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoEntries
Table type	Multi-instance table
Row name	IcmpEchoEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	The default payload fill string varies by device model.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	The default value is 100.
SrcIf	Source interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified source interface must be up.
OutIf	Output interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.
RethMember Probe	Enabling status of probing on the Reth member interface	N/A	EnableState: • **enable**—Enabled. • **disable**—Disabled (default).	N/A

NQA/IcmpJitterEntries

This table contains information about ICMP-jitter entries.

XML structure

```
<NQA>
  <IcmpJitterEntries>
    <IcmpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <JitterMode></JitterMode>
    </IcmpJitterEntry>
  </IcmpJitterEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpJitterEntries
Table type	Multi-instance table
Row name	IcmpJitterEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000. Default: 20	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 10	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000. Default: 3000	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
JitterMode	ICMP jitter mode	N/A	Enumeration: • **0**—ICMP timestamp(default). • **1**—ICMP echo.	Only IPv4 tests support this column.

NQA/UdpEchoEntries

This table contains information about UDP-echo entries.

XML structure

```
<NQA>
  <UdpEchoEntries>
    <UdpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
    </UdpEchoEntry>
  </UdpEchoEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoEntries
Table type	Multi-instance table
Row name	UdpEchoEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	The default payload fill string varies by device model.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	The default value is 100.

NQA/UdpJitterEntries

This table contains information about UDP-jitter entries.

XML structure

```
<NQA>
  <UdpJitterEntries>
    <UdpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <OutIf></OutIf>
      <HighPerformance></HighPerformance>
      <MplsSimulation>
        <Enable></Enable>
        <Exp></Exp>
      </MplsSimulation>
    </UdpJitterEntry>
  </UdpJitterEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	UdpJitterEntries
Table type	Multi-instance table
Row name	UdpJitterEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in	N/A	Unsigned integer. Value range: 10 to 60000. Default: 20	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	milliseconds			
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 10	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000. Default: 3000	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	The default payload fill string varies by device model.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 68 to 65507. Default: 100	N/A
OutIf	Output interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.
HighPerformance	Enabling status of the high performance mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
MplsSimulation	MPLS emulation test information	Data structure	Members include: • Enable. • Exp.	The members must both be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Enable	Enabling status of MPLS emulation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
Exp	EXP value for each MPLS probe packet	N/A	Unsigned integer. Value range: 0 to 7. Default: 0	When the value for **Enable** is false, the system ignores the **Exp** value setting.

NQA/HttpEntries

This table contains information about HTTP and HTTP2 entries.

XML structure

```
<NQA>
  <HttpEntries>
    <HttpEntry>
      <AdminName></AdminName>
```

```
      <OperationTag></OperationTag>
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <OutIf></OutIf>
    </HttpEntry>
  </HttpEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	HttpEntries
Table type	Multi-instance table
Row name	HttpEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 32 characters.	By default, no login password is specified.
Operation	Operation type.	N/A	Enumeration: • **1**—Get operation (default). • **2**—Post operation. • **3**—Raw Operation.	By default, the operation type is get, which means obtaining files from the server. In the raw operation, use the raw-request command to specify the content of the HTTP request to be sent to the server.
Version	Version	N/A	Enumeration: • **0**—Version1.0 (default). • **1**—Version1.1.	HTTP2 operation do not support this column

Column name	Column description	Column type	Data type and restrictions	Remarks
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	This step is required for the raw operation. By default, no contents are specified. For HTTP and HTTPS operations, the following formats are not supported: Xq/qu/qui/quitX, XquitYaaaX, Xr/re/ret/retu/retur/returnX or XreturnYaaaX(X represents 0 to n spaces, Y represents 1 to n spaces and aaa represents a character string without spaces.) As a best practice, do not configure the alias. For HTTP2 operation, must be formatted hex string.and the length of the string must be an even length 2 to 512.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/Schedules

This table contains information about NQA entry schedules. You cannot edit a Schedules after it is configured.

XML structure

```
<NQA>
  <Schedules>
    <Schedule>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <StartTime>
        <StartNow></StartNow>
        <Time></Time>
      </StartTime>
      <Lifetime>
        <Forever></Forever>
        <Duration></Duration>
      </Lifetime>
      <Recurring></Recurring>
    </Schedule>
  </Schedules>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Schedules
Table type	Multi-instance table
Row name	Schedule
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
StartTime	Start time	N/A	Member include: • StartNow • Time	When StartNow is true, StartTime cannot be specified. When StartTime is specified, StartNow must be false.
StartNow	Start now	N/A	Boolean: • true • false	True means to start the operation immediately.
Time	Start time and date of an operation	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Lifetime	The duration of an operation	N/A	Member include: • Forever • Duration	When Forever is true, Duration cannot be specified. When Duration is specified, Forever must be false.
Forever	Forever	N/A	Boolean: • true • false	True means to perform the operation until you stop it.
Duration	The duration of an operation in seconds	N/A	Unsigned integer. Value range: 1 to 2147483647.	When Recurring is enabled, the value range for Duration is 1 to 86399.
Recurring	Recurring	N/A	EnableState: • **enable**—Run the operation automatically at the start time and for the specified duration. • **disable**—The operation	The default state is disable. When Recurring is enable, Forever must be designated as false.

Column name	Column description	Column type	Data type and restrictions	Remarks
			is performed only once at the specified date and time.	

NQA/ReactionTriggerFailItems

This table contains information about reaction trigger fail items. You cannot edit a reaction trigger failItem after it is configured.

XML structure

```
<NQA>
  <ReactionTriggerFailItems>
    <ReactionTriggerFailItem>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <Occurrences></Occurrences>
    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ReactionTriggerFailItems
Table type	Multi-instance table
Row name	ReactionTriggerFailItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Occurrences	Maximum number of consecutive probe failures	N/A	Unsigned integer. Value range: 1 to 16.	N/A

NQA/Reactions

This table contains information about reaction items. You cannot edit a reaction item after it is configured.

XML structure

```
<NQA>
  <Reactions>
    <Reaction>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <CheckedElement></CheckedElement>
      <ThresholdType>
        <Type></Type>
        <Occurrences></Occurrences>
      </ThresholdType>
      <ThresholdValue>
        <UpperLimit></UpperLimit>
        <LowerLimit></LowerLimit>
      </ThresholdValue>
      <ActionType></ActionType>
    </Reaction>
  </Reactions>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Reactions
Table type	Multi-instance table
Row name	Reaction
Restrictions	The reaction can be configured only when the corresponding NQA entry is created. If the NQA entry is deleted, all reactions within it will be deleted. To perform the create or merge operation for the table, make sure all attributes except action type are specified.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Monitored element	N/A	Enumeration: • **1**—probe-duration • **2**—probe-fail • **3**—rtt • **4**—packet-loss • **5**—jitter-sd • **6**—jitter-ds • **7**—icpif • **8**—-mos • **9**—owd-sd • **10**—owd-ds	Support for the CheckedElement varies by NQA entry operation type. Details are as follow: • ICMP-echo/ARP: probe-duration/probe-fail • ICMP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt • UDP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt
ThresholdType	Threshold type	Data structure	Member include: • Type • Occurrences	The ThresholdType is valid if monitored element is jitter-sd, jitter-ds, packet-loss, probe-duration, probe-fail or rtt.
Type	Threshold violation type	N/A	Enumeration: • **1**—average • **2**—consecutive • **3**—accumulate	Support for the violation type varies by monitored element. Details are as follow: • jitter-sd/jitter-ds: average/accumulate • packet-loss: accumulate. • probe-duration: average/consecutive/accumulate. • probe-fail: consecutive/accumulate. • rtt: accumulate/average

Column name	Column description	Column type	Data type and restrictions	Remarks
Occurrences	Maximum number of threshold violations	N/A	Unsigned integer.	The value of Occurrences is valid if the Type is consecutive or accumulate. The value range of occurrences depends on the NQA entry operation type and the monitored element. Details are as follow: • jitter-ds/jitter-sd: The value range of accumulate-occurrences is 1 to 14999 for ICMP-jitter and UDP-jitter operations. • packet-loss: The value range of accumulate-occurrences is 1 to 15000 for ICMP-jitter and UDP-jitter operations. • probe-duration: The value range of accumulate-occurrences is 1 to 15. The value range of consecutive-occurrences is 1 to 16. • probe-fail: The value range of accumulate-occurrences is 1 to 15. The value range of consecutive-occurrences is 1 to 16. • rtt: The value range of accumulate-occurrences is 1 to 15000 for ICMP-jitter and UDP-jitter operations.
ThresholdValue	Value range of threshold	Data structure	Member include: • UpperLimit • LowerLimit	The value range of threshold is valid if the monitored element is jitter-sd, jitter-ds, owd-sd, owd-ds, icpif, mos, probe-duration or RTT.
UpperLimit	Upper limit of threshold	N/A	Unsigned integer.	The value range of threshold depends on the value of CheckedElement. Details are as follow: • jitter-ds/jitter-sd: 0 to 3600000. • owd-ds/owd-sd: 0 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				3600000. • icpif: 1 to 100. • mos: 1 to 500. • probe-duration: 0 to 3600000. • rtt: 0 to 3600000.
LowerLimit	Lower limit of threshold	N/A	Unsigned integer.	The value range of threshold depends on the value of CheckedElement. Details are as follow: • jitter-ds/jitter-sd: 0 to 3600000. • owd-ds/owd-sd: 0 to 3600000. • icpif: 1 to 100. • mos: 1 to 500. • probe-duration: 0 to 3600000. • rtt: 0 to 3600000.
ActionType	Action to be triggered	N/A	Enumeration: • **0**—none • **1**—trap-only • **2**—trigger-only	Support for the action varies by monitored element. Details are as follow: • jitter-ds/jitter-sd/rtt: none/trap-only. The default action is none • owd-ds/owd-sd: not support. • icpif: none/trap-only. The default action is none. • mos: none/trap-only. The default action is none. • packet-loss: none/trap-only. The default action is none. • probe-duration: none/trap-only. The default action is none. • probe-fail(for trap): none/trap-only. The default action is none. • probe-fail(for trigger): trigger-only.

NQA/ClientStatus

This table contains information about NQA client enabling status.

XML structure

```
<NQA>
  <ClientStatus>
    <Enable></Enable>
  </ClientStatus>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ClientStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA client	N/A	Enabling status: • **enable**—NQA client is enabled. • **disable**—NQA client is disabled.	By default, the NQA client is enabled.

NQA/TwamplightClientEnable

This table contains information about TWAMP Light client enabling status.

XML structure

```
<NQA>
  <TwamplightClientEnable>
  <ClientEnable></ClientEnable>
  </TwamplightClientEnable>
</NQA>
```

Table description

Item	Description
Feature name	NQA

Table name	TwamplightClientEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientEnable	Enabling status of the TWAMP Light client	N/A	Enabling status: • **enable**— TWAMP Light client is enabled. • **disable**— TWAMP Light client is disabled.	By default, the NQA TWAMP Light client is disabled.

NQA/TwamplightClientSessions

This table contains information about TWAMP Light client sessions.

XML structure

```
<NQA>
  <TwamplightClientSessions>
    <TwamplightClientSession>
      <SessionID></SessionID>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPortNumber></SrcPortNumber>
      <DstPortNumber></DstPortNumber>
      <VRF></VRF>
      <DscpValue></DscpValue>
      <Description></Description>
      <PaddingLength></PaddingLength>
      <DataFill>
       <Data></Data>
       <HexFlag></HexFlag>
      </DataFill>
      <SrcInterface></SrcInterface>
      <ServiceID></ServiceID>
      <DesMacAddress></DesMacAddress>
      <SrcMacAddress></SrcMacAddress>
      <TimestampFormat></TimestampFormat>
      <VLANID>
```

```
      <Service></Service>
      <Customer></Customer>
    </VLANID>
    <Priority8021p></Priority8021p>
    <ReactionEntries>
      <ReactionEntry>
        <ItemNumber></ItemNumber>
        <CheckedElement></CheckedElement>
        <ThresholdValue>
          <UpperLimit></UpperLimit>
          <LowerLimit></LowerLimit>
        </ThresholdValue>
        <ActionType></ActionType>
      </ReactionEntry>
    </ReactionEntries>
    <BindInterface></BindInterface>
    <AdjustChecksum></AdjustChecksum>
    <LinkBundleIf></LinkBundleIf>
    <OneWayDelayMeasure></OneWayDelayMeasure>
  </TwamplightClientSession>
</TwamplightClientSessions>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightClientSessions
Table type	Multi-instance table
Row name	TwamplightClientSession
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
SrcIpAddress	Source IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIpAddress	Destination IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no destination address is specified.
SrcPortNumber	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DstPortNumber	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 1 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
DscpValue	DSCP value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Description	Session description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
PaddingLength	Payload size	N/A	Unsigned integer. Value range: 44 to 1518.	N/A
DataFill	Packet payload fill string for probe packets	Data structure	Members include: • Data. • HexFlag.	By default, no expected data is specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed. Both Data and HexFlag must be specified.
Data	Packet payload fill string	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string (default).	N/A
SrcInterface	Source interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified source interface must be up.
ServiceID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DesMacAddress	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMacAddress	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Timestamp Format	Timestamp format of packets	N/A	Enumeration: • 1—NTP format. • 2—PTP format (default).	N/A
VLANID	VLAN ID	Data structure	Members include: • Service. • Customer.	N/A
Service	Service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Customer	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The server VLAN must be specified first before the customer VLAN.
Priority8021p	Priority of the packet	N/A	Unsigned integer. Value range: 0 to 7. Default: 0.	N/A
ReactionEntries	Reaction entry statistics	SubLists	N/A	N/A
BindInterface	Specify an interface by its type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
AdjustChecksum	Enabing status of the adjust UDP checksum mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LinkBundleIf	Specify an bundle interface by its type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
OneWayDelayMeasure	Enabing status of the One Way Delay-Measure mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

NQA/TwamplightClientSessions/ReactionEntries

This table contains information about TWAMP Light client sessions.

XML structure

See the XML structure of NQA/TwamplightClientSessions

Table description

Item	Description
Feature name	NQA
Table name	ReactionEntries
Table type	Multi-instance table
Row name	ReactionEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Checked element	N/A	Enumeration: • **1**—Two-way-delay • **2**—Two-way- jitter • **3**—Two-way-loss	N/A
ThresholdValue	Value range of threshold	Data structure	Member include: • UpperLimit • LowerLimit	N/A
UpperLimit	Upper limit of threshold	N/A	Unsigned integer. Value range: 2 to 1000000.	N/A
LowerLimit	Lower limit of threshold	N/A	Unsigned integer. Value range: 1 to 999999.	N/A
ActionType	Action to be triggered	N/A	Enumeration: • **0**—None • **1**—Trap-only	N/A

NQA/TwamplightSenderEnable

This table contains information about TWAMP Light sender enabling status.

XML structure

```
<NQA>
  <TwamplightSenderEnable>
    <SenderEnable></SenderEnable>
```

```
  </TwamplightSenderEnable>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SenderEnable	Enabling status of the TWAMP Light sender	N/A	Enabling status: • **enable**— TWAMP Light sender is enabled. • **disable**— TWAMP Light sender is disabled.	By default, the NQA TWAMP Light sender is disabled.

NQA/TwamplightSenderSessions

This table contains information about TWAMP Light sender sessions.

XML structure

```
<NQA>
  <TwamplightSenderSessions>
    <TwamplightSenderSession>
      <SessionID></SessionID>
      <Timeout></Timeout>
      <TxInterval></TxInterval>
      <StatisticsInterval></StatisticsInterval>
      <MonitorTime></MonitorTime>
    </TwamplightSenderSession>
  </TwamplightSenderSessions>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderSessions
Table type	Multi-instance table
Row name	TwamplightSenderSession
Restrictions	The row creation and deletion of this table is along with table TwamplightClientSessions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
TxInterval	Interval at which probe packets are sent	N/A	Enumeration: • **10**—10 milliseconds. • **100**—100 milliseconds. • **1000**—1000 milliseconds. • **10000**—10000 milliseconds. • **30000**—30000 milliseconds.	N/A
Timeout	Timeout time for reponse packets in seconds	N/A	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
StatisticsInterval	Statistics collection interval in milliseconds	N/A	Unsigned integer. Value range: 1000 to 6000000.	N/A
MonitorTime	Reaction entry threshold violation monitor time in milliseconds	N/A	Unsigned integer. Value range: 1000 to 86400000.	N/A

Contents

NQA 1
NQA/Templates 1
XML structure 1
Table description 1
Columns 2
NQA/IcmpEchoTemplates 4
XML structure 4
Table description 5
Columns 5
NQA/UdpEchoTemplates 6
XML structure 6
Table description 6
Columns 7
NQA/TcpTemplates 9
XML structure 9
Table description 9
Columns 10
NQA/FtpTemplates 11
XML structure 11
Table description 12
Columns 12
NQA/SnmpTemplates 12
XML structure 13
Table description 13
Columns 13
NQA/DnsTemplates 13
XML structure 13
Table description 14
Columns 14
NQA/HttpTemplates 14
XML structure 14
Table description 15
Columns 15
NQA/ImapTemplates 17
XML structure 17
Table description 17
Columns 18
NQA/Pop3Templates 18
XML structure 18
Table description 18
Columns 19
NQA/RadiusTemplates 19
XML structure 19
Table description 19
Columns 19
NQA/RtspTemplates 20
XML structure 20
Table description 20
Columns 20
NQA/SipTemplates 21
XML structure 21
Table description 21
Columns 21
NQA/SslTemplates 22
XML structure 22
Table description 22
Columns 22

NQA/SnmpDcaTemplates 22
XML structure 23
Table description 23
Columns 23
NQA/WapTemplates 25
XML structure 25
Table description 25
Columns 25
NQA/TcpHalfOpenTemplates 26
XML structure 26
Table description 26
Columns 27
NQA/DiameterTemplates 27
XML structure 27
Table description 28
Columns 28
NQA/Histories 29
XML structure 29
Table description 29
Columns 30
NQA/Entries 31
XML structure 31
Table description 31
Columns 32
NQA/IcmpEchoEntries 35
XML structure 35
Table description 35
Columns 35
NQA/IcmpJitterEntries 36
XML structure 36
Table description 36
Columns 37
NQA/UdpEchoEntries 37
XML structure 37
Table description 37
Columns 38
NQA/UdpJitterEntries 38
XML structure 38
Table description 39
Columns 39
NQA/HttpEntries 40
XML structure 40
Table description 40
Columns 40
NQA/Schedules 41
XML structure 42
Table description 42
Columns 42
NQA/ReactionTriggerFailItems 43
XML structure 43
Table description 43
Columns 44
NQA/Reactions 44
XML structure 44
Table description 45
Columns 45
NQA/ClientStatus 46
XML structure 46
Table description 46
Columns 46
NQA/Results 46
XML structure 47

Table description 47
Columns 47
NQA/JitterResults 48
XML structure 48
Table description 50
Columns 50
NQA/Statistics 55
XML structure 55
Table description 56
Columns 56
NQA/Statistics/ReactionStatistics 57
XML structure 57
Table description 57
Columns 58
NQA/JitterStatistics 59
XML structure 59
Table description 61
Columns 61
NQA/JitterStatistics/ReactionStatistics 66
XML structure 66
Table description 66
Columns 66
NQA/FrameLossResults 67
XML structure 68
Table description 68
Columns 68
NQA/FrameLossResults/DetailResults 69
XML structure 69
Table description 69
Columns 69
NQA/ThroughputResults 70
XML structure 70
Table description 70
Columns 71
NQA/ThroughputResults/DetailResults 71
XML structure 71
Table description 71
Columns 72
NQA/LatencyResults 72
XML structure 72
Table description 73
Columns 73
NQA/LatencyResults/DetailResults 74
XML structure 74
Table description 74
Columns 74
NQA/Y1564Results 75
XML structure 75
Table description 76
Columns 76
NQA/Y1564Results/DetailResults 77
XML structure 77
Table description 77
Columns 77
NQA/TwamplightLossStats 79
XML structure 79
Table description 81
Columns 81
NQA/TwamplightLossStats/DetailStats 82
XML structure 82
Table description 82
Columns 83

NQA/TwamplightLossStats/LinkBundleIfs 83
XML structure 83
Table description 83
Columns 83
NQA/TwamplightLossStats/LinkBundleIfs/DetailStats 85
XML structure 85
Table description 85
Columns 85
NQA/TwamplightDelayStats 86
XML structure 86
Table description 88
Columns 88
NQA/TwamplightDelayStats/DetailStats 89
XML structure 89
Table description 89
Columns 89
NQA/TwamplightDelayStats/LinkBundleIfs 90
XML structure 90
Table description 90
Columns 90
NQA/TwamplightDelayStats/LinkBundleIfs/DetailStats 91
XML structure 92
Table description 92
Columns 92
NQA/TwamplightClientEnable 93
XML structure 93
Table description 93
Columns 93
NQA/TwamplightClientSessions 93
XML structure 93
Table description 94
Columns 95
NQA/TwamplightClientSessions/ReactionEntries 97
XML structure 97
Table description 97
Columns 97
NQA/TwamplightSenderEnable 98
XML structure 98
Table description 98
Columns 98
NQA/TwamplightSenderSessions 98
XML structure 98
Table description 99
Columns 99
NQA/TwamplightClients 100
XML structure 100
Table description 101
Columns 101
NQA/TwamplightClients/MemberIfResults 103
XML structure 103
Table description 104
Columns 104
NQA/TwamplightOneWayDelayStats 105
XML structure 105
Table description 107
Columns 107
NQA/TwamplightOneWayDelayStats/DetailStats 108
XML structure 108
Table description 108
Columns 108
NQA/TwamplightOneWayDelayStats/LinkBundleIfs 109
XML structure 109

Table description ····· 109
Columns ····· 110
NQA/TwamplightOneWayDelayStats/LinkBundleIfs/DetailStats ····· 111
XML structure ····· 111
Table description ····· 111
Columns ····· 111

NQA

NQA/Templates

This table contains information about NQA templates.

XML structure

```
<NQA>
  <Templates>
    <Template>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Frequency></Frequency>
      <ProbeTimeout></ProbeTimeout>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <NextHop></NextHop>
      <TriggerPassCount></TriggerPassCount>
      <TriggerFailCount></TriggerFailCount>
      <TriggerPerProbe></TriggerPerProbe>
      <TestDestination></TestDestination>
      <FrequencyAdjust></FrequencyAdjust>
    </Template>
  </Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • **0**—ICMP-echo. • **1**—UDP-echo. • **2**—TCP. • **3**—DLSw • **4**—FTP. • **5**—DHCP • **6**—SNMP. • **7**—DNS. • **8**—HTTP. • **9**—UDP-jitter • **10**—Voice • **11**—Path-jitter • **12**—UDP-tracert • **13**—ARP. • **14**—IMAP. • **15**—POP3. • **16**—RADIUS. • **17**—RTSP. • **18**—SIP. • **19**—SMTP. • **20**—SSL. • **21**—HTTPS. • **22**—TCP Half-open. • **23**—Throughput. • **24**—Latency. • **25**—Frame-loss. • **26**—ICMP-jitter. • **27**—SNMP-DCA. • **28**—WAP. • **29**—Y1564. • **30**—RADIUS-ACCOUNT. • **31**—TWAMP Light. • **32**—ICMP. • **33**—HTTP2. • **34**—Diameter	NQA templates are not available for the following types of operations: • DLSW. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter. • Y1564 • TWAMP Light. • ICMP.
Description	Description of the template.	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
Frequency	Interval in milliseconds at which the NQA operation	N/A	Unsigned integer. Value range: 0 to 604800000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	repeats.			
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer.	The value range for the probe timeout time varies by the **Type** column. • FTP/HTTP/HTTPS/HTTP2/SNMP-DCA/WAP: 10 to 86400000. • ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open/RADIUS-ACCOUNT: 10 to 3600000.
TTL	TTL for probe packets	N/A	Unsigned integer. Value range: 1 to 255.	The ARP operation does not support this column..
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255.	The ARP operation does not support this column.
VRF	VRF instance where the operation is performed.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
URL	URL of the destination server.	N/A	String. Length: 1 to 255 characters.	This column cannot be configured with the **DstIP** or **DstPort** column simultaneously, except for the WAP operation. Only the FTP, HTTP, HTTPS, HTTP2, RTSP, ICMP, WAP and TCP operations support this column.
DstIP	Destination IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column cannot be configured with the **URL** column simultaneously, except for the WAP operation. The FTP, HTTP, HTTPS, HTTP2 and RTSP operations do not support this column.
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	• This column and the **URL** column will not be available simultaneity. • Type ICMP-echo, ARP, FTP, HTTP, HTTPS, HTTP2 and RTSP do not support this column.
SrcIP	Source IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
SrcPort	Source port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	Only the DNS operation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHop	Next hop IP address	N/A	String. Length:1 to 46 characters.	Only the ICMP-echo, TCP, DNS and TCP half-open operations support this column.
TriggerPass Count	Number of consecutive successful probes to determine a successful operation event.	N/A	Unsigned integer. Value range: 1 to 15.	N/A
TriggerFailC ount	Number of consecutive probe failures to determine an operation failure.	N/A	Unsigned integer. Value range: 1 to 15.	N/A
TriggerPerP robe	Report the result of each probe.	N/A	Boolean: • **true**—Report for each probe. • **false**—Report according to TriggerPassCount and TriggerFailCount.	Only the ICMP-echo, DNS and TCP half-open operations support this column.
TestDestinat ion	Destination of the operation.	N/A	String. Length: 1 to 255 characters.	The value can be either of the following: • Destination IP address. • Destination IP address and port number. • Destination URL. This column is not supported currently.
FrequencyA djust	This frequency time will be adjusted to this value when the probe fails.	N/A	Unsigned integer. Value range: 0 to 604800000. Default: 0.	If the operation is not completed when the interval expires, the next operation does not start. If the value is 0, the frequency time will not be changed when the probe fails.

NQA/IcmpEchoTemplates

This table contains information about ICMP-echo templates.

XML structure

```
<NQA>
  <IcmpEchoTemplates>
    <IcmpEchoTemplate>
```

```
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
    </IcmpEchoTemplate>
  </IcmpEchoTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoTemplates
Table type	Multi-instance table
Row name	IcmpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each reques.	N/A	String. Length: 1 to 200 characters.	N/A
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
SrcIf	Full name of an interface, including the interface type and number. Source interface whose primary IP address will be used as the source IP address for the requests.	N/A	String. Length: 2 to 47 characters.	If both the source IP address and source interface are specified, the most recent configuration takes effect.
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/UdpEchoTemplates

This table contains information about UDP-echo templates.

XML structure

```
<NQA>
  <UdpEchoTemplates>
    <UdpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectFailedData>
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
        <RawFlag></RawFlag>
      </RequestDataFill>
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </ReleaseDataFill>
      <PortDetectEnable></PortDetectEnable>
    </UdpEchoTemplate>
  </UdpEchoTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoTemplates
Table type	Multi-instance table
Row name	UdpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	N/A
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	N/A
Offset	Offset in bytes after which the	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client starts to search for the expected string.			
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: • Data. • HexFlag. • RawFlag.	All the members must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
RawFlag	Whether the raw mode is used.	N/A	Boolean: • true—Raw mode. • false—General mode.	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: • Data. • HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: • true—Port detection mode is enabled. • false—Port detection mode is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			disabled (default).	

NQA/TcpTemplates

This table contains information about TCP templates.

XML structure

```
<NQA>
  <TcpTemplates>
    <TcpTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectFailedData>
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </RequestDataFill>
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </ReleaseDataFill>
      <DisconnectMode></DisconnectMode>
      </ExpectData>
    </TcpTemplate>
  </TcpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpTemplates
Table type	Multi-instance table

Row name	TcpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: • Data. • Offset. • StrictFlag. • HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	is matched by exact matching method. Enabling status of the strict offset match.		• **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: • Data. • HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: • Data. • HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
DisconnectMode	The tcp disconnection mode.	N/A	Enumeration: • **0**—RST mode. • **1**—FIN mode.	N/A

NQA/FtpTemplates

This table contains information about FTP templates.

XML structure

```
<NQA>
  <FtpTemplates>
    <FtpTemplate>
      <Name></Name>
```

```
      <Operation></Operation>
      <UserName></UserName>
      <Password></Password>
      <FileName></FileName>
      <Mode></Mode>
    </FtpTemplate>
  </FtpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	FtpTemplates
Table type	Multi-instance table
Row name	FtpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Operation	FTP operation type.	N/A	Enumeration: • **1**—Get operation. • **2**—Put operation.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 32 characters.	N/A
FileName	Name of the file to be transferred.	N/A	String. Length: 1 to 200 characters.	N/A
Mode	Data transmission mode.	N/A	Enumeration: • **0**—Active mode. • **1**—Passive mode.	N/A

NQA/SnmpTemplates

This table contains information about SNMP templates.

XML structure

```
<NQA>
  <SnmpTemplates>
    <SnmpTemplate>
      <Name></Name>
      <Community></Community>
    </SnmpTemplate>
  </SnmpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpTemplates
Table type	Multi-instance table
Row name	SnmpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	N/A

NQA/DnsTemplates

This table contains information about DNS templates.

XML structure

```
<NQA>
  <DnsTemplates>
    <DnsTemplate>
      <Name></Name>
      <ResolveTarget></ResolveTarget>
      <ResolveType></ResolveType>
      <ExpectIP></ExpectIP>
      <OutIf></OutIf>
```

```
    </DnsTemplate>
  </DnsTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	DnsTemplates
Table type	Multi-instance table
Row name	DnsTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResolveTarget	Domain name that needs to be translated.	N/A	String. Length: 1 to 255 characters.	N/A
ResolveType	Domain name resolution type.	N/A	Enumeration: • **1**—Type A query. • **28**—Type AAAA query.	N/A
ExpectIP	IPv4 or IPv6 address that is expected to be returned.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/HttpTemplates

This table contains information about HTTP, HTTPS and HTTP2 templates.

XML structure

```
<NQA>
  <HttpTemplates>
    <HttpTemplate>
      <Name></Name>
```

```
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <ExpectStatus></ExpectStatus>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
      </ExpectData>
      <SslClientPolicy></SslClientPolicy>
      <ProxyUrl></ProxyUrl>
      <ExpectFailedStatus></ExpectFailedStatus>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
      </ExpectFailedData>
      <OutIf></OutIf>
    </HttpTemplate>
  </HttpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	HttpTemplates
Table type	Multi-instance table
Row name	HttpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 32 characters.	N/A
Operation	Operation type.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Get operation. • **2**—Post operation. • **3**—Raw Operation.	
Version	Version	N/A	Enumeration: • **0**—Version1.0. • **1**—Version1.1.	HTTP2 operation do not support this column.
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: • Data. • Offset. • StrictFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
SslClientPolicy	SSL client policy used to access the HTTPS. server	N/A	String, case-insensitive. Length: 1 to 31 characters.	Only HTTPS and HTTP2 operations supports this column. By default, no SSL client policy is specified.
ProxyUrl	URL of the proxy server.	N/A	String. Length: 1 to 255 characters.	N/A
ExpectFailedStatus	List of expected failed-status codes.	N/A	Numeric string. It is a comma-separated list of failed-status items. Length: 1 to 4000 characters.	N/A
ExpectFailedData	Data expected in responses to determine a failed	Data structure	Members include: • Data. • Offset.	Both Data and Offset must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
	operation.		• StrictFlag.	
Data	Expected failed response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected failed string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/ImapTemplates

This table contains information about IMAP templates.

XML structure

```
<NQA>
  <ImapTemplates>
    <ImapTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Mailbox></Mailbox>
    </ImapTemplate>
  </ImapTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ImapTemplates
Table type	Multi-instance table
Row name	ImapTemplate

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 40 characters.	N/A
Mailbox	Mailbox name.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/Pop3Templates

This table contains information about POP3 templates.

XML structure

```
<NQA>
  <Pop3Templates>
    <Pop3Template>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
    </Pop3Template>
  </Pop3Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Pop3Templates
Table type	Multi-instance table
Row name	Pop3Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 40 characters.	N/A

NQA/RadiusTemplates

This table contains information about RADIUS and RADIUS-ACCOUNT templates.

XML structure

```
<NQA>
  <RadiusTemplates>
    <RadiusTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Key></Key>
    </RadiusTemplate>
  </RadiusTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RadiusTemplates
Table type	Multi-instance table
Row name	RadiusTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Login username.	N/A	String. Length: 1 to 253 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 64 characters.	N/A
Key	Shared key.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/RtspTemplates

This table contains information about RTSP templates.

XML structure

```
<NQA>
  <RtspTemplates>
    <RtspTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <RequestMethod></RequestMethod>
    </RtspTemplate>
  </RtspTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RtspTemplates
Table type	Multi-instance table
Row name	RtspTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 4000 characters.	
RequestMethod	Request method.	N/A	Enumeration: • **1**—Options method. **2**—Describe method.	N/A

NQA/SipTemplates

This table contains information about SIP templates.

XML structure

```
<NQA>
  <SipTemplates>
    <SipTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <TransProtocol></TransProtocol>
    </SipTemplate>
  </SipTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SipTemplates
Table type	Multi-instance table
Row name	SipTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
TransProtocol	Transport layer protocol.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **6**—TCP. • **17**—UDP.	

NQA/SslTemplates

This table contains information about SSL templates.

XML structure

```
<NQA>
  <SslTemplates>
    <SslTemplate>
      <Name></Name>
      <ClientPolicy></ClientPolicy>
    </SslTemplate>
  </SslTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SslTemplates
Table type	Multi-instance table
Row name	SslTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NQA/SnmpDcaTemplates

This table contains information about SNMP-DCA templates.

Reading of and modification to the table must follow the order of the column in the table.

XML structure

```
<NQA>
  <SnmpDcaTemplates>
    <SnmpDcaTemplate>
      <Name></Name>
      <Community></Community>
      <Version></Version>
      <AgentType></AgentType>
      <CPU>
        <Threshold></Threshold>
        <Weight></Weight>
      </CPU>
      <Memory>
        <Threshold></Threshold>
        <Weight></Weight>
      </Memory>
      <Disk>
        <Threshold></Threshold>
        <Weight></Weight>
      </Disk>
      <OID>
        <OidString></OidString>
        <Threshold></Threshold>
        <Weight></Weight>
      </OID>
    </SnmpDcaTemplate>
  </SnmpDcaTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpdcaTemplates
Table type	Multi-instance table
Row name	SnmpdcaTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	N/A
Version	SNMP version.	N/A	Enumeration: • **1**—SNMPv1. • **2**—SNMPv2c.	N/A
AgentType	SNMP agent type.	N/A	Enumeration: • **0**—Net-Snmp. • **1**—Windows. • **2**—UserDefined.	N/A
CPU	CPU usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified.
Threshold	CPU usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	CPU usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Memory	Memory usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified.
Threshold	Memory usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Memory usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Disk	Disk usage information.	Data structure	Members include: • Threshold. • Weight.	Both Threshold and Weight must be specified.
Threshold	Disk usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Disk usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
OID	OID information of the MIB object whose statistics the SNMP DCA operation collects.	Data structure	Members include: • OidString. • Threshold. • Weight.	This column can appear at most 8 times in this row. When the get, get-bulk, get-config, or get-bulk-config operation is issued, the **OID** column cannot repeat. All the members must be specified.
OidString	MIB subtree by its root node's OID.	N/A	Dotted numeric string. Length: 1 to 255 characters	Example for OID, 1.3.6.1.4.1.2021.11.11.0.
Threshold	Threshold.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 100.	
Weight	Weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NQA/WapTemplates

This table contains information about WAP templates.

XML structure

```
<NQA>
  <WapTemplates>
    <WapTemplate>
      <Name></Name>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
    </WapTemplate>
  </WapTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	WapTemplates
Table type	Multi-instance table
Row name	WapTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectData	Data expected in responses to determine a	Data structure	Members include: • Data.	Both Data and Offset must be specified.

	successful operation.		• Offset. • StrictFlag. • HexFlag.	
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A

NQA/TcpHalfOpenTemplates

This table contains information about TCP half-open templates.

XML structure

```
<NQA>
  <TcpHalfOpenTemplates>
    <TcpHalfOpenTemplate>
      <Name></Name>
      <PortDetectEnable></PortDetectEnable>
      <OutIf></OutIf>
    </TcpHalfOpenTemplate>
  </TcpHalfOpenTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpHalfOpenTemplates
Table type	Multi-instance table
Row name	TcpHalfOpenTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: • **true**—Port detection mode is enabled. • **false**—Port detection mode is disabled.	N/A
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/DiameterTemplates

This table contains information about Diameter templates.

XML structure

```
<NQA>
  <DiameterTemplates>
    <DiameterTemplate>
      <Name></Name>
      <LocalHostName></LocalHostName>
      <LocalRealmName></LocalRealmName>
      <ProductName></ProductName>
      <VendorId></VendorId>
      <AuthAppId></AuthAppId>
      <AcctAppId></AcctAppId>
      <VendorSpecificAppId>
        <VendorId></VendorId>
        <AuthAppId></AuthAppId>
        <AcctAppId></AcctAppId>
      </VendorSpecificAppId>
      <ExpectStatus></ExpectStatus>
      <SslClientPolicy></SslClientPolicy>
      <OutIf></OutIf>
    </DiameterTemplate>
  </DiameterTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	DiameterTemplates
Table type	Multi-instance table
Row name	DiameterTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
LocalHostName	Local host name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	It can include letters, digits, hyphens (-) and dots (.).
LocalRealmName	Local realm name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	It can include letters, digits, hyphens (-) and dots (.).
ProductName	Product name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
VendorId	Vendor identification number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AuthAppId	Authentication and authorization application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AcctAppId	Accounting application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
VendorSpecificAppId	Application identification number for specific vendor.	Data structure	Members include: • VendorId. • AuthAppId. • AcctAppId.	VendorId must be specified. Only one of AuthAppId and AcctAppId can be specified.
VendorId	Vendor identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AuthAppId	Authentication and authorization application	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	identification number.			
AcctAppId	Accounting application identification number.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
SslClientPolicy	SSL client policy used to access the Diameter server	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/Histories

This table contains information about the history records of NQA operations.

XML structure

```
<NQA>
  <Histories>
    <History>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <HistoryRecords>
        <Index></Index>
        <TTL></TTL>
        <Response></Response>
        <HopIP></HopIP>
        <Status></Status>
        <Time></Time>
      </HistoryRecords>
    </History>
  </Histories>
</NQA>
```

Table description

Item	Description
Feature name	NQA

Table name	Histories
Table type	Multi-instance table
Row name	History
Restrictions	This table is not available for frame loss, ICMP jitter, latency, path jitter, throughput, UDP jitter, or voice operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
HistoryRecords	N/A	Data structure	Members include: • Index. • TTL. • Response. • HopIP. • Status. • Time.	This column can appear at most 50 times in this row. The most recent operation result is displayed first.
Index	History record ID.	N/A	Unsigned integer. Value range: 1 to 4294967295.	The history records in one UDP tracert operation have the same ID.
TTL	TTL value in the probe packet.	N/A	Unsigned integer. Value range: 1 to 255.	This column is available only for the UDP tracert operation.
Response	Round-trip time for the probe packets in the operation, in milliseconds.	N/A	Unsigned integer.	N/A
HopIP	IP address of the node that sent the reply packet.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column is available only for the UDP tracert operation.
Status	Operation result status.	N/A	Enumeration: • **1**—Succeeded. • **2**—Unknown error. • **3**—Internal error. • **4**—Timeout.	N/A
Time	Time when the operation was completed.	N/A	DateTime.	Example: 2015-09-09T 14:23:24.500.

NQA/Entries

This table contains information about NQA entries.

XML structure

```
<NQA>
  <Entries>
    <Entry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <Type></Type>
      <Description></Description>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <Frequency></Frequency>
      <HistoryEnable></HistoryEnable>
      <HistoryHoldTime></HistoryHoldTime>
      <HistoryNumber></HistoryNumber>
      <NextHop></NextHop>
      <ProbeCount></ProbeCount>
      <ProbeTimeout></ProbeTimeout>
      <BypassRouteEnable></BypassRouteEnable>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <StatHoldTime></StatHoldTime>
      <StatInterval></StatInterval>
      <StatMaxGroup></StatMaxGroup>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
    </Entry>
  </Entries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • **0**—ICMP-echo • **1**—UDP-echo • **2**—TCP • **3**—DLSw • **4**—FTP • **5**—DHCP • **6**—SNMP • **7**—DNS • **8**—HTTP • **9**—UDP-jitter • **10**—VOICE • **11**—Path-jitter • **12**—UDP-tracert • **13**—ARP • **14**—IMAP • **15**—POP3 • **16**—Radius • **17**—RTSP • **18**—SIP • **19**—SMTP • **20**—SSL • **21**—HTTPS • **22**—TCP Half-open • **23**—Throughput • **24**—Latency • **25**—Frame-Loss • **26**—ICMP-jitter • **27**—SNMP-DCA • **28**—WAP • **29**—Y1564 • **30**—RADIUS-ACCOUNT • **31**—Twamp Light • **32**—ICMP • **33**—HTTP2 • **34**—Diameter	Type ICMP-echo, ICMP-jitter, ARP, HTTP, HTTP2 , UDP-echo, and UDP-jitter are supported.
Description	Entry description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DstIP	Destination IPv4 or IPv6 address	N/A	String, dotted decimal notation. Or hexadecimal string,	This column and the URL column will

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the probe packets		colon-separated. Length: 1 to 46 characters.	not be available simultaneity. The FTP, HTTP, HTTP2, HTTPS and RTSP types do not support this column.
DstPort	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	This column and the URL column will not be available simultaneously. The types of ICMP-echo, ICMP-Jitter, ARP, FTP, HTTP, HTTP2, HTTPS, ARP and RTSP do not support this column.
Frequency	Probe interval in milliseconds	N/A	Unsigned integer. Value range: 0 to 604800000.	N/A
HistoryEnable	Whether to enable the saving of history records	N/A	EnableState: • **enable**—Enable the saving of history records. • **disable**—Disable the saving of history records.	Type ICMP-echo, DHCP, DLSw, DNS, FTP, HTTP, HTTP2, SNMP, TCP, UDP-echo, ARP, and UDP-tracert are supported.
HistoryHoldTime	History records lifetime in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	N/A
HistoryNumber	Maximum number of history records that can be saved	N/A	Unsigned integer. Value range: 0 to 50.	N/A
NextHop	Next hop IPv4 or IPv6 address	N/A	String. Length: 1 to 46 characters.	Only the type ICMP-echo support this column. IPv4 example: 1.1.1.1. IPv6 example: 1:1::1:1.
ProbeCount	Probe times per operation	N/A	Unsigned integer. Value range: 1 to 15.	N/A
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer.	N/A
BypassRouteEnable	Whether to enable the routing table bypass feature to	N/A	EnableState: • **enable**—Enable the routing table bypass	The type ARP does not support this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
	test the connectivity to the direct destination		feature. • **disable**—Disable the routing table bypass feature.	
SrcIP	Source IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
SrcPort	Source port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	Type ICMP-echo, DHCP, DLSw, DNS, ICMP-jitter, Path-jitter, TCP, ARP, FTP, HTTP, HTTPS, HTTP2, ARP and RTSP do not support this column.
StatHoldTime	Statistics groups hold time in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	N/A
StatInterval	Statistics collection interval in minutes	N/A	Unsigned integer. Value range: 1 to 35791394.	N/A
StatMaxGroup	Maximum number of statistics groups	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL for probe packets	N/A	Unsigned integer. Value range: 1 to 255.	The type ARP does not support this column.
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255.	The type ARP does not support this column.
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
URL	URL of the destination server	N/A	String. Length: 1 to 255 characters.	This column and the DstIP, DstPort column will not be available simultaneity. Only the types of FTP, HTTP, HTTP2, HTTPS, ICMP-echo, UDP-jitter and RTSP support this column.

NQA/IcmpEchoEntries

This table contains information about ICMP-Echo entries.

XML structure

```
<NQA>
  <IcmpEchoEntries>
    <IcmpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
      <RethMemberProbe></RethMemberProbe>
    </IcmpEchoEntry>
  </IcmpEchoEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoEntries
Table type	Multi-instance table
Row name	IcmpEchoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
SrcIf	Full name of a source	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface, including the interface type and number		Length: 2 to 47 characters.	
OutIf	Full name of an output interface, including the interface type and number	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
RethMember Probe	Enabling status of probing on the Reth member interface	N/A	EnableState: • **enable**—Enabled. • **disable**—Disabled.	N/A

NQA/IcmpJitterEntries

This table contains information about ICMP-jitter entries.

XML structure

```
<NQA>
  <IcmpJitterEntries>
    <IcmpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <JitterMode></JitterMode>
    </IcmpJitterEntry>
  </IcmpJitterEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpJitterEntries
Table type	Multi-instance table
Row name	IcmpJitterEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000.	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000.	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
JitterMode	ICMP jitter mode	N/A	Enumeration: • **0**—ICMP timestamp(default). • **1**—ICMP echo.	Only IPv4 tests support this column.

NQA/UdpEchoEntries

This table contains information about UDP-echo entries.

XML structure

```
<NQA>
  <UdpEchoEntries>
    <UdpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
    </UdpEchoEntry>
  </UdpEchoEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA

Table name	UdpEchoEntries
Table type	Multi-instance table
Row name	UdpEchoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	N/A

NQA/UdpJitterEntries

This table contains information about UDP-jitter entries.

XML structure

```
<NQA>
  <UdpJitterEntries>
    <UdpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <OutIf></OutIf>
      <HighPerformance></HighPerformance>
      <MplsSimulation>
         <Enable></Enable>
         <Exp></Exp>
      </MplsSimulation>
    </UdpJitterEntry>
  </UdpJitterEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	UdpJitterEntries
Table type	Multi-instance table
Row name	UdpJitterEntry
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000.	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000.	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 68 to 65507.	N/A
OutIf	Output interface, including the interface type and interface number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
HighPerformance	Enabing status of the high performance mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MplsSimulation	MPLS emulation test information	Data structure	Members include: • Enable. • Exp.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of MPLS emulation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Exp	EXP value for each MPLS probe packet	N/A	Unsigned integer. Value range: 0 to 7.	N/A

NQA/HttpEntries

This table contains information about HTTP entries.

XML structure

```
<NQA>
  <HttpEntries>
    <HttpEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <OutIf></OutIf>
    </HttpEntry>
  </HttpEntries>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	HttpEntries
Table type	Multi-instance table
Row name	HttpEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 32 characters.	
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 32 characters.	By default, no login password is specified.
Operation	Operation type.	N/A	Enumeration: • **1**—Get operation (default). • **2**—Post operation. • **3**—Raw Operation.	By default, the operation type is get, which means obtaining files from the server. In the raw operation, use the raw-request command to specify the content of the HTTP request to be sent to the server.
Version	Version	N/A	Enumeration: • **0**—Version1.0 (default). • **1**—Version1.1.	HTTP2 operation do not support this column.
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	This step is required for the raw operation. By default, no contents are specified. For HTTP and HTTPS operations,the following formats are not supported: Xq/qu/qui/quitX, XquitYaaaX, Xr/re/ret/retu/retur/returnX or XreturnYaaaX(X represents 0 to n spaces, Y represents 1 to n spaces and aaa represents a character string without spaces.) As a best practice, do not configure the alias. For HTTP2 operation, must be formatted hex string.and the length of the string must be an even length 2 to 512.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/Schedules

This table contains information about NQA entry schedules.

XML structure

```
<NQA>
  <Schedules>
    <Schedule>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <StartTime>
        <StartNow></StartNow>
        <Time></Time>
      </StartTime>
      <Lifetime>
        <Forever></Forever>
        <Duration></Duration>
      </Lifetime>
      <Recurring></Recurring>
    </Schedule>
  </Schedules>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Schedules
Table type	Multi-instance table
Row name	Schedule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
StartTime	Start time	N/A	Members include: • StartNow • Time	Time will not be available when StartNow is true
StartNow	Start now	N/A	Boolean: • true • false	N/A
Time	Start time and date of an	N/A	DateTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	operation		Format: YYYY-MM-DDTHH:MM:SS.	
Lifetime	The duration of an operation	N/A	Members include: • Forever • Duration	Duration will not be available when Forever is true or when the entry is not scheduled.
Forever	Forever	N/A	Boolean: • true • false	N/A
Duration	The duration of an operation in seconds	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
Recurring	Recurring	N/A	EnableState: • **enable**—Run the operation automatically at the start time and for the specified duration. • **disable**—The operation is performed only once at the specified date and time.	N/A

NQA/ReactionTriggerFailItems

This table contains information about reaction trigger fail items.

XML structure

```
<NQA>
  <ReactionTriggerFailItems>
    <ReactionTriggerFailItem>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <Occurrences></Occurrences>
    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ReactionTriggerFailItems
Table type	Multi-instance table

Row name	ReactionTriggerFailItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
Occurrences	The maximum number of consecutive probe failures	N/A	Unsigned integer. Value range: 1 to 16.	N/A

NQA/Reactions

This table contains information about reaction items.

XML structure

```
<NQA>
  <Reactions>
    <Reaction>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <CheckedElement></CheckedElement>
      <ThresholdType>
        <Type></Type>
        <Occurrences></Occurrences>
      </ThresholdType>
      <ThresholdValue>
        <UpperLimit></UpperLimit>
        <LowerLimit></LowerLimit>
      </ThresholdValue>
      <ActionType></ActionType>
    </Reaction>
  </Reactions>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Reactions
Table type	Multi-instance table
Row name	Reaction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Monitored element	N/A	Enumeration: • **1**—probe-duration • **2**—probe-fail • **3**—rtt • **4**—packet-loss • **5**—jitter-sd • **6**—jitter-ds • **7**—icpif • **8**—mos • **9**—owd-sd • **10**—owd-ds	N/A
ThresholdType	Threshold type	Data structure	Member include: • Type • Occurrences	N/A
Type	Threshold violation type	N/A	Enumeration: • **1**—average • **2**—consecutive • **3**—accumulate	N/A
Occurrences	Maximum number of threshold violations	N/A	Unsigned integer. Value range: 1 to 15000.	N/A
ThresholdValue	Value range of threshold	Data structure	Member include: • UpperLimit • LowerLimit	N/A
UpperLimit	Upper limit of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	threshold			
LowerLimit	Lower limit of threshold	N/A	Unsigned integer.	N/A
ActionType	Action to be triggered	N/A	Enumeration: • **0**—none • **1**—trap-only • **2**—trigger-only	N/A

NQA/ClientStatus

This table contains information about NQA client enabling status.

XML structure

```
<NQA>
  <ClientStatus>
    <Enable></Enable>
  </ClientStatus>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ClientStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA client	N/A	Enabling status: • **enable**—NQA client is enabled. • **disable**—NQA client is disabled.	N/A

NQA/Results

This table contains information about NQA operation result.

XML structure

```
<NQA>
  <Results>
    <Result>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <SendTimes></SendTimes>
      <ReceiveTimes></ReceiveTimes>
      <MinRtt></MinRtt>
      <MaxRtt></MaxRtt>
      <AvgRtt></AvgRtt>
      <SquareSumRtt></SquareSumRtt>
      <LastSuccProbeTime></LastSuccProbeTime>
      <LossRatio></LossRatio>
      <TimeOut></TimeOut>
      <Disconnect></Disconnect>
      <NoConnection></NoConnection>
      <InternalError></InternalError>
      <OtherErrors></OtherErrors>
    </Result>
  </Results>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Results
Table type	Multi-instance table
Row name	Result
Restrictions	This table is not available for UDP tracert, frame loss, latency, path jitter, throughput, Y1564, UDP-jitter, ICMP-jitter and voice operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
SendTimes	Send operation	N/A	Unsigned integer.	N/A

	times			
ReceiveTimes	Receive response times	N/A	Unsigned integer.	N/A
MinRtt	Minimum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
MaxRtt	Maximum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
AvgRtt	Average round-trip time in milliseconds	N/A	Unsigned integer.	N/A
SquareSumRtt	Square sum of round-trip time	N/A	Unsigned integer.	N/A
LastSuccProbeTime	Time when the last successful probe was completed	N/A	DateTime.	Example: 2015-09-09T 14:23:24.500.
LossRatio	Packet loss ratio	N/A	Unsigned integer.	N/A
TimeOut	Number of timeout occurrences in an operation	N/A	Unsigned integer.	N/A
Disconnect	Number of disconnections by the peer	N/A	Unsigned integer.	Only the TCP, HTTP, HTTP2, HTTP2, DLSW, and FTP operations support this column.
NoConnection	Number of failures to connect to the peer	N/A	Unsigned integer	Only the TCP, HTTP, HTTP2, DLSW, and FTP operations support this column.
InternalError	Number of failures due to internal errors	N/A	Unsigned integer.	N/A
OtherErrors	Failures due to other unknown errors	N/A	Unsigned integer.	N/A

NQA/JitterResults

This table contains information about NQA jitter operation result.

XML structure

```
<NQA>
  <JitterResults>
    <JitterResult>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
```

```
<SendTimes></SendTimes>
<ReceiveTimes></ReceiveTimes>
<MinRtt></MinRtt>
<MaxRtt></MaxRtt>
<AvgRtt></AvgRtt>
<SquareSumRtt></SquareSumRtt>
<LastReceivedTime></LastReceivedTime>
<LossRatioPermillage></LossRatioPermillage>
<LossRatio></LossRatio>
<TimeOut></TimeOut>
<InternalError></InternalError>
<OtherErrors></OtherErrors>
<OutSequenceTimes></OutSequenceTimes>
<ArrivedLate></ArrivedLate>
<Jitter>
  <RttNum></RttNum>
  <MinPosSD></MinPosSD>
  <MaxPosSD></MaxPosSD>
  <PosNumSD></PosNumSD>
  <PosSumSD></PosSumSD>
  <PosAvgSD></PosAvgSD>
  <PosSquareSumSD></PosSquareSumSD>
  <MinNegSD></MinNegSD>
  <MaxNegSD></MaxNegSD>
  <NegNumSD></NegNumSD>
  <NegSumSD></NegSumSD>
  <NegAvgSD></NegAvgSD>
  <NegSquareSumSD></NegSquareSumSD>
  <AvgSD></AvgSD>
  <MinPosDS></MinPosDS>
  <MaxPosDS></MaxPosDS>
  <PosNumDS></PosNumDS>
  <PosSumDS></PosSumDS>
  <PosAvgDS></PosAvgDS>
  <PosSquareSumDS></PosSquareSumDS>
  <MinNegDS></MinNegDS>
  <MaxNegDS></MaxNegDS>
  <NegNumDS></NegNumDS>
  <NegSumDS></NegSumDS>
  <NegAvgDS></NegAvgDS>
  <NegSquareSumDS></NegSquareSumDS>
  <AvgDS></AvgDS>
</Jitter>
<OneWay>
  <MaxDelaySD></MaxDelaySD>
  <MinDelaySD></MinDelaySD>
  <NumOfDelaySD></NumOfDelaySD>
  <SumOfDelaySD></SumOfDelaySD>
```

```
        <SquareSumOfDelaySD></SquareSumOfDelaySD>
        <LostPacketSD></LostPacketSD>
        <MaxDelayDS></MaxDelayDS>
        <MinDelayDS></MinDelayDS>
        <NumOfDelayDS></NumOfDelayDS>
        <SumOfDelayDS></SumOfDelayDS>
        <SquareSumOfDelayDS></SquareSumOfDelayDS>
        <LostPacketsDS></LostPacketsDS>
        <UnknownLostPackets></UnknownLostPackets>
      </OneWay>
    </JitterResult>
  </JitterResults>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	JitterResults
Table type	Multi-instance table
Row name	JitterResult
Restrictions	This table is available for ICMP jitter or UDP jitter operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
SendTimes	Number of packets sent per probe	N/A	Unsigned integer.	N/A
ReceiveTimes	Number of responses per probe	N/A	Unsigned integer.	N/A
MinRtt	Minimum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
MaxRtt	Maximum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
AvgRtt	Average round-trip time	N/A	Unsigned integer.	N/A

	in milliseconds			
SquareSumRtt	Square sum of round-trip time	N/A	Unsigned integer.	N/A
LastReceivdTime	Last packet received time	N/A	DateTime.	Example: 2015-09-09T 14:23:24.500.
LossRatio	Packet loss ratio	N/A	Unsigned integer.	N/A
LossRatioPermillage	Number of packets lost per one thousand packets	N/A	Unsigned integer.	N/A
TimeOut	Number of timeout occurrences in an operation	N/A	Unsigned integer.	N/A
InternalError	Number of failures due to internal errors	N/A	Unsigned integer.	N/A
OtherErrors	Failures due to other errors	N/A	Unsigned integer.	N/A
OutSequence Times	Number of failures due to out-of-sequence packets	N/A	Unsigned integer.	N/A
ArrivedLate	Number of response packets received after a probe times out	N/A	Unsigned integer.	N/A
Jitter	N/A	Data structure	Members include: • RttNum. • MinPosSD • MaxPosSD • PosNumSD • PosSumSD • PosAvgSD • PosSquareSumSD • MinNegSD • MaxNegSD • NegNumSD • NegSumSD • NegAvgSD • NegSquareSumSD • AvgSD • MinPosDS • MaxPosDS • PosNumDS • PosSumDS • PosSquareSumDS • MinNegDS	N/A

			• MaxNegDS • NegNumDS • NegSumDS • NegAvgDS • NegSquareSumDS • AvgDS	
RttNum	Number of response packets received	N/A	Unsigned integer.	N/A
MinPosSD	Minimum positive jitter from source to destination	N/A	Unsigned integer.	N/A
MaxPosSD	Maximum positive jitter from source to destination	N/A	Unsigned integer.	N/A
PosNumSD	Number of positive jitters from source to destination	N/A	Unsigned integer.	N/A
PosSumSD	Sum of positive jitters from source to destination	N/A	Unsigned integer.	N/A
PosAvgSD	Average positive jitters from source to destination	N/A	Unsigned integer.	N/A
PosSquareSumSD	Square sum of positive jitters from source to destination	N/A	Unsigned integer.	N/A
MinNegSD	Minimum absolute value among negative jitters from source to destination	N/A	Unsigned integer.	N/A
MaxNegSD	Maximum absolute value among negative jitters from source to destination	N/A	Unsigned integer.	N/A
NegNumSD	Number of negative jitters from source to destination	N/A	Unsigned integer.	N/A
NegSumSD	Sum of absolute values of negative jitters from source to destination	N/A	Unsigned integer.	N/A

NegAvgSD	Average absolute value of negative jitters from source to destination	N/A	Unsigned integer.	N/A
NegSquareSumSD	Square sum of negative jitters from source to destination	N/A	Unsigned integer.	N/A
AvgSD	Average value of jitters from source to destination	N/A	Unsigned integer.	N/A
MinPosDS	Minimum positive jitter from destination to source	N/A	Unsigned integer.	N/A
MaxPosDS	Maximum positive jitter from destination to source	N/A	Unsigned integer.	N/A
PosNumDS	Number of positive jitters from destination to source	N/A	Unsigned integer.	N/A
PosSumDS	Sum of positive jitters from destination to source	N/A	Unsigned integer.	N/A
PosAvgDS	Average positive jitters from destination to source	N/A	Unsigned integer.	N/A
PosSquareSumDS	Square sum of positive jitters from destination to source	N/A	Unsigned integer.	N/A
MinNegDS	Minimum absolute value among negative jitters from destination to source	N/A	Unsigned integer.	N/A
MaxNegDS	Maximum absolute value among negative jitters from destination to	N/A	Unsigned integer.	N/A

	source			
NegNumDS	Number of negative jitters from destination to source	N/A	Unsigned integer.	N/A
NegSumDS	Sum of absolute values of negative jitters from destination to source	N/A	Unsigned integer.	N/A
NegSquareSumDS	Square sum of negative jitters from destination to source	N/A	Unsigned integer.	N/A
AvgDS	Average value of jitters from destination to source	N/A	Unsigned integer.	N/A
OneWay	N/A	Data structure	Members include: • MaxDelaySD • MinDelaySD • NumOfDelaySD • SumOfDelaySD • SquareSumofDelaySD • LostPacketSD • MaxDelayDS • MinDelayDS • NumOfDelayDS • SumOfDelayDS • SquareSumOfDelayDS • LostPacketsDS • UnknownLostPackets	N/A
MaxDelaySD	Maximum delay from source to destination	N/A	Unsigned integer.	N/A
MinDelaySD	Minimum delay from source to destination	N/A	Unsigned integer.	N/A
NumOfDelaySD	Number of delays from source to destination	N/A	Unsigned integer.	N/A
SumOfDelaySD	Sum of delays from source to destination	N/A	Unsigned integer.	N/A
SquareSumofDelaySD	Square sum of delays from source to destination	N/A	Unsigned integer.	N/A

LostPacketSD	Number of lost packets from the source to the destination	N/A	Unsigned integer.	Only the UDP-jitter operation supports this column.
MaxDelayDS	Maximum delay from destination to source	N/A	Unsigned integer.	N/A
MinDelayDS	Minimum delay from destination to source	N/A	Unsigned integer.	N/A
NumOfDelay DS	Number of delays from destination to source	N/A	Unsigned integer.	N/A
SumOfDelayD S	Sum of delays from destination to source	N/A	Unsigned integer.	N/A
SquareSumOf DelayDS	Square sum of delays from destination to source	N/A	Unsigned integer.	N/A
LostPacketsD S	Number of lost packets from the destination to the source	N/A	Unsigned integer.	Only the UDP-jitter operation support this column.
UnknownLost Packets	Number of lost packets for unknown reasons	N/A	Unsigned integer.	N/A

NQA/Statistics

This table contains information about NQA operation statistics.

XML structure

```
<NQA>
  <Statistics>
    <Statistic>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <GroupIndex></GroupIndex>
      <SendTimes></SendTimes>
      <ReceiveTimes></ReceiveTimes>
      <MinRtt></MinRtt>
      <MaxRtt></MaxRtt>
      <AvgRtt></AvgRtt>
      <SquareSumRtt></SquareSumRtt>
      <LossRatio></LossRatio>
```

```
      <TimeOut></TimeOut>
      <Disconnect></Disconnect>
      <NoConnection></NoConnection>
      <InternalError></InternalError>
      <OtherErrors></OtherErrors>
      <ReactionStatistics>
        <ReactionStatistic>
          <ReactionIndex></ReactionIndex>
          <CheckedElement></CheckedElement>
          <ThresholdType></ThresholdType>
          <CheckNum></CheckNum>
          <OverThresholdNum></OverThresholdNum>
        </ReactionStatistic>
      </ReactionStatistics>
    </Statistic>
  </Statistics>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Statistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	This table is not available for UDP tracert, frame loss, latency, path jitter, throughput, Y1564, UDP-jitter, ICMP-jitter and voice operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
GroupIndex	Index of statistics group	Index	Unsigned integer.	N/A
SendTimes	Number of times for the send operations	N/A	Unsigned integer.	N/A
ReceiveTimes	Number of times for receiving responses	N/A	Unsigned integer.	N/A
MinRtt	Minimum round-trip time in	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	milliseconds			
MaxRtt	Maximum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
AvgRtt	Average round-trip time in milliseconds	N/A	Unsigned integer.	N/A
SquareSumRtt	Sum of squares of the round-trip time	N/A	Unsigned integer.	N/A
LossRatio	Packet loss ratio	N/A	Unsigned integer.	N/A
TimeOut	Number of timeout occurrences in an operation	N/A	Unsigned integer.	N/A
Disconnect	Number of disconnections by the peer	N/A	Unsigned integer.	Only the TCP, HTTP, HTTP2, DLSW, and FTP operations support this column.
NoConnection	Number of failures to connect to the peer	N/A	Unsigned integer	Only the TCP, HTTP, HTTP2, DLSW, and FTP operations support this column.
InternalError	Number of failures due to internal errors	N/A	Unsigned integer.	N/A
OtherErrors	Failures due to other unknown errors	N/A	Unsigned integer.	N/A
ReactionStatistics	Reaction statistics	Sublist	For details of the sublist, see the ReactionStatistics table.	N/A

NQA/Statistics/ReactionStatistics

This table contains reaction statistics information.

XML structure

Please refer to the XML Structure of NQA/ Statistics

Table description

Item	Description
Feature name	NQA
Table name	ReactionStatistics
Table type	Multi-instance table

Row name	ReactionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReactionIndex	ID of a reaction entry.	Index	Unsigned integer. Value range: 1 to 10.	N/A
Checked Element	Monitored element.	N/A	Enumeration: • **1**—probe-duration • **2**—probe-fail • **3**—rtt • **4**—packet-loss • **5**—jitter-sd • **6**—jitter-ds • **7**—icpif • **8**—-mos • **9**—owd-sd • **10**—owd-ds	Support for the CheckedElement varies by NQA entry operation type. Details are as follow: • ICMP-echo/ARP: probe-duration/probe-fail • ICMP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt • UDP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt
ThresholdType	Threshold type.	N/A	Enumeration: • **1**—average • **2**—consecutive • **3**—accumulate	Support for the violation type varies by monitored element. Details are as follow: • jitter-sd/jitter-ds: average/accumulate • packet-loss: accumulate. • probe-duration: average/consecutive/accumulate. • probe-fail: consecutive/accumulate. • rtt: accumulate/average
CheckNum	Number of targets that have been monitored for data collection.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OverThreshold Num	Number of threshold violations.	N/A	Unsigned integer.	N/A

NQA/JitterStatistics

This table contains information about NQA jitter operation statistics.

XML structure

```
<NQA>
  <JitterStatistics>
    <JitterStatistic>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <GroupIndex></GroupIndex>
      <SendTimes></SendTimes>
      <ReceiveTimes></ReceiveTimes>
      <MinRtt></MinRtt>
      <MaxRtt></MaxRtt>
      <AvgRtt></AvgRtt>
      <SquareSumRtt></SquareSumRtt>
      <LossRatio></LossRatio>
      <TimeOut></TimeOut>
      <InternalError></InternalError>
      <OtherErrors></OtherErrors>
      <SequenceErrors></SequenceErrors >
      <ArrivedLateErrors></ArrivedLateErrors>
      <Jitter>
        <RttNum></RttNum>
        <MinPosSD></MinPosSD>
        <MaxPosSD></MaxPosSD>
        <PosNumSD></PosNumSD>
        <PosSumSD></PosSumSD>
        <PosAvgSD></PosAvgSD>
        <PosSquareSumSD></PosSquareSumSD>
        <MinNegSD></MinNegSD>
        <MaxNegSD></MaxNegSD>
        <NegNumSD></NegNumSD>
```

```
    <NegSumSD></NegSumSD>
    <NegAvgSD></NegAvgSD>
    <NegSquareSumSD></NegSquareSumSD>
    <AvgSD></AvgSD>
    <MinPosDS></MinPosDS>
    <MaxPosDS></MaxPosDS>
    <PosNumDS></PosNumDS>
    <PosSumDS></PosSumDS>
    <PosAvgDS></PosAvgDS>
    <PosSquareSumDS></PosSquareSumDS>
    <MinNegDS></MinNegDS>
    <MaxNegDS></MaxNegDS>
    <NegNumDS></NegNumDS>
    <NegSumDS></NegSumDS>
    <NegAvgDS></NegAvgDS>
    <NegSquareSumDS></NegSquareSumDS>
    <AvgDS></AvgDS>
  </Jitter>
  <OneWay>
    <MaxDelaySD></MaxDelaySD>
    <MinDelaySD></MinDelaySD>
    <NumOfDelaySD></NumOfDelaySD>
    <SumOfDelaySD></SumOfDelaySD>
    <SquareSumOfDelaySD></SquareSumOfDelaySD>
    <LostPacketSD></LostPacketSD>
    <MaxDelayDS></MaxDelayDS>
    <MinDelayDS></MinDelayDS>
    <NumOfDelayDS></NumOfDelayDS>
    <SumOfDelayDS></SumOfDelayDS>
    <SquareSumOfDelayDS></SquareSumOfDelayDS>
    <LostPacketsDS></LostPacketsDS>
    <UnknownLostPackets></UnknownLostPackets>
  </OneWay>
  <ReactionStatistics>
    <ReactionStatistic>
      <ReactionIndex></ReactionIndex>
      <CheckedElement></CheckedElement>
      <ThresholdType></ThresholdType>
      <CheckNum></CheckNum>
```

```
            <OverThresholdNum></OverThresholdNum>
          </ReactionStatistic>
        </ReactionStatistics>
      </JitterStatistic>
    </JitterStatistics>
  </NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	JitterStatistics
Table type	Multi-instance table
Row name	JitterStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name of NQA test team	Index	String. Length: 1 to 32 characters.	The string cannot contain hyphens (-) and is not case sensitive.
OperationTag	Label of test operation	Index	String. Length: 1 to 32 characters.	The string cannot contain hyphens (-) and is not case sensitive.
GroupIndex	Index of statistics group	Index	Unsigned integer.	N/A
SendTimes	Number of probe packets sent.	N/A	Unsigned integer.	N/A
ReceiveTimes	Number of response packets received.	N/A	Unsigned integer.	N/A
MinRtt	Minimum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
MaxRtt	maximum round-trip time in milliseconds	N/A	Unsigned integer.	N/A
AvgRtt	average round-trip time in milliseconds	N/A	Unsigned integer.	N/A
SquareSumRtt	Sum of squares of the round-trip time.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LossRatio	Average packet loss ratio.	N/A	Unsigned integer.	N/A
TimeOut	Number of timeout occurrences in an operation.	N/A	Unsigned integer.	N/A
InternalError	Number of failures due to internal errors.	N/A	Unsigned integer.	N/A
OtherErrors	Failures due to other errors.	N/A	Unsigned integer.	N/A
SequenceErrors	Failures due to Sequence errors.	N/A	Unsigned integer.	N/A
ArrivedLateErrors	Failures due to ArrivedLate errors.	N/A	Unsigned integer.	N/A
Jitter	jitter operation results	Data structure	Members include: • RttNum. • MinPosSD. • MaxPosSD • PosNumSD • PosSumSD • PosAvgSD • PosSquareSumSD • MinNegSD • MaxNegSD • NegNumSD • NegSumSD • NegAvgSD • NegSquareSumSD • AvgSD • MinPosDS • MaxPosDS • PosNumDS • PosSumDS • PosAvgDS • PosSquareSumDS • MinNegDS • MaxNegDS • NegNumDS • NegSumDS • NegAvgDS • NegSquareSumDS AvgDS	
RttNum	Number of response packets received.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MinPosSD	Minimum positive jitter from source to destination.	N/A	Unsigned integer.	N/A
MaxPosSD	Maximum positive jitter from source to destination.	N/A	Unsigned integer.	N/A
PosNumSD	Number of positive jitters from source to destination.	N/A	Unsigned integer.	N/A
PosSumSD	Sum of positive jitters from source to destination.	N/A	Unsigned integer.	N/A
PosAvgSD	Average positive jitters from source to destination.	N/A	Unsigned integer.	N/A
PosSquareSumSD	Sum of squares of positive jitters from source to destination.	N/A	Unsigned integer.	N/A
MinNegSD	Minimum absolute value among negative jitters from source to destination.	N/A	Unsigned integer.	N/A
MaxNegSD	Maximum absolute value among negative jitters from source to destination.	N/A	Unsigned integer.	N/A
NegNumSD	Number of negative jitters from source to destination.	N/A	Unsigned integer.	N/A
NegSumSD	Sum of absolute values of negative jitters from source to destination.	N/A	Unsigned integer.	N/A
NegAvgSD	Average absolute value of negative jitters from source to destination.	N/A	Unsigned integer.	N/A
NegSquareSumSD	Sum of squares of negative jitters from source to destination.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AvgSD	Average jitter from source to destination.	N/A	Unsigned integer.	N/A
MinPosDS	Minimum positive jitter from destination to source.	N/A	Unsigned integer.	N/A
MaxPosDS	Maximum positive jitter from destination to source.	N/A	Unsigned integer.	N/A
PosNumDS	Number of positive jitters from destination to source.	N/A	Unsigned integer.	N/A
PosSumDS	Sum of positive jitters from destination to source.	N/A	Unsigned integer.	N/A
PosAvgDS	Average positive jitters from destination to source.	N/A	Unsigned integer.	N/A
PosSquareSumDS	Sum of squares of positive jitters from destination to source.	N/A	Unsigned integer.	N/A
MinNegDS	Minimum absolute value among negative jitters from destination to source.	N/A	Unsigned integer.	N/A
MaxNegDS	Maximum absolute value among negative jitters from destination to source.	N/A	Unsigned integer.	N/A
NegNumDS	Number of negative jitters from destination to source.	N/A	Unsigned integer.	N/A
NegSumDS	Sum of absolute values of negative jitters from destination to source.	N/A	Unsigned integer.	N/A
NegAvgDS	Average absolute value of negative jitters from destination to source.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NegSquareSumDS	Sum of squares of negative jitters from destination to source.	N/A	Unsigned integer.	N/A
AvgDS	Average jitter from destination to source.	N/A	Unsigned integer.	N/A
OneWay	Unidirectional delay result. This field is available only for the ICMP jitter, UDP jitter, and voice operations.	Data structure	Members include: • MaxDelaySD • MinDelaySD • NumOfDelaySD • SumOfDelaySD • SquareSumOfDelaySD • LostPacketSD • MaxDelayDS • MinDelayDS • NumOfDelayDS • SumOfDelayDS • SquareSumOfDelayDS • LostPacketsDS UnknownLostPackets	N/A
MaxDelaySD	Maximum delay from source to destination.	N/A	Unsigned integer.	N/A
MinDelaySD	Minimum delay from source to destination.	N/A	Unsigned integer.	N/A
NumOfDelaySD	Number of delays from source to destination.	N/A	Unsigned integer.	N/A
SumOfDelaySD	Sum of delays from source to destination.	N/A	Unsigned integer.	N/A
SquareSumOfDelaySD	Sum of squares of delays from source to destination.	N/A	Unsigned integer.	N/A
LostPacketSD	Number of lost packets from the source to the destination.	N/A	Unsigned integer.	N/A
MaxDelayDS	Maximum delay from destination	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to source.			
MinDelayDS	Minimum delay from destination to source.	N/A	Unsigned integer.	N/A
NumOfDelayDS	Number of delays from destination to source.	N/A	Unsigned integer.	N/A
SumOfDelayDS	Sum of delays from destination to source.	N/A	Unsigned integer.	N/A
SquareSumOfDelayDS	Sum of squares of delays from destination to source.	N/A	Unsigned integer.	N/A
ReactionStatistics	Statistics about the reaction entry in the counting interval.	Sublist	The details of the sublist refer to ReactionStatistics table.	N/A

NQA/JitterStatistics/ReactionStatistics

This table contains reaction information of jitter statistics .

XML structure

Please refer to the XML Structure of NQA/ Statistics

Table description

Item	Description
Feature name	NQA
Table name	ReactionStatistics
Table type	Multi-instance table
Row name	ReactionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReactionIndex	ID of a reaction entry.	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 10.	
Checked Element	Monitored element.	N/A	Enumeration: • **1**—probe-duration • **2**—probe-fail • **3**—rtt • **4**—packet-loss • **5**—jitter-sd • **6**—jitter-ds • **7**—icpif • **8**—-mos • **9**—owd-sd • **10**—owd-ds	Support for the CheckedElement varies by NQA entry operation type. Details are as follow: • ICMP-echo/ARP: probe-duration/probe-fail • ICMP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt • UDP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt
ThresholdType	Threshold type.	N/A	Enumeration: • **1**—average • **2**—consecutive • **3**—accumulate	Support for the violation type varies by monitored element. Details are as follow: • jitter-sd/jitter-ds: average/accumulate • packet-loss: accumulate. • probe-duration: average/consecutive/accumulate. • probe-fail: consecutive/accumulate. • rtt: accumulate/average
CheckNum	Number of targets that have been monitored for data collection.	N/A	Unsigned integer.	N/A
OverThresholdNum	Number of threshold violations.	N/A	Unsigned integer.	N/A

NQA/FrameLossResults

This table contains information about NQA frame loss operation result.

XML structure

```
<NQA>
  <FrameLossResults>
    <FrameLossResult>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ResultIndex></ResultIndex>
      <InitialSpeed></InitialSpeed>
      <ProbeDuration></ProbeDuration>
      <ProbeInterval></ProbeInterval>
      <DetailResults>
        <DetailResult>
          <FrameSize></FrameSize>
          <CurrentSpeed></CurrentSpeed>
          <FrameLoss></FrameLoss>
          <Status></Status>
          <OperateTime></OperateTime>
        </DetailResult>
      </DetailResults>
    </FrameLossResult>
  </FrameLossResults>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	FrameLossResults
Table type	Multi-instance table
Row name	FrameLossResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResultIndex	Result history index	Index	Unsigned integer. Value range: 1 to 5.	The latest test results index is the maximumvlaue, and

				currently it is 5.
InitialSpeed	Initial sending speed in kbps	N/A	Unsigned integer.	N/A
ProbeDuration	Probe duration in seconds	N/A	Unsigned integer. Value range: 10 to 172800.	N/A
ProbeInterval	Probe interval in seconds	N/A	Unsigned integer. Value range: 1 to 60.	N/A
DetailResults	Detailed results	Sublist	N/A	N/A

NQA/FrameLossResults/DetailResults

This table contains detailed information about NQA frame loss operation result.

XML structure

See the XML structure of NQA/FrameLossResults.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table
Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FrameSize	Frame size	Index	Unsigned integer. Value range: 64 to 9600.	N/A
CurrentSpeed	Current speed in kbps	N/A	Unsigned integer.	N/A
FrameLoss	Frame loss ratio	N/A	String. Length: 32 characters.	N/A
Status	Operation result status.	N/A	Enumeration: • **0**—Successful. • **1**—Continue • **2**—Abort. • **3**—Timeout. • **4**—Failed.	The available values in frame loss operation are 0 and 3.

OperateTime	Time when the operation was completed.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NQA/ThroughputResults

This table contains information about NQA throughput operation result.

XML structure

```
<NQA>
  <ThroughputResults>
    <ThroughputResult>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ResultIndex></ResultIndex>
      <InitialSpeed></InitialSpeed>
      <SpeedGranularity></SpeedGranularity>
      <ProbeDuration></ProbeDuration>
      <ProbeInterval></ProbeInterval>
      <AllowedLossRatio></AllowedLossRatio>
      <DetailResults>
        <DetailResult>
          <FrameSize></FrameSize>
          <CurrentSpeed></CurrentSpeed>
          <FrameLossCnt></FrameLossCnt>
          <FrameSent></FrameSent>
          <Status></Status>
          <OperateTime></OperateTime>
        </DetailResult>
      </DetailResults>
    </ThroughputResult>
  </ThroughputResults>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ThroughputResults
Table type	Multi-instance table
Row name	ThroughputResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResultIndex	Result history result.	Index	Unsigned integer. Value range: 1 to 5.	N/A
InitialSpeed	Initial sending speed in kbps.	N/A	Unsigned integer.	N/A
SpeedGranularity	Speed granularity in Kbps.	N/A	Unsigned integer. Value range: 1 to 10000.	N/A
ProbeDuration	Probe duration in seconds.	N/A	Unsigned integer. Value range: 10 to 172800.	N/A
ProbeInterval	Probe interval in seconds.	N/A	Unsigned integer. Value range: 1 to 60.	N/A
AllowedLossRatio	The packet loss ratio allowed	N/A	String. Length: 32 characters.	N/A
DetailResults	Detailed results	Sublist	N/A	N/A

NQA/ThroughputResults/DetailResults

This table contains detailed information about NQA throughput operation result.

XML structure

See the XML structure of NQA/ThroughputsResult.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table
Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FrameSize	Frame size	Index	Unsigned integer. Value range: 64 to 9600.	N/A
CurrentSpeed	Current speed in kbps	N/A	Unsigned integer.	N/A
Status	Operation result status.	N/A	Enumeration: • **0**—Successful. • **1**—Continue • **2**—Abort. • **3**—Timeout • **4**—Failed.	The available values in frame loss operation are 0, 1, 3, and 4.
FrameLossCnt	Number of lost frames	N/A	Unsigned integer.	N/A
FrameSent	Number of sent frames	N/A	Unsigned integer.	N/A
OperateTime	Time when the operation was completed	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NQA/LatencyResults

This table contains information about NQA latency operation result.

XML structure

```
<NQA>
  <LatencyResults>
    <LatencyResult>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ResultIndex></ResultIndex>
      <InitialSpeed></InitialSpeed>
      <ProbeDuration></ProbeDuration>
      <ProbeInterval></ProbeInterval>
      <DetailResults>
        <DetailResult>
          <FrameSize></FrameSize>
          <Latency>
            <MinValue></MinValue>
            <MaxValue></MaxValue>
            <AvgValue></AvgValue>
          </Latency>
          <Jitter>
```

```
          <MinValue></MinValue>
          <MaxValue></MaxValue>
          <AvgValue></AvgValue>
        </Jitter>
        <SentPackets></SentPackets>
        <ReceivedPackets></ReceivedPackets>
        <Status></Status>
        <OperateTime></OperateTime>
      </DetailResult>
    </DetailResults>
  </LatencyResult>
 </LatencyResults>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	LatencyResults
Table type	Multi-instance table
Row name	LatencyResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResultIndex	Result history index.	Index	Unsigned integer. Value range: 1 to 5.	N/A
InitialSpeed	Initial sending speed in kbps	N/A	Unsigned integer.	N/A
ProbeDuration	Probe duration in seconds.	N/A	Unsigned integer. Value range: 10 to 172800.	N/A
ProbeInterval	Probe interval in seconds.	N/A	Unsigned integer. Value range: 1 to 60.	N/A
DetailResults	Detailed results	Sublist	N/A	N/A

NQA/LatencyResults/DetailResults

This table contains detailed information about NQA latency operation result.

XML structure

See the XML structure of NQA/LatencyResults.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table
Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FrameSize	Frame size	Index	Unsigned integer. Value range: 64 to 9600.	N/A
Latency	Frame latency in μs	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum latency value	N/A	Unsigned integer.	N/A
MaxValue	Maximum latency value	N/A	Unsigned integer.	N/A
AvgValue	Average latency value	N/A	Unsigned integer.	N/A
Jitter	Frame jitter in ns	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum jitter value	N/A	Unsigned integer.	N/A
MaxValue	Maximum jitter value	N/A	Unsigned integer.	N/A
AvgValue	Average jitter value	N/A	Unsigned integer.	N/A
SentPackets	Number of sent packets	N/A	Unsigned integer. Length:64bits	N/A

ReceivedPackets	Number of received packets	N/A	Unsigned integer. Length:64bits	N/A
Status	Operation result status	N/A	Enumeration: • **0**—Successful. • **1**—Continue • **2**—Abort. • **3**—Timeout • **4**—Failed.	The available values in latency operation are 0 and 3.
OperateTime	Time when the operation was completed	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NQA/Y1564Results

This table contains information about NQA Y1564 operation result.

XML structure

```
<NQA>
  <Y1564Results>
    <Y1564Result>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ResultIndex></ResultIndex>
      <Status></Status>
      <LastCompletedTest></LastCompletedTest>
      <EstimatedTotalTime></EstimatedTotalTime>
      <ActualTestTimeUsed></ActualTestTimeUsed>
      <DetailResults>
        <DetailResult>
          <TestType></TestType>
          <Index></Index>
          <StartTime></StartTime>
          <EndTime></EndTime>
          <SendSpeed></SendSpeed>
          <Status></Status>
          <IR>
            <MinValue></MinValue>
            <MaxValue></MaxValue>
            <AvgValue></AvgValue>
          </IR>
          <FTD>
            <MinValue></MinValue>
            <MaxValue></MaxValue>
            <AvgValue></AvgValue>
          </FTD>
          <FDV>
```

```
          <MinValue></MinValue>
          <MaxValue></MaxValue>
          <AvgValue></AvgValue>
        </FDV>
        <FLcount></FLcount>
        <FLR></FLR>
        <PacketsOutOfOrder></PacketsOutOfOrder>
        <SeverelyErrSecs></SeverelyErrSecs>
        <AVAIL></AVAIL>
      </DetailResult>
    </DetailResults>
  </Y1564Result>
 </Y1564Results>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Y1564Results
Table type	Multi-instance table
Row name	Y1564Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResultIndex	Result history index.	Index	Unsigned integer. Value range: 1.	Currently only the last probe is saved, so the ResultIndex is always 1.
Status	Global status of the current test	N/A	Enumeration: • **0**—Succeeded • **1**—In progress • **2**—Aborted • **3**—Timeout • **4—Failed** • **5—None** • **6—Unknown error**	The value 5 of **Status** is inaccessible.
LastCompletedTest	Last complete test type	N/A	Enumeration: • **0**—CIR test.	If test **status** is in progress, this column will not access.

			• **1**—PIR test. • **2**—Traffic policing test. • **3**—Service performance test.	
EstimatedTotalTime	Estimated total time of the whole test	N/A	Unsigned integer Unit:second	N/A
ActualTestTimeUsed	Actual test time used	N/A	Unsigned integer Unit:second	If test **status** is in progress, the value is for reference only.
DetailResults	Detailed results	Sublist	N/A	N/A

NQA/Y1564Results/DetailResults

This table contains detailed information about NQA Y1564 operation result.

XML structure

See the XML structure of NQA/Y1564Results.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table
Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TestType	Type of single test phase	Index	Enumeration: • **0**—CIR • **1**—PIRColorBlind • **2**—PIRColorGreen • **3**—PIRColorYellow • **4**—PIRColorSummary • **5**—TrafficColorBlind • **6**—TrafficColorGreen • **7**—TrafficColorYellow • **8**—TrafficColorSummar	N/A

			y • **9**—ServicePerformance	
Index	Step index of **TestType**	Index	Unsigned integer.	The index is only valid in CIR test.
StartTime	Start time of single test phase	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time single test phase	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
SendSpeed	Current send packet speed.	N/A	Unsigned integer.Unit: Kbps	It is not supported in **PIR Summary** and **Traffic Summary**.
Status	Status of single test phase	N/A	Enumeration: • **0**—Succeeded • **1**—In progress • **2**—Aborted • **3**—Timeout • **4**—Failed • **5**—None • **6**—Unknown error	The **Status** of **TestType** 3, 4, 7 is meaningless, so the **Status** value will be 5.
IR	Information rate	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer. Unit:kbps	N/A
MaxValue	Maxmum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
FTD	Frame transmission delay	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer. Unit:us	N/A
MaxValue	Maxmum value	N/A	Unsigned integer. Unit:us	N/A
AvgValue	Average value	N/A	Unsigned integer. Unit:us	N/A
FDV	Frame delay vibrate	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer. Unit:us	N/A

MaxValue	Maxmum value	N/A	Unsigned integer. Unit:us	N/A
AvgValue	Average value	N/A	Unsigned integer. Unit:us	N/A
FLcount	Frame loss count	N/A	Unsigned integer.	N/A
FLR	Frame loss rate	N/A	String. Length: 15 characters	N/A
PacketsOutOf Order	Packets out of order count	N/A	Unsigned integer.	N/A
SeverelyErrS ecs	Severely errored second	N/A	Unsigned integer.	N/A
AVAIL	The ratio of available time to total time.	N/A	String. Length: 15 characters	N/A

NQA/TwamplightLossStats

This table contains information about NQA TWAMP Light operation loss statistics.

XML structure

```
<NQA>
  <TwamplightLossStats>
    <TwamplightLossStat>
      <Session></Session>
      <SumLossCount>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
        <LossCount></LossCount>
        <SendCount></SendCount>
      </SumLossCount>
      <SumLossRatio>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SumLossRatio>
      <SumErrorCount>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SumErrorCount>
      <SumErrorRatio>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
```

```
  <AvgValue></AvgValue>
</SumErrorRatio>
<DetailStats>
  <DetailStat>
    <Index></Index>
    <LossCount></LossCount>
    <LossRatio></LossRatio>
    <ErrorCount></ErrorCount>
    <ErrorRatio></ErrorRatio>
    <SendCount></SendCount>
  </DetailStat>
</DetailStats>
<LinkBundleIfs>
  <LinkBundleIf>
  <MemberIf></MemberIf>
  <SumLossCount>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
    <LossCount></LossCount>
    <SendCount></SendCount>
  </SumLossCount>
  <SumLossRatio>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
  </SumLossRatio>
  <SumErrorCount>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
  </SumErrorCount>
  <SumErrorRatio>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
  </SumErrorRatio>
    <DetailStats>
      <DetailStat>
        <Index></Index>
        <LossCount></LossCount>
        <LossRatio></LossRatio>
        <ErrorCount></ErrorCount>
        <ErrorRatio></ErrorRatio>
        <SendCount></SendCount>
      </DetailStat>
    </DetailStats>
      </LinkBundleIf>
```

```
        </LinkBundleIfs>
    </TwamplightLossStat>
  </TwamplightLossStats>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightLossStats
Table type	Multi-instance table
Row name	TwamplightLossStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Session	Session index	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is defined.
SumLossCount	Summary of frame loss count	Data structure	Members include: • MinValue. • MaxValue. • AvgValue • LossCount • SendCount	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
LossCount	Number of lost packets in last 30 counting periods	N/A	Unsigned integer.	N/A
SendCount	Number of packets sent in last 30 counting periods	N/A	Unsigned integer.	N/A
SumLossRatio	Summary of frame loss ratio	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	String. Length: 15 characters	N/A

MaxValue	Maximum value	N/A	String. Length: 15 characters	N/A
AvgValue	Average value	N/A	String. Length: 15 characters	N/A
SumErrorCount	Summary of error frame count	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SumErrorRatio	Summary of error frame ratio	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	String. Length: 10 characters	N/A
MaxValue	Maximum value	N/A	String. Length: 10 characters	N/A
AvgValue	Average value	N/A	String. Length: 10 characters	N/A
DetailStats	Statistics details	SubLists	N/A	N/A
LinkBundleIfs	Statistics details of member interface	SubLists	N/A	N/A

NQA/TwamplightLossStats/DetailStats

This table contains detailed information about NQA TWAMP Light operation result.

XML structure

See the XML structure of NQA/TwamplightLossStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table

Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
LossCount	Frame loss count	N/A	Unsigned integer.	N/A
LossRatio	Frame loss ratio	N/A	String. Length: 15 characters.	N/A
ErrorCount	Frame error count	N/A	Unsigned integer.	N/A
ErrorRatio	Frame error ratio	N/A	String. Length: 15 characters.	N/A
SendCount	Summary of sent frames	N/A	Unsigned integer.	Summary of sent frames in a counting period.

NQA/TwamplightLossStats/LinkBundleIfs

This table contains detailed information about NQA TWAMP Light operation member interface result.

XML structure

See the XML structure of NQA/TwamplightLossStats.

Table description

Item	Description
Feature name	NQA
Table name	LinkBundleIfs
Table type	Multi-instance table
Row name	LinkBundle
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberIf	Specify a member interface by its type and number.	Index	String, case-insensitive. Length: 2 to 47 characters.	N/A
SumLossCount	Summary of frame loss count	Data structure	Members include: • MinValue. • MaxValue. • AvgValue • LossCount • SendCount	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
LossCount	Number of lost packets in last 30 counting periods	N/A	Unsigned integer.	N/A
SendCount	Number of packets sent in last 30 counting periods	N/A	Unsigned integer.	N/A
SumLossRatio	Summary of frame loss ratio	Data structure	Members include: • MinValue. • MaxValue • AvgValue	N/A
MinValue	Minimum value	N/A	String. Length: 15 characters	N/A
MaxValue	Maximum value	N/A	String. Length: 15 characters	N/A
AvgValue	Average value	N/A	String. Length: 15 characters	N/A
SumErrorCount	Summary of error frame count	Data structure	Members include: • MinValue. • MaxValue • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SumErrorRatio	Summary of error frame ratio	Data structure	Members include: • MinValue.	N/A

			• MaxValue • AvgValue	
MinValue	Minimum value	N/A	String. Length: 10 characters	N/A
MaxValue	Maximum value	N/A	String. Length: 10 characters	N/A
AvgValue	Average value	N/A	String. Length: 10 characters	N/A
DetailStats	Statistics details	SubLists	N/A	N/A

NQA/TwamplightLossStats/LinkBundleIfs/DetailStats

This table contains detailed information about NQA TWAMP Light operation result.

XML structure

See the XML structure of NQA/TwamplightLossStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailResults
Table type	Multi-instance table
Row name	DetailResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
LossCount	Frame loss count	N/A	Unsigned integer.	N/A
LossRatio	Frame loss ratio	N/A	String. Length: 15 characters.	N/A
ErrorCount	Frame error count	N/A	Unsigned integer.	N/A

ErrorRatio	Frame error ratio	N/A	String. Length: 15 characters.	N/A
SendCount	Summary of sent frames	N/A	Unsigned integer.	Summary of sent frames in a counting period.

NQA/TwamplightDelayStats

This table contains information about NQA TWAMP Light operation delay statistics.

XML structure

```
<NQA>
  <TwamplightDelayStats>
    <TwamplightDelayStat>
      <Session></Session>
      <AverageDelay>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </AverageDelay>
      <AverageJitter>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </AverageJitter>
      <SDJitter>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SDJitter>
      <DSJitter >
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </DSJitter>
      <DetailStats>
        <DetailStat>
          <Index></Index>
          <Delay></Delay>
          <MinDelay></MinDelay>
          <MaxDelay></MaxDelay>
          <Jitter></Jitter>
          <MinJitter></MinJitter>
          <MaxJitter></MaxJitter>
          <SDJitter></SDJitter>
          <MinSDJitter></MinSDJitter>
          <MaxSDJitter></MaxSDJitter>
```

```
      <DSJitter></DSJitter>
      <MinDSJitter></MinDSJitter>
      <MaxDSJitter></MaxDSJitter>
    </DetailStat>
  </DetailStats>
  <LinkBundleIfs>
    <LinkBundleIf>
    <MemberIf></MemberIf>
    <AverageDelay>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
    </AverageDelay>
    <AverageJitter>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
    </AverageJitter>
    <SDJitter>
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
    </SDJitter>
    <DSJitter >
    <MinValue></MinValue>
    <MaxValue></MaxValue>
    <AvgValue></AvgValue>
    </DSJitter>
    <DetailStats>
      <DetailStat>
        <Index></Index>
        <Delay></Delay>
        <MinDelay></MinDelay>
        <MaxDelay></MaxDelay>
        <Jitter></Jitter>
        <MinJitter></MinJitter>
        <MaxJitter></MaxJitter>
        <SDJitter></SDJitter>
        <MinSDJitter></MinSDJitter>
        <MaxSDJitter></MaxSDJitter>
        <DSJitter></DSJitter>
        <MinDSJitter></MinDSJitter>
        <MaxDSJitter></MaxDSJitter>
      </DetailStat>
    </DetailStats>
  </LinkBundleIf>
</LinkBundleIfs>
</TwamplightDelayStat>
```

```
  </TwamplightDelayStats>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightStats
Table type	Multi-instance table
Row name	TwamplightStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Session	TWAMP-light session ID	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is defined.
AverageDelay	Average delay	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
AverageJitter	Average jitter	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to	Data structure	Members include: • MinValue.	N/A

	source		• MaxValue. • AvgValue	
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DetailStats	Details of frame delay statistics	SubLists	N/A	N/A
LinkBundleIfs	Details of member interface statistics	SubLists	N/A	N/A

NQA/TwamplightDelayStats/DetailStats

This table contains detailed information about NQA TWAMP Light operation delay result.

XML structure

See the XML structure of NQA/TwamplightDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailStats
Table type	Multi-instance table
Row name	DetailStats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
Delay	Average delay	N/A	Unsigned integer.	N/A
MinDelay	Minimum delay	N/A	Unsigned integer.	N/A
MaxDelay	Maximum delay	N/A	Unsigned integer.	N/A
Jitter	Average jitter	N/A	Unsigned integer.	N/A
MinJitter	Minimum jitter	N/A	Unsigned integer.	N/A

MaxJitter	Maximum jitter	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	N/A	Unsigned integer.	N/A
MinSDJitter	Minimum jitter from source to destination	N/A	Unsigned integer.	N/A
MaxSDJitter	Maximum jitter from source to destination	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	N/A	Unsigned integer.	N/A
MinDSJitter	Minimum jitter from destination to source	N/A	Unsigned integer.	N/A
MaxDSJitter	Maximum jitter from destination to source	N/A	Unsigned integer.	N/A

NQA/TwamplightDelayStats/LinkBundleIfs

This table contains detailed information about NQA TWAMP Light operation delay result.

XML structure

See the XML structure of NQA/TwamplightDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	LinkBundleIfs
Table type	Multi-instance table
Row name	LinkBundle
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberIf	Specify a member interface by its	Index	String, case-insensitive. Length: 2 to 47 characters.	N/A

	type and number.			
AverageDelay	Average delay	Data structure	Members include: • MinValue. • MaxValue. • AvgValue.	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
AverageJitter	Average jitter	Data structure	Members include: • MinValue. • MaxValue. • AvgValue.	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue.	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	Data structure	Members include: • MinValue. • MaxValue. • AvgValue.	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DetailStats	Details of frame delay statistics	SubLists	N/A	N/A

NQA/TwamplightDelayStats/LinkBundleIfs/DetailStats

This table contains detailed information about NQA TWAMP Light operation delay result.

XML structure

See the XML structure of NQA/TwamplightDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailStats
Table type	Multi-instance table
Row name	DetailStats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
Delay	Average delay	N/A	Unsigned integer.	N/A
MinDelay	Minimum delay	N/A	Unsigned integer.	N/A
MaxDelay	Maximum delay	N/A	Unsigned integer.	N/A
Jitter	Average jitter	N/A	Unsigned integer.	N/A
MinJitter	Minimum jitter	N/A	Unsigned integer.	N/A
MaxJitter	Maximum jitter	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	N/A	Unsigned integer.	N/A
MinSDJitter	Minimum jitter from source to destination	N/A	Unsigned integer.	N/A
MaxSDJitter	Maximum jitter from source to destination	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	N/A	Unsigned integer.	N/A
MinDSJitter	Minimum jitter from destination to source	N/A	Unsigned integer.	N/A

MaxDSJitter	Maximum jitter from destination to source	N/A	Unsigned integer.	N/A

NQA/TwamplightClientEnable

This table contains information about TWAMP Light client enabling status.

XML structure

```
<NQA>
  <TwamplightClientEnable>
  <ClientEnable></ClientEnable>
  </TwamplightClientEnable>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightClientEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientEnable	Enabling status of the TWAMP Light client	N/A	Enabling status: • **enable**— TWAMP Light client is enabled. • **disable**— TWAMP Light client is disabled.	By default, the NQA TWAMP Light client is disabled.

NQA/TwamplightClientSessions

This table contains information about TWAMP Light client sessions.

XML structure

```
<NQA>
  <TwamplightClientSessions>
```

```
    <TwamplightClientSession>
      <SessionID></SessionID>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPortNumber></SrcPortNumber>
      <DstPortNumber></DstPortNumber>
      <VRF></VRF>
      <DscpValue></DscpValue>
      <Description></Description>
      <PaddingLength></PaddingLength>
      <DataFill>
       <Data></Data>
       <HexFlag></HexFlag>
      </DataFill>
      <SrcInterface></SrcInterface>
      <ServiceID></ServiceID>
      <DesMacAddress></DesMacAddress>
      <SrcMacAddress></SrcMacAddress>
      <TimestampFormat></TimestampFormat>
      <VLANID>
        <Service></Service>
        <Customer></Customer>
      </VLANID>
      <Priority8021p></Priority8021p>
      <ReactionEntries>
        <ReactionEntry>
          <ItemNumber></ItemNumber>
          <CheckedElement></CheckedElement>
          <ThresholdValue>
            <UpperLimit></UpperLimit>
            <LowerLimit></LowerLimit>
          </ThresholdValue>
          <ActionType></ActionType>
        </ReactionEntry>
      </ReactionEntries>
      <BindInterface></BindInterface>
      <AdjustChecksum></AdjustChecksum>
      <LinkBundleIf></LinkBundleIf>
      <OneWayDelayMeasure></OneWayDelayMeasure>
    </TwamplightClientSession>
  </TwamplightClientSessions>
</NQA>
```

Table description

Item	Description
Feature name	NQA

Table name	TwamplightClientSessions
Table type	Multi-instance table
Row name	TwamplightClientSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
SrcIpAddress	Source IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
DstIpAddress	Destination IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no destination address is specified.
SrcPortNumber	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DstPortNumber	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 1 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
DscpValue	Dscp value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Description	Session description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
PaddingLength	Payload size	N/A	Unsigned integer. Value range: 44 to 1518.	N/A
DataFill	Packet payload fill string for probe packets	Data structure	Members include: • Data. • HexFlag.	By default, no expected data is specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Both Data and HexFlag must be specified.
Data	Packet payload fill string	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string	N/A	Boolean: • **true**—The data is a hexadecimal string. • **false**—The data is a general string.	N/A
SrcInterface	Source interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified source interface must be up.
ServiceID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
DesMacAddress	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMacAddress	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Timestamp Format	Timestamp format of packets	N/A	Enumeration: • 1—NTP format • 2—PTP format	N/A
VLANID	VLAN ID	Data structure	Members include: • Service. • Customer.	N/A
Service	Service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Customer	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The server VLAN must be specified first before the customer VLAN.
Priority8021p	Priority of the packet	N/A	Unsigned integer. Value range: 0 to 7.	N/A
ReactionEntries	Reaction entry statistics	SubLists	N/A	N/A
BindInterface	Specify an interface by its type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
AdjustChecksum	Enabing status of the adjust UDP checksum mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LinkBundleIf	Specify an bundle interface by its	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	type and number.		Length: 2 to 47 characters.	
OneWayDelayMeasure	Enabing status of the One Way Delay-Measure mode	N/A	Boolean: • **true**—Enabled. **false—**Disabled.	N/A

NQA/TwamplightClientSessions/ReactionEntries

This table contains information about TWAMP Light client sessions.

XML structure

See the XML structure of NQA/TwamplightClientSessions

Table description

Item	Description
Feature name	NQA
Table name	ReactionEntries
Table type	Multi-instance table
Row name	ReactionEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Checked element	N/A	Enumeration: • **1**—Two-way-delay • **2**—Two-way-jitter • **3**—Two-way-loss	N/A
ThresholdValue	Value range of threshold	Data structure	Member include: • UpperLimit • LowerLimit	N/A
UpperLimit	Upper limit of threshold	N/A	Unsigned integer. Value range: 2 to 1000000.	N/A
LowerLimit	Lower limit of threshold	N/A	Unsigned integer. Value range: 1 to 999999.	N/A

ActionType	Action to be triggered	N/A	Enumeration: • **0**—None • **1**—Trap-only	N/A

NQA/TwamplightSenderEnable

This table contains information about TWAMP Light sender enabling status.

XML structure

```
<NQA>
  <TwamplightSenderEnable>
    <SenderEnable></SenderEnable>
  </TwamplightSenderEnable>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SenderEnable	Enabling status of the TWAMP Light sender	N/A	Enabling status: • **enable**— TWAMP Light sender is enabled. • **disable**— TWAMP Light sender is disabled.	By default, the NQA TWAMP Light sender is disabled.

NQA/TwamplightSenderSessions

This table contains information about TWAMP Light sender sessions.

XML structure

```
<NQA>
  <TwamplightSenderSessions>
```

```
    <TwamplightSenderSession>
      <SessionID></SessionID>
      <Timeout></Timeout>
      <TxInterval></TxInterval>
      <StatisticsInterval></StatisticsInterval>
      <MonitorTime></MonitorTime>
    </TwamplightSenderSession>
  </TwamplightSenderSessions>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightSenderSessions
Table type	Multi-instance table
Row name	TwamplightSenderSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
TxInterval	Interval at which probe packets are sent	N/A	Enumeration: • **10**—10 milliseconds. • **100**—100 milliseconds. • **1000**—1000 milliseconds. • **10000**—10000 milliseconds. • **30000**—30000 milliseconds.	N/A
Timeout	Timeout time for reponse packets in seconds	N/A	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
StatisticsInterval	Statistics collection interval in milliseconds	N/A	Unsigned integer. Value range: 1000 to 6000000.	This parameter supports customization.
MonitorTime	Reaction entry threshold violation monitor time in	N/A	Unsigned integer. Value range: 1000 to 86400000.	This parameter depend on StatisticsInterval.

Column name	Column description	Column type	Data type and restrictions	Remarks
	milliseconds			

NQA/TwamplightClients

This table contains information about NQA TWAMP Light client configuration.

XML structure

```
<NQA>
  <TwamplightClients>
    <TwamplightClient>
      <SessionID></SessionID>
      <Status></Status>
      <SessionType></SessionType>
      <SrcInterface></SrcInterface>
      <ServiceInstance></ServiceInstance>
      <SrcIpAddress></SrcIpAddress>
      <DesIpAddress></DesIpAddress>
      <SrcPortNumber></SrcPortNumber>
      <DesPortNumber></DesPortNumber>
      <SrcMacAddress></SrcMacAddress>
      <DesMacAddress></DesMacAddress>
      <VLANID></VLANID>
      <ServiceVLANID></ServiceVLANID>
      <CustomerVLANID></CustomerVLANID>
      <ToS></ToS>
      <Priority8021p></Priority8021p>
      <PaddingLength></PaddingLength>
      <TimeStampFormat></TimeStampFormat>
      <VRF></VRF>
      <LastStartTimeStamp></LastStartTimeStamp>
      <LastStopTimeStamp></LastStopTimeStamp>
      <PacketInterval></PacketInterval>
      <Timeout></Timeout>
      <Duration></Duration>
      <PacketsSentCnt></PacketsSentCnt>
      <StatisticsInterval></StatisticsInterval>
      <MonitorTime></MonitorTime>
      <DelayMonitorTime></DelayMonitorTime>
      <JitterMonitorTime></JitterMonitorTime>
      <LossMonitorTime></LossMonitorTime>
      <Description></Description>
      <AdjustChecksum></AdjustChecksum>
      <OneWayDelayMeasure></OneWayDelayMeasure>
      <MemberIfResults>
        <MemberIfResult>
```

```
        <MemberIf></MemberIf>
        <Status></Status>
        <LastStartTimeStamp></LastStartTimeStamp>
        <LastStopTimeStamp></LastStopTimeStamp>
        <AdjustChecksum></AdjustChecksum>
        <OneWayDelayMeasure></OneWayDelayMeasure>
      </MemberIfResult>
     </MemberIfResults>        </TwamplightClient>
  </TwamplightClients>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightClients
Table type	Multi-instance table
Row name	TwamplightClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	Session ID	Index	Unsigned integer. Value range: 1 to 512.	N/A
Status	Session status	N/A	Enumeration: • **0**—Inactive. • **1—**Active.	N/A
SessionType	Session type	N/A	Enumeration: • **0**—Invalid. • **1**—Permanent. • **2—**Ondemand.	N/A
SrcInterface	Full name of an interface, including the interface type and number. Source interface whose primary IP address will be used as the source IP address for the requests	N/A	String. Length: 2 to 47 characters.	By default, no source IP address is specified. If both the source IP address and source interface are specified, the most recent configuration takes effect.
ServiceInstance	Service instance	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
SrcIpAddress	Source IPv4 or IPv6	N/A	String, dotted decimal	N/A

	address for the probe packets		notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	
DesIpAddress	Destination IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no destination address is specified.
SrcPortNumber	Source port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DesPortNumber	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SrcMacAddress	Source MAC address of the probe packets	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DesMacAddress	Destination MAC address of the probe packets	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ServiceVLANID	Service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CustomerVLANID	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A
PaddingLength	Payload size in each request	N/A	Unsigned integer. Value range: 44 to 1518.	N/A
TimeStampFormat	Timestamp format of packets	N/A	Enumeration: • **1**—NTP format • **2**—PTP format	N/A
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 1 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
LastStartTimeStamp	Time when last probe started	N/A	Examples: 2018-08-05T16:41:05.900	By default, the value is Never.
LastStopTimeStamp	Time when last probe stopped	N/A	Examples: 2018-08-05T16:41:05.900	By default, the value is Never.
PacketInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10, 100, 1000, 30000.	N/A

Timeout	Packet timeout in seconds	N/A	Unsigned integer. Value range: 1 to 10.	N/A
Duration	Duration time of the probe in seconds	N/A	Unsigned integer. Value range: 60 to 300.	N/A
PacketsSentCnt	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 100 to 30000.	N/A
StatisticsInterval	Statistics counting interval	N/A	The value is a multiple of 10 milliseconds	N/A
MonitorTime	Moniter time of the packet in milliseconds	N/A	The value is a multiple of the statistics time.	N/A
DelayMonitorTime	Moniter time of the packet's delay information, in milliseconds	N/A	The is a multiple of the statistics time.	N/A
JitterMonitorTime	Moniter time of the packet's jitter information, in milliseconds	N/A	The is a multiple of the statistics time.	N/A
LossMonitorTime	Moniter time of the packet's loss rate information, in milliseconds	N/A	The is a multiple of the statistics time.	N/A
Description	Description of the TWAMP Light template	N/A	String, case-sensitive. Length: 1 to 200 characters.	By default, no description is specified for a TWAMP Light template.
Priority8021p	Priority of the packet	N/A	Unsigned integer. Value range: 0 to 7.	N/A
AdjustChecksum	Enabing status of the adjust UDP checksum mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
OneWayDelayMeasure	Enabing status of the One Way Delay-Measure mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MemberIfResults	Result of member interfaces	SubLists	N/A	N/A

NQA/TwamplightClients/MemberIfResults

This table contains information about NQA TWAMP Light client configuration.

XML structure

```
<NQA>
  <MemberIfResults>
    <MemberIfResult>
```

```
      <MemberIf></MemberIf>
      <Status></Status>
      <LastStartTimeStamp></LastStartTimeStamp>
      <LastStopTimeStamp></LastStopTimeStamp>
      <AdjustChecksum></AdjustChecksum>
      <OneWayDelayMeasure></OneWayDelayMeasure>
     </MemberIfResult>
   </MemberIfResults>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	MemberIfResults
Table type	Multi-instance table
Row name	MemberIfResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberIf	Specify an member interface by its type and number.	Index	String. Length: 2 to 47 characters.	N/A
Status	Session status	N/A	Enumeration: • **0**—Inactive. • **1**—Active.	N/A
LastStartTimeStamp	Time when last probe started	N/A	Example: 2018-08-05T16:41:05.900	By default, the value is Never.
LastStopTimeStamp	Time when last probe stopped	N/A	Example: 2018-08-05T16:41:05.900	By default, the value is Never.
AdjustChecksum	Enabing status of the adjust UDP checksum mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
OneWayDelayMeasure	Enabing status of the One Way Delay-Measure mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

NQA/TwamplightOneWayDelayStats

This table contains information about NQA TWAMP Light operation one-way delay statistics.

XML structure

```
<NQA>
  <TwamplightOneWayDelayStats>
    <TwamplightOneWayDelayStat>
      <Session></Session>
      <SDDelay>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SDDelay>
      <DSDelay>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </DSDelay>
      <SDJitter>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SDJitter>
      <DSJitter >
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </DSJitter>
      <DetailStats>
        <DetailStat>
          <Index></Index>
          <SDDelay></SDDelay>
          <MinSDDelay></MinSDDelay>
          <MaxSDDelay></MaxSDDelay>
          <DSDelay></DSDelay>
          <MinDSDelay></MinDSDelay>
          <MaxDSDelay></MaxDSDelay>
          <SDJitter></SDJitter>
          <MinSDJitter></MinSDJitter>
          <MaxSDJitter></MaxSDJitter>
          <DSJitter></DSJitter>
          <MinDSJitter></MinDSJitter>
          <MaxDSJitter></MaxDSJitter>
        </DetailStat>
      </DetailStats>
      <LinkBundleIfs>
```

```
        <LinkBundleIf>
        <MemberIf></MemberIf>
      <SDDelay>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SDDelay>
      <DSDelay>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </DSDelay>
      <SDJitter>
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </SDJitter>
      <DSJitter >
        <MinValue></MinValue>
        <MaxValue></MaxValue>
        <AvgValue></AvgValue>
      </DSJitter>
      <DetailStats>
        <DetailStat>
          <Index></Index>
          <SDDelay></SDDelay>
          <MinSDDelay></MinSDDelay>
          <MaxSDDelay></MaxSDDelay>
          <DSDelay></DSDelay>
          <MinDSDelay></MinDSDelay>
          <MaxDSDelay></MaxDSDelay>
          <SDJitter></SDJitter>
          <MinSDJitter></MinSDJitter>
          <MaxSDJitter></MaxSDJitter>
          <DSJitter></DSJitter>
          <MinDSJitter></MinDSJitter>
          <MaxDSJitter></MaxDSJitter>
        </DetailStat>
      </DetailStats>
      </LinkBundleIf>
    </LinkBundleIfs>
    </TwamplightOneWayDelayStat>
  </TwamplightOneWayDelayStats>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TwamplightOneWayDelayStats
Table type	Multi-instance table
Row name	TwamplightOneWayDelayStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Session	TWAMP-light session ID	Index	Unsigned integer. MinValue: 1	This parameter supports customization, so only the minimum value is defined.
SDDelay	Average delay from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSDelay	Average delay from destination to source	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A

MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DetailStats	Details of frame one-way delay statistics	SubLists	N/A	N/A
LinkBundleIfs	Details of member interface statistics	SubLists	N/A	N/A

NQA/TwamplightOneWayDelayStats/DetailStats

This table contains detailed information about NQA TWAMP Light operation one-way delay result.

XML structure

See the XML structure of NQA/TwamplightOneWayDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailStats
Table type	Multi-instance table
Row name	DetailStats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
SDDelay	Average delay from source to destination	N/A	Unsigned integer.	N/A
MinSDDelay	Minimum delay from source to destination	N/A	Unsigned integer.	N/A
MaxSDDelay	Maximum delay from source to destination	N/A	Unsigned integer.	N/A

DSDelay	Average delay from destination to source	N/A	Unsigned integer.	N/A
MinDSDelay	Minimum delay from destination to source	N/A	Unsigned integer.	N/A
MaxDSDelay	Maximum delay from destination to source	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	N/A	Unsigned integer.	N/A
MinSDJitter	Minimum jitter from source to destination	N/A	Unsigned integer.	N/A
MaxSDJitter	Maximum jitter from source to destination	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	N/A	Unsigned integer.	N/A
MinDSJitter	Minimum jitter from destination to source	N/A	Unsigned integer.	N/A
MaxDSJitter	Maximum jitter from destination to source	N/A	Unsigned integer.	N/A

NQA/TwamplightOneWayDelayStats/LinkBundleIfs

This table contains detailed information about NQA TWAMP Light operation one-way delay result.

XML structure

See the XML structure of NQA/TwamplightOneWayDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	LinkBundleIfs
Table type	Multi-instance table

Row name	LinkBundle
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberIf	Specify a member interface by its type and number.	Index	String, case-insensitive. Length: 2 to 47 characters.	N/A
SDDelay	Average delay from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSDelay	Average delay from destination to source	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A
MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	Data structure	Members include: • MinValue. • MaxValue. • AvgValue	N/A
MinValue	Minimum value	N/A	Unsigned integer.	N/A

MaxValue	Maximum value	N/A	Unsigned integer.	N/A
AvgValue	Average value	N/A	Unsigned integer.	N/A
DetailStats	Details of frame one-way delay statistics	SubLists	N/A	N/A

NQA/TwamplightOneWayDelayStats/LinkBundleIfs/DetailStats

This table contains detailed information about NQA TWAMP Light operation one-way delay result.

XML structure

See the XML structure of NQA/TwamplightOneWayDelayStats.

Table description

Item	Description
Feature name	NQA
Table name	DetailStats
Table type	Multi-instance table
Row name	DetailStats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of statistics information	Index	Unsigned integer.	When the statistics of any group is invalid, only the index column will be displayed.
SDDelay	Average delay from source to destination	N/A	Unsigned integer.	N/A
MinSDDelay	Minimum delay from source to destination	N/A	Unsigned integer.	N/A
MaxSDDelay	Maximum delay from source to destination	N/A	Unsigned integer.	N/A
DSDelay	Average delay	N/A	Unsigned integer.	N/A

	from destination to source			
MinDSDelay	Minimum delay from destination to source	N/A	Unsigned integer.	N/A
MaxDSDelay	Maximum delay from destination to source	N/A	Unsigned integer.	N/A
SDJitter	Average jitter from source to destination	N/A	Unsigned integer.	N/A
MinSDJitter	Minimum jitter from source to destination	N/A	Unsigned integer.	N/A
MaxSDJitter	Maximum jitter from source to destination	N/A	Unsigned integer.	N/A
DSJitter	Average jitter from destination to source	N/A	Unsigned integer.	N/A
MinDSJitter	Minimum jitter from destination to source	N/A	Unsigned integer.	N/A
MaxDSJitter	Maximum jitter from destination to source	N/A	Unsigned integer.	N/A

Contents

NQA 1
NQA/Client 1
NQA/Server 4

NQA

NQA/Client

Message	Explanation
The value must not be less than %d or greater than %d. 参数范围从%d至%d。	The specified probe timeout must be within the legal range. 指定的探测超时时间必须在合法的范围内。
Incomplete NQA operation parameters. Can't start the NQA operation. 必配参数不全，无法启动调度。	When starting the NQA test, the selected test parameters must be configured. 启动NQA测试的时候，必选的测试参数必须配置。
The operation time has passed. 时间已是过去。	The start time for starting the NQA test should be less than the current system time. 启动NQA测试的开始时间应小于当前系统的时间。
Can't start the operation. Please enable the NQA client first. 启动测试失败，请先开启NQA客户端。	Before starting the NQA test, you need to start the NQA client first. 在启动NQA测试前，先需要先开启NQA客户端。
Can't modify any existing schedule. 调度已启动，不可以修改。	After the NQA test is started, the scheduling parameters of the scheduling test cannot be modified. NQA测试启动后，不能修改调度测试的调度参数。
Can't modify a scheduled operation. 测试项已启动调度，不可以修改配置。	After the test group starts the scheduling test, the configuration of the test group is not allowed to be modified. 测试组启动调度测试后，不允许对测试组的配置进行修改。
The lifetime for a recurring NQA operation can't be forever. 已配置recurring，必须配置有限的lifetime。	When the specified NQA test group is scheduled to run every day, the duration of the test cannot be unlimited. 指定NQA测试组每天都被调度运行时，测试的持续时间不能是无限的。
The lifetime for a recurring NQA operation must be less than one day. 已配置recurring，lifetime必须小于一天。	When the specified NQA test group is scheduled to run every day, the duration of the test must be the same day. 指定NQA测试组每天都被调度运行，测试的持续时间必须小于一天。
The start time is invalid. 配置测试组启动日期，不在有效时间范围内。	The start time of the NQA startup test should be within the valid range. NQA启动测试的开始时间要在有效的范围内。
No operation type is specified. 未配置当前测试组的测试类型。	The type of the specified NQA test group must be configured when the create, merge and replace operations are performed. 当执行create、merge、replace操作时，指定的NQA测试组类型必须已经配置。
The NQA reaction parameter can't be modified. 不支持修改监测参数。	Alarm parameters that already have the same threshold number are not allowed to be modified. 已存在的相同的阈值编号的告警参数不允许修改。
The test session exist on-demand test. 当前会话已经存在按需启动探测。	Test session that already have started on-demand is not allowed to be started. 已经按需启动过的会话，不允许再次启动。

The statistics time must be a multiple of %d. 统计周期必须是%d的整数倍。	The specified statistics time interval must be a multiple of the statistics granularity that get from the driver. 统计周期必须是从驱动获取的统计粒度的整数倍。
The monitor time must be a multiple of the statistics interval. 监控时间必须是统计周期的整数倍。	The monitor time value must be a multiple of the statistics interval. 监控时间必须是统计周期的整数倍。
Operation failed.The driving received wrong interface parameter. 启动探测失败，驱动返回参数错误。	Can't start the session because of the driving received wrong interface parameter. 无法启动会话探测，因为驱动发现接口参数配置错误。
Operation failed.The driving received wrong IP parameter. 启动探测失败，驱动返回IP参数错误。	Can't start the session because of the driving received wrong IP parameter. 无法启动会话探测，因为驱动发现IP参数配置错误。
Operation failed.The driving received wrong mac parameter. 启动探测失败，驱动返回MAC参数错误。	Can't start the session because of the driving received wrong mac parameter. 无法启动会话探测，因为驱动发现MAC参数配置错误。
Operation failed.The driving received wrong vlan parameter. 启动探测失败，驱动返回VLAN参数错误。	Can't start the session because of the driving received wrong vlan parameter. 无法启动会话探测，因为驱动发现VLAN参数配置错误。
Operation failed.The specified frame size is smaller than the minimum packet size.Please set a larger frame size. 启动探测失败，当前配置的帧范围小于系统要求的最小值。请设置更大的帧值。	Operation failed.The specified frame size is smaller than the minimum packet size.Please set a larger frame size. 启动探测失败。当前配置的帧范围小于系统要求的最小值。请设置更大的帧值。
The source and destination IP addresses must be of the same IP version. 源IP和目的IP的类型必须一致。	The configuration of source IP and destination IP addresses must be of the same IP version. 配置的源IP和目的IP的类型必须一致。
Operation failed.The source or out interface configuration is invalid. 启动探测失败，当前配置的源接口或出接口配置无效。	Can't start the session because of the source or destination interface configuration is invalid. 无法启动会话探测，因为当前配置的源接口或出接口配置无效。
Can't start the test session because required parameters are missing. 配置参数不全，启动探测失败。	When starting the test session, the selected test parameters must be configured. 启动会话测试的时候，必选的测试参数必须配置。
The test session is already running. 会话探测已经启动。	Can't start or modify the session that already started. 已经启动探测的会话，不允许再次启动或者修改参数。
Operation failed. Invalid configuration. 启动探测失败，因为配置参数无效。	Can't start the session because of the driving received invalid parameter. 无法启动会话探测，因为驱动发现有无效的配置信息。
Operation failed. Not enough resources. 资源不足，启动探测失败。	Can't start the session because of the driving received not enough resources. 无法启动会话探测，因为驱动发现硬件资源不足。
Can't create session. Please enable the TWAMP Light client first. 创建会话失败，请先开启twamp客户端视图。	Before creating the session, you need to start the TWAMP Light client first. 在启动会话测试前，需要先开启TWAMP Light客户视图。
Can't start session. Please enable the TWAMP Light sender first.	Before starting the session, you need to start the TWAMP Light sender first.

启动探测失败，请先开启TWAMP发送端视图。	在启动会话测试前，需要先开启TWAMP Light发送视图。
Duration and PacketCount must have one and only one configuration. 发送周期和发包个数有且只能配置一个。	When starting the test session on-demand, the Duration and PacketCount must have one and only one configuration. 当按需启动探测时，发送周期和发包个数有且只能配置一个。
VPN-Instance does not exist. 配置的VPN实例不存在。	Can't start the session because of the VPN-Instance does not exist. 启动探测失败，因为VPN实例不存在。
The device is not support config datafill. 当前设备不支持配置datafill。	Datafill is not supported by current device customization. 当前设备定制了不支持datafill功能。
Destination IP and destination port cannot coexist with the URL configuration. 目的IP和目的端口与URL不能同时配置。	Destination IP and destination port cannot coexist with the URL configuration. 目的IP和目的端口与URL不能同时配置。
Please configure or delete the srcinterface setting first 请先配置或删除SrcInterface信息Expect status and expect failed-status can’t be configured at the same time. 期望状态和期望失败状态不能同时配置。	Please configure or delete the srcinterface setting first 请先配置或删除SrcInterface信息Expect status and expect failed-status are mutually exclusive. 期望的应答状态码和期望失败的应答状态码的配置是互斥的。
Expect data and expect failed-data can’t be configured at the same time. 期望内容和期望失败的内容不能同时配置。	Expect data and expect failed-data are mutually exclusive. 期望的应答内容和期望失败的应答内容的配置是互斥的。
Please configureOperation failed. The tx-interval of 10 or delete100 ms is mutually exclusive with the servervlan data-fillsetting first. 请先配置或删除servervlan信息。Start指令下发失败，发包间隔为10或100ms和data-fill参数配置冲突。	Please configure or delete the servervlan setting first. 请先配置或删除servervlan信息。The tx-interval of 10 or 100 ms is mutually exclusive with the data-fill setting. Support for the data-fill setting depends on the device model. 如果当前已经配置了data-fill，再通过netconf下发start命令并指定发包间隔为10或100 ms，start命令下发失败。Data-fill命令的支持情况与设备型号有关，请以设备的实际情况为准。
You cannot modify a single attribute column when you distribute a sub table. 不能单独修改子表的某一个属性列 。	You cannot modify a single attribute column when you distribute a sub table. 不能单独修改子表的某一个属性列 。
The value of LowerLimit cannot be greater than the value of UpperLimit LowerLimit 值不能大于 UpperLimit 值 。	The value of LowerLimit cannot be greater than the value of UpperLimit LowerLimit 值不能大于 UpperLimit 值 。
Failed to start the test-session because no route is found. 启动探测失败，路由不可达。	Failed to start the test-session because no route is found. 启动探测失败，路由不可达。
This device does not support TWAMP Light. 当前设备不支持 TWAMP Light。	This device does not support TWAMP Light. 当前设备不支持 TWAMP Light。
The TWAMP Light test session is already running. 会话探测已经启动。	The TWAMP Light test session is already running. 会话探测已经启动。
The lifetime for a recurring NQA operation can't be forever. 已配置 recuring，必须配置有限的 lifetime。	The lifetime for a recurring NQA operation can't be forever. 已配置 recuring，必须配置有限的 lifetime。
The lifetime for a recurring NQA operation must be less than one day.	The lifetime for a recurring NQA operation must be less than one day.

已配置 recuring，lifetime 必须小于一天。	已配置 recuring，lifetime 必须小于一天。
The operation time has passed. 时间已过去。	The operation time has passed. 时间已过去。
Can't start the operation. Please enable the NQA client first. 启动失败，请先使能 NQA 客户端。	Can't start the operation. Please enable the NQA client first. 启动失败，请先使能 NQA 客户端。
The start time is invalid. 配置测试组启动日期，不在有效时间范围内。	The start time is invalid. 配置测试组启动日期，不在有效时间范围内。
Operation failed.The driving received wrong interface parameter. 启动探测失败，驱动返回接口参数错误。	Operation failed.The driving received wrong interface parameter. 启动探测失败，驱动返回接口参数错误。
Operation failed. Invalid configuration. 配置参数无效，启动探测失败。	Operation failed. Invalid configuration. 配置参数无效，启动探测失败。
Operation failed. The tx-interval of 10 or 100 ms is mutually exclusive with the data-fill setting. Start 指令下发失败，发包间隔为 10 或 100ms 和 data-fill 参数配置冲突。	Operation failed. The tx-interval of 10 or 100 ms is mutually exclusive with the data-fill setting. Start 指令下发失败，发包间隔为 10 或 100ms 和 data-fill 参数配置冲突。
The template name has been used. 此模板名称已被使用。	The template name has been used. 此模板名称已被使用。

NQA/Server

Message	Explanation
Can't configure session. Please enable the TWAMP Light responder first. 配置会话失败，请先开启responder视图。	Before configuring the session, you need to start the TWAMP Light responder first. 在启动会话测试前，需要先开启TWAMP Light反射端视图。
Can't configure session. Please configure the source IP, source port, destination IP, and destination port. 配置会话失败，请配置必选项源IP、源端口、目的IP、目的端口参数。	When configuring the test session, the source IP, source port, destination IP, and destination port must be configured. 配置会话时，参数源IP、源端口、目的IP、目的端口为必选项。
The interface and service instance setting of an existing reflector can't be modified. 配置会话后，接口和服务实例不允许被修改。	After configuring the test session, the interface and service instance setting of an existing reflector can't be modified。 当配置会话成功后，接口和服务实例不允许再被修改。
The source and destination IP addresses must be of the same IP version. 源IP和目的IP的类型必须一致。	The configuration of source IP and destination IP addresses must be of the same IP version. 配置的源IP和目的IP的类型必须一致。
Invalid port. 无效的端口号。	Can't configure the session because of the driving received invalid port parameter. 无法配置会话，因为驱动发现端口参数配置无效。
Invalid interface. 无效的接口信息	Can't configure the session because of the driving received invalid interface parameter. 无法配置会话，因为驱动发现接口参数配置无效。
Deleting a column separately is not allowed. 不允许单独删除某一列。	Only one full session is allowed to be deleted. 只允许删除一条完整会话。

The value must not be less than %d or greater than %d. 参数范围从%d至%d。	The specified probe timeout must be within the legal range. 指定的探测超时时间必须在合法的范围内。
Please configure the source interface setting first. 请先配置SrcInterface信息。	Please configure the srcinterface setting first. 请先配置 SrcInterface 信息。
Please configure the service VLAN setting first. 请先配置service vlan信息。	Please configure the service vlan setting first. 请先配置 service vlan 信息。
This device does not support TWAMP Light. 当前设备不支持TWAMP Light。	This device does not support TWAMP Light. 当前设备不支持TWAMP Light。
Operation failed because the port is already being used. Please specify another port. 监听端口已被占用，请修改为其它端口。	Operation failed because the port is already being used. Please specify another port. 监听端口已被占用，请修改为其它端口。

Contents

NQA event stream ····· 1
ReactionEvent event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2

NQA event stream

ReactionEvent event

This event is used to report reaction status information.

XML structure for event subscription

```
<ReactionEvent>
  <Reaction>
    <AdminName></AdminName>
    <OperationTag></OperationTag>
    <ItemNumber></ItemNumber>
  </Reaction>
</ReactionEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>NQA</stream>
    <filter type="subtree">
      <ReactionEvent xmlns="http://www.h3c.com/netconf/event:1.0/NQA:1.0">
        <Reaction>
          <AdminName>admin</AdminName >
          <OperationTag>tag</OperationTag>
          <ItemNumber>1</ItemNumber>
        </Reaction>
      </ReactionEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	NQA
Event name	ReactionEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/NQA:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
AdminName	Administrator name.	String, case-insensitive. Length: 1 to 32 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
OperationTag	Operation tag.	String, case-insensitive. Length: 1 to 32 characters.	No
ItemNumber	Item number.	Unsigned integer. Value range: 1 to 10.	No

XML structure for event report

```
<ReactionEvent>
  <Reaction>
    <AdminName></AdminName>
    <OperationTag></OperationTag>
    <ItemNumber></ItemNumber>
    <ReactionStatus></ReactionStatus>
  </Reaction>
</ReactionEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ReactionEvent xmlns="http://www.h3c.com/netconf/event:1.0/NQA:1.0">
    <Reaction>
    <AdminName>admin</AdminName>
    <OperationTag>tag</OperationTag>
    <ItemNumber>1</ItemNumber>
    <ReactionStatus>2</ReactionStatus>
    </Reaction>
  </ReactionEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
AdminName	Administrator name.	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag.	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number.	Unsigned integer. Value range: 1 to 10.	N/A
ReactionStatus	Operation reaction status.	Enumeration: • **1**—Invalid. • **2**—Over-threshold. • **3**—Below-threshold.	N/A

Contents

NQAS 1
NQAS/ServerStatus 1
XML structure 1
Table description 1
Columns 1
NQAS/Servers 1
XML structure 1
Table description 2
Columns 2
NQAS/TwamplightResponder 3
XML structure 3
Table description 3
Columns 3
NQAS/TwamplightRespSessions 4
XML structure 4
Table description 4
Columns 5

NQAS

NQAS/ServerStatus

This table contains information about NQA server enabling status.

XML structure

```
<NQAS>
  <ServerStatus>
    <Enable></Enable>
  </ServerStatus>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	ServerStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA server	N/A	Enabling status: • **enable**—NQA server is enabled. • **disable**—NQA server is disabled.	By default, the NQA server is disabled.

NQAS/Servers

This table contains information about NQA servers. You cannot edit a server after it is configured.

XML structure

```
<NQAS>
  <Servers>
```

```
    <Server>
      <Type></Type>
      <IPAddr></IPAddr>
      <Port></Port>
      <VRF></VRF>
      <ToS></ToS>
      <HighPerformance></HighPerformance>
    </Server>
  </Servers>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Service type	Index	Enumeration: • **0**—TCP-connect • **1**—UDP-echo • **2**—ICMP-server	N/A
IPAddr	IPv4 or IPv6 address for the listening service	Index	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Port	Port number for the listening service	Index	Unsigned integer. Value range: 1 to 65535.	The ICMP-server type does not support this column.
VRF	VRF instance where the service listens on	Index	String, case-sensitive. Length: 0 to 31 characters.	If it is not specified, the NQA server listens on the public network.
ToS	ToS value in the IP header for reply packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A
HighPerforma	Enabling status	N/A	Boolean:	Only supported on

Column name	Column description	Column type	Data type and restrictions	Remarks
nce	of the high performance mode		• **true**—Enabled. • **false**—Disabled (default).	the NQA UDP echo server.

NQAS/TwamplightResponder

This table contains information about TWAMP Light responder enabling status.

XML structure

```
<NQAS>
  <TwamplightResponder>
    <ResponderEnable></ResponderEnable>
  </TwamplightResponder>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	TwamplightResponder
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponderEnable	Enabling status of the TWAMP Light responder	N/A	Enabling status: • **enable**— TWAMP Light responder is enabled. • **disable**— TWAMP Light responder r is disabled(default).	By default, the TWAMP Light responder is disabled.

NQAS/TwamplightRespSessions

This table contains information about TWAMP Light responder session.

XML structure

```
<NQAS>
  <TwamplightRespSessions>
    <TwamplightRespSession>
      <SessionID></SessionID>
      <SrcInterface></SrcInterface>
      <ServiceID></ServiceID>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPortNumber></SrcPortNumber>
      <DstPortNumber></DstPortNumber>
      <VRF></VRF>
      <Description></Description>
      <DesMacAddress></DesMacAddress>
      <SrcMacAddress></SrcMacAddress>
      <TimestampFormat></TimestampFormat>
      <VLANID>
        <Service></Service>
        <Customer></Customer>
      </VLANID>
      <AdjustChecksum></AdjustChecksum>
      <ExtendedPacket></ExtendedPacket>
      <LinkBundleIf></LinkBundleIf>
    </TwamplightRespSession>
  </TwamplightRespSessions>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	TwamplightRespSessions
Table type	Multi-instance table
Row name	TwamplightRespSession
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
SrcInterface	Responser Interface	N/A	String. Length: 2 to 47 characters	This parameter can't be modified when configured.
ServiceID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
SrcIpAddress	Source IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This parameter must be specified.
DstIpAddress	Destination IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This parameter must be specified.
SrcPortNumber	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	This parameter must be specified.
DstPortNumber	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	This parameter must be specified.
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Description	Session description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DesMacAddress	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMacAddress	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TimestampFormat	Timestamp format of packets	N/A	Enumeration: • 1—NTP format. • 2—PTP format.	N/A
VLANID	VLAN ID	Data structure	Members include: • Service. • Customer.	N/A
Service	Service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Customer	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The server VLAN must be specified first before the

Column name	Column description	Column type	Data type and restrictions	Remarks
				customer VLAN.
AdjustChecksum	Enabing status of the adjusting UDPchecksum mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled**.**	N/A
ExtendedPacket	Enabing status of the extended packet mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled**.**	N/A
LinkBundleIf	Specify an bundle interface by its type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

Contents

NQAS 1
NQAS/ServerStatus 1
XML structure 1
Table description 1
Columns 1
NQAS/Servers 1
XML structure 1
Table description 2
Columns 2
NQAS/TwamplightResponder 3
XML structure 3
Table description 3
Columns 3
NQAS/TwamplightRespSessions 3
XML structure 3
Table description 4
Columns 4

NQAS

NQAS/ServerStatus

This table contains information about NQA server enabling status.

XML structure

```
<NQAS>
  <ServerStatus>
    <Enable></Enable>
  </ServerStatus>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	ServerStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA server.	N/A	Enabling status: • **enable**—NQA server is enabled. • **disable**—NQA server is disabled.	N/A

NQAS/Servers

This table contains information about NQA servers.

XML structure

```
<NQAS>
  <Servers>
    <Server>
```

```
      <Type></Type>
      <IPAddr></IPAddr>
      <Port></Port>
      <VRF></VRF>
      <ToS></ToS>
      <HighPerformance></HighPerformance>
    </Server>
  </Servers>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Service type	Index	Enumeration: • **0**—TCP-connect • **1**—UDP-echo • **2**—ICMP-server	N/A
IPAddr	IPv4 or IPv6 address for the listening service	Index	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Port	Port number for the listening service	Index	Unsigned integer. Value range: 1 to 65535.	If the type is ICMP-server, the port number can only be displayed as 0.
VRF	VRF instance where the server listens on	Index	String, case-sensitive. Length: 0 to 31 characters.	If the returned value is empty, the NQA server listens on the public network.
ToS	ToS value in the IP header for reply packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A
HighPerformance	Enabling status of the high performance mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only supported on the NQA UDP echo server.

NQAS/TwamplightResponder

This table contains information about TWAMP Light responder enabling status.

XML structure

```
<NQAS>
  <TwamplightResponder>
    <ResponderEnable></ResponderEnable>
  </TwamplightResponder>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	TwamplightResponder
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponderEnable	Enabling status of the TWAMP Light responder	N/A	Enabling status: • **enable**— TWAMP Light responder is enabled. • **disable**— TWAMP Light responder r is disabled.	By default, the TWAMP Light responder is disabled.

NQAS/TwamplightRespSessions

This table contains information about TWAMP Light responder session.

XML structure

```
<NQAS>
  <TwamplightRespSessions>
    <TwamplightRespSession>
      <SessionID></SessionID>
      <SrcInterface></SrcInterface>
```

```
      <ServiceID></ServiceID>
      <SrcIpAddress></SrcIpAddress>
      <DstIpAddress></DstIpAddress>
      <SrcPortNumber></SrcPortNumber>
      <DstPortNumber></DstPortNumber>
      <VRF></VRF>
      <Description></Description>
      <DesMacAddress></DesMacAddress>
      <SrcMacAddress></SrcMacAddress>
      <TimestampFormat></TimestampFormat>
      <VLANID>
        <Service></Service>
        <Customer></Customer>
      </VLANID>
      <AdjustChecksum></AdjustChecksum>
      <ExtendedPacket></ExtendedPacket>
      <LinkBundleIf></LinkBundleIf>
    </TwamplightRespSession>
  </TwamplightRespSessions>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	TwamplightRespSessions
Table type	Multi-instance table
Row name	TwamplightRespSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionID	TWAMP Light session ID	Index	Unsigned integer. • MinValue: 1	This parameter supports customization, so only the minimum value is limited.
SrcInterface	Responser Interface	N/A	String. Length: 2 to 47 characters	N/A
ServiceID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
SrcIpAddress	Source IP address	N/A	String, dotted decimal notation. Or hexadecimal string,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated. Length: 1 to 46 characters.	
DstIpAddress	Destination IP address	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no destination address is specified.
SrcPortNumber	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DstPortNumber	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Description	Session description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DesMacAddress	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMacAddress	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TimestampFormat	Timestamp format of packets	N/A	Enumeration: • 1—NTP format • 2—PTP format	N/A
VLANID	VLAN ID	Data structure	Members include: • Service. • Customer.	N/A
Service	Service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Customer	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The server VLAN must be specified first before the customer VLAN.
AdjustChecksum	Enabing status of the adjusting UDP checksum mode	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ExtendedPacket	Enabing status of the extend edpacket mode	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A
LinkBundleIf	Specify an bundle interface by its type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

Contents

NQAS 1
NQAS/Server 1

NQAS

NQAS/Server

Message	Explanation
The NQA server parameters can't be modified. 不支持修改监听服务器参数。	A listening service has been created that does not allow modification of the parameters of this listening service. 已经创建好的监听服务，不允许修改这个监听服务的参数。
Can't configure more. Maximum number of listening services already reached. 监听服务个数已达上限。	The number of listening services that have been created has reached the number of devices. 已经创建的监听服务的数量，已经达到设备的上限。

Contents

NSCollector 1
NSCollector/Collectors 1
XML structure 1
Table description 1
Columns 1

NSCollector

NSCollector/Collectors

This table contains information about the collector to which the Netstream data exports.

XML structure

```
<NSCollector>
  <Collectors>
    <Collector>
      <AddressType></AddressType>
      <IP></IP>
      <UDPPort></UDPPort>
    </Collector>
  </Collectors>
</NSCollector>
```

Table description

Item	Description
Feature name	NSCollector
Table name	Collectors
Table type	Multi-instance table
Row name	Collector
Restrictions	None
Support for row creation and deletion	yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP address type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	Only supports IPv4 addresses.
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	Index	Unsigned integer. Value range: 0 to 65535. Default: 0.	N/A

Contents

NSCollector 1
NSCollector/Collectors 1
XML structure 1
Table description 1
Columns 1

NSCollector

NSCollector/Collectors

This table contains information about the collector to which the Netstream data exports.

XML structure

```
<NSCollector>
  <Collectors>
    <Collector>
      <AddressType></AddressType>
      <IP></IP>
      <UDPPort></UDPPort>
    </Collector>
  </Collectors>
</NSCollector>
```

Table description

Item	Description
Feature name	NSCollector
Table name	Collectors
Table type	Multi-instance table
Row name	Collector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP address type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	Only support IPv4
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	Index	Unsigned integer. Value range: 0 to 65535	N/A

Contents

NTOP 1

NTOP/ExportTrafficTop 1
XML structure 1
Table description 1
Columns 2
NTOP/ExportTrafficTopChart 3
XML structure 3
Table description 3
Columns 3
NTOP/ExportThreatTop 4
XML structure 4
Table description 5
Columns 5
NTOP/ExportThreatTopChart 6
XML structure 6
Table description 7
Columns 7
NTOP/ExportURLTop 8
XML structure 8
Table description 9
Columns 9
NTOP/ExportURLTopChart 10
XML structure 10
Table description 10
Columns 10
NTOP/ExportFileTop 11
XML structure 11
Table description 12
Columns 12
NTOP/ExportFileTopChart 12
XML structure 12
Table description 13
Columns 13
NTOP/ExportTrafficHistogram 14
XML structure 14
Table description 14
Columns 15
NTOP/ExportTrafficDistribution 15
XML structure 15
Table description 16
Columns 16
NTOP/ExportReport 17
XML structure 17
Table description 18
Columns 18
NTOP/StorageDevice 20
XML structure 20
Table description 21
Columns 21
NTOP/PlatformLogAction 21
XML structure 21
Table description 22
Columns 22
NTOP/ExportLBModuleStatics 23
XML structure 23
Table description 23
Columns 24

NTOP/DownloadFile ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 25

NTOP

NTOP/ExportTrafficTop

This table is used to export the traffic top statistics to PDF.

XML structure

```
<NTOP>
  <ExportTrafficTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <TrafficType></TrafficType>
      <FileName></FileName>
      <TableName></TableName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <MatchFilter>
        <SrcIP></SrcIP>
        <Application></Application>
        <UAppSubCategory></UAppSubCategory>
      </MatchFilter>
    </Top>
  </ExportTrafficTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficTop
Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: • **1**—SrcIP • **4**—Application • **8**—User • **64**—Context	N/A
ChartType	Type of the chart	N/A	Enumeration: • **1**—Pie chart • **2**—Bar chart	N/A
TrafficType	Type of the traffic	N/A	Enumeration: • **0**—Total bytes • **1**—Bytes • **2**—Reply bytes	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Number of the top ranking statistics	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: • SrcIP • Application • UAppSubCategory	Only one column at a time.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportTrafficTopChart

This table is used to export the Traffic TopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportTrafficTopChart>
    <Chart>
      <GroupType></GroupType>
      <TrafficType></TrafficType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <MatchValue>
        <MatchType></MatchType>
        <MatchValue></MatchValue>
      </MatchValue>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    <Chart>
  </ExportThreatTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer. Enumeration: • **1**—SrcIP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—Application • **8**—User • **64**—Context • **256**—Appcategory • **512**—Bandwidth	
TrafficType	Type of the traffic	N/A	Enumeration: • **0**—Total bytes • **1**—Bytes • **2**—Reply bytes	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: • SrcIP • Application • UAppSubCategory	Only one column at a time.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportThreatTop

This table is used to export the threat top statistics to PDF.

XML structure

```
<NTOP>
  <ExportThreatTop>
    <Top>
      <GroupType></GroupType>
```

```
      <ChartType></ChartType>
      <TableName></TableName>
      <FileName></FileName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <MatchFilter>
        <SrcIP></SrcIP>
        <DestIP></DestIP>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
      </MatchFilter>
    </Top>
  </ExportThreatTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportThreatTop
Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: • **1**—ThreatType • **2**—Application • **4**—Attacker • **8**—AttackerTarget • **16**—ThreatID • **32**—User	N/A
ChartType	Type of the chart	N/A	Enumeration: • **1**—Pie chart • **2**—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Number of the top ranking statistics	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: • SrcIP • DestIP • ThreatType • ThreatID	ThreatType and ThreatID must be issued simultaneously.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
DestIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
ThreatType	Threat type	N/A	Enumeration: • **1**—IPS • **2**—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer	N/A

NTOP/ExportThreatTopChart

This table is used to get the ThreatTopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportThreatTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <ThreatType></ThreatType>
      <GroupValueList>
        <GroupValue></GroupValue>
```

```
      <ThreatID></ThreatID>
    </GroupValueList>
    <MatchValue>
      <MatchType></MatchType>
      <MatchValue></MatchValue>
      <ThreatType></ThreatType>
      <ThreatID></ThreatID>
    </MatchValue>
    <TimeFilter>
      <StartTime></StartTime>
      <EndTime></EndTime>
    </TimeFilter>
  </Chart>
 </ExportThreatTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportThreatTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration: • **1**—ThreatType • **2**—Application • **4**—Attacker • **8**—AttackerTarget • **16**—ThreatID • **32**—User	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
ThreatType	Threat type	N/A	Enumeration: • **1**—IPS • **2**—AV	If GroupType is 16, ThreatType must not be NULL.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValueList	Trend value list	Data structure	Members include: • GroupValue • ThreatType • ThreatID	If GroupType is 16, ThreatType must not be NULL.
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValueList.
ThreatID	Threat ID	N/A	Unsigned integer	Contains up to 5 ThreatID in GroupValueList.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: • SrcIP • DestIP • ThreatType • ThreatID	ThreatType and ThreatID must be issued simultaneously.
MatchType	Filter type	N/A	Unsigned integer	N/A
MatchValue	Filter value	N/A	String, case insensitive Length: 1 to 63 characters	N/A
ThreatType	Threat type	N/A	Enumeration: • **1**—IPS • **2**—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer	N/A

NTOP/ExportURLTop

This table is used to export the URL top statistics to PDF.

XML structure

```
<NTOP>
  <ExportURLTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <FileName></FileName>
      <TableName></TableName>
```

```
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
    </Top>
  </ExportURLTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportUrlTop
Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: • **1**—Urlcategory • **2**—Website • **4**—User • **8**—SrcIP • **16**—DstIP	N/A
ChartType	Type of the chart	N/A	Enumeration: • **1**—Pie chart • **2**—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Number of the top ranking statistics	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportURLTopChart

This table is used to get the URLTopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportURLTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    <Chart>
  </ExportURLTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportUrlTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Urlcategory • **2**—Website • **4**—User • **8**—SrcIP • **16**—DstIP	
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValueList	Trend value list	Data structure	Members include: • GroupValue	N/A
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValueList.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportFileTop

This table is used to export the file top statistics to PDF.

XML structure

```
<NTOP>
  <ExportFileTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <FileName></FileName>
      <TableName></TableName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
    </Top>
  </ExportFileTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportFileTop
Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: • **1**—FileFilter	N/A
ChartType	Type of the chart	N/A	Enumeration: • **1**—Pie chart • **2**—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Number of the top ranking statisticsg	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportFileTopChart

This table is used to get the FileTopChart's statistics to PDF.

XML structure

```
<NTOP>
```

```
  <ExportFileTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportFileTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportFileTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration: • **1**—FileFilter	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValueList	Trend value list	Data structure	Members include: • GroupValue	N/A
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValue List.
TimeFilter	Query time range	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• StartTime • EndTime	
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportTrafficHistogram

This table is used to get the traffic histogram information to PDF.

XML structure

```
<NTOP>
  <ExportTrafficHistogram>
    <Chart>
      <ContextID></ContextID>
      <AnalyType></AnalyType>
      <TrafficType></TrafficType>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <FileName></FileName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportTrafficHistogram>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficHistogram
Table Type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyType	Analysis type	Index	Unsigned integer • **0**—Traffic flow • **1**—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: • **0**—Total bytes • **1**—bytes • **2**—Reply bytes	N/A
FilterType	Filter type	N/A	Unsigned integer • **1**—SrcIP • **4**—Application • **8**—User • **64**—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportTrafficDistribution

This table is used to get the traffic distribution statistics to PDF.

XML structure

```
<NTOP>
  <ExportTrafficDistribution>
    <Chart>
      <ContextID></ContextID>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <TrafficType></TrafficType>
      <TimeRange></TimeRange>
```

```
      <FileName></FileName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportTrafficDistribution>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficDistribution
Table Type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Unsigned integer • **1**—SrcIP • **2**—Application • **4**—User • **8**—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TrafficType	Type of the traffic	Index	Enumeration: • **0**—Total bytes • **1**—Bytes • **2**—Reply bytes	N/A
TimeRange	Time range	Index	Enumeration: • **0**—Hour • **1**—Day • **2**—Week	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportReport

This table is used to get the NTOP report to PDF.

XML structure

```
<NTOP>
  <ExportReport>
    <Chart>
      <ReportType></ReportType>
      <TopCount></TopCount>
      <ContextID></ContextID>
      <ReportCustomization></ReportCustomization>
      <ReportTitle></ReportTitle>
      <Lang></Lang>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
        <CompStartTime></CompStartTime>
        <CompEndTime><CompEndTime>
      </TimeFilter>
      <FileName></FileName>
      <Templates>
         <TemplateName></TemplateName>
      </Templates>
      <SN></SN>
      <OperationPercentage></OperationPercentage>
      <IsStopOperation ></IsStopOperation>
      <ReportContent>
         <ContentType></ContentType>
         <ContentTypeCfg></ContentTypeCfg>
      </ReportContent>
      <FileTypes>
         <FileType></FileType>
      </FileTypes>
    </Chart>
  </ExportReport>
```

```
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportReport
Table Type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report This column is supported only on Comware 7 in the current software version.	N/A
TopCount	Top count	N/A	Enumeration: • **5** • **10** • **15** • **20** • **25** This column is supported only on Comware 7 in the current software version.	Get the top count iterms when exporting the report.
ReportCustomization	Report customization	N/A	Unsigned integer: • **1**—Chapter 1 • **2**—Chapter 2 • **4**—Chapter 3 • **8**—Chapter 4 … • **2^{31}**—Chapter 32 This column is supported only on Comware 7 in the current software version.	Report output selected chapter. By default, all chapters are selected. The chapter name is taken from NETCONF table: NTOP/ReportChapter.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime • CompStartTime • CompEndTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
CompStartTime	Comparison Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS This column is supported only on Comware 7 in the current software version.	N/A
CompEndTime	Comparison End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS This column is supported only on Comware 7 in the current software version.	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Lang	Language	N/A	Enumeration: • **0**—English • **1**—Chinese (default).	N/A
ReportTitle	Report title	N/A	String, case-insensitive. Length: 1 to 42 characters. This column is supported only on Comware 9 in the current software version.	N/A
Templates	Templates	N/A	Members include: • TemplateName. This column is supported only on Comware 9 in the current software version.	Currently only supports single instance.
TemplateName	Name of a template for exporting reports	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 9 in the current software version.	N/A
ReportContent	Report content	Data structure	Members include: • ContentType. • ContentTypeCfg. This column is supported only on Comware 9 in the current software version.	N/A
ContentType	Type of exported report content	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			This column is supported only on Comware 9 in the current software version.	
ContentTypeCfg	Content configuration in JSON format	N/A	String, case-insensitive. Length: 1 to 2047 characters. This column is supported only on Comware 9 in the current software version.	N/A
SN	UUID	N/A	String, case-insensitive. Length: 1 to 39 characters. This column is supported only on Comware 9 in the current software version.	N/A
OperationPercentage	Operation percentage	N/A	Unsigned integer. This column is supported only on Comware 9 in the current software version.	N/A
IsStopOperation	Whether the operation is a stop operation	N/A	Boolean: • true. • false (default). This column is supported only on Comware 9 in the current software version.	N/A
FileTypes	File types	N/A	Members include: • FileType. This column is supported only on Comware 9 in the current software version.	N/A
FileType	File type	N/A	Enumeration: • **0**—PDF (default). • **1**—HTML. This column is supported only on Comware 9 in the current software version.	N/A

NTOP/StorageDevice

This table is used to operate the Top N storage devices.

XML structure

```
<NTOP>
  <StorageDevice>
    <OperationType></OperationType>
  </StorageDevice>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	StorageDevice
Table Type	Single -instance table
Row name	None
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationType	Type of the operation	N/A	Enumeration: • **0**—Unload the storage device	N/A

NTOP/PlatformLogAction

This table is used to delete or export the platform log data.

XML structure

```
<NTOP>
  <PlatformLogAction>
    <LogAction>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <IsAllContext></IsAllContext>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <FilterJSON></FilterJSON>
      <ActionType></ActionType>
      <ColumnJSON></ColumnJSON>
      <OrderJSON></OrderJSON>
      <RowsLimit></RowsLimit>
      <IsCompress></IsCompress>
      <FileName></FileName>
      <TableName></TableName>
      <Password></Password>
    </LogAction>
  </PlatformLogAction>
```

```
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformLogAction
Table Type	Multi-instance table
Row name	LogAction
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SubName	Sub-feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
IsAllContext	Wether to operate logs of all contexts	N/A	Boolean: • true • false	N/A
TimeFilter	Query time range	N/A	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
FilterJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
ActionType	Action type	N/A	Unsigned integer: • **1**—Export • **2**—Delete • **3**—Import	N/A
ColumnJSON	Column name	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
OrderJSON	Ordered column name	N/A	String, case insensitive Length: 1 to 2048 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RowsLimit	Limit of rows	N/A	Unsigned integer	N/A
IsCompress	Whether the table will be compressed after deletion	N/A	Boolean: • true • false	N/A
FileName	Name of the file	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table in database	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Password	Password	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportLBModuleStatics

This table is used to export LB statistics to PDF.

XML structure

```
<NTOP>
  <ExportLBModuleStatics>
    <Top>
      <FileName></FileName>
      <TopCount></TopCount>
      <ModuleType></ModuleType>
      <LinkStaticsType></LinkStaticsType>
      <VirtualServerStaticsType></VirtualServerStaticsType>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <LinkModuleList>
        <LinkName></LinkName>
      </LinkModuleList>
      <VirtualServerModuleList>
        <VirtualServerName></VirtualServerName>
      </VirtualServerModuleList>
    </Top>
  </ExportLBModuleStatics>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP

Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Top N entries	N/A	Unsigned integer Value range: 0 to 1000.	N/A
ModuleType	Service name	N/A	Enumeration: • **1**—LB-Link • **2**—LB-VS	N/A
LinkStaticType	Link statistics type	N/A	Enumeration: • **1**—Appstatic • **2**—Packetloss • **4**—Delay • **8**—Connections • **16**—Activeconnections • **32**—Abnormaly • **64**—Stability	N/A
VirtualServerStaticsType	Virtual server statistics type	N/A	Enumeration: • **1**—Matchclass	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
LinkModuleList	Exported link statistics.	Data structure	Members include: Exported statistics of links	N/A
LinkName	Link name	N/A	String, case-insensitive. Length: 1 to 63 characters.	A maximum of 20 link names are supported.
VirtualServerModuleList	Exported virtual server statistics.	Data structure	Members include: Exported statistics of virtual servers	N/A
VirtualServerNa	Virtual server name	N/A	String, case-insensitive	A maximum

Column name	Column description	Column Type	Data Type and restrictions	Remarks
me			Length: 1 to 63 characters.	of 20 virtual server names are supported.

NTOP/DownloadFile

This table is used to download files.

XML structure

```
<NTOP>
  <DownloadFile>
    <ContextId></ContextId>
    <VsysId></VsysId>
    <FileType></FileType>
    <FileName></FileName>
  </DownloadFile>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	DownloadFile
Table Type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextId	Context ID	Index	Unsigned integer. Value 0, 1, or null represents the default context.	N/A
VsysId	vSystem ID	Index	Unsigned integer. Value range: 0 to 4095. Value 0, 1, or null represents the default vSystem.	N/A
FileType	File type	N/A	Enumeration: • **0**—AutoReport	Not null.

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default).	
FileName	Name of the file	N/A	String, case-insensitive. Length: 1 to 255 characters.	Not null.

Contents

NTOP/LogAggregations 1
- XML structure 1
- Table description 1
- Columns 1

NTOP/PersistCfg 2
- XML structure 2
- Table description 2
- Columns 2

NTOP/ReportRss 3
- XML structure 3
- Table description 3
- Columns 4

NTOP/PersistDiskCfg 4
- XML structure 4
- Table description 4
- Columns 5

NTOP/PlatformFeatureCfg 5
- XML structure 5
- Table description 6
- Columns 6

NTOP/EnhancedTrafficConstant 7
- XML structure 7
- Table description 8
- Columns 8

NTOP/ExportTemplates 8
- XML structure 8
- Table description 9
- Columns 9

NTOP/AutoExportReports 14
- XML structure 14
- Table description 14
- Columns 14

NTOP/ReportTopN 15
- XML structure 15
- Table description 16
- Columns 16

NTOP/LogAggregations

This table contains log aggregation information.

XML structure

```
<NTOP>
  <LogAggregations>
    <LogAggregation>
      <LogType></LogType>
      <Enabled></Enabled>
      <Time></Time>
    </LogAggregation>
  </LogAggregations>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	LogAggregations
Table type	Multi-instance table
Row name	LogAggregation
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: • **1**—ThreatLog • **2**—TrafficLog • **3**—URLLog • **4**—FFilterLog	N/A
Enabled	Whether aggregation is enabled or not	N/A	Boolean: • true • false	Enabled
Time	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60.	Default is 60 seconds.

NTOP/PersistCfg

This table is used to set the persistence configuration.

XML structure

```
<NTOP>
  <PersistCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <AutoDeleteEnable></AutoDeleteEnable>
      <LimitTime></LimitTime>
      <LogLimit></LogLimit>
      <TrendLimit></TrendLimit>
      <DBSoftware></DBSoftware>
    </DBCfg>
  </PersistCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PersistCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	Index	Enumeration: • **1**—Global service • **2**—Audit service • **3**—Traffic service • **4**—Threat service • **5**—URLFilter service • **6**—Filefilter service	N/A
AutoDeleteEnable	Whether AutoDelete is enabled or not	N/A	Boolean: • true • false	N/A
LimitTime	Data retention	N/A	Unsigned integer	Default is 30 days.

Column name	Column description	Column type	Data type and restrictions	Remarks
	days			
LogLimit	Log records limit	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
TrendLimit	Trend records limit	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
DBSoftware	Database software of this service	N/A	Enumeration: • **1**—Sqlite • **2**—Fastbit	N/A

NTOP/ReportRss

This table is used to set the report subscription configuration.

XML structure

```
<NTOP>
  <ReportRss>
    <Rss>
      <ReportType></ReportType>
      <MailId></MailId>
      <Language></Language>
      <MailAddr></MailAddr>
    </Rss>
  </ReportRss>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportRss
Table type	Multi-instance table
Row name	Rss
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report	N/A
MailId	Mail ID	Index	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
Language	Language	N/A	Enumeration: • **0**—English. • **1**—Chinese.	N/A
MailAddr	Rss mail address	N/A	String, case insensitive Length: 1 to 127 characters	N/A.

NTOP/PersistDiskCfg

This table is used to set the persistence disk configuration.

XML structure

```
<NTOP>
  <PersistDiskCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <ServiceDiskLimit></ServiceDiskLimit>
      <ServiceAlarmLimit></ServiceAlarmLimit>
    </DBCfg>
  </PersistDiskCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PersistDiskCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceAlarmLimit	Alarm limit percent	N/A	Unsigned integer. Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
ServiceType	Service type		Enumeration: • **1**—Global service • **2**—Audit service • **3**—Traffic service • **4**—Threat service • **5**—URLFilter service • **6**—Filefilter service	N/A
ServiceDiskLimit	Service disk limit percent	N/A	Unsigned integer. Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.

NTOP/PlatformFeatureCfg

This table is used to set the platform feature configuration.

XML structure

```
<NTOP>
  <PlatformFeatureCfg>
    <FeatureCfg>
      <Data>
        <FeatureName></FeatureName>
        <SubName></SubName>
        <CollectEnable></CollectEnable>
        <RealtimeEnable></RealtimeEnable>
        <AutoDeleteEnable></AutoDeleteEnable>
        <LimitTime></LimitTime>
        <LogLimit></LogLimit>
        <TrendLimit></TrendLimit>
        <DBSoftware></DBSoftware>
        <ServiceDiskLimit></ServiceDiskLimit>
        <ServiceAlarmLimit></ServiceAlarmLimit>
        <AggEnable></AggEnable>
        <AggTime></AggTime>
      </Data>
    </FeatureCfg>
```

```
  </PlatformFeatureCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformFeatureCfg
Table type	Multi-instance table
Row name	FeatureCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Data	Configuration values	Data structure	Members include: • FeatureName • SubName • CollectEnable • RealtimeEnable • AutoDeleteEnable • LimitTime • LogLimit • TrendLimit • DBSoftware • ServiceDiskLimit • ServiceAlarmLimit • AggEnable • AggTime	N/A
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SubName	Sub-feature Name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
CollectEnable	Whether to collect logs	N/A	Boolean: • true • false	N/A
RealtimeEnable	Whether to collect realtime logs	N/A	Boolean: • true • false	N/A
AutoDeleteEnable	Whether to delete files on disk automatically	N/A	Boolean: • true • false	N/A
LimitTime	Maximum	N/A	Unsigned integer	Default is 30 days.

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of days that the data can be stored		Value range: 1 to 2^{32}-1	
LogLimit	Log records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1.	N/A
TrendLimit	Trend records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1.	N/A
DBSoftware	Database software of this service	N/A	Enumeration: • **1**—Sqlite • **2**—Fastbit	N/A
ServiceDiskLimit	Service disk limit percent.	N/A	Unsigned integer • Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion。
ServiceAlarmLimit	Alarm limit percent.	N/A	Unsigned integer Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
AggEnable	Whether aggregation is enabled or not	N/A	Boolean: • true • false	N/A
AggTime	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60.	Default is 60 seconds.

NTOP/EnhancedTrafficConstant

This table is used to set the constant traffic configuration.

XML structure

```
<NTOP>
  <EnhancedTrafficConstant>
    <Constant>
      <ConstantType></ConstantType>
      <Level></Level>
    </Constant>
  </EnhancedTrafficConstant>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficConstant
Table Type	Multi-instance table
Row name	Constant
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConstantType	Type of the constant data	Index	Enumeration: • **0**—SrcIP • **1**—Application	N/A
Level	Level of display	N/A	Enumeration: • **0**—Disable Level • **1**—Brief Level • **2**—Detail Level	N/A

NTOP/ExportTemplates

This table contains export template information.

XML structure

```
<NTOP>
  <ExportTemplates>
    <ExportTemplate>
      <Name></Name>
      <Language></Language>
      <ReportTitle></ReportTitle>
       <FileTypes>
          <FileType></FileType>
       </FileTypes>
       <ContentTypes>
          <ContentType></ContentType>
       </ContentTypes>
      <ModuleType></ModuleType>
      <LinkStaticsType></LinkStaticsType>
      <VirtualServerStaticsType></VirtualServerStaticsType>
      <RealServerStaticsType></RealServerStaticsType>
      <ServerFarmStaticsType></RealFarmStaticsType>
```

```
      <RealServerMemberStaticsType></RealServerMemberStaticsType>
      <LinkModuleList>
        <LinkName></LinkName>
      </LinkModuleList>
        <VirtualServerModuleList>
      <VirtualServerName></VirtualServerName>
      </VirtualServerModuleList>
      <RealServerModuleList>
        <RealServerName></RealServerName>
      </RealServerModuleList>
      <ServerFarmModuleList>
        <ServerFarmName></ServerFarmName>
      </ServerFarmModuleList>
      <RealServerMemberModuleList>
        <ServerFarm></ServerFarm>
        <RealServer></RealServer>
        <Port></Port>
      </RealServerMemberModuleList>
    </ExportTemplate>
  </ExportTemplates>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTemplates
Table type	Multi-instance table
Row name	ExportTemplate
Restrictions	Only period export module static info can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Name	Name of export template	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Language	Type of language	N/A	Enumeration: • **0**—English (default) • **1**—Chinese	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportTitle	Report title	N/A	String, case-insensitive. Length: 1 to 42 characters. This column is supported only on Comware 9 in the current software version.	N/A
FileTypes	File types	N/A	Members include: FileType. This column is supported only on Comware 9 in the current software version.	N/A
FileType	File type	N/A	Enumeration: • **0**—PDF (default). • **1**—HTML. This column is supported only on Comware 9 in the current software version.	N/A
ContentTypes	Content types	N/A	Members include: ContentType. This column is supported only on Comware 9 in the current software version.	N/A
ContentType	Type of exported report content	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 9 in the current software version.	N/A
ModuleType	Module name	N/A	Enumeration: • **1**—LinkModule • **2**—VSModule • **4**—RSModule • **8**—SFModule • **16**—RSMember Module This column is supported only on Comware 7 in the current software	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			version.	
LinkStaticsType	Link statistics type	N/A	Enumeration: • **1**—Appstatic • **2**—Packetloss • **4**—Delay • **8**—Connections • **16**—Activeconnections • **32**—Abnormaly • **64**—Stability This column is supported only on Comware 7 in the current software version.	N/A
VirtualServerStaticsType	Virtual server statistics type	N/A	Enumeration: • **1**—Matchclass • **2**—Stability • **4**—Httpstatuscode • **8**—Compress • **16**—Matchcache • **32**—Savetraffic This column is supported only on Comware 7 in the current software version.	N/A
RealServerStaticsType	Real server statistics type	N/A	Enumeration: • **1**—Stability • **2**—HttpDelay This column is supported only on Comware 7 in the current software version.	N/A
ServerFarmStaticsType	Server farm statistics type	N/A	Enumeration: • **1**—Stability This column is supported only on Comware 7 in the current software version.	N/A
RealServerMemberStaticsType	Real server member statistics type	N/A	Enumeration: • **1**—Stability • **2**—HttpDelay This column is supported only on Comware 7 in the current software version.	N/A
LinkModule	Exported link	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
List	statistics	structure	Exported statistics of links. This column is supported only on Comware 7 in the current software version.	
LinkName	Link name	N/A	String, case-insensitive Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 link names are supported.
VirtualServerModuleList	Exported virtual server statistics.	Data structure	Members include: Exported statistics of virtual servers. This column is supported only on Comware 7 in the current software version.	N/A
VirtualServerName	Virtual server name	N/A	String, case-insensitive Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 virtual server names are supported.
RealServerModuleList	Exported real server statistics.	Data structure	Members include: Exported statistics of real servers. This column is supported only on Comware 7 in the current software version.	N/A
RealServerName	Real server name	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 real server names are supported.
ServerFarmModuleList	Exported server farm statistics.	Data structure	Members include: Exported statistics of	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			server farms. This column is supported only on Comware 7 in the current software version.	
ServeFarm Name	Server farm name	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 server farm names are supported.
RealServeMemberModuleList	Exported real server member	Data structure	Members include: Exported statistics of real server members. This column is supported only on Comware 7 in the current software version.	N/A
ServerFarm	Server farm name	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 server farm names are supported.
RealServer	Real server name	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	A maximum of 20 real server names are supported. You cannot configure this column if server farm is not configured.
Port	Port number	N/A	Unsigned integer. Value range: 0 to 65535. This column is supported only on Comware 7 in the current software version.	A maximum of 20 ports are supported. of 20 ports are supported.You cannot configure this column if server farm and real server are not configured.

NTOP/AutoExportReports

This table contains report export configuration information.

XML structure

```
<NTOP>
  <AutoExportReports>
    <AutoExportReport>
      <Type></Type>
      <Subscriber></Subscriber>
      <Period></Period>
      <ExportTemplateName></ExportTemplateName>
      <EmailServer></EmailServer>
      <EmailRecipients></EmailRecipients>
    </AutoExportReport>
  </AutoExportReports>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	AutoExportReports
Table type	Multi-instance table
Row name	AutoExportReport
Restrictions	Only auto export report can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Type	Type of the subscriber	Index	Enumeration: • **0**—Local(default) • **1**—Email	N/A
Period	Export frequency	Index	Enumeration: • **1**—Hour • **2**—Day • **3**—Week • **4**—Month • **5**—Quarter • **6**—Year	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ExportTemplateName	Export template name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Subscriber	Email address for exporting reports	column	String, case-sensitive Length: 3 to 63 characters This column is supported only on Comware 7 in the current software version.	This column has validity in subscriber process. You cannot configure this column if the type is not Email.
EmailServer	Email server name	Index	case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 9 in the current software version.	This column has validity in subscriber process. You must configure if the type is Email.
EmailRecipients	Email address for exporting reports	Index	String, case-sensitive. Length: 3 to 303 characters. This column is supported only on Comware 9 in the current software version.	You can configure null if the type is Email.

NTOP/ReportTopN

This table is used to set how many iterms will be taken when a certain report is generated during report subscription.

XML structure

```
<NTOP>
  <ReportTopN>
    <TopN>
      <ReportType></ReportType>
      <TopCount></TopCount>
    </TopN>
  </ReportTopN>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportTopN
Table type	Multi-instance table
Row name	TopN
Restrictions	The value only can be set as 5,10,15,20,25. This table is supported only on Comware 7 in the current software version.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report	N/A
TopCount	The number of iterms	N/A	Enumeration: • **5** • **10** • **15** • **20** • **25**	N/A

Contents

NTOP 1
NTOP/TrafficLog 1
XML structure 1
Table description 2
Columns 2
NTOP/TrafficTop 3
XML structure 3
Table description 4
Columns 5
NTOP/TrafficTopChart 7
XML structure 7
Table description 8
Columns 8
NTOP/ThreatLog 9
XML structure 9
Table description 10
Columns 10
NTOP/ThreatTop 11
XML structure 12
Table description 12
Columns 13
NTOP/ThreatTopChart 15
XML structure 15
Table description 15
Columns 16
NTOP/URLLog 17
XML structure 17
Table description 17
Columns 18
NTOP/URLTop 19
XML structure 19
Table description 20
Columns 20
NTOP/URLTopChart 21
XML structure 21
Table description 22
Columns 22
NTOP/FileLog 23
XML structure 23
Table description 24
Columns 24
NTOP/FileTop 25
XML structure 25
Table description 26
Columns 26
NTOP/FileTopChart 27
XML structure 27
Table description 27
Columns 27
NTOP/LogAggregations 28
XML structure 28
Table description 29
Columns 29
NTOP/LogPaging 29
XML structure 29
Table description 30
Columns 30

NTOP/PersistCfg 31
XML structure 32
Table description 32
Columns 32
NTOP/TrafficHistogram 33
XML structure 33
Table description 33
Columns 34
NTOP/TrafficDistribution 34
XML structure 35
Table description 35
Columns 35
NTOP/TrafficConstant 36
XML structure 36
Table description 37
Columns 37
NTOP/ReportRss 38
XML structure 38
Table description 38
Columns 39
NTOP/PersistDiskCfg 39
XML structure 39
Table description 39
Columns 40
NTOP/ReportChapter 40
XML structure 40
Table description 41
Columns 41
NTOP/SecurityScore 41
XML structure 41
Table description 42
Columns 42
NTOP/PlatformFeatureCfg 42
XML structure 42
Table description 43
Columns 43
NTOP/PlatformLog 45
XML structure 45
Table description 46
Columns 46
NTOP/PlatformTop 47
XML structure 47
Table description 48
Columns 48
NTOP/PlatformTopChart 49
XML structure 49
Table description 50
Columns 50
NTOP/RealtimeLog 51
XML structure 52
Table description 52
Columns 52
NTOP/EnhancedTrafficConstant 53
XML structure 53
Table description 54
Columns 54
NTOP/VisualizationView 57
XML structure 57
Table description 57
Columns 58
NTOP/VisualizationTrend 58
XML structure 59

Table description 59
Columns 59
NTOP/ExportTemplates 60
XML structure 60
Table description 61
Columns 62
NTOP/AutoExportReports 65
XML structure 65
Table description 65
Columns 65
NTOP/ReportFileList 66
XML structure 66
Table description 67
Columns 67
NTOP/CustomDisplayRules 68
XML structure 68
Table description 68
Columns 68
NTOP/AuditLog 68
XML structure 69
Table description 70
Columns 70
NTOP/UserStatistics 73
XML structure 73
Table description 74
Columns 74
NTOP/AuditStatistics 75
XML structure 75
Table description 76
Columns 76
NTOP/ReportTopN 78
XML structure 78
Table description 79
Columns 79

NTOP

NTOP/TrafficLog

This table contains Traffic log information. When a session ends, a traffic log will be stored locally. This table contains these logs. If there is no hard-disk on device, only 10,000 entries can be stored, and new logs will overwrite the oldest.

XML structure

```
<NTOP>
  <TrafficLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <ContextName></ContextName>
      <Protocol></Protocol>
      <Application></Application>
      <SecurityPolicy></SecurityPolicy>
      <SrcZoneName></SrcZoneName>
      <SrcRegion></SrcRegion>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <NATSrcIP></NATSrcIP>
      <NATSrcPort></NATSrcPort>
      <User></User>
      <DestZoneName></DestZoneName>
      <DestRegion></DestRegion>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <NATDstIP></NATDstIP>
      <NATDstPort></NATDstPort>
      <TrafficPolicy></TrafficPolicy>
      <Bytes></Bytes>
      <ReplyBytes><ReplyBytes>
      <Pkts></Pkts>
      <ReplyPkts></ReplyPkts>
      <SrcInterface></SrcInterface>
      <SrcVrfIndex></SrcVrfIndex>
      <DstInterface></DstInterface>
      <UAppSubCategory></UAppSubCategory>
      <SessionCount></SessionCount>
    </Log>
  </TrafficLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficLog
Table type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the TrafficLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
EndTime	End time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
StartTime	Start time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SecurityPolicy	Security policy	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
NATSrcIP	NAT source IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATSrcPort	NAT source port	N/A	Unsigned integer	N/A
User	Username	N/A	String, case insensitive Length: 1 to 127 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
NATDstIP	NAT destination IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATDstPort	NAT destination port	N/A	Unsigned integer	N/A
Bytes	Bytes	N/A	Unsigned integer	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer	N/A
Pkts	Packets	N/A	Unsigned integer	N/A
ReplyPkts	Reply packets	N/A	Unsigned integer	N/A
SrcInterface	Source interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
DstInterface	Destination interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/TrafficTop

This table is used to get the top information of TrafficLog table.

The attributes in GroupValue must match the GroupType. For example, if the group-type is SrcIP, the value in GroupValue should be:

```
<SrcIP>1.2.3.4</SrcIP>
```

Other columns in GroupValue must not exist. The ConnCounter is the number of sessions that include this IP as an initiator and BytesCounter is the number of bytes sent and received by this IP. TopNo means the BytesCounter’s order in all BytesCounter values.

XML structure

```
<NTOP>
  <TrafficTop>
    <Top>
      <TopNo></TopNo>
```

```
      <GroupType></GroupType>
      <TrafficType></TrafficType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <MatchFilter>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Application></Application>
        <User></User>
        <UAppSubCategory></UAppSubCategory>
      </MatchFilter>
      <GroupValue>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Applicatoin></ Applicatoin >
        <User></User>
        <Bandwidth></Bandwidth>
        <SrcRegion></SrcRegion>
        <DstRegion></DstRegion>
        <ContextName></ContextName>
        <UAppSubCategory></UAppSubCategory>
      </GroupValue>
      <GroupCounters>
        <BytesCounter></BytesCounter>
        <TotalBytes ></TotalBytes >
        <ReplyBytes></ReplyBytes>
        <ConnCounter></ConnCounter>
      </GroupCounters>
      <BytesTotal></BytesTotal>
      <ConnTotal></ConnTotal>
    </Top>
  </TrafficTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficTop
Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
GroupType	Ranking type	Index	Unsigned integer • **1**—SrcIP • **4**—Application • **8**—User • **64**—ContextName	For example, to rank the statistics by application, set the GroupType value to 4.
TrafficType	Type of the traffic	Index	Enumeration: • **0**—Total bytes • **1**—Bytes • **2**—Reply bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime.	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: • SrcIP • DstIP • Application • UAppSubCategory • User	N/A
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValue	Group value	Data structure	Members include: • SrcIP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• DstIP • Application • UAppSubCategory. • User • BandWidth • SrcRegion • DestRegion • ContextName.	
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
GroupCounters	Group counters	Data structure	Members include: • Bytes • TotalBytes • ReplyBytes • ConnCounter.	N/A
BytesCounter	Bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalBytes	Total bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
ReplyBytes	Reply bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
ConnCounter	Session count within the	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	statistical time of the GroupValue.		Value range: 0 to 2^{32}-1	
BytesTotal	All bytes within the statistical time.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	If TrafficType is 1, the BytesTotal is the total number of ReplyBytes. If TrafficType is 2, the BytesTotal is the total number of Bytes. Otherwise BytesTotal is the total number of TotalBytes.
ConnTotal	All session count within the statistical time.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A

NTOP/TrafficTopChart

This table is used to get the TrafficLog's byte number distribution every hour.

XML structure

```
<NTOP>
  <TrafficTopChart>
    <Chart>
      <TrafficType></TrafficType>
      <GroupValue>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Application></Application>
        <UAppSubCategory></UAppSubCategory>
        <User></User>
        <ContextName></ContextName>
        <SrcRegion></SrcRegion>
        <DstRegion></DstRegion>
        <Bandwidth></Bandwidth>
      </GroupValue>
      <GroupCounters>
        <Time></Time>
        <Bytes></Bytes>
        <ReplyBytes></ReplyBytes>
        <TotalBytes></TotalBytes>
      </GroupCounters>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    <Chart>
  </TrafficTopChart>
```

```
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficType	Type of the traffic	Index	Enumeration: • **0**—Total bytes • **1**—Bytes • **2**—Reply bytes	N/A
GroupValue	Group value	Data structure	Members include: • SrcIP • DstIP • Application • AppSubCategory. • User • ContextName • Bandwidth. • SrcRegion • DestRegion	N/A
SrcIP	Source IP address of the session	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	Index	String, case insensitive Length: 1 to 15 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters	
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bytes	Bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	Multiple values.
ReplyBytes	Reply bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	Multiple values.
TotalBytes	Total bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to 2^{64}-1	Multiple values.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ThreatLog

This table contains threat log information.

XML structure

```
<NTOP>
  <ThreatLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <ThreatType></ThreatType>
      <ThreatID></ThreatID>
      <ThreatName></ThreatName>
      <SrcZoneName></SrcZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestZoneName></DestZoneName>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <Application></Application>
```

```
      <Protocol></Protocol>
      <Action></Action>
      <Severity></Severity>
      <RealIP></RealIP>
      <CVE></CVE>
      <BID></BID>
      <MSB></MSB>
      <Policy></Policy>
      <SrcRegion></SrcRegion>
      <DestRegion></DestRegion>
      <ContextName></ContextName>
      <SrcVrfIndex></SrcVrfIndex>
      <AttackCount></AttackCount>
      <User></User>
    </Log>
  </ThreatLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatLog
Table type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the ThreatLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	Time of the ThreatLog	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ThreatType	Threat type	N/A	Enumeration: • 1—IPS • 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
Severity	Severity of the rule	N/A	Unsigned integer	N/A
RealIP	Real IP	N/A	String, case insensitive Length: 1 to 127 characters	N/A
CVE	CVE	N/A	String, case insensitive Length: 1 to 127 characters	N/A
BID	BID	N/A	String, case insensitive Length: 1 to 127 characters	N/A
MSB	MSB	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Policy	Name of the threat policy	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
AttackCount	Number of attacks	N/A	Unsigned integer	N/A
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A

NTOP/ThreatTop

This table contains ThreatLog Top information.

XML structure

```
<NTOP>
  <ThreatTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <MatchFilter>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <ThreatName></ThreatName>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <Application></Application>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
        <User></User>
      </MatchFilter>
      <GroupValue>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <ThreatName></ThreatName>
        <Application></Application>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <User></User>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
      </GroupValue>
      <GroupCounters>
        <ThreatCounter></ThreatCounter>
      </GroupCounters>
      <AttackTotal></AttackTotal>
    <Top>
  </ThreatTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatTop

Table type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
GroupType	Ranking type	Index	Unsigned integer: • 1—ThreatType • 2—Application • 4—Attacker • 8—AttackTarget • 16—ThreatID • 32—User	For example, to rank the statistics by attacker, set the GroupType value to 4.
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: • ThreatType • ThreatID • Attacker • AttackTarget • Application • User. • SrcRegion • DestRegion	N/A
ThreatType	Threat type	N/A	Enumeration: • 1—IPS • 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Destination IP	N/A	String, case insensitive	IPv4 or IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		Length: 1 to 46 characters	
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupValue	Group value	Data structure	Members include: • ThreatType • ThreatID • ThreatName • Application • Attacker • AttackTarget • User. • SrcRegion • DestRegion	N/A
ThreatType	Threat type	N/A	Enumeration: • 1—IPS • 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupCounters	Group counters	Data structure	Members include: • ThreatCounter.	N/A
ThreatCounter	Threat counter within the statistical time of	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the GroupValue.			
AttackTotal	All attack count within the statistical time.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A

NTOP/ThreatTopChart

This table contains Threat Log Top Chart information.

XML structure

```
<NTOP>
  <ThreatTopChart>
    <Chart>
      <GroupValue>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <Application></Application>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
        <User></User>
      </GroupValue>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <GroupCounters>
        <Time></Time>
        <AttackCounter></AttackCounter>
      </GroupCounters>
    <Chart>
  </ThreatTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current

	software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: • ThreatType • ThreatID • Application • Attacker • AttackTarget • SrcRegion • DestRegion • User	N/A
ThreatType	Threat type	Index	Enumeration: • 1—IPS • 2—AV	N/A
ThreatID	Threat ID	Index	Unsigned integer	N/A
Application	Application	Index	String , case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Dest IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounters	Statistic data	Data structure	Members include: • Time • HitCounter	When the TimeFilter is less than 1 day, the data is collected at an interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data

Column name	Column description	Column type	Data type and restrictions	Remarks
				is collected.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
AttackCounter	Number of attacks	N/A	Unsigned integer	Multiple values.

NTOP/URLLog

This table contains URLLog information.

XML structure

```
<NTOP>
  <URLLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <URLCategory></URLCategory>
      <FilterType></FilterType>
      <URL></URL>
      <SrcZoneName></SrcZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestZoneName></DestZoneName>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <Application></Application>
      <User></User>
      <Action></Action>
      <SecurityPolicy></SecurityPolicy>
      <ContextName></ContextName>
      <SrcVrfIndex></SrcVrfIndex>
      <SrcRegion></SrcRegion>
      <DestRegion></DestRegion>
      <VistCount></VistCount>
    </Log>
  </URLLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP

Table name	URLLog
Table Type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
ID	ID of the URL log	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	Time of the URLLog	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
URL	URL	N/A	String, case insensitive Length: 1 to 511 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String , case insensitive Length: 1 to 127 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
SecurityPolicy	Name of the URL policy	N/A	String, case insensitive Length: 1 to 31 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
SrcRegion	Source region	N/A	String, case insensitive	N/A

Column name	Column description	Column Type	Data Type and restrictions	Remarks
			Length: 1 to 127 characters	
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
VistCount	Number of URL visits	N/A	Unsigned integer Value range: 1 to 2^{32}-1	Whether the URL logs are aggregated depends on table LogAggregations.

NTOP/URLTop

This table contains URL Log Top information.

XML structure

```
<NTOP>
  <URLTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <MatchFilter>
        <User></User>
        <URLCategory></URLCategory>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Website></Website>
      </MatchFilter>
      <GroupValue>
        <User></User>
        <URLCategory></URLCategory>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Website></Website>
      </GroupValue>
      <GroupCounters>
        <URLVistCounter></URLVistCounter>
      </GroupCounters>
      <CountTotal></CountTotal>
    </Top>
  </URLTop>
```

```
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	URLTop
Table Type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
GroupType	Ranking type	Index	Unsigned integer • **1**—URLCategory • **2**—Website • **4**—User • **8**—SrcIP • **16**—DstIP	For example, to rank the statistics by user, set the GroupType value to 4.
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime.	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: • User • URLCategory • SrcIP • DstIP • Website.	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive	IPv4 or IPv6

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 46 characters	address.
DstIP	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: • User • URLCategory • SrcIP • DstIP • Website.	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: • ThreatCounter	N/A
URLVistCounter	URL visit counter within the statistical time of the GroupValue	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
CountTotal	All attack count within the statistical time	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A

NTOP/URLTopChart

This table contains URL Log Top Chart information.

XML structure

```
<NTOP>
  <URLTopChart>
    <Chart>
      <GroupValue>
```

```
      <URLCategory></URLCategory>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <Website></Website>
      <User></User>
    </GroupValue>
    <TimeFilter>
      <StartTime></StartTime>
      <EndTime></EndTime>
    </TimeFilter>
    <GroupCounters>
      <Time></Time>
      <URLVistCounter></URLVistCounter>
    <GroupCounters>
  </Chart>
 </URLTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	URLTopChart
Table Type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: • URLCategory • SrcIP • DstIP • Website • User	N/A
URLCategory	URL category	Index	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	Index	String, case insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters	
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounters	Statistics data	Data structure	Members include: • Time • HitCounter	When the TImeFilter is less than 1 day, the data is collected at an interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data can be collected.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
URLVistCounter	Number of URL visits	N/A	Unsigned integer	Multiple values.

NTOP/FileLog

This table contains FileLog information.

XML structure

```
<NTOP>
  <FileLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <FileType></FileType>
      <SrcZoneName></SrcZoneName>
      <DestZoneName></DestZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestIPAddr></DestIPAddr>
```

```
      <DestPort></DestPort>
      <Application></Application>
      <Action></Action>
      <ContextName></ContextName>
      <VistCount></VistCount>
    </Log>
  </FileLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	FileLog
Table Type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Ranking No	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
Time	time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 8 characters	N/A
SrcZoneName	Name of source zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestZoneName	Name of destination zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	Data structure	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcPort	Source port	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
DestPort	Destination port	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2^{32}-1	
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Action	Action of the rule.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
ContextName	Name of the context.	N/A	String, case insensitive Length: 1 to 15 characters	N/A
VistCount	Number of visits	N/A	Unsigned integer Value range: 0 to 2^{32}-1	Whether the visit logs are aggregation depends on table LogAggregations.

NTOP/FileTop

This table contains File Log Top information.

XML structure

```
<NTOP>
  <FileTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <GroupValue>
        <FileType></FileType>
      </GroupValue>
      <MatchFilter>
        <FileType></FileType>
      </MatchFilter >
      <GroupCounters>
        <HitCounter></HitCounter>
      </GroupCounters>
      <HitCounterTotal></HitCounterTotal>
    </Top>
  </FileTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	FileTop
Table Type	Multi-instance table
Row name	Top
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
GroupType	Ranking type	Index	Unsigned integer • 1—FileFilter	For example, to rank the statistics by FileType, set the GroupType value to 1.
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: • FileType.	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: • HitCounter	N/A
HitCounter	Hit counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
HitCounterTotal	All hit count within	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the statistical time.		Value range: 0 to 2^{32}-1	

NTOP/FileTopChart

This table is used to get the FileLog's byte distribution every hour or five minutes.

XML structure

```
<NTOP>
  <FileTopChart>
    <Chart>
      <GroupValue>
        <FileType></FileType>
      </GroupValue>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <GroupCounters>
        <Time></Time>
        <HitCounter></HitCounter>
      </GroupCounters>
    <Chart>
  </FileTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	FileTopChart
Table Type	Multi-instance table
Row name	Chart
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: • 1—FileFilter	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FileType	File type	Index	String, case insensitive Length: 1 to 8 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounters	Statistic data	Data structure	Members include: • Time • HitCounter.	When the TimeFilter is less than 1 day, the data is collected at an interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data can be collected.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
HitCounter	Hit count	N/A	Unsigned integer Value range: 0 to 2^{32}-1	Multiple values.

NTOP/LogAggregations

This table is used to get the log aggregation information.

XML structure

```
<NTOP>
  <LogAggregations>
    <LogAggregation>
      <LogType></LogType>
      <Enabled></Enabled>
      <Time></Time>
    </LogAggregation>
  </LogAggregations>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	LogAggregations
Table Type	Multi-instance table
Row name	LogAggregation
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: • **1**—ThreatLog • **2**—TrafficLog • **3**—URLLog • **4**—FFilterLog	N/A
Enabled	Whether aggregation is enabled or not	N/A	Boolean: • true • false	N/A
Time	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60	Default is 60 seconds.

NTOP/LogPaging

This table is used to get the log paging information.

XML structure

```
<NTOP>
  <LogPaging>
    <Log>
      <LogType></LogType>
      <UserID></UserID>
      <ID></ID>
      <PageNo></PageNo>
      <PageCount></PageCount>
      <CountPerPage></CountPerPage>
      <TotalCounts></TotalCounts>
      <IsActualNum></IsActualNum>
      <InputJSON></InputJSON>
      <OutputJSON></OutputJSON>
      <CacheJSON></CacheJSON>
```

```
      <ResultCacheJSON></ResultCacheJSON>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Log>
  </LogPaging>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	LogPaging
Table Type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: • 1—ThreatLog • 2—TrafficLog • 3—URLLog • 4—FFilterLog	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
ID	Reserve column	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
PageNo	Current page number	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
PageCount	Number of pages to display	N/A	Unsigned integer	N/A
CountPerPage	Number of logs per page	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TotalCounts	Log total counts	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
IsActualNum	Whether the TotalCounts is the actual total number of logs	N/A	Boolean: • True • false	N/A
InputJSON	Input parameter to	N/A	String	When LogType is 1,

Column name	Column description	Column type	Data type and restrictions	Remarks
	get log		Length: 1 to 2048 characters.	InputJSON uses ThreatLog Filter conditions. When LogType is 2, InputJSON uses TrafficLog Filter conditions. When LogType is 3, InputJSON uses URLLog Filter conditions. When LogType is 4, InputJSON uses FFilterLog Filter conditions.
OutputJSON	Log information	N/A	String Length: 1 to 2048 characters.	When LogType is 1, OutputJSON uses ThreatLog output structure. When LogType is 2, OutputJSON uses TrafficLog output structure. When LogType is 3, OutputJSON uses URLLog output structure. When LogType is 4, OutputJSON uses FFilterLog output structure.
CacheJSON	Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
ResultCacheJSON	Result of Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/PersistCfg

This table is used to get the persistence configuration

XML structure

```
<NTOP>
  <PersistCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <AutoDeleteEnable></AutoDeleteEnable>
      <LimitTime></LimitTime>
      <DiskEnable></DiskEnable>
      <LogLimit></LogLimit>
      <TrendLimit></TrendLimit>
      <DBSoftware></DBSoftware>
    </DBCfg>
  </PersistCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PersistCfg
Table Type	Multi-instance table
Row name	DBCfg
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	Index	Enumeration: • **1**—Global service • **2**—Audit service • **3**—Traffic service • **4**—Threat service • **5**—URLFilter service • **6**—Filefilter service	N/A
AutoDeleteEnable	Whether delete files on disk automatically or not	N/A	Boolean: • true • false	N/A
LimitTime	Maximum number of days that the data can be stored	N/A	Unsigned integer Value range: 1 to 2^{32}-1	Multiple values.
DiskEnable	Whether the device mounts the hard disk	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LogLimit	Log records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TrendLimit	Trend Records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
DBSoftware	Database software of this service	N/A	Enumeration: • **1**—Sqlite • **2**—Fastbit	N/A

NTOP/TrafficHistogram

This table is used to get the traffic flow histogram information.

XML structure

```
<NTOP>
  <TrafficHistogram>
    <Histogram>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <ContextID></ContextID>
      <AnalyType></AnalyType>
      <TrafficType></TrafficType>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <AnalyVlaues>
        <Percent></Percent>
        <AnalyValue></AnalyValue>
      </AnalyVlaues>
      <UserID></UserID>
    </Histogram>
  </TrafficHistogram>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficHistogram
Table Type	Multi-instance table
Row name	Histogram
Restrictions	This table is supported only on Comware 7 in the current software

	version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyType	Analysis type	Index	Unsigned integer • 0—Traffic flow • 1—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: • 0—Total bytes • 1—bytes • 2—Reply bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
FilterType	Filter type	N/A	Unsigned integer • 1—SrcIP • 4—Application • 8—User • 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
AnalyValues	Analysis value list	Data structure	Members include: • Percent • AnalyValue	N/A
Percent	Percent of an analysis value	N/A	Unsigned integer Value range: 0 to 100	N/A
AnalyValue	Analysis value	Traffic or BandWidth	Unsigned integer Value range: 1 to 2^{64}-1	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A

NTOP/TrafficDistribution

This table is used to get the traffic time distribution information.

XML structure

```
<NTOP>
  <TrafficDistribution>
    <Distribution>
      <ContextID></ContextID>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <TrafficType></TrafficType>
      <TimeRange></TimeRange>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <DistributeVlaues>
        <Time></Time>
        <Bytes></Bytes>
      </DistributeVlaues>
      <UserID></UserID>
    </Distribution>
  </TrafficDistribution>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficDistribution
Table Type	Multi-instance table
Row name	Distribution
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Unsigned integer • 1—SrcIP • 4—Application • 8—User • 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TrafficType	Type of the traffic	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Total bytes • 1—Bytes • 2—Reply bytes	
TimeRange	Time range	Index	Enumeration: • 0—Hour • 1—Day • 2—Week	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
DistributeValues	Distribute value list	Data structure	Members include: • Time • Bytes	N/A
Time	Time values in this time range.	N/A	Unsigned integer Value range: 0 to 31	When TimeRange is 0, the time value range 0 to 23 represents 24 hours; When TimeRange is 1, the time value range 1 to 31 represents 31 days; When TimeRange is 2, the time value range 1 to 7 represents 7 days in a week.
Bytes	Traffic bytes in this time range.	Traffic	Unsigned integer Value range: 1 to 2^{64}-1	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A

NTOP/TrafficConstant

This table is used to get the traffic information constantly.

XML structure

```
<NTOP>
  <TrafficConstant>
```

```
    <Constant>
      <ContextID></ContextID>
      <ConstantType></ConstantType>
      <SortType></SortType>
      <TopNumber></TopNumber>
      <ContextName></ContextName>
      <ConstantValues>
        <TotalBytes></TotalBytes>
        <Bytes></Bytes>
        <ReplyBytes></ReplyBytes>
        <ConstantName></ConstantName>
        <ConstantPercent></ConstantPercnet>
      </ConstantVlaues>
      <UserID></UserID>
    </Constant>
  </TrafficConstant>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficConstant
Table Type	Multi-instance table
Row name	Constant
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer. Value range: 1 to 2^{32}-1.	Used to distinguish different requests.
ConstantType	Type of the constant data	Index	Enumeration: • **0**—SrcIP • **1**—Application	N/A
SortType	The type of data sort	N/A	Enumeration: • **0**—TotalBytes • **1**—Bytes • **2**—ReplyBytes	
TopNumber	Display first N data	N/A	Unsigned integer Value range: 0 to 100	
ConstantValues	Constant value list	Data structure	Members include: • TotalBytes	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Bytes • ReplyBytes • ConstantName • ConstantPercent	
TotalBytes	Total bytes	N/A	Unsigned integer. Value range: 1 to 2^{64}-1	N/A
Bytes	Bytes	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
ConstantName	The name of constant data	N/A	String. Length: 1 to 63 characters.	N/A
ConstantPercent	The percent of constant data in total data.	N/A	Unsigned integer Value range: 0 to 100	N/A
ContextID	Context ID	N/A	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
ContextName	Context name	N/A	String Length: 1 to 15 characters.	N/A

NTOP/ReportRss

This table is used to get the report subscription configuration.

XML structure

```
<NTOP>
  <ReportRss>
    <Rss>
      <ReportType></ReportType>
      <MailId></ MailId >
      <MailAddr></MailAddr>
    </Rss>
  </ReportRss>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportRss
Table type	Multi-instance table
Row name	Rss

Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report	N/A
MailId	Mail Id	Index	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
MailAddr	Mail address	N/A	String, case insensitive Length: 1 to 127 characters	N/A.

NTOP/PersistDiskCfg

This table is used to set the persistence disk configuration.

XML structure

```
<NTOP>
  <PersistDiskCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <ServiceUsed></ServiceUsed>
      <ServiceFree></ServiceFree>
      <ServiceDiskLimit></ServiceDiskLimit>
      <ServiceAlarmLimit></ServiceAlarmLimit>
    </DBCfg>
  </PersistDiskCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PersistDiskCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceAlarmLimit	Alarm limit percent	N/A	Unsigned integer. Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
ServiceType	Service type	Index	Enumeration: • **1**—Global service • **2**—Audit service • **3**—Traffic service • **4**—Threat service • **5**—URLFilter service • **6**—Filefilter service	N/A
ServiceUsed	Service disk used	N/A	Unsigned integer. Value range: 1 to 2^{64}-1.	N/A
ServiceFree	Service disk free	N/A	Unsigned integer. Value range: 1 to 2^{64}-1.	N/A
ServiceDiskLimit	Service disk limit percent	N/A	Unsigned integer. Value range: 1 to 100.	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.

NTOP/ReportChapter

This table contains informations about report chapter name.

XML structure

```
<NTOP>
  <ReportChapter>
    <Chapter>
      <ReportType></ReportType>
      <ChapterNo></ChapterNo>
      <ChapterNameEN></ChapterNameEN>
      <ChapterNameCN></ChapterNameCN>
    </Chapter>
  </ReportChapter>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportChapter
Table type	Multi-instance table
Row name	Chapter
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report	N/A
ChapterNo	The number of chapter	N/A	Unsigned integer. Value range: 1 to 32	N/A
ChapterNameEN	Chapter Chinese name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChapterNameCN	Chapter English name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

NTOP/SecurityScore

This table contains informations about security score.

XML structure

```
<NTOP>
  <SecurityScore>
    <Score>
      <ScoreType></ScoreType>
      <TotalScore></TotalScore>
      <DetailJSON></DetailJSON>
    </Score>
  </SecurityScore>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	SecurityScore
Table type	Multi-instance table
Row name	Score
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScoreType	Score type	N/A	Enumeration: • **0**—Using threat data	N/A
TotalScore	Total score	N/A	Unsigned integer. Value range: 10 to 100	Total security score.
DetailJSON	Detail JSON	N/A	String, case-insensitive. Length: 1 to 2048 characters.	JSON packeted by numbers of different levels.

NTOP/PlatformFeatureCfg

This table is used to get the platform feature configuration.

XML structure

```
<NTOP>
  <PlatformFeatureCfg>
    <FeatureCfg>
      <IsAll></IsAll>
      <Total></Total>
      <TotalUsed></TotalUsed>
      <TotalFree></TotalFree>
      <Data>
        <FeatureName></FeatureName>
        <SubName></SubName>
        <Descr></Descr>
        <SubDescr></SubDescr>
        <CollectEnable></CollectEnable>
        <RealtimeEnable></RealtimeEnable>
        <AutoDeleteEnable></AutoDeleteEnable>
        <LimitTime></LimitTime>
        <DiskEnable></DiskEnable>
```

```
      <LogLimit></LogLimit>
      <TrendLimit></TrendLimit>
      <DBSoftware></DBSoftware>
      <ServiceUsed></ServiceUsed>
      <ServiceFree></ServiceFree>
      <ServiceDiskLimit></ServiceDiskLimit>
      <ServiceAlarmLimit></ServiceAlarmLimit>
      <AggEnable></AggEnable>
      <AggTime></AggTime>
    </Data>
  </FeatureCfg>
 </PlatformFeatureCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformFeatureCfg
Table type	Multi-instance table
Row name	FeatureCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsAll	Whether to get the configurations of all registered features	N/A	Boolean: • true • false	N/A
Total	Total space	N/A	Unsigned integer Value range: 1 to 2^{64}-1	N/A
TotalUsed	Total space used	N/A	Unsigned integer Value range: 1 to 2^{64}-1	N/A
TotalFree	Total free space	N/A	Unsigned integer Value range: 1 to 2^{64}-1	N/A
Data	Configuration values	Data structure	Members include: • FeatureName • SubName • Descr • SubDescr • CollectEnable • RealtimeEnable • AutoDeleteEnable • LimitTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• DiskEnable • LogLimit • TrendLimit • DBSoftware • ServiceUsed • ServiceFree • ServiceDiskLimit • ServiceAlarmLimit • AggEnable • AggTime	
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SubName	Sub-feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Descr	Description of feature	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SubDescr	Description of sub-feature	N/A	String, case insensitive Length: 1 to 31 characters	N/A
CollectEnable	Whether to collect logs	N/A	Boolean: • true • false	N/A
RealtimeEnable	Whether to collect realtime logs	N/A	Boolean: • true • false	N/A
AutoDeleteEnable	Whether to delete files on disk automatically or not	N/A	Boolean: • true • false	N/A
LimitTime	Maximum number of days that the data can be stored	N/A	Unsigned integer Value range: 1 to 2^{32}-1	Default is 30 days.
DiskEnable	Whether the device mount the hard disk	N/A	Boolean: • true • false	N/A
LogLimit	Log records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TrendLimit	Trend records limit	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
DBSoftware	Database software of this service	N/A	Enumeration: • **1**—Sqlite • **2**—Fastbit	N/A
ServiceUsed	Service disk used	N/A	Unsigned integer Value range: 1 to 2^{64}-1	N/A
ServiceFree	Service disk free	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 2^{64}-1	
ServiceDiskLimit	Service disk limit percent	N/A	Unsigned integer Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.
ServiceAlarmLimit	Alarm limit percent	N/A	Unsigned integer Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
AggEnable	Whether aggregation is enabled or not	N/A	Boolean: • true • false	N/A
AggTime	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60	Default is 60 seconds.

NTOP/PlatformLog

This table is used to get the platform log data.

XML structure

```
<NTOP>
  <PlatformLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <PageNo></PageNo>
      <PageCount></PageCount>
      <NumPerPage></NumPerPage>
      <IsAllContext></IsAllContext>
      <LogTotalNum></LogTotalNum>
      <IsActualNum></IsActualNum>
      <FilterJSON></FilterJSON>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <CacheJSON></CacheJSON>
      <ResultJSON></ResultJSON>
      <ResultCacheJSON></ResultCacheJSON>
      <OrderJSON></OrderJSON>
```

```
      <GroupJSON></GroupJSON>
      <CalculateJSON></CalculateJSON>
    </Log>
  </PlatformLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformLog
Table Type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of log	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to get last position when turning page.
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SubName	Sub-feature name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
PageNo	Current page number	N/A	Unsigned integer	N/A
PageCount	Number of pages to display	N/A	Unsigned integer	N/A
NumPerPage	Number of logs per page	N/A	Unsigned integer	N/A
IsAllContext	Whether to operate logs of all context	N/A	Boolean: • true • false	N/A
LogTotalNum	Total number of logs	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
IsActualNum	Whether the LogTotalNum is the actual total number of logs	N/A	Boolean: • true • false	N/A
FilterJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2048	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters	
TimeFilter	Query time range	N/A	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
CacheJSON	Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
ResultJSON	Result of output	N/A	String, case insensitive Length: 1 to 65535 characters	N/A
ResultCacheJSON	Result of Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters This column is supported only on Comware 7 in the current software version.	N/A
OrderJSON	Conditions of extra sorting	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
GroupJSON	Conditions of group aggregation	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
CalculateJSON	Conditions of group calculation	N/A	String, case insensitive Length: 1 to 2048 characters	N/A

NTOP/PlatformTop

This table is used to get the platform top data.

XML structure

```
<NTOP>
  <PlatformTop>
    <Top>
      <ID></ID>
      <UserID></UserID>
      <TopNo></TopNo>
      <FeatureName></FeatureName>
```

```
      <SubName></SubName>
      <IsAllContext></IsAllContext>
      <FilterJSON></FilterJSON>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <ResultJSON></ResultJSON>
      <OrderJSON></OrderJSON>
      <GroupJSON></GroupJSON>
      <CalculateJSON></CalculateJSON>
      <TotalJSON></TotalJSON>
      <TotalResultJSON></TotalResultJSON>
      <IsFast></IsFast>
    </Top>
  </PlatformTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformTop
Table Type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the data	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used for multiple data sending when using get-bulk.
TopNo	Top Number	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SubName	Subfeature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
IsAllContext	Whether overall unit will be operated	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TimeFilter	Query time range	N/A	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ResultJSON	Result of the output	N/A	String, case insensitive Length: 1 to 2048 characters	Result of output.
OrderJSON	Conditions of extra sorting	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
GroupJSON	Conditions of group aggregation	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
CalculateJSON	Conditions of group summary	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TotalJSON	Total summary column	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TotalResultJSON	Output of total summary column	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
IsFast	Using fast way or not	N/A	Boolean: • true • false	N/A

NTOP/PlatformTopChart

This table is used to get the platform top chart data.

XML structure

```
<NTOP>
  <PlatformTopChart>
    <TopChart>
      <ID></ID>
```

```
      <UserID></UserID>
      <TopNo></TopNo>
      <UnitType></UnitType>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <IsAllContext></IsAllContext>
      <FilterJSON></FilterJSON>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <OrderJSON></OrderJSON>
      <GroupJSON></GroupJSON>
      <CalculateJSON></CalculateJSON>
      <ResultJSON></ResultJSON>
      <TotalJSON></TotalJSON>
      <TotalResultJSON></TotalResultJSON>
      <IsFast></IsFast>
    </TopChart>
  </PlatformTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PlatformTopChart
Table Type	Multi-instance table
Row name	TopChart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the data	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TopNo	Top Number	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UnitType	Unit type	N/A	Enumeration • **1**—Total Summary • **2**—Unit Frenquency	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SubName	Subfeature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
IsAllContext	Whether overall unit will be operated	N/A	Boolean: • true • false	N/A
FilterJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TimeFilter	Query time range	N/A	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
OrderJSON	Conditions of extra sorting	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
GroupJSON	Conditions of group aggregation	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
CalculateJSON	Conditions of group summary	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
ResultJSON	Result of output	N/A	String, case insensitive Length: 1 to 65535 characters	N/A
TotalJSON	Total summary Column	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
TotalResultJSON	Output of total summary column	N/A	String, case insensitive Length: 1 to 65535 characters	N/A
IsFast	Using fast way or not	N/A	Boolean: • true • false	N/A

NTOP/RealtimeLog

This table is used to get the realtime log.

XML structure

```
<NTOP>
  <RealtimeLog>
    <Log>
      <TopNo></TopNo>
      <ID></ID>
      <UserID></UserID>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <Description></Description>
      <OutputJSON></OutputJSON>
    </Log>
  </RealtimeLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	RealtimeLog
Table type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Number of logs to display	Index	Unsigned integer Value range: 1 to 50	N/A
ID	ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SubName	Subfeature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
Description	Description of the feature	N/A	String, case insensitive Length: 1 to 15 characters	N/A
OutputJSON	Output JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A

NTOP/EnhancedTrafficConstant

This table is used to get the enhanced traffic information constantly.

XML structure

```
<NTOP>
  <EnhancedTrafficConstant>
    <Constant>
      <UserID></UserID>
      <ID></ID>
      <ContextID></ContextID>
      <ContextName></ContextName>
      <ConstantType></ConstantType>
      <SimpleSortType></SimpleSortType>
      <SimpleTopNum></SimpleTopNum>
      <DetailSortType></DetailSortType>
      <DetailTopNum></DetailTopNum>
      <Level></Level>
      <ConstantValues>
        <TotalUpBps></TotalUpBps>
        <TotalDownBps></TotalDownBps>
        <TotalBps></TotalBps>
        <TotalUpPackets></TotalUpPackets >
        <TotalDownPackets></TotalDownPackets>
        <TotalPackets></TotalPackets>
        <SimpleUpBps></SimpleUpBps>
        <SimpleDownBps></SimpleDownBps>
        <SimpleTotalBps></SimpleTotalBps>
        <SimpleBpsPercent></SimpleBpsPercent>
        <SimpleUpPackets></SimpleUpPackets>
        <SimpleDownPackets></SimpleDownPackets>
        <SimpleTotalPackets></SimpleTotalPackets>
        <SimplePacketsPercent></SimplePacketsPercent>
        <SimpleConstantName></SimpleConstantName>
      </ConstantValues>
      <DetailConstantValues>
        <DetailUpBps></DetailUpBps>
        <DetailDownBps></DetailDownBps>
        <DetailTotalBps></DetailTotalBps>
        <DetailBpsPercent></DetailBpsPercent>
        <DetailUpPackets></DetailUpPackets>
        <DetailDownPackets></DetailDownPackets>
        <DetailTotalPackets></DetailTotalPackets>
        <DetailPacketsPercent></DetailPacketsPercent>
        <DetailConstantName></DetailConstantName>
      </DetailConstantValues>
    </Constant>
```

```
  </EnhancedTrafficConstant>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	EnhancedTrafficConstant
Table Type	Multi-instance table
Row name	Constant
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer. Value range: 1 to 2^{32}-1	Used to distinguish different requests.
ID	ID	Index	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
ContextID	Context ID	N/A	Unsigned integer. Value range: 1 to 255	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
ConstantType	Type of the constant data	Index	Enumeration: • **0**—SrcIP • **1**—Application	N/A
SimpleSortType	Sort type of simple constant values	N/A	Enumeration: • **0**—SimpleUpBps • **1**—SimpleDownBps • **2**—SimpleTotalBps • **3**—SimpleBpsPercent • **4**—SimpleUpPackets • **5**—SimpleDownPackets • **6**—SimpleTotalPackets • **7**—SimplePacketsPercent	N/A
SimpleTopNum	Top number of simple constant values	N/A	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
DetailSortType	Sort type of detail constant values	N/A	Enumeration: • **0**—DetailUpBps • **1**—DetailDownBps	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—DetailTotalBps • **3**—DetailBpsPercent • **4**—DetailUpPackets • **5**—DetailDownPackets • **6**—DetailTotalPackets • **7**—DetailConstantPercent	
DetailTopNum	Top number of detail values	N/A	Unsigned integer. Value range: 1 to 2^{32}-1	N/A
Level	Level of display	N/A	Enumeration: • **0**—Disable Level • **1**—Brief Level • **2**—Detail Level	N/A
ConstantValues	Constant value list	Data structure	Members include: • TotalUpBps • TotalDownBps • TotalBps • TotalUpPackets • TotalDownPackets • TotalPackets • SimpleUpBps • SimpleDownBps • SimpleTotalBps • SimpleBpsPercent • SimpleUpPackets • SimpleDownPackets • SimpleTotalPackets • SimplePacketsPercent • SimpleConstantName	N/A
TotalUpBps	Total up bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalDownBps	Total down bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalBps	Total bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalUpPackets	Total up packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalDownPackets	Total down packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
TotalPackets	Total packets per second	N/A	Unsigned integer. Value range: 1 to 2^{64}-1	N/A
SimpleUpBps	Simple up bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
SimpleDownBps	Simple down bytes	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	per second		Value range: 0 to 2^{64}-1	
SimpleTotalBps	Simple total bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
SimpleBpsPercent	Percent of bytes per second in simple constant values	N/A	Unsigned integer Value range: 0 to 100	N/A
SimpleUpPackets	Simple up packets per second	N/A	Unsigned integer. Value range: 1 to 2^{64}-1	N/A
SimpleDownPackets	Simple down packets per second	N/A	Unsigned integer. Value range: 1 to 2^{64}-1	N/A
SimpleTotalPackets	Simple total packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
SimplePacketsPercent	Percent of packets per second in simple constant values	N/A	Unsigned integer Value range: 0 to 100	N/A
SimpleConstantName	Name of simple constant data	N/A	String. Length: 1 to 63 characters	N/A
DetailConstantValues	Detailed constant value list	N/A	Members include: • DetailUpBps • DetailDownBps • DetailTotalBps • DetailBpsPercent • DetailUpPackets • DetailDownPackets • DetailTotalPackets • DetailPacketsPercent • DetailConstantName	N/A
DetailUpBps	Detailed up bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailDownBps	Detailed down bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailTotalBps	Detailed total bytes per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailBpsPercent	Percent of bytes per second in detailed constant values	N/A	Unsigned integer Value range: 0 to 100	N/A
DetailUpPackets	Detailed up packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailDownPackets	Detailed down packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailTotalPackets	Detailed total packets per second	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
DetailPacketsPercent	Percent of packets per second in	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	detailed constant values		Value range: 0 to 2^{64}-1	
DetailConstantName	Name of detailed constant data	N/A	String. Length: 1 to 63 characters	N/A

NTOP/VisualizationView

This table contains information about visualization view.

XML structure

```
<NTOP>
  <VisualizationView>
    <View>
      <ID></ID>
      <UserID></UserID>
      <TopNo></TopNo>
      <ContextName></ContextName>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <SelectJSON></SelectJSON>
      <WhereJSON></WhereJSON>
      <GroupByJSON></GroupByJSON>
      <OrderByJSON></OrderByJSON>
      <ResultJSON></ResultJSON>
    </View>
  </VisualizationView>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	VisualizationView
Table type	Multi-instance table
Row name	View
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
TopNo	Number of the top ranking entries	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 15 characters	For OrderByJSON and GroupByJSON.
SubName	Subfeature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
TimeFilter	Time range to filter data	Data structure	Members include: • StartTime EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
SelectJSON	Selected columns	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
WhereJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
GroupByJSON	Grouping criteria	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
OrderByJSON	Order by information	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
ResultJSON	Result	N/A	String, case insensitive Length: 1 to 2047 characters	N/A

NTOP/VisualizationTrend

This table contains information about visualization trend.

XML structure

```
<NTOP>
  <VisualizationTrend>
    <Trend>
      <ID></ID>
      <UserID></UserID>
      <ContextName></ContextName>
      <FeatureName></FeatureName>
      <SubName></SubName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <ViewJSON></ViewJSON>
      <SelectJSON></SelectJSON>
      <WhereJSON></WhereJSON>
      <MainColName></MainColName>
      <ResultJSON><ResultJSON>
    </Trend>
  </VisualizationTrend>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	VisualizationTrend
Table type	Multi-instance table
Row name	Trend
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	Used to distinguish different requests.
ContextName	Name of the context.	N/A	String, case insensitive Length: 1 to 15	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters	
FeatureName	Feature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SubName	Subfeature name	N/A	String, case insensitive Length: 1 to 15 characters	N/A
TimeFilter	Time range to filter data	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ViewJSON	View information	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
SelectJSON	Selected columns	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
WhereJSON	Filter conditions	N/A	String, case insensitive Length: 1 to 2047 characters	N/A
MainColName	Group by column name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
ResultJSON	Result	N/A	String, case insensitive Length: 1 to 2047 characters	N/A

NTOP/ExportTemplates

This table contains export template information.

XML structure

```
<NTOP>
```

```
  <ExportTemplates>
    <ExportTemplate>
      <Name></Name>
      <Predefined></Predefined>
      <Language></Language>
      <ReportTitle></ReportTitle>
      <FileTypes>
         <FileType></FileType>
      </FileTypes>
      <ContentTypes>
         <ContentType></ContentType>
      </ContentTypes>
      <ModuleType></ModuleType>
      <LinkStaticsType></LinkStaticsType>
      <VirtualServerStaticsType></VirtualServerStaticsType>
      <RealServerStaticsType></RealServerStaticsType>
      <ServerFarmStaticsType></RealFarmStaticsType>
      <RealServerMemberStaticsType></RealServerMemberStaticsType>
      <LinkModuleList>
        <LinkName></LinkName>
      </LinkModuleList>
      <VirtualServerModuleList>
        <VirtualServerName></VirtualServerName>
      </VirtualServerModuleList>
      <RealServerModuleList>
        <RealServerName></RealServerName>
      </RealServerModuleList>
      <ServerFarmModuleList>
        <ServerFarmName></ServerFarmName>
      </ServerFarmModuleList>
      <RealServerMemberModuleList>
        <ServerFarm></ServerFarm>
        <RealServer></RealServer>
        <Port></Port>
      </RealServerMemberModuleList>
    </ExportTemplate>
  </ExportTemplates>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTemplates
Table Type	Multi-instance table

Row name	Constant
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of export template	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Predefined	Predefined	N/A	• true • false(Default) This column is supported only on Comware 9 in the current software version.	N/A
Language	Type of language	N/A	Enumeration: • **0**—English • **1**—Chinese	N/A
ReportTitle	Report title	N/A	String, case-insensitive. Length: 1 to 42 characters. This column is supported only on Comware 9 in the current software version.	N/A
FileTypes	File types	N/A	Members include: FileType. This column is supported only on Comware 9 in the current software version.	N/A
FileType	File type	N/A	Enumeration: • **0**—PDF (default). • **1**—HTML. This column is supported only on Comware 9 in the current software version.	N/A
ContentTypes	ContentTypes	N/A	Members include: ContentType This column is supported only on Comware 9 in the current software version.	N/A
ContentType	Type of exported report content	N/A	String, case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 9 in the current software version.	N/A
ModuleType	Module name	N/A	Unsigned integer • Value range: 1 to 31 This column is supported only on Comware 7 in the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			current software version.	
LinkStaticsType	Link statistics type	N/A	Unsigned integer • Value range: 1 to 127 This column is supported only on Comware 7 in the current software version.	N/A
VirtualServerStaticsType	Virtual server statistics type	N/A	Unsigned integer • Value range: 1 to 63 This column is supported only on Comware 7 in the current software version.	N/A
RealServerStaticsType	Real server statistics type	N/A	Unsigned integer • Value range: 1 to 3 This column is supported only on Comware 7 in the current software version.	N/A
ServerFarmStaticsType	Server farm statistics type	N/A	Unsigned integer • Value range: 1 This column is supported only on Comware 7 in the current software version.	N/A
RealServerMemberStaticsType	Real server member statistics type	N/A	Unsigned integer • Value range: 1 to 3 This column is supported only on Comware 7 in the current software version.	N/A
LinkModuleList	Exported link statistics	Data structure	Members include: Exported statistics of links This column is supported only on Comware 7 in the current software version.	N/A
LinkName	Link name	N/A	String, case-insensitive • Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A.
VirtualServerModuleList	Exported virtual server statistics.	Data structure	Members include: Exported statistics of virtual servers This column is supported only on Comware 7 in the current software version.	N/A
VirtualserverName	Virtual server name	N/A	String, case-insensitive • Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A..
RealServerModu	Exported real server	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
leList	statistics.	structure	Exported statistics of real servers This column is supported only on Comware 7 in the current software version.	
RealServerName	Real server name	N/A	String, case-insensitive • Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A.
ServerFarmModuleList	Exported server farm statistics.	Data structure	Members include: Exported statistics of server farms This column is supported only on Comware 7 in the current software version.	N/A
ServeFarmName	Server farm name	N/A	String, case-insensitive. • Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A.
RealServeMemberModuleList	Exported real server member	Data structure	Members include: Exported statistics of real server members This column is supported only on Comware 7 in the current software version.	N/A
ServerFarm	Server farm name	N/A	String, case-insensitive • Length: 1 to 63 characters. This column is supported only on Comware 7 in the current software version.	N/A.
RealServer	Real server name	N/A	String, case-insensitive • Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A.
Port	Port number	N/A	Unsigned integer • Value range: 1 to 65535 This column is supported only on Comware 7 in the current software version.	N/A.

NTOP/AutoExportReports

This table contains report export configuration information.

XML structure

```
<NTOP>
  <AutoExportReports>
    <AutoExportReport>
      <Type></Type>
      <Subscriber></Subscriber>
      <Period></Period>
      <ExportTemplateName></ExportTemplateName>
      <EmailServer></EmailServer>
      <EmailRecipients></EmailRecipients>
    </AutoExportReport>
  </AutoExportReports>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	AutoExportReports
Table type	Multi-instance table
Row name	AutoExportReport
Restrictions	Only period export module static info can be gotten by this table.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Type	Type of the subscriber	Index	Enumeration: • **0**—Local • **1**—Email	N/A
Period	Export frequency	Index	Enumeration: • **1**—Hour • **2**—Day • **3**—Week • **4**—Month • **5**—Quarter • **6**—Year	N/A
ExportTemplateName	Export template name	Index	String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters This column is supported only on Comware 7 in the current software version.	
ExportTemplateName	Export template name	N/A	String, case-insensitive Length: 1 to 63 characters This column is supported only on Comware 9 in the current software version.	N/A
Subscriber	Email address for exporting reports	Index	String, case-sensitive Length: 3 to 63 characters This column is supported only on Comware 7 in the current software version.	N/A
EmailServer	Email server name	Index	case-insensitive. Length: 1 to 63 characters. This column is supported only on Comware 9 in the current software version.	This column has validity in subscriber process. You must configure if the type is Email.
EmailRecipients	Email address for exporting reports	Index	String, case-sensitive. Length: 3 to 303 characters. This column is supported only on Comware 9 in the current software version.	You can configure null if the type is Email.

NTOP/ReportFileList

This table contains exported report file list.

XML structure

```
<NTOP>
  <ReportFileList>
    <ReportFile>
     <UserID></UserID>
```

```
      <ID></ID>
      <ContextID></ContextID>
      <VsysID></VsysID>
      <FileName></FileName>
      <CreateTime></CreateTime>
      <Size></Size>
    </ReportFile>
  </ReportFileList>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportFileList
Table type	Multi-instance table
Row name	ReportFile
Restrictions	Only exported report file list can be obtained by this table. This table is supported only on Comware 9 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the exported report file	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CreateTime	Creation time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Size	Size of the file	N/A	Unsigned Long. Value range: 0 to 2^64 -1 (bytes).	N/A
UserID	User ID	Index	Unsigned integer.	N/A
ID	File ID	Index	Unsigned integer.	N/A
ContextID	Context ID	N/A	Unsigned integer. Value range: 0 to 65535. Value 0, 1, or null represents the default context.	N/A
VsysID	vSystem ID	N/A	Unsigned integer. Value range: 0 to 4095. Value 0, 1, or null	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			represents the default vSystem.	

NTOP/CustomDisplayRules

This table contains the data range that can be obtained.

XML structure

```
<NTOP>
  <CustomDisplayRules>
    <CustomDisplayRule>
      <DataRange></DataRange>
    </CustomDisplayRule>
  </CustomDisplayRules>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	CustomDisplayRules
Table type	Multi-instance table
Row name	CustomDisplayRule
Restrictions	This table is supported only on Comware 9 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions
DataRange	Data range	N/A	Enumeration: • **0**—All vSystems. • **1**—The current vSystem.

NTOP/AuditLog

This table contains AuditLog information.

XML structure

```
<NTOP>
  <AuditLog>
    <Log>
      <ID></ID>
      <LogType></LogType>
      <UserID></UserID>
      <Page></Page>
      <PageCount></PageCount>
      <CountPerPage></CountPerPage>
      <FilterCount></FilterCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <Time></Time>
      <Action></Action>
      <User></User>
      <UserGroup></UserGroup>
      <SrcIPAddr></SrcIPAddr>
      <DestIPAddr></DestIPAddr>
      <Terminal></Terminal>
      <System></System>
      <Application></Application>
      <ApplicationName></ApplicationName>
      <Behavior></Behavior>
      <Account></Account>
      <Content></Content>
      <Sender></Sender>
      <Recipient></Recipient>
      <Theme></Theme>
      <FileName></FileName>
      <FileSize></FileSize>
      <Keyword></Keyword>
      <KeywordGroup></KeywordGroup>
      <GroupValue>
        <Account></Account>
        <Content></Content>
        <Sender></Sender>
        <Recipient></Recipient>
        <Theme></Theme>
        <FileName></FileName>
        <Keyword></Keyword>
        <KeywordGroup></KeywordGroup>
      </GroupValue>
      <VNI></VNI>
      <VlanID></VlanID>
```

```
      <SrcLocation></SrLocation>
      <SrcLocationCN></SrLocationCN>
      <DstLocation></DstLocation>
      <DstLocationCN></DstLocationCN>
      <TotalCount></TotalCount>
      <FilterTotalCount></FilterTotalCount>
      <IsActualNum></IsActualNum>
      <CacheJSON></CacheJSON>
      <ResultCacheJSON></ResultCacheJSON>
    </Log>
  </AuditLog>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	AuditLog
Table type	Multi-instance table
Row name	Log
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Log ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
LogType	Log Type	Index	Enumeration: • **1**—IM • **2**—Mail • **3**—Community • **4**—SearchEngine • **5**—FileTrans • **6**—Entertainment • **7**—Other.	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests
Page	Current page number	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
PageCount	Number of pages to display	N/A	Unsigned integer	N/A
CountPerPage	A number of logs per page	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterCount	The number of times the filter is obtained.	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TimeFilter	Statistic time interval	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
Time	Log time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
Action	Log handling Action	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
User	User of the Log	Data structure	String, case insensitive Length:1 to 55 characters	IPv4 or IPv6 address.
UserGroup	UserGroup of the Log	N/A	String: Length:1 to 63 characters Case insensitive	N/A
SrcIPAddr	Source IP Address	N/A	String, case insensitive Length:1 to 46 characters	IPv4 or IPv6 address.
DestIPAddr	Dest IP Address	N/A	String, case insensitive Length:1 to 46 characters	N/A
Terminal	Terminal	N/A	String, case insensitive Length:1 to 31 characters	N/A
System	System	N/A	String, case insensitive Length:1 to 31 characters	N/A
Application	Application	N/A	The application is defined By AUDIT/AppCategoryMembers table.	If there is no aplication in the AUDIT/AppCategoryMembers table,it will be represented by ApplicationName.
ApplicationName	Application Name	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Behavior	Behavior	N/A	Unsigned integer Value range: 0 to 2^{32}-1. The Behavior is defined By AUDIT/Behaviors table	N/A
Account	Account	N/A	String, case insensitive Length:1 to 31 characters	If LogType is 2 and 4,This column dose not exist.
Content	Content	N/A	String, case insensitive Length:1 to 511 characters	If LogType is 3,This column dose not exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
Sender	Sender	N/A	String, case insensitive Length:1 to 63 characters	This column only exists when the LogType is 4.
Recipient	Recipient	N/A	String, case insensitive Length:1 to 127 characters	This column only exists when the LogType is 4.
Theme	Theme	N/A	String, case insensitive Length:1 to 127 characters	This column only exists when the LogType is 4.
FileName	FileName	N/A	String, case insensitive Length:1 to 63 characters	This column only exists when the LogType is 3.
FileSize	FileSize	N/A	String, case insensitive Length:1 to 15 characters	This column only exists when the LogType is 2.
Keyword	Keyword	N/A	String, case insensitive Length:1 to 95 characters	This column only exists when the LogType is 2.
KeywordGroup	Keyword Group	N/A	String, case insensitive Length:1 to 63 characters	This column only exists when the LogType is 2.
GroupValue	GroupValue	Data structure	Members include: • Account • Content • Sender • Recipient • Theme • FileName • Keyword • KeywordGroup	N/A
Account	Account	N/A	String, case insensitive Length:1 to 31 characters	N/A
Content	Content	N/A	String, case insensitive Length:1 to 511 characters	N/A
Sender	Sender	N/A	String, case insensitive Length:1 to 31 characters	N/A
Recipient	Recipient	N/A	String, case insensitive Length:1 to 127 characters	N/A
Theme	Theme	N/A	String, case insensitive Length:1 to 127 characters	N/A
FileName	FileName	N/A	String, case insensitive Length:1 to 63 characters	N/A.
Keyword	Keyword	N/A	String, case insensitive Length:1 to 95 characters	N/A
KeywordGroup	Keyword Group	N/A	String, case insensitive Length:1 to 63 characters	N/A
VNI	Vxlan ID	N/A	Unsigned integer Value range: 0 to 2^{32-1}	N/A
VlanID	Vlan ID	N/A	Unsigned integer Value range: 0 to 2^{32-1}	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcLocation	Source location	N/A	String, case insensitive Length:1 to 127 characters	N/A
SrcLocationCN	Source location chinese	N/A	String, case insensitive Length:1 to 127 characters	N/A
DstLocation	Destination location	N/A	String, case insensitive Length:1 to 127 characters	N/A
DstLocationCN	Destination location chinese	N/A	String, case insensitive Length:1 to 127 characters	N/A
TotalCount	Total Count of the Log.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
FilterTotalCount	The total number of entries found according to the conditions	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
IsActualNum	Whether the TotalCount is the actual total number of logs	N/A	Boolean: • True • false	N/A
CacheJSON	Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A
ResultCacheJSON	Result of Cache JSON	N/A	String, case insensitive Length: 1 to 2048 characters	N/A

NTOP/UserStatistics

This table statistics the number of users of various types of log in the specified time.

XML structure

```
<NTOP>
  <UserStatistics>
    <Statistics>
      <User></User>
      <UserGroup></UserGroup>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <IMCount></IMCount>
      <CommunityCount></CommunityCount>
      <SearchEngineCount></SearchEngineCount>
```

```
      <FileTransCount></FileTransCount>
      <MailCount></MailCount>
      <EntertainmentCount></EntertainmentCount>
      <OtherCount></OtherCount>
      <Page></Page>
      <CountPerPage></CountPerPage>
      <TotalCount></TotalCount>
    </Statistics>
  </UserStatistics>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	UserStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
User	User of the Log	Index	String, case insensitive Length:1 to 55 characters	N/A
UserGroup	UserGroup of the Log	Index	String, case insensitive Length:1 to 63 characters	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests
TimeFilter	Statistic time interval	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
IMCount	Number of IMlogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CommunityCount	Number of Communitylogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
SearchEngineCount	Number of SearchEnginelogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
FileTransCount	Number of FileTranslogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
MailCount	Number of Maillogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
EntertainmentCount	Number of Entertainmentlogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
OtherCount	Number of Otherlogs generated by a user at a specified time	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
Page	The number of pages	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
CountPerPage	A number of logs per page	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TotalCount	Total Count of the Log.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A

NTOP/AuditStatistics

This table contains the audit log statistics information.

XML structure

```
<NTOP>
  <AuditStatistics>
    <Statistics>
      <GroupType></GroupType>
      <UserID></UserID>
      <ID></ID>
      <LogType></LogType>
```

```
      <Page></Page>
      <CountPerPage></CountPerPage>
      <TotalCount></TotalCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <MatchFilter>
        <User></User>
        <UserGroup></UserGroup>
        <Application></Application>
      </MatchFilter>
      <GroupValue>
        <User></User>
        <UserGroup></UserGroup>
        <Account></Account>
        <Application></Application>
        <Behavior></Behavior>
        <Content></Content>
        <Time></Time>
      </GroupValue>
    </Statistics>
  </AuditStatistics>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	AuditStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	This table is supported only on Comware 7 in the current software version.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
GroupType	Statistic type	Index	Unsigned integer 0: User 1: UserGroup 2: Application 3: Behavior 4:BhContent 5:Account	Set form representation,For example,If Statistics by the User and Application,The GroupType is 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
			6:Time	
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests
ID	Log ID	Index	Unsigned integer Value range: 1 to 2^{32}-1	N/A
LogType	Log Type	Index	Enumeration: • **1**—IM • **2**—Mail • **3**—Community • **4**—SearchEngine • **5**—FileTrans • **6**—Entertainment • **7**—Other.	N/A
Page	The number of pages	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
CountPerPage	A number of logs per page	N/A	Unsigned integer Value range: 1 to 2^{32}-1	N/A
TotalCount	Total Count of the Log.	N/A	Unsigned integer Value range: 0 to 2^{32}-1	N/A
TimeFilter	Statistic time interval	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	MatchFilter	Data structure	Members include: • User • UserGroup Application.	N/A
User	User	N/A	String, case insensitive Length:1 to 55 characters	N/A
UserGroup	URL Category	N/A	String, case insensitive Length:1 to 63 characters	N/A
Application	Application	N/A	The application is defined By AUDIT/AppCategoryMembers table.	N/A
GroupValue	GroupValue	Data structure	Members include: • User • UserGroup • Application • Account	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Behavior • Content • Time	
User	User	N/A	String, case insensitive Length:1 to 55 characters	N/A
UserGroup	URL Category	N/A	String, case insensitive Length:1 to 63 characters	N/A
Application	Application	N/A	Unsigned integer Value range: 1 to 2^{32}-1. The application is defined By AUDIT/AppCategoryMembers table.	N/A
Account	Account	N/A	String, case insensitive Length:1 to 31 characters	N/A
Behavior	Behavior	N/A	Unsigned integer Value range: 1 to 2^{32}-1. The Behavior is defined By AUDIT/Behaviors table.	N/A
Content	Content	N/A	String, case insensitive Length:1 to 1024 characters	N/A
Time	Log time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ReportTopN

This table is used to set how many iterms will be taken when a certain report is generated during report subscription.

XML structure

```
<NTOP>
  <ReportTopN>
    <TopN>
      <ReportType></ReportType>
      <TopCount></TopCount>
    </TopN>
  </ReportTopN>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ReportTopN
Table type	Multi-instance table
Row name	TopN
Restrictions	The value only can be set as 5,10,15,20,25. This table is supported only on Comware 7 in the current software version.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: • **1**—Period report • **2**—Comparison report • **3**—Intelligent report • **4**—Integrated report	N/A
TopCount	The number of iterms	N/A	Enumeration: • **5** • **10** • **15** • **20** • **25**	N/A

Contents

Comware 7 NTOP NETCONF XML API Error Message Reference ····· 2
Ntop/PersistDiskCfg ····· 2
Ntop /PlatformLogAction ····· 2

Comware 7 NTOP NETCONF XML API Error Message Reference

Ntop/PersistDiskCfg

Message	Explanation
Failed to set the usage limit because the system could not bring the storage usage below the limit. 操作失败，上限值低于当前已用值。	The specified usage limit value is less than the storage usage. 当配置的存储空间小于当前已用空间提示

Ntop /PlatformLogAction

Message	Explanation
Failed to export logs due to insufficient storage space. 设备空间不足，导出失败。	The size of the log file exported is larger than the storage space. 导出的日志文件大小大于设备空间大小。
Failed to export logs. Please check whether the service is enabled. 文件导出失败，请检查业务功能是否已启用。	The service may not start (cannot get the register information). 相关业务没有启动（无法获取注册信息）。
Failed to decompress file. 解压缩失败。	Decompressing file failed. 文件解压失败。
Failed to verify the file. 文件校验失败。	The log file exported is modified. 导出的日志文件被修改。
Failed to import logs. Please check whether the service is enabled. 文件导入失败，请检查业务功能是否已启用。	The service may not start (cannot get the register information). 相关业务没有启动（无法获取注册信息）。

Contents

NTP 1
NTP/Clients 1
XML structure 1
Table description 1
Columns 2
NTP/AuthenticationKey 3
XML structure 3
Table description 3
Columns 4
NTP/Service 4
XML structure 4
Table description 5
Columns 6
NTP/RefClocks 10
XML structure 10
Table description 11
Columns 11
NTP/MulticastClients 11
XML structure 11
Table description 11
Columns 12
NTP/MulticastServers 12
XML structure 12
Table description 13
Columns 13
NTP/Interfaces 13
XML structure 14
Table description 14
Columns 14
NTP/SNTPInterfaces 15
XML structure 15
Table description 16
Columns 16

NTP

NTP/Clients

This table contains NTP client information.

XML structure

```
<NTP>
  <Clients>
    <Client>
      <Service></Service>
      <VRF></VRF>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <HostName></HostName>
      <HostMode></HostMode>
      <IfIndex></IfIndex>
      <KeyID></KeyID>
      <Version></Version>
      <Priority></Priority>
      <MaxPollInterval></MaxPollInterval>
      <MinPollInterval></MinPollInterval>
    </Client>
  </Clients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: • **1**—NTP**.** • **2**—SNTP.	N/A
VRF	VRF	Index	String. Length: 0 to 31 characters.	It can be empty when it represents a public VRF instance.
AddressType	Address type.	Index	Enumeration: • **1**—IPv4 • **2**—IPv6	N/A
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1::1.\ HostName and IP address cannot be specified at the same time.
HostName	Host name	Index	String. Length: 1 to 253 characters.	HostName and IP address cannot be specified at the same time .
HostMode	Client mode	Index	Enumeration: • **1**—Symmetric active. • **3**—Client.	The symmetric active mode is available only for NTP.
IfIndex	Source interface index.	N/A	Unsigned integer.	This column supports only Layer 3 interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column specifies the key used for calculating the packet digest when the local end sends NTP messages to the peer.
Version	NTP version	N/A	Unsigned integer. Value range: 1 to 4 Default value: 4	This column is available only for IPv4 address entries, and not available for IPv6 address entries.
Priority	Whether the specified peer is the first choice under the same condition.	N/A	Boolean: • true. • false (default).	Priority true is available only for NTP.
MaxPollInterval	Maximum polling interval	N/A	Unsigned integer. Value range: 4 to 17, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			NTP Default value: 10. SNTP Default value: 6	
MinPollInterval	Minimum polling interval	N/A	Unsigned integer. Value range: 4 to 17, in seconds. NTP Default value: 6 SNTP Default value: 6	N/A

NTP/AuthenticationKey

This table contains information about NTP authentication.

XML structure

```
<NTP>
  <AuthenticationKey>
    <Authentication>
      <Service></Service>
      <KeyID></KeyID>
      <AuthMode></AuthMode>
      <AuthKey></AuthKey>
      <AclNumber></AclNumber>
      <IPv6AclNumber></IPv6AclNumber>
      <Reliable></Reliable>
    </Authentication>
  </AuthenticationKey>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	AuthenticationKey
Table type	Multi-instance table
Row name	Authentication
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: • **1**—NTP. • **2**—SNTP.	N/A
KeyID	Key ID	Index	Unsigned integer. Value range: 1 to 4294967295.	This column is used to identify an authentication key.
AuthMode	Authentication mode	N/A	Enumeration: • **1**—MD5**.** • **2**—HMAC-SHA-1. • **3**—HMAC-SHA-256. • **4**—HMAC-SHA-384. • **5**—HMAC-SHA-512.	For the create,merge and replace operations, if the AuthMode is not configured and the AuthKey is configured, the AuthMode value is equivalently set to 1.
AuthKey	Key content	N/A	String. Length: 1 to 32 characters.	Plain text key calculated by using the MD5 algorithm for authentication.
AclNumber	ACL Number	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AclNumber	IPv6 ACL Number	N/A	Unsigned integer. Value range: 2000 to 2999..	N/A
Reliable	Whether the key is a trusted key.	N/A	Boolean: • true. • false (default).	For the delete and remove operations, if both the AuthMode and AuthKey are configured, the Reliable value will be deleted.

NTP/Service

This table contains NTP service information.

XML structure

```
<NTP>
  <Service>
    <NTPEnable></NTPEnable>
    <SNTPEnable></SNTPEnable>
    <NTPAuthEnable></NTPAuthEnable>
    <SNTPAuthEnable></SNTPAuthEnable>
    <NTPSource></NTPSource>
    <NTPIpv6Source></NTPIpv6Source>
```

```
    <NTPMaxDynamicSession></NTPMaxDynamicSession>
    <NTPDscp></NTPDscp>
    <NTPIpv6Dscp></NTPIpv6Dscp>
    <NTPTimeOffsetThreshold>
      <LogThreshold></LogThreshold>
      <TrapThreshold></TrapThreshold>
    </NTPTimeOffsetThreshold>
    <SNTPTimeOffsetThreshold>
      <LogThreshold></LogThreshold>
      <TrapThreshold></TrapThreshold>
    </SNTPTimeOffsetThreshold>
    <NTPAcl>
      <PeerAcl></PeerAcl>
      <ServerAcl></ServerAcl>
      <SyncAcl></SyncAcl>
      <QueryAcl></QueryAcl>
      <PeerAclName></PeerAclName>
      <ServerAclName></ServerAclName>
      <SyncAclName></SyncAclName>
      <QueryAclName></QueryAclName>
    </NTPAcl>
    <NTPIpv6Acl>
      <PeerAcl></PeerAcl>
      <ServerAcl></ServerAcl>
      <SyncAcl></SyncAcl>
      <QueryAcl></QueryAcl>
      <PeerAclName></PeerAclName>
      <ServerAclName></ServerAclName>
      <SyncAclName></SyncAclName>
      <QueryAclName></QueryAclName>
    </NTPIpv6Acl>
    <NoQuery></NoQuery>
    <NTPTimeServer></NTPTimeServer>
    <NTPIpv6TimeServer></NTPIpv6TimeServer>
  </Service>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Service
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPEnable	Whether to enable the NTP service.	N/A	Boolean: • true. • false (default).	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: • true. • false (default).	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: • true. • false (default).	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication function.	N/A	Boolean: • true. • false (default).	N/A
NTPSource	NTP source interface index	N/A	Unsigned integer	Available only for Layer 3 interfaces.
NTPIpv6Source	Source interface for IPv6 NTP Packet	N/A	Unsigned integer.	If no source interface is specified for IPv6 NTP packet the device automatically selects a source IPv6 address for the IPv6 NTP packets.For more information see RFC 3484.
NTPMaxDynamicSession	Maximum number of dynamic NTP sessions	N/A	Unsigned integer Value range: 0 to 100 Default: 100	The device can have a maximum of 128 concurrent associations, including static associations and dynamic associations.
NTPDscp	DSCP value for IPv4 NTP packets.	N/A	Unsigned integer. Value range: 0 to 63. Default: 48	The DSCP value is included in the ToS field of an IPv4 packet to identify the packet priority.
NTPIpv6Dscp	DSCP value for IPv6 NTP packets.	N/A	Unsigned integer. Value range: 0 to 63. Default: 56	The DSCP value is included in the Traffic Class field of an IPv6 packet to identify the packet priority.
NTPTimeOffsetThreshold	NTP time-offset	N/A	Options include: • LogThreshold	By default, when the time offset between an NTP

Column name	Column description	Column type	Data type and restrictions	Remarks
	thresholds for log and trap outputs.		• TrapThreshold	client and its reference source exceeds 128 ms, the NTP client synchronizes its time to its reference source.
LogThreshold	NTP time-offset thresholds for log output.	N/A	Unsigned integer. Value range: 128 to 60000	N/A
TrapThreshold	NTP time-offset thresholds for trap output.	N/A	Unsigned integer. Value range: 128 to 60000	N/A
SNTPTimeOffsetThreshold	SNTP time-offset thresholds for log and trap outputs.	Data structure	Options include: • LogThreshold • TrapThreshold	By default, when the time offset between an SNTP client and its reference source exceeds 128 ms, the SNTP client synchronizes its time to its reference source.
LogThreshold	SNTP time-offset thresholds for log output.	N/A	Unsigned integer. Value range: 128 to 60000	N/A
TrapThreshold	SNTP time-offset thresholds for trap output.	N/A	Unsigned integer. Value range: 128 to 60000	N/A
NTPAcl	Right for peer devices to access the NTP services on the local device.	N/A	Options include: • PeerAcl • ServerAcl • SyncAcl • QueryAcl • PeerAclName • ServerAclName • SyncAclName • QueryAclName	N/A
PeerAcl	Allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
ServerAcl	Allows time requests and NTP control queries from a peer device, but does not allow the local	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device to synchronize itself to a peer device.			
SyncAcl	Allows only time requests from a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
QueryAcl	Allows only NTP control queries from a peer device to the local device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
PeerAclName	Specifies the peer access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The peer access right allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
ServerAclName	Specifies the server access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The server access right allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
SyncAclName	Specifies the synchronization access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The synchronization access right allows only time requests from a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
QueryAclName	Specifies the query access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The query access right allows only NTP control queries from a peer device to the local device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
NTPIpv6Acl	Right for peer devices to access the NTP services on the local device.	N/A	Members include: • PeerAcl • ServerAcl • SyncAcl • QueryAcl • PeerAclName	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ServerAclName • SyncAclName • QueryAclName	
PeerAcl	Allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
ServerAcl	Allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
SyncAcl	Allows only time requests from a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
QueryAcl	Allows only NTP control queries from a peer device to the local device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
PeerAclName	Specifies the peer access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The peer access right allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
ServerAclName	Specifies the server access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The server access right allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
SyncAclName	Specifies the synchronizatio	N/A	String, case insensitive.	The synchronization access right allows only

Column name	Column description	Column type	Data type and restrictions	Remarks
	n access right and name of the IPv6 ACL applied for this access right.		Length: 1 to 63 characters.	time requests from a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
QueryAclName	Specifies the query access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The query access right allows only NTP control queries from a peer device to the local device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
NoQuery	Disable the NTP control queries permission.	N/A	Boolean: • true. • false (default).	The column provides a way to turn off NTP control query function in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).
NTPTimeServer	Enable the NTP time server	N/A	Boolean: • true • false	The column provides a way to turn off NTP time server in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).
NTPIpv6TimeServer	Enable the NTP Ipv6 time server	N/A	Boolean: • true • false	The column provides a way to turn off NTP Ipv6 time server in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).

NTP/RefClocks

This table contains NTP reference clock information.

XML structure

```
<NTP>
  <RefClocks>
    <RefClock>
      <RefID></RefID>
      <Stratum></Stratum>
    </RefClock>
  </RefClocks>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	RefClocks
Table type	Multi-instance table
Row name	RefClock
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RefID	Reference Clock ID.	Index	String, dotted decimal notation 127.127.1.u, where u is in the range of 0 to 3.	N/A
Stratum	Stratum level of the local clock.	N/A	Unsigned integer. Value range: 1 to 15.	A lower stratum level represents a higher clock accuracy.

NTP/MulticastClients

This table contains NTP multicastclients information.

XML structure

```
<NTP>
  <MulticastClients>
    <MulticastClient>
      <IfIndex></IfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
    </MulticastClient>
  </MulticastClients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	MulticastClients
Table type	Multi-instance table

Item	Description
Row name	MulticastClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
AddressType	Address type	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. Default: 224.0.1.1. IPv6: Hexadecimal string, colon-separated.	N/A

NTP/MulticastServers

This table contains NTP multicastservers information.

XML structure

```
<NTP>
  <MulticastServers>
    <MulticastServer>
      <IfIndex></IfIndex>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <KeyID></KeyID>
      <Ttl></Ttl>
      <Version></Version>
    </MulticastServer>
  </MulticastServers>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	MulticastServers
Table type	Multi-instance table
Row name	MulticastServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
AddressType	Address type	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
IpAddress	Remote IPv4 or IPv6 address.	Index	Unsigned integer. Value range: IPv4 or IPv6.Default value: 224.0.1.1	N/A
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	If this parameter is not specified, the local device cannot synchronize the multicast client with authentication enabled.
Ttl	Lifetime of multicast packets.	N/A	Unsigned integer. Value range: 1 to 255. Default value: 16.	N/A
Version	NTP version number.	N/A	Unsigned integer. Value range: 1 to 4. Default value: 4.	N/A

NTP/Interfaces

This table contains NTP interfaces information.

XML structure

```
<NTP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Ipv4Inbound></Ipv4Inbound>
      <Ipv6Inbound></Ipv6Inbound>
      <BroadcastClient>
        <Enable></Enable>
      </BroadcastClient>
      <BroadcastServer>
        <Enable></Enable>
        <KeyID></KeyID>
        <Version></Version>
      </BroadcastServer>
    </Interface>
  </Interfaces>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
Ipv4Inbound	Enable an interface to receive NTP	N/A	Boolean: • true (default). • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	messages			
Ipv6Inbound	Enable an interface to receive NTP messages.	N/A	Boolean: • true (default). • false.	N/A
BroadcastClient	Configures the device to operate in NTP broadcast client mode.	N/A	Options include: • Enable.	The device listens to NTP messages sent by the NTP broadcast server and is synchronized based on the received NTP messages.
Enable	Enables broadcast client mode.	N/A	Boolean: • true. • false (default)	N/A
BroadcastServer	Configure the device to operatein NTP broadcast server mode	N/A	Options include: • Enable • KeyID • Version	N/A
Enable	Enables broadcast server mode.	N/A	Boolean: • true . • false (default) .	N/A
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	If this parameter is not specified, the local device cannot synchronize the broadcast client with authentication enabled.
Version	NTP version number	N/A	Unsigned integer. Value range: 1 to 4. Default: 4.	N/A

NTP/SNTPInterfaces

This table contains SNTP interfaces information.

XML structure

```
<NTP>
  <SNTPInterfaces>
    <SNTPInterface>
      <IfName></IfName>
      <BroadcastClient>
        <Enable></Enable>
      </BroadcastClient>
    </SNTPInterface>
  </SNTPInterfaces>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	SNTPInterfaces
Table type	Multi-instance table
Row name	SNTPInterface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
BroadcastClient	Configures the device to operate in SNTP broadcast client mode.	N/A	Options include: • Enable.	The device listens to NTP messages sent by the NTP broadcast server and is synchronized based on the received NTP messages.
Enable	Enables broadcast client mode.	N/A	Boolean: • true. • false (default)	N/A

Contents

NTP 1
NTP/Clients 1
XML structure 1
Table description 1
Columns 2
NTP/AuthenticationKey 3
XML structure 3
Table description 3
Columns 3
NTP/Service 4
XML structure 4
Table description 5
Columns 6
NTP/RefClocks 10
XML structure 10
Table description 10
Columns 11
NTP/Status 11
XML structure 11
Table description 11
Columns 11
NTP/MulticastClients 12
XML structure 12
Table description 12
Columns 12
NTP/MulticastServers 13
XML structure 13
Table description 13
Columns 14
NTP/Interfaces 14
XML structure 14
Table description 15
Columns 15
NTP/SNTPInterfaces 16
XML structure 16
Table description 16
Columns 17

NTP

NTP/Clients

This table contains NTP client information.

XML structure

```
<NTP>
  <Clients>
    <Client>
      <Service></Service>
      <VRF></VRF>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <HostName></HostName>
      <HostMode></HostMode>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <KeyID></KeyID>
      <Version></Version>
      <Priority></Priority>
      <MaxPollInterval></MaxPollInterval>
      <MinPollInterval></MinPollInterval>
    </Client>
  </Clients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: • **1**—NTP. • **2**—SNTP.	N/A
VRF	VRF	Index	String. Length: 0 to 31 characters.	It can be empty when it represents a public VRF instance.
AddressType	Address type.	Index	Enumeration: • **1**—IPv4 • **2**—IPv6	N/A
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1::1. HostName and IP address cannot be specified at the same time.
HostName	Host name	Index	String. Length: 1 to 253 characters.	HostName and IP address cannot be specified at the same time .
HostMode	Client mode	Index	Enumeration: • **1**—Symmetric active. • **3**—Client.	The symmetric active mode is supported only for NTP.
IfIndex	Source interface index.	N/A	Unsigned integer.	This column supports only Layer 3 interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column specifies the key used for calculating the packet digest when the local end sends NTP messages to the peer.
Version	NTP version	N/A	Unsigned integer. Value range: 1 to 4.	This column is available only for IPv4 address entries, and not available for IPv6 address entries.
Priority	Whether the specified peer is the first choice under the same condition.	N/A	Boolean: • true. • false.	Priority true is available only for NTP.
MaxPollInterv	Maximum	N/A	Unsigned integer.	Available only for NTP

Column name	Column description	Column type	Data type and restrictions	Remarks
al	polling interval		Value range: 4 to 17, in seconds.	(not available for SNTP).
MinPollInterval	Minimum polling interval	N/A	Unsigned integer. Value range: 4 to 17, in seconds.	Available only for NTP (not available for SNTP).

NTP/AuthenticationKey

This table contains information about NTP authentication.

XML structure

```
<NTP>
  <AuthenticationKey>
    <Authentication>
      <Service></Service>
      <KeyID></KeyID>
      <AuthMode></AuthMode>
      <AuthKey></AuthKey>
      <AclNumber></AclNumber>
      <IPv6AclNumber></IPv6AclNumber>
      <Reliable></Reliable>
    </Authentication>
  </AuthenticationKey>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	AuthenticationKey
Table type	Multi-instance table
Row name	Authentication
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: • **1**—NTP**.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—SNTP.	
KeyID	Key ID	Index	Unsigned integer. Value range: 1 to 4294967295.	This column is used to identify an authentication key.
AuthMode	Authentication mode	N/A	Enumeration: • **1**—MD5. • **2**—HMAC-SHA-1. • **3**—HMAC-SHA-256. • **4**—HMAC-SHA-384. • **5**—HMAC-SHA-512.	For the create,merge and replace operations, if the AuthMode is not configured and the AuthKey is configured, the AuthMode value is equivalently set to 1.
AuthKey	Key content	N/A	String. Length: 1 to 32 characters.	Plain text key calculated by using the MD5 algorithm for authentication.
AclNumber	ACL Number	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AclNumber	IPv6 ACL Number	N/A	Unsigned integer. Value range: 2000 to 2999..	N/A
Reliable	Whether the key is a trusted key.	N/A	Boolean: • true. • false.	For the delete and remove operations, if both the AuthMode and AuthKey are configured, the Reliable value will be deleted.

NTP/Service

This table contains NTP service information.

XML structure

```
<NTP>
  <Service>
    <NTPEnable></NTPEnable>
    <SNTPEnable></SNTPEnable>
    <NTPAuthEnable></NTPAuthEnable>
    <SNTPAuthEnable></SNTPAuthEnable>
    <NTPSource></NTPSource>
    <NTPIpv6Source></NTPIpv6Source>
    <NTPMaxDynamicSession></NTPMaxDynamicSession>
    <NTPDscp></NTPDscp>
    <NTPIpv6Dscp></NTPIpv6Dscp>
    <NTPTimeOffsetThreshold>
      <LogThreshold></LogThreshold>
```

```
      <TrapThreshold></TrapThreshold>
    </NTPTimeOffsetThreshold>
    <SNTPTimeOffsetThreshold>
      <LogThreshold></LogThreshold>
      <TrapThreshold></TrapThreshold>
    </SNTPTimeOffsetThreshold>
    <NTPAcl>
      <PeerAcl></PeerAcl>
      <ServerAcl></ServerAcl>
      <SyncAcl></SyncAcl>
      <QueryAcl></QueryAcl>
      <PeerAclName></PeerAclName>
      <ServerAclName></ServerAclName>
      <SyncAclName></SyncAclName>
      <QueryAclName></QueryAclName>
    </NTPAcl>
    <NTPIpv6Acl>
      <PeerAcl></PeerAcl>
      <ServerAcl></ServerAcl>
      <SyncAcl></SyncAcl>
      <QueryAcl></QueryAcl>
      <PeerAclName></PeerAclName>
      <ServerAclName></ServerAclName>
      <SyncAclName></SyncAclName>
      <QueryAclName></QueryAclName>
    </NTPIpv6Acl>
    <NoQuery></NoQuery>
    <NTPTimeServer></NTPTimeServer>
    <NTPIpv6TimeServer></NTPIpv6TimeServer>
  </Service>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Service
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPEnable	Whether to enable the NTP service.	N/A	Boolean: • true. • false.	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: • true. • false.	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: • true. • false.	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication function.	N/A	Boolean: • true. • false.	N/A
NTPSource	NTP source interface index.	N/A	Unsigned integer.	Available only for Layer 3 interfaces.
NTPIpv6Source	Specifies the source interface of IPv6 NTP Packet	N/A	Unsigned integer.	If the source interface of the IPv6 NTP packet is not specified, the device automatically selects the source IPv6 address of the packet. For details, see RFC 3484.
NTPMaxDynamicSession	Maximum number of dynamic NTP sessions.	N/A	Unsigned integer. Value range: 0 to 100.	The device can have a maximum of 128 concurrent associations, including static associations and dynamic associations.
NTPDscp	DSCP value for IPv4 NTP packets.	N/A	Unsigned integer. Value range: 0 to 63.	The DSCP value is included in the ToS field of an IPv4 packet to identify the packet priority.
NTPIpv6Dscp	DSCP value for IPv4 NTP packets.	N/A	Unsigned integer. Value range: 0 to 63.	It is used to reflect the priority level of the message itself and determine the priority of message transmission.
NTPTimeOffsetThreshold	NTP time-offset thresholds for log and trap outputs.	N/A	Options include: • LogThreshold. • TrapThreshold.	By default, when the time offset between an NTP client and its reference source exceeds 128 ms, the NTP client synchronizes its time to its reference source.
LogThreshold	NTP time-offset thresholds for	N/A	Unsigned integer. Value range: 128 to 60000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	log and trap outputs.			
TrapThreshold	NTP time-offset thresholds for trap outputs.	N/A	Unsigned integer. Value range: 128 to 60000.	N/A
SNTPTimeOffsetThreshold	SNTP time-offset thresholds for log and trap outputs.	Data structure	Options include: • LogThreshold. • TrapThreshold.	By default, when the time offset between an SNTP client and its reference source exceeds 128 ms, the SNTP client synchronizes its time to its reference source.
LogThreshold	SNTP time-offset thresholds for log output.	N/A	Unsigned integer. Value range: 128 to 60000.	N/A
TrapThreshold	SNTP time-offset thresholds for trap outputs.	N/A	Unsigned integer. Value range: 128 to 60000.	N/A
NTPAcl	Right for peer devices to access the NTP services on the local device.	N/A	Options include: • PeerAcl. • ServerAcl. • SyncAcl. • QueryAcl. • PeerAclName • ServerAclName • SyncAclName • QueryAclName	N/A
PeerAcl	Allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
ServerAcl	Allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
SyncAcl	Allows only time requests from a peer	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device.			
QueryAcl	Allows only NTP control queries from a peer device to the local device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
PeerAclName	Specifies the peer access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The peer access right allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
ServerAclName	Specifies the server access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The server access right allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
SyncAclName	Specifies the synchronization access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The synchronization access right allows only time requests from a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
QueryAclName	Specifies the query access right and name of the ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The query access right allows only NTP control queries from a peer device to the local device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
NTPIpv6Acl	Right for peer devices to access the NTP services on the local device.	N/A	Options include: • PeerAcl. • ServerAcl. • SyncAcl. • QueryAcl. • PeerAclName • ServerAclName • SyncAclName • QueryAclName	N/A
PeerAcl	Allows time requests and NTP control queries from a	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	peer device and allows the local device to synchronize itself to a peer device.			
ServerAcl	Allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
SyncAcl	Allows only time requests from a peer device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
QueryAcl	Allows only NTP control queries from a peer device to the local device.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
PeerAclName	Specifies the peer access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The peer access right allows time requests and NTP control queries from a peer device and allows the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
ServerAclName	Specifies the server access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The server access right allows time requests and NTP control queries from a peer device, but does not allow the local device to synchronize itself to a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
SyncAclName	Specifies the synchronization access right and name of the IPv6 ACL applied for this access right.	N/A	String, case insensitive. Length: 1 to 63 characters.	The synchronization access right allows only time requests from a peer device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
QueryAclName	Specifies the query access	N/A	String, case insensitive.	The query access right allows only NTP control

Column name	Column description	Column type	Data type and restrictions	Remarks
	right and name of the IPv6 ACL applied for this access right.		Length: 1 to 63 characters.	queries from a peer device to the local device. The ACL name must start with a letter, and to avoid confusion, it cannot be **all**.
NoQuery	Disable the NTP control queries permission.	N/A	Boolean: • true • false	The column provides a way to turn off NTP control query function in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).
NTPTimeServer	Enable the NTP time server	N/A	Boolean: • true • false	The column provides a way to turn off NTP time server in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).
NTPIpv6TimeServer	Enable the NTP Ipv6 time server	N/A	Boolean: • true • false	The column provides a way to turn off NTP Ipv6 time server in addition to the existing four restrictions(PeerAcl/ServerAcl/SyncAcl/QueryAcl).

NTP/RefClocks

This table contains NTP reference clock information.

XML structure

```
<NTP>
  <RefClocks>
    <RefClock>
      <RefID></RefID>
      <Stratum></Stratum>
    </RefClock>
  </RefClocks>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	RefClocks
Table type	Multi-instance table
Row name	RefClock
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RefID	Reference Clock ID.	Index	String, dotted decimal notation 127.127.1.u, where u is in the range of 0 to 3.	N/A
Stratum	Stratum level of the local clock.	N/A	Unsigned integer. Value range: 1 to 15.	A lower stratum level represents a higher clock accuracy.

NTP/Status

This table contains NTP status information.

XML structure

```
<NTP>
  <Status>
    <NTPSynchronized></NTPSynchronized>
    <SNTPSynchronized></SNTPSynchronized>
  </Status>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Status
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPSynchronized	Whether the NTP clock has been synchronized.	N/A	Boolean: • true. • false.	N/A
SNTPSynchronized	Whether the SNTP clock has been	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	synchronized			

NTP/MulticastClients

This table contains NTP multicastclients information.

XML structure

```
<NTP>
  <MulticastClients>
    <MulticastClient>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
    </MulticastClient>
  </MulticastClients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	MulticastClients
Table type	Multi-instance table
Row name	MulticastClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
AddressType	Address type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—IPv4. • **2**—IPv6.	
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A

NTP/MulticastServers

This table contains NTP multicastservers information.

XML structure

```
<NTP>
  <MulticastServers>
    <MulticastServer>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <KeyID></KeyID>
      <Ttl></Ttl>
      <Version></Version>
    </MulticastServer>
  </MulticastServers>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	MulticastServers
Table type	Multi-instance table
Row name	MulticastServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
AddressType	Address type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
IpAddress	Remote IPv4 or IPv6 address.	Index	Unsigned integer. Value range: IPv4 or IPv6.	N/A
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	If this parameter is not specified, the local device cannot synchronize the multicast client with authentication enabled.
Ttl	Lifetime of multicast packets.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Version	NTP version number.	N/A	Unsigned integer. Value range: 1 to 4.	N/A

NTP/Interfaces

This table contains NTP interfaces information.

XML structure

```
<NTP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Ipv4Inbound></Ipv4Inbound>
      <Ipv6Inbound></Ipv6Inbound>
      <BroadcastClient>
        <Enable></Enable>
      </BroadcastClient>
      <BroadcastServer>
```

```
        <Enable></Enable>
        <KeyID></KeyID>
        <Version></Version>
      </BroadcastServer>
    </Interface>
  </Interfaces>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Ipv4Inbound	Enable an interface to receive NTP messages.	N/A	Boolean: • true. • false.	N/A
Ipv6Inbound	Enable an interface to receive NTP messages	N/A	Boolean: • true. • false.	N/A
BroadcastClient	Configures the device to operate in NTP broadcast client mode.	N/A	Options include: • Enable.	The device listens to NTP messages sent by the NTP broadcast server and is synchronized based on the received NTP messages.
Enable	Enables broadcast client mode.	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BroadcastServer	Configure the device to operatein NTP broadcast server mode.	N/A	Options include: • Enable. • KeyID. • Version.	N/A
Enable	Enables broadcast server mode.	N/A	Boolean: • true. • false.	N/A
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	If this parameter is not specified, the local device cannot synchronize the broadcast client with authentication enabled.
Version	NTP version number.	N/A	Unsigned integer. Value range: 1 to 4.	N/A

NTP/SNTPInterfaces

This table contains SNTP interfaces information.

XML structure

```
<NTP>
  <SNTPInterfaces>
    <SNTPInterface>
      <IfName></IfName>
      <BroadcastClient>
        <Enable></Enable>
      </BroadcastClient>
    </SNTPInterface>
  </SNTPInterfaces>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	SNTPInterfaces
Table type	Multi-instance table
Row name	SNTPInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
BroadcastClient	Configures the device to operate in SNTP broadcast client mode.	N/A	Options include: • Enable.	The device listens to NTP messages sent by the NTP broadcast server and is synchronized based on the received NTP messages.
Enable	Enables broadcast client mode.	N/A	Boolean: • true. • false (default)	N/A

Contents

NTP 1
NTP/Clients 1
NTP/AuthenticationKey 1
NTP/Service 2
NTP/RefClocks 2
NTP/Interfaces 2
NTP/MulticastServers 3
NTP/MulticastClients 3

NTP

NTP/Clients

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.
IPv6 addresses are not supported. 不支持IPv6地址。	NTP IPv6 addresses are not supported with NETCONF.
Failed to create an NTP association, because the maximum number is reached. 创建失败，NTP会话超过最大数量。	The maximum number of NTP sessions is 128.
Failed to create an SNTP association, because the maximum number is reached. 创建失败，SNTP会话超过最大数量。	The maximum number of SNTP sessions is 128.
Failed to create an NTP association, because the maximum polling interval is smaller than the minimum polling interval. 创建失败，最大轮询时间间隔小于最小轮询时间间隔	Maximum polling interval must be greater than minimum polling interval.
Invalid address or host name. 无效的IP地址或主机名。	Invalid address or host name.
Cannot specify a VPN instance for a link-local address. 不能为链路本地地址指定VPN实例。	Can't specify a VPN instance for a link-local address.
Interface must be specified for the link-local address. 必须为链路本地地址指定接口。	An outgoing interface must be specified for the link-local address.
The host name and IP address cannot be specified at the same time. 主机名和IP 地址不能同时配置	Do not specify both the host name and IP address.

NTP/AuthenticationKey

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.

Input a valid authentication key string. 请输入有效的认证字符串。	Please input a valid authentication key string when set new configuration.
Failed to create an NTP authentication key, because the maximum number is reached. 创建失败，NTP认证密钥超过最大数量。	The maximum number of NTP authentication key is 128.
You cannot delete only the authentication mode or key string. 不能只删除认证模式或者认证字符串。	You have to delete authentication mode and authentication key string at the same time.
Failed to create an SNTP authentication key, because the maximum number is reached. 创建失败，SNTP认证密钥超过最大数量。	The maximum number of SNTP authentication key is 128.

NTP/Service

Message	Explanation
Do not enable SNTP and NTP at the same time. SNTP和NTP不能同时使能。	Do not enable SNTP and NTP at the same time.
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.
You cannot specify both an ACL number and an ACL name in one operation. ACL名称和ACL编号不能一起下发。	You cannot specify both an ACL number and an ACL name in an operation.

NTP/RefClocks

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
IP address of the local clock must be 127.127.1.x, where x is in the range of 0 to 3. 本地时钟的IP地址127.127.1.x，x的取值范围为0～3。	The range of valid IP address of the local clock is 127.127.1.0 to 127.127.1.3

NTP/Interfaces

Message	Explanation
Cannot configure broadcast server properties	Cannot configure broadcast server properties when the broadcast

when the broadcast server is down. 广播服务器关闭时无法配置广播服务器属性。	server is down.
Invalid IP address. 无效的地址。	Multicast IP address of the NTP packet. The default value is 224.0.1.1. The multicast addresses configured on the multicast client and multicast server must be the same.
This configuration is not supported on interfaces of this type. 此类型的接口不支持此配置	The NTP-enabled interfaces are Layer 3 interfaces, including Layer 3 Ethernet interfaces/sub-interfaces, Layer 3 aggregate interfaces/sub-interfaces, VLAN interfaces, tunnel interfaces, and Layer 3 RPR logical interfaces.

Creating (deleting) row objects is not supported in this table. 本表不支持创建（删除）行对象。	Interface table does not support row creation.

NTP/MulticastServers

Message	Explanation
IPv6 NTP multicast server mode does not support switching NTP version number. IPv6 NTP组播服务器模式不支持切换NTP版本号。	IPv6 NTP multicast server mode does not support switching NTP version number.
Invalid IP address. 无效的地址。	Multicast IP address of the NTP packet. The default value is 224.0.1.1. The multicast addresses configured on the multicast client and multicast server must be the same.
This configuration is not supported on interfaces of this type. 此类型的接口不支持此配置。	The NTP-enabled interfaces are Layer 3 interfaces, including Layer 3 Ethernet interfaces/sub-interfaces, Layer 3 aggregate interfaces/sub-interfaces, VLAN interfaces, tunnel interfaces, and Layer 3 RPR logical interfaces.

NTP/MulticastClients

Message	Explanation
Invalid IP address. 无效的地址。	Multicast IP address of the NTP packet. The default value is 224.0.1.1. The multicast addresses configured on the multicast client and multicast server must be the same.
This configuration is not supported on interfaces of this type. 此类型的接口不支持此配置。	The NTP-enabled interfaces are Layer 3 interfaces, including Layer 3 Ethernet interfaces/sub-interfaces, Layer 3 aggregate interfaces/sub-interfaces, VLAN interfaces, tunnel interfaces, and Layer 3 RPR logical interfaces.

Contents

NVGRE 1
NVGRE/NVGREs 1
XML structure 1
Table description 1
Columns 1
NVGRE/Tunnels 2
XML structure 2
Table description 2
Columns 2
NVGRE/RmtMACs 2
XML structure 3
Table description 3
Columns 3

NVGRE

NVGRE/NVGREs

This table contains information about NVGRE configurations.

XML structure

```
<NVGRE>
  <NVGREs>
    <Nvgre>
      <NvgreID></NvgreID>
      <VsiName></VsiName>
    </Nvgre>
  </NVGREs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	NVGREs
Table type	Multi-instance table
Row name	Nvgre
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range: 4096-16777214.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create NVGREs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove.

				Can not be modified after creation

NVGRE/Tunnels

This table contains information about tunnels associated with NVGREs.

XML structure

```
<NVGRE>
  <Tunnels>
    <Tunnel>
      <NvgreID></NvgreID>
      <TunnelID></TunnelID>
    </Tunnel>
  </Tunnels>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range:4096-16777214.	You must create an NVGRE first before you merge, replace or create tunnels.
TunnelID	Tunnel ID	Index	Unsigned integer.	You must create a tunnel first before you merge, replace or create tunnels

NVGRE/RmtMACs

This table contains information about remote MAC addresses of each NVGRE.

XML structure

```
<NVGRE>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
    </MAC>
  </RmtMACs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create MACs.
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value must be unicast address.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	You must create a tunnel first before you merge, replace or create MACs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete

Column name	Column description	Column type	Data type and restrictions	Remarks
				or remove.

Contents

NVGRE 1
NVGRE/Base 1
XML structure 1
Table description 1
Columns 1
NVGRE/NVGREs 1
XML structure 1
Table description 2
Columns 2
NVGRE/Tunnels 2
XML structure 2
Table description 3
Columns 3
NVGRE/RmtMACs 3
XML structure 3
Table description 4
Columns 4

NVGRE

NVGRE/Base

This table contains information about global NVGRE functions.

XML structure

```
<NVGRE>
  <Base>
    <NextNvgreID></NextNvgreID>
    <TotalNvgreNum></TotalNvgreNum>
  </Base>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NextNvgreID	Next useful NVGRE ID	N/A	Unsigned integer, Value range: 4096-16777214.	You must enabled global L2VPN feature at first. The invalid value 4294967295 indicates that no ID can be set.
TotalNvgreNum	Total number of existing NVGREs	N/A	Unsigned integer	You must enabled global L2VPN feature at first.

NVGRE/NVGREs

This table contains information about NVGRE configurations.

XML structure

```
<NVGRE>
```

```
  <NVGREs>
    <Nvgre>
      <NvgreID></NvgreID>
      <VsiName></VsiName>
      <RmtMacCnt></RmtMacCnt>
    </Nvgre>
  </NVGREs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	NVGREs
Table type	Multi-instance table
Row name	Nvgre
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range: 4096-16777214.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A
RmtMacCnt	The count of remote MAC addresses	N/A	Unsigned integer	N/A

NVGRE/Tunnels

This table contains information about tunnels associated with NVGREs.

XML structure

```
<NVGRE>
  <Tunnels>
    <Tunnel>
      <NvgreID></NvgreID>
      <TunnelID></TunnelID>
      <Type></Type>
    </Tunnel>
  </Tunnels>
```

```
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range:4096-16777214.	N/A
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
Type	Tunnel type	N/A	Enumeration: • **0**—auto. • **1**—manual.	N/A

NVGRE/RmtMACs

This table contains information about remote MAC addresses of each NVGRE.

XML structure

```
<NVGRE>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
      <Status></Status>
    </MAC>
  </RmtMACs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
Status	Type of remote MAC address	N/A	Enumeration: • **0**—other. • **1**—static. • **2**—selfLearned. • **3**—protocolLearned.	1-static: Manually configured static unicast address 2- selfLearned: Dynamically learned unicast address 3- protocolLearned: Unicast address added by protocol.

Contents

OAP 1
OAP/Clients 1
XML structure 1
Table description 1
Columns 1

OAP

OAP/Clients

This table is used to shut down or reboot an OAP client.

XML structure

```
<OAP>
  <Clients>
    <Client>
      <ClientID></ClientID>
      <Operation></Operation>
    </Client>
  </Clients>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ClientID	OAP client ID	Index	Unsigned integer: Length: 32 bits.
Operation	Operation to be performed on the client	N/A	Enumeration: • **1**—Shut down. • **2**—Reboot.

Contents

OAP 1
OAP/Base 1
XML structure 1
Table description 1
Columns 1
OAP/Interfaces 1
XML structure 2
Table description 2
Columns 2

OAP

OAP/Base

This table contains global OAP information.

XML structure

```
<OAP>
  <Base>
    <ClockSyncTime></ClockSyncTime>
    <MonitorTime></MonitorTime>
  </Base>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ClockSyncTime	Clock synchronization timer in minutes	N/A	Unsigned integer. Value range: 0 to 1440. Default: 5. Setting it to 0 disables the feature.
MonitorTime	Client monitoring timer in seconds	N/A	Unsigned integer. Value range: 0 to 10. Default: 5. Setting it to 0 disables the timer.

OAP/Interfaces

This table contains OAP interface information.

XML structure

```
<OAP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Whether the interface is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Table 1 Methods for specifying interfaces

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet0/0/2</IfIndex>

3	Multiple interface names	<IfIndex>GigabitEthernet0/0/2 to GigabitEthernet0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet1/0/3, Bridge-Aggregation1</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Interface range name and interface names	<IfIndex>GigabitEthernet0/0/2 to GigabitEthernet0/0/3, GigabitEthernet1/0/2 to GigabitEthernet1/0/3, Bridge-Aggregation1</IfIndex>

Contents

OAP 1
OAP/Base 1
XML structure 1
Table description 1
Columns 1
OAP/Interfaces 1
XML structure 2
Table description 2
Columns 2
OAP/Clients 3
XML structure 3
Table description 4
Columns 4

OAP

OAP/Base

This table contains global OAP information.

XML structure

```
<OAP>
  <Base>
    <ClockSyncTime></ClockSyncTime>
    <MonitorTime></MonitorTime>
  </Base>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table contains only global settings.

Columns

Column name	Column description	Column type	Data type and restrictions
ClockSyncTime	Clock synchronization timer in minutes	N/A	Unsigned integer. Value range: 0 to 1440. Default: 5. Setting it to 0 disables the feature.
MonitorTime	Client monitoring timer in seconds	N/A	Unsigned integer. Value range: 0 to 10. Default: 5. Setting it to 0 disables the timer.

OAP/Interfaces

This table contains OAP interface information.

XML structure

```
<OAP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <ClientIDList></ClientIDList>
    </Interface>
  </Interfaces>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Whether the interface is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientIDList	Client ID list, which includes all registered clients.	N/A	Bitmap. No length restrictions. Each bit represents a client. If the value of a bit is '1', the client ID is included in the list. If the value of a bit is '0', the client ID is not included in the list. The first octet specifies client IDs 1 through 8, the second octet specifies client IDs 9 through 16, and so on. Within each octet, the most significant bit represents the lowest numbered client, and the least significant bit represents the highest numbered client.	N/A

OAP/Clients

This table contains OAP client information.

XML structure

```
<OAP>
  <Clients>
    <Client>
      <ClientID></ClientID>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
      <LastRegisteredTime></LastRegisteredTime>
      <ClientDescription></ClientDescription>
      <Hardware></Hardware>
      <SystemSoftware></SystemSoftware>
      <ApplicationSoftware></ApplicationSoftware>
      <CPUInfo></CPUInfo>
      <PCBVersion></PCBVersion>
      <CPLDVersion></CPLDVersion>
      <BootromVersion></BootromVersion>
      <StorageCard></StorageCard>
      <Memory></Memory>
      <Harddisk></Harddisk>
    </Client>
  </Clients>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ClientID	OAP client ID	Index	Unsigned integer: Length: 32 bits.
IfIndex	Interface index	N/A	Unsigned integer. Length: 32 bits.
MacAddress	MAC address of the client	N/A	A 6-octet MAC address value. Format: H-H-H.
LastRegisteredTime	Time when the client registered	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
ClientDescription	Description for the OAP client	N/A	String. Length: 1 to 253 characters.
Hardware	Hardware information	N/A	String. Length: 1 to 253 characters.
SystemSoftware	System software information	N/A	String. Length: 1 to 253 characters.
ApplicationSoftware	Application information	N/A	String. Length: 1 to 253 characters.
CPUInfo	CPU information	N/A	String. Length: 1 to 253 characters.
PCBVersion	PCB version	N/A	String. Length: 1 to 253 characters.
CPLDVersion	CPLD version	N/A	String. Length: 1 to 253 characters.
BootromVersion	BootROM version	N/A	String. Length: 1 to 253 characters.
StorageCard	Storage size	N/A	String. Length: 1 to 253 characters.
Memory	Memory size	N/A	String. Length: 1 to 253 characters.

Column name	Column description	Column type	Data type and restrictions
Harddisk	Hard disk size	N/A	String. Length: 1 to 253 characters.

Contents

OBJP 1
OBJP/ClearZoneStatistic 1
XML structure 1
Table description 1
Columns 1
OBJP/ClearAllStatistic 2
XML structure 2
Table description 2
Columns 2
OBJP/ClearRuleStatistic 2
XML structure 2
Table description 3
Columns 3

OBJP

OBJP/ClearZoneStatistic

This table contains the operation information for an security zone pair object policy.

XML structure

```
<OBJP>
  <ClearZoneStatistic>
    <Zonepair>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ClearType></ClearType>
      <Clear></Clear>
    </Zonepair>
  </ClearZoneStatistic>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	ClearZoneStatistic
Table type	Multi-instance table
Row name	Zonepair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClearType	Type of statistics to be cleared.	N/A	Enumeration: • **1**—IPv4 statistics. • **2**—IPv6 statistics.	Optional. If you do not specify this column, both IPv4 and IPv6 statistics are cleared.
Clear	Clears security zone pair object policy statistics.	N/A	This column must be empty.	Required.

OBJP/ClearAllStatistic

This table contains the operation information for all security zone pair object policies.

XML structure

```
<OBJP>
  <ClearAllStatistic>
      <ClearType></ClearType>
      <Clear></Clear>
  </ClearAllStatistic>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClearType	Type of statistics to be cleared.	N/A	Enumeration: • **1**—IPv4 statistics. • **2**—IPv6 statistics.	Optional. If you do not specify this column, both IPv4 and IPv6 statistics are cleared.
Clear	Clears security zone pair object policy statistics.	N/A	This column must be empty.	Required.

OBJP/ClearRuleStatistic

This table contains the operation information for all security zone pair object policies.

XML structure

```
<OBJP>
  <ClearRuleStatistic>
```

```
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ClearType></ClearType>
      <RuleID></RuleID>
      <Clear></Clear>
    </Rule>
  </ClearRuleStatistic>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	ClearRuleStatistic
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClearType	Type of statistics to be cleared.	Index	Enumeration: • **1**—IPv4 statistics. • **2**—IPv6 statistics.	Optional. If you do not specify this column, both IPv4 and IPv6 statistics are cleared.
RuleID	Rule ID	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID.
Clear	Clears security zone pair object policy statistics.	N/A	This column must be empty.	Required.

Contents

OBJP 1

OBJP/IPv4Policies 1
XML structure 1
Table description 1
Columns 1
OBJP/IPv4Rules 1
XML structure 2
Table description 2
Columns 2
OBJP/IPv6Policies 4
XML structure 4
Table description 4
Columns 5
OBJP/IPv6Rules 5
XML structure 5
Table description 5
Columns 6
OBJP/IPv4RuleSrcAddr 7
XML structure 7
Table description 8
Columns 8
OBJP/IPv4RuleDestAddr 8
XML structure 8
Table description 9
Columns 9
OBJP/IPv4RuleServGrp 9
XML structure 9
Table description 10
Columns 10
OBJP/IPv4RuleApp 10
XML structure 10
Table description 11
Columns 11
OBJP/IPv6RuleSrcAddr 11
XML structure 11
Table description 12
Columns 12
OBJP/IPv6RuleDestAddr 12
XML structure 12
Table description 13
Columns 13
OBJP/IPv6RuleServGrp 13
XML structure 13
Table description 14
Columns 14
OBJP/IPv6RuleApp 14
XML structure 14
Table description 15
Columns 15
OBJP/SecIntraZoneDefAction 15
XML structure 15
Table description 15
Columns 16

OBJP

OBJP/IPv4Policies

This table contains IPv4 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv4Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </Policy>
  </IPv4Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv4Rules

This table contains IPv4 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv4Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <InsID></InsID>
      <Action></Action>
      <SrcIPv4Group></SrcIPv4Group>
      <DestIPv4Group></DestIPv4Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <AppGrp></AppGrp>
      <App></App>
      <Profile></Profile>
    </Rule>
  </IPv4Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID. Can not set this column to 65535 when the operation is “repleace”.
InsID	Inserts this rule before the rule identified by this ID	N/A	Unassigned integer. Value range: 0 to 65535.	When you create or modify a rule, this column determines the place for the rule. If you do not specify this column or set this column to 65535, the rule is put behind all rules. If you set this column to the ID of an existing rule, the rule is inserted before the specified rule. If you set this column to the ID of an nonexistent rule, the operation fails.
Action	Action for the rule	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	Required when you create a rule or modify a rule.
SrcIPv4Group	Name of the source IPv4 address object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
DestIPv4Group	Name of the destination IPv4 address object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
ServGroup	Name of the service object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
VRF	VRF name	N/A	String, case sensitive. Length: 1 to 31 characters.	Optional.
TimeRange	Name of the time range	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Enable	Whether to enable the rule	N/A	Boolean: • **true**—Enable (default). • **false**—Disable.	Optional.
Log	Whether to enable logging	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	Optional.
Counting	Whether to	N/A	Boolean:	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
	enable Counting		• **true**—Enable. • **false—Disable (default).**	
Comment	Description	N/A	String. Length: 1 to 127 characters.	Optional.
AppGrp	Name of the application group	N/A	String, case insensitive. Length: 1 to 63 characters.	'A-Z','a-z', '0-9', '_', and '-'are permitted, but 'invalid' and 'other' are prohibited.
App	Name of the application	N/A	String, case insensitive. Length: 1 to 63 characters.	'A-Z','a-z', '0-9', '_', and '-'are permitted, but 'invalid' and 'other' are prohibited.
Profile	Profile	N/A	String. Length: 1 to 100 characters.	N/A.

OBJP/IPv6Policies

This table contains IPv6 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv6Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </Policy>
  </IPv6Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv6Rules

This table contains IPv6 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv6Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <InsID></InsID>
      <Action></Action>
      <SrcIPv6Group></SrcIPv6Group>
      <DestIPv6Group></DestIPv6Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <AppGrp></AppGrp>
      <App></App>
      <Profile></Profile>
    </Rule>
  </IPv6Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Rules
Table type	Multi-instance table

Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID. Can not set this column to 65535 when the operation is “repleace”.
InsID	Inserts this rule before the rule identified by this ID	N/A	Unassigned integer. Value range: 0 to 65535.	When you create or modify a rule, this column determines the place for the rule. If you do not specify this column or set this column to 65535, the rule is put behind all rules. If you set this column to the ID of an existing rule, the rule is inserted before the specified rule. If you set this column to the ID of an nonexistent rule, the operation fails.
Action	Action for the rule	N/A	Enumeration: • **1**—Deny. • **2**—Permit.	Required when you create a rule or modify a rule.
SrcIPv6Group	Name of the source IPv6 address object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
DestIPv6Group	Name of the destination IPv6 address object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
ServGroup	Name of the service object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	N/A	String, case sensitive. Length: 1 to 31 characters.	Optional.
TimeRange	Name of the time range	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Enable	Whether to enable the rule	N/A	Boolean: • **true**—Enable (default). • **false**—Disable.	Optional.
Log	Whether to enable logging	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	Optional.
Counting	Whether to enable Counting	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	Optional.
Comment	Description	N/A	String. Length: 1 to 127 characters.	Optional.
AppGrp	Name of the application group	N/A	String, case insensitive. Length: 1 to 63 characters.	'A-Z','a-z', '0-9', '_', and '-'are permitted, but 'invalid' and 'other' are prohibited.
App	Name of the application	N/A	String, case insensitive. Length: 1 to 63 characters.	'A-Z','a-z', '0-9', '_', and '-'are permitted, but 'invalid' and 'other' are prohibite.
Profile	Profile	N/A	String. Length: 1 to 100 characters.	N/A.

OBJP/IPv4RuleSrcAddr

This table contains source address of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleSrcAddr>
    <RuleSrcAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleSrcAddr>
  </IPv4RuleSrcAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleSrcAddr
Table type	Multi-instance table
Row name	RuleSrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of source object group	Index	Enumeration: • **1**—Object group.
Name	Name of source object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleDestAddr

This table contains destination address of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleDestAddr>
    <RuleDestAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleDestAddr>
  </IPv4RuleDestAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleDestAddr
Table type	Multi-instance table
Row name	RuleDestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of destination object group	Index	Enumeration: • **1**—Object group.
Name	Name of destination object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleServGrp

This table contains service group of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleServGrp>
    <RuleServGrp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Name></Name>
    </RuleServGrp>
  </IPv4RuleServGrp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleServGrp
Table type	Multi-instance table
Row name	RuleServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Name	Name of service group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleApp

This table contains application of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleApp>
    <RuleApp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleApp>
  </IPv4RuleApp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleApp
Table type	Multi-instance table
Row name	RuleApp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of application	Index	Enumeration: • **1**—Application group. • **2**—Application.
Name	Name of application	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv6RuleSrcAddr

This table contains source address of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleSrcAddr>
    <RuleSrcAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleSrcAddr>
  </IPv6RuleSrcAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleSrcAddr
Table type	Multi-instance table
Row name	RuleSrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of source object group	Index	Enumeration: • **1**—Object group.
Name	Name of source object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleDestAddr

This table contains destination address of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleDestAddr>
    <RuleDestAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleDestAddr>
  </IPv6RuleDestAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleDestAddr
Table type	Multi-instance table
Row name	RuleDestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of destination object group	Index	Enumeration: • **1**—Object group.
Name	Name of destination object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleServGrp

This table contains service group of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleServGrp>
    <RuleServGrp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Name></Name>
    </RuleServGrp>
  </IPv6RuleServGrp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleServGrp
Table type	Multi-instance table
Row name	RuleServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Name	Name of service group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleApp

This table contains application of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleApp>
    <RuleApp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleApp>
  </IPv6RuleApp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleApp
Table type	Multi-instance table
Row name	RuleApp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of application	Index	Enumeration: • **1**—Application group. • **2**—Application.
Name	Name of application	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/SecIntraZoneDefAction

This table contains information about the default security-zone intra-zone actions.

XML structure

```
<OBJP>
  <SecIntraZoneDefAction>
    <DefaultAction></DefaultAction>
  </SecIntraZoneDefAction>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP

Table name	SecIntraZoneDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default security-zone intra-zone action	N/A	Enumeration: **1**—Deny (default). **2**—Permit.

Contents

OBJP 1

OBJP/IPv4Policies 1
XML structure 1
Table description 1
Columns 1
OBJP/IPv4Rules 1
XML structure 2
Table description 2
Columns 2
OBJP/IPv6Policies 4
XML structure 4
Table description 4
Columns 4
OBJP/IPv6Rules 4
XML structure 4
Table description 5
Columns 5
OBJP/IPv4RuleSrcAddr 6
XML structure 6
Table description 7
Columns 7
OBJP/IPv4RuleDestAddr 7
XML structure 7
Table description 8
Columns 8
OBJP/IPv4RuleServGrp 8
XML structure 8
Table description 9
Columns 9
OBJP/IPv4RuleApp 9
XML structure 9
Table description 10
Columns 10
OBJP/IPv6RuleSrcAddr 10
XML structure 10
Table description 11
Columns 11
OBJP/IPv6RuleDestAddr 11
XML structure 11
Table description 12
Columns 12
OBJP/IPv6RuleServGrp 12
XML structure 12
Table description 13
Columns 13
OBJP/IPv6RuleApp 13
XML structure 13
Table description 14
Columns 14
OBJP/AllocRuleID 14
XML structure 14
Table description 15
Columns 15
OBJP/Capability 15
XML structure 15
Table description 15
Columns 16

OBJP/SecIntraZoneDefAction 16
XML structure 16
Table description 16
Columns 16

OBJP

OBJP/IPv4Policies

This table contains IPv4 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv4Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <RuleNum></RuleNum>
    </Policy>
  </IPv4Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.
RuleNum	Number of rules	N/A	Unassigned integer.

OBJP/IPv4Rules

This table contains IPv4 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv4Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Action></Action>
      <SrcIPv4Group></SrcIPv4Group>
      <DestIPv4Group></DestIPv4Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Comment></Comment>
      <Counting></Counting>
      <Count></Count>
      <AppGrp></AppGrp>
      <App></App>
      <Byte></Byte>
      <Profile></Profile>
    </Rule>
  </IPv4Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
Action	Action for the rule	N/A	Enumeration: • **1**—Deny. • **2**—Permit.
SrcIPv4Group	Name of the source IPv4 address object group	N/A	String. Length: 1 to 63 characters.
DestIPv4Group	Name of the destination IPv4 address object group	N/A	String. Length: 1 to 63 characters.
ServGroup	Name of the service object group	N/A	String. Length: 1 to 63 characters.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.
TimeRange	Name of the time range	N/A	String. Length: 1 to 63 characters.
TimeRangeState	Status of the time range	N/A	Boolean: • **true**—Effective. • **false**—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: • **true**—Enabled. • false—Not enabled.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches	N/A	Unassigned integer. Value range: 0 to 2^{64}–1.
AppGrp	Name of the application group	N/A	String. Length: 1 to 63 characters.
App	Name of the application	N/A	String. Length: 1 to 63 characters.
Byte	Byte	N/A	Unsigned integer.
Profile	Profile	N/A	String. Length: 1 to 100 characters.

OBJP/IPv6Policies

This table contains IPv6 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv6Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <RuleNum></RuleNum>
    </Policy>
  </IPv6Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String. Length: 1 to 31 characters.
RuleNum	Number of rules	N/A	Unassigned integer.

OBJP/IPv6Rules

This table contains IPv6 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv6Rules>
```

```
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Action></Action>
      <SrcIPv6Group></SrcIPv6Group>
      <DestIPv6Group></DestIPv6Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Count></Count>
      <AppGrp></AppGrp>
      <App></App>
      <Byte></Byte>
      <Profile></Profile>
    </Rule>
  </IPv6Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String. Length: 1 to 31 characters.
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
Action	Action for the rule	N/A	Enumeration: • **1**—Deny.

Column name	Column description	Column type	Data type and restrictions
			• **2**—Permit.
SrcIPv6Group	Name of the source IPv6 address object group	N/A	String. Length: 1 to 63 characters.
DestIPv6Group	Name of the destination IPv6 address object group	N/A	String. Length: 1 to 63 characters.
ServGroup	Name of the service object group	N/A	String. Length: 1 to 63 characters.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.
TimeRange	Name of the time range	N/A	String. Length: 1 to 63 characters.
TimeRangeState	Status of the time range	N/A	Boolean: • **true**—Effective. • **false**—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches	N/A	Unassigned integer. Value range: 0 to 2^{64} - 1.
AppGrp	Name of the application group	N/A	String. Length: 1 to 63 characters.
App	Name of the application	N/A	String. Length: 1 to 63 characters.
Byte	Byte	N/A	Unsigned integer.
Profile	Profile	N/A	String. Length: 1 to 100 characters.

OBJP/IPv4RuleSrcAddr

This table contains source address of IPv4 object policy rule information.

XML structure

```
<OBJP>
```

```
  <IPv4RuleSrcAddr>
    <RuleSrcAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleSrcAddr>
  </IPv4RuleSrcAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleSrcAddr
Table type	Multi-instance table
Row name	RuleSrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of source object group	Index	Enumeration: • **1**—Object group.
Name	Name of source object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleDestAddr

This table contains destination address of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleDestAddr>
    <RuleDestAddr>
```

```
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleDestAddr>
  </IPv4RuleDestAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleDestAddr
Table type	Multi-instance table
Row name	RuleDestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of destination object group	Index	Enumeration: • **1**—Object group.
Name	Name of destination object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleServGrp

This table contains service group of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleServGrp>
    <RuleServGrp>
      <SrcZone></SrcZone>
```

```
      <DestZone></DestZone>
      <ID></ID>
      <Name></Name>
    </RuleServGrp>
  </IPv4RuleServGrp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleServGrp
Table type	Multi-instance table
Row name	RuleServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Name	Name of service group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv4RuleApp

This table contains application of IPv4 object policy rule information.

XML structure

```
<OBJP>
  <IPv4RuleApp>
    <RuleApp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleApp>
```

```
  </IPv4RuleApp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4RuleApp
Table type	Multi-instance table
Row name	RuleApp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of application	Index	Enumeration: • **1**—Application group. • **2**—Application
Name	Name of application	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv6RuleSrcAddr

This table contains source address of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleSrcAddr>
    <RuleSrcAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleSrcAddr>
  </IPv6RuleSrcAddr>
```

```
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleSrcAddr
Table type	Multi-instance table
Row name	RuleSrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of source object group	Index	Enumeration: • **1**—Object group.
Name	Name of source object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleDestAddr

This table contains destination address of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleDestAddr>
    <RuleDestAddr>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleDestAddr>
  </IPv6RuleDestAddr>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleDestAddr
Table type	Multi-instance table
Row name	RuleDestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of destination object group	Index	Enumeration: • **1**—Object group.
Name	Name of destination object group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleServGrp

This table contains service group of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleServGrp>
    <RuleServGrp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Name></Name>
    </RuleServGrp>
  </IPv6RuleServGrp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleServGrp
Table type	Multi-instance table
Row name	RuleServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Name	Name of service group	Index	String, case insensitive. Length: 1 to 63 characters.

OBJP/IPv6RuleApp

This table contains application of IPv6 object policy rule information.

XML structure

```
<OBJP>
  <IPv6RuleApp>
    <RuleApp>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Type></Type>
      <Name></Name>
    </RuleApp>
  </IPv6RuleApp>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6RuleApp
Table type	Multi-instance table
Row name	RuleApp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
ID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Type	Type of application	Index	Enumeration: • **1**—Application group. • **2**—Application.
Name	Name of application	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/AllocRuleID

This table contains valid rule id.

XML structure

```
<OBJP>
  <AllocRuleID>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <Type></Type>
      <ID></ID>
    </Rule>
  </AllocRuleID>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	AllocRuleID
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source security zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination security zone	Index	String, case insensitive. Length: 1 to 31 characters.
Type	Type of policy	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.
ID	Rule ID	N/A	Unsigned integer. Value range: 0 to 65534.

OBJP/Capability

This table contains capability of APR.

XML structure

```
<OBJP>
  <Capability>
    <Support>
      <APR></APR>
    </Support>
  </Capability>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	Capability
Table type	Multi-instance table

Item	Description
Row name	Support
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
APR	Whether support APR.	N/A	Boolean: • **true**—Support. • **false**—Not support

OBJP/SecIntraZoneDefAction

This table contains information about the default security-zone intra-zone actions.

XML structure

```
<OBJP>
  <SecIntraZoneDefAction>
    <DefaultAction></DefaultAction>
  </SecIntraZoneDefAction>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	SecIntraZoneDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default security-zone intra-zone action	N/A	Enumeration: **1**—Deny. **2**—Permit.

Contents

OBJP 1
OBJP 1

OBJP

OBJP

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	The number of rules configured by the object policy reaches the upper limit. 对象策略配置的规则数达到上限。
Source IP address object group does not exist. 指定的源IP地址对象组不存在。	The object-group referenced by the IPv4 source address of the rule does not exist. 规则中IPv4源地址引用的对象组不存在。
Illegal source IP address object group type. 指定的源IP地址对象组类型不正确。	The object-group type referenced by the IPv4 source address is not the IPv4 type. 规则中IPv4源地址引用的对象组类型不是IPv4。
Destination IP address object group does not exist. 指定的目的IP地址对象组不存在。	The object-group referenced by the IPv4 destination address of the rule does not exist. 规则中IPv4目的地址引用的对象组不存在。
Illegal destination IP address object group type. 指定的目的IP地址对象组类型不正确。	The object-group type referenced by the IPv4 destination address is not the IPv4 type. 规则中IPv4目的地址引用的对象组类型不是IPv4。
Source IPv6 address object group does not exist. 指定的源IPv6地址对象组不存在。	The object-group referenced by the IPv6 source address of the rule does not exist. 规则中IPv6源地址引用的对象组不存在。
Illegal source IPv6 address object group type. 指定的源IPv6地址对象组类型不正确。	The object-group type referenced by the IPv6 destination address is not the IPv6 type. 规则中IPv6源地址引用的对象组类型不是IPv6。
Destination IPv6 address object group does not exist. 指定的目的IPv6地址对象组不存在。	The object-group referenced by the IPv6 destination address of the rule does not exist. 规则中IPv6目的地址引用的对象组不存在。
Illegal destination IPv6 address object group type. 指定的目的IPv6地址对象组类型不正确。	The object-group type referenced by the IPv6 destination address is not the IPv6 type. 规则中IPv6目的地址引用的对象组类型不是IPv6。
Service object group does not exist. 指定的服务对象组不存在。	The object-group referenced by the service of the rule does not exist. 规则中服务引用的对象组不存在。
Illegal service object group type. 指定的服务对象组类型不正确。	The object-group type referenced by the service is not the service type. 规则中服务引用的对象组类型不是服务类型。
The time range does not exist and the rule will be set to inactive. 由于指定的时间段不存在，该规则不会生效。	The time range name referenced by the rule does not exist. 规则中引用的时间段名称不存在。
Failed to move the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则和目标规则的编号相同，移动规则失	The source rule number specified when moving the rule is the same as the destination number. 移动规则时指定的源规则编号与目的编号一样。

败。	
Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist. 移动规则时指定的源规则编号不存在。
The rule does not exist. Please create the rule before adding a comment. 由于指定的规则不存在，添加规则描述信息失败。	The rule number specified when adding rule comment information does not exist. 添加规则评审信息时指定的规则编号不存在。
Failed to insert the rule because the specified rule does not exist. 由于指定的规则不存在，规则插入失败。	Specifies that the rule number to be inserted is not created. 指定要插入的规则编号没有被创建。
Failed to create the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the create operation to fail to create a rule. 没有指定规则动作导致create操作创建规则失败。
Failed to merge the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the merge operation to fail to create a rule. 没有指定规则动作导致merge操作创建规则失败。
Failed to replace the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the replace operation to fail to create a rule. 没有指定规则动作导致replace操作创建规则失败。
Failed to create the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the create operation to fail. 移动规则时指定的源规则编号与目的编号一样导致create操作失败。
Failed to merge the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the merge operation to fail. 移动规则时指定的源规则编号与目的编号一样导致merge操作失败。
Failed to replace the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the replace operation to fail. 移动规则时指定的源规则编号与目的编号一样导致replace操作失败。
Failed to create the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the create operation to fail. 移动规则时指定的源规则编号不存在导致create操作失败。
Failed to merge the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the merge operation to fail. 移动规则时指定的源规则编号不存在导致merge操作失败。
Failed to replace the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the replace operation to fail. 移动规则时指定的源规则编号不存在导致replace操作失败。
Can not use 'all' as time range name. 时间段名称不能为“all”。	The time range name referenced by the rule cannot be “all”. 规则引用的时间段名称不能为“all”。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	Object policy configuration rules reach the upper limit. 对象策略配置的规则达到上限。

If the action is set to "inspect", you must specify an inspect profile. 指定动作为Inspect时，必须指定Profile。	The profile name is not specified when the specified rule action is inspect. 指定规则动作为Inspect时没有指定Profile名称。
If the profile is specified, the action should be set to "inspect". 指定Profile时，必须指定动作为Inspect。	Rule action is not inspect when specifying profile name. 指定Profile名称时规则动作不是Inspect。
The app group does not exist. 指定的应用组不存在。	The application group referenced by the rule has not been created. 规则引用的应用组没有被创建。
The application does not exist. 指定的应用不存在。	The application referenced by the rule has not been created. 规则引用的应用没有被创建。
The app group and the application does not exist, the rule does not match packets. 指定的应用组和应用都不存在，该规则不会匹配报文。	The application group and application referenced by the rule have not been created. 规则引用的应用组和引用都没有被创建。
The application does not exist, the rule does not match packets. 指定的应用不存在，该规则不会匹配报文。	The application referenced by the rule has not been created. 规则引用的应用没有被创建。
The app group does not exist, the rule does not match packets. 指定的应用组不存在，该规则不会匹配报文。	The application group referenced by the rule has not been created. 规则引用的应用组没有被创建。
Can not use 'invalid' or 'other' as app-group or application name. 应用组或应用名称不能为'invalid'或'other'。	The application group or application name referenced by the rule is “invalid” or “other”. 规则引用的应用组或引用名称为“invalid“或“other”。
Failed to create the interzone policy because the policy number exceeds the upper limit. 由于已经达到域间策略个数上限，创建策略失败。	The number of interzone policy applications has reached the upper limit. 域间策略应用个数达到上限。
The object policy does not exist. 指定的对象策略不存在。	The specified object policy name was not created. 指定的对象策略名称没有创建。
The specified source zone doesn't exist. 指定的源安全域不存在。	The specified source zone name was not created. 指定的源安全域名称没有创建。
The specified destination zone doesn't exist. 指定的目的安全域不存在。	The specified destination zone name was not created. 指定的目的安全域名称没有创建。

Contents

OMS 1
OMS/RenameGroups 1
XML structure 1
Table description 1
Columns 1
OMS/ImportGroupObjects 1
XML structure 2
Table description 2
Columns 2
OMS/ExportGroupObjectsTemplate 2
XML structure 3
Table description 3
Columns 3

OMS

OMS/RenameGroups

This table contains information about the rename object groups.

XML structure

```
<OMS>
  <RenameGroups>
    <Group>
      <Name></Name>
      <NewName></NewName>
      <Rename></Rename>
    </Group>
  </RenameGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	RenameGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Object group name.	Index	String. Length: 1 to 63 characters.	N/A
NewName	New object group name.	N/A	String. Length: 1 to 63 characters.	Required.
Rename	Rename an object group.	N/A	This column must be empty.	Required.

OMS/ImportGroupObjects

This table contains information about importing group objects.

XML structure

```
<OMS>
  <ImportGroupObjects>
    <FileName></FileName>
    <GroupName></GroupName>
    <ObjectType></ObjectType>
    <StartLine></StartLine>
  </ImportGroupObjects>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ImportGroupObjects
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to be imported.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Required. The .csv file must use correct data format as required in the export template.
GroupName	Name of the object group.	N/A	String. Length: 1 to 63 characters.	Required.
ObjectType	Type of the object.	N/A	Type of the address object. Enumeration: • **0**—IPv4 host address. • **1**—IPv6 host address.	Required.
StartLine	Name of the object	N/A	Unsigned integer. Value range: 1 to 1048576.	Default: 1

OMS/ExportGroupObjectsTemplate

This table contains information about the group objects template.

XML structure

```
<OMS>
  <ExportGroupObjectsTemplate>
    <FileName></FileName>
    <ObjectType></ObjectType>
  </ExportGroupObjectsTemplate>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ExportGroupObjectsTemplate
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
FileName	Name of the source .csv file to be exported.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Required.
ObjectType	Type of the object.	N/A	Type of the address object. Enumeration: • **0**—IPv4 host address. • **1**—IPv6 host address.	Required.

Contents

OMS 1

OMS/IPv4Groups 1
XML structure 1
Table description 1
Columns 1
OMS/IPv4Objs 1
XML structure 2
Table description 2
Columns 2
OMS/IPv6Groups 4
XML structure 4
Table description 4
Columns 5
OMS/IPv6Objs 5
XML structure 5
Table description 6
Columns 6
OMS/ServGroups 8
XML structure 8
Table description 8
Columns 8
OMS/ServObjs 8
XML structure 8
Table description 9
Columns 9
OMS/UserServObjs 11
XML structure 11
Table description 11
Columns 12
OMS/PortGroups 13
XML structure 13
Table description 13
Columns 14
OMS/PortObjs 14
XML structure 14
Table description 14
Columns 15
OMS/MACGroups 15
XML structure 15
Table description 16
Columns 16
OMS/MACObjs 16
XML structure 16
Table description 16
Columns 17
OMS/DnsAging 17
XML structure 17
Table description 18
Columns 18
OMS/IPv4Exclude 18
XML structure 18
Table description 18
Columns 19
OMS/IPv6Exclude 19
XML structure 19
Table description 19
Columns 20

OMS

OMS/IPv4Groups

This table contains IPv4 address object group information.

XML structure

```
<OMS>
  <IPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <SecurityZone></SecurityZone>
    </Group>
  </IPv4Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 63 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OMS/IPv4Objs

This table contains IPv4 address object information.

XML structure

```
<OMS>
  <IPv4Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <IPv4WildcardAddress></IPv4WildcardAddress>
      <IPv4WildcardMask></IPv4WildcardMask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
      <VRFName></VRFName>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ObjDescription></ObjDescription>
    </Obj>
  </IPv4Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the IPv4 address object	N/A	Enumeration: • **0**—Nested group. • **1**—Subnet. • **2**—Range. • **3**—Host address. • **4**—Host name. • **5**—User. • **6**—User Group. • **7**—Wildcard.	Required.
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	Required when the **Type** column is **1**. It must be configured together with the **IPv4Mask** column.
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	Required when the **Type** column is **1**. It must be configured together with the **SubnetIPv4Address** column.
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	Required when the **Type** column is **7**.
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	Required when the **Type** column is **7**.
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	Required when the **Type** column is **2**. It must be configured together with the **EndIPv4Address** column.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	Required when the **Type** column is **2**. It must be configured together with the **StartIPv4Address** column.
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	Required when the **Type** column is **3**.
HostName	Host name	N/A	String, case-insensitive. Length: 1 to 253 characters. Fuzzy matching is performed if the name starts or ends with an asterisk (*). An asterisk is a wildcard. Asterisks cannot be in the middle of the name.	Required when the **Type** column is **4**.

Column name	Column description	Column type	Data type and restrictions	Remarks
NestedGroup	Name of the nested IPv4 address object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.
VRFName	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
User	User	N/A	String. Length: 1 to 55 characters.	Required when the **Type** column is **5**.
UserDomain	User domain	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	User group	N/A	String. Length: 1 to 32 characters.	Required when the **Type** column is **6**.
UserGroupDomain	User group domain	N/A	String. Length: 1 to 255 characters.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/IPv6Groups

This table contains IPv6 address object group information.

XML structure

```
<OMS>
  <IPv6Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <SecurityZone></SecurityZone>
    </Group>
  </IPv6Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Groups
Table type	Multi-instance table

Item	Description
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 63 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OMS/IPv6Objs

This table contains IPv6 address object information.

XML structure

```
<OMS>
  <IPv6Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
      <IPv6PrefixLen></IPv6PrefixLen>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <HostIPv6Address></HostIPv6Address>
      <HostName></HostName>
      <VRF></VRF>
      <NestedGroup></NestedGroup>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ObjDescription></ObjDescription>
      </Obj>
    </IPv6Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the IPv6 address object	N/A	Enumeration: • **0**—Nested group. • **1**—Subnet. • **2**—Range. • **3**—Host address. • **4**—Host name. • **5**—User. • **6**—User Group,	Required.
SubnetIPv6Address	IPv6 subnet address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the **Type** column is **1**. It must be configured together with the **IPv6PrefixLen** column.
IPv6PrefixLen	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when **Subnet** the **Type** column is **1**. It must be configured together with the **SubnetIPv6Address** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPv6Address	Start IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the **Type** column is **2**. It must be configured together with the **EndIPv6Address** column.
EndIPv6Address	End IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the **Type** column is **2**. It must be configured together with the **StartIPv6Address** column.
HostIPv6Address	IPv6 address of the host	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the **Type** column is **3**.
HostName	Host name	N/A	String. Length: 1 to 253 characters. Fuzzy matching is performed if the name starts or ends with an asterisk (*). An asterisk is a wildcard. Asterisks cannot be in the middle of the name.	Required when the **Type** column is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv6 address object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.
User	User	N/A	String. Length: 1 to 55 characters.	Required when the **Type** column is **5**.
UserDomain	User domain	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	User group	N/A	String. Length: 1 to 32 characters.	Required when the **Type** column is **6**.
UserGroupDomain	User group domain	N/A	String. Length: 1 to 255 characters.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/ServGroups

This table contains service object group information.

XML structure

```
<OMS>
  <ServGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </ServGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.
Description	Description for the service object group	N/A	String. Length: 1 to 127 characters.

OMS/ServObjs

This table contains system-defined service object information.

XML structure

```
<OMS>
  <ServObjs>
    <Obj>
```

```
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
      <EndSrcPort></EndSrcPort>
      <StartDestPort></StartDestPort>
      <EndDestPort></EndDestPort>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </ServObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ServObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the service object	N/A	Enumeration: • **0**—Nested group. • **1**—Protocol. This type specifies protocols other than the listed ones. • **2**—ICMP (protocol number 1). • **3**—TCP (protocol number 6). • **4**—UDP (protocol number 17). • **5**—ICMPv6 (protocol number 58). • **6**—SCTP (protocol number 132).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **1**.
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **EndSrcPort** column.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **StartSrcPort** column.
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **EndDestPort** column.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **StartDestPort** column.
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **2** or **5**. It must be configured together with the **ICMPCode** column.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **2** or **5**. It must be configured together with the **ICMPType** column.
NestedGroup	Name of the nested service object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/UserServObjs

This table contains user-defined service object information.

XML structure

```
<OMS>
  <UserServObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
      <EndSrcPort></EndSrcPort>
      <StartDestPort></StartDestPort>
      <EndDestPort></EndDestPort>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </UserServObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	UserServObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the service object	N/A	Enumeration: • **0**—Nested group. • **1**—Protocol. This type specifies protocols other than the listed ones. • **2**—ICMP (protocol number 1). • **3**—TCP (protocol number 6). • **4**—UDP (protocol number 17). • **5**—ICMPv6 (protocol number 58). • **6**—SCTP (protocol number 132).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **1**.
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **EndSrcPort** column.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **StartSrcPort** column.
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **EndDestPort** column.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **3 4** or **6**. It must be configured together with the **StartDestPort** column.

Column name	Column description	Column type	Data type and restrictions	Remarks
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **2** or **5**. It must be configured together with the **ICMPCode** column.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the **Type** column is **2** or **5**. It must be configured together with the **ICMPType** column.
NestedGroup	Name of the nested service object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/PortGroups

This table contains port object group information.

XML structure

```
<OMS>
  <PortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </PortGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	PortGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the port object group	Index	String, case insensitive. Length: 1 to 63 characters.
Description	Description for the port object group	N/A	String. Length: 1 to 127 characters.

OMS/PortObjs

This table contains port object information.

XML structure

```
<OMS>
  <PortObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </PortObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	PortObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the port object group	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the port object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the port object	N/A	Enumeration: • **0**—Nested group. • **1**—Range.	Required.
StartPort	Start port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **1**. It must be configured together with the **EndPort** column.
EndPort	End port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the **Type** column is **1**. It must be configured together with the **StartPort** column.
NestedGroup	Name of the nested port object group	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/MACGroups

This table contains MAC object group information.

XML structure

```
<OMS>
  <MACGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </MACGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	MACGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String, case-insensitive. Length: 1 to 63 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.

OMS/MACObjs

This table contains MAC object information.

XML structure

```
<OMS>
  <MACObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <MACAddress></MACAddress>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </MACObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	MACObjs

Item	Description
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the MAC object group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the MAC object.	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object ID.
Type	Type of the MAC object.	N/A	Enumeration: • **0**—Nested group. • **1**—MAC address.	Required.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Required when the **Type** column is **1**.
NestedGroup	Name of the nested MAC object group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Required when the **Type** column is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/DnsAging

This table contains information about the aging function of IP address obtained through DNS resolution.

XML structure

```
<OMS>
  <DnsAging>
    <Enable></Enable>
    <AgingTime></AgingTime>
  </DnsAging>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	DnsAging
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	Required. Defalut: Not enable
AgingTime	Aging time value in minutes	N/A	Unsigned integer. Value range: 1 to 70000000.	The value of this column is valid if Enable is **true**. Defalut value: 120

OMS/IPv4Exclude

This table contains IPv4 exclude address information.

XML structure

```
<OMS>
  <IPv4Exclude>
    <Address>
      <Group></Group>
      <ID></ID>
      <ExcludeIPv4Address></ExcludeIPv4Address>
    </Address>
  </IPv4Exclude>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Exclude

Item	Description
Table type	Multi-instance table
Row name	Address
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
ExcludeIPv4Address	IPv4 exclude address	N/A	String. Dotted decimal notation.	Required

OMS/IPv6Exclude

This table contains IPv6 exclude address information.

XML structure

```
<OMS>
  <IPv6Exclude>
    <Address>
      <Group></Group>
      <ID></ID>
      <ExcludeIPv6Address></ExcludeIPv6Address>
    </Address>
  </IPv6Exclude>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Exclude
Table type	Multi-instance table
Row name	Address
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967294.	N/A
ExcludeIPv6Address	IPv6 exclude address	N/A	Hexadecimal string. Colon-separated.	Required.

Contents

OMS 1

OMS/IPv4Groups 1
XML structure 1
Table description 1
Columns 1
OMS/SysIPv4Groups 2
XML structure 2
Table description 2
Columns 3
OMS/IPv4Objs 3
XML structure 3
Table description 4
Columns 4
OMS/IPv6Groups 5
XML structure 5
Table description 6
Columns 6
OMS/SysIPv6Groups 6
XML structure 7
Table description 7
Columns 7
OMS/IPv6Objs 7
XML structure 8
Table description 8
Columns 8
OMS/ServGroups 10
XML structure 10
Table description 10
Columns 11
OMS/SysServGroups 11
XML structure 11
Table description 11
Columns 12
OMS/ServObjs 12
XML structure 12
Table description 13
Columns 13
OMS/UserServObjs 14
XML structure 14
Table description 14
Columns 15
OMS/PortGroups 15
XML structure 16
Table description 16
Columns 16
OMS/SysPortGroups 16
XML structure 17
Table description 17
Columns 17
OMS/PortObjs 17
XML structure 18
Table description 18
Columns 18
OMS/MACGroups 19
XML structure 19
Table description 19
Columns 19

OMS/MACObjs 20
XML structure 20
Table description 20
Columns 20
OMS/MACPaging 21
XML structure 21
Table description 21
Columns 22
OMS/IPv4Paging 23
XML structure 23
Table description 24
Columns 24
OMS/IPv6Paging 27
XML structure 27
Table description 28
Columns 28
OMS/ServicePaging 31
XML structure 31
Table description 31
Columns 32
OMS/GetIPv4ObjData 34
XML structure 34
Table description 35
Columns 35
OMS/GetIPv6ObjData 36
XML structure 37
Table description 37
Columns 37
OMS/DnsAging 39
XML structure 39
Table description 39
Columns 39
OMS/IPv4Exclude 40
XML structure 40
Table description 40
Columns 40
OMS/IPv6Exclude 41
XML structure 41
Table description 41
Columns 41

OMS

OMS/IPv4Groups

This table contains information about IPv4 address object groups.

XML structure

```
<OMS>
  <IPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ValidObjNum></ValidObjNum>
    </Group>
  </IPv4Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String. Length: 1 to 63 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of IPv4 address objects	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
InUse	Whether the IPv4 address object group is in use.	N/A	Boolean: • **true**—The IPv4 address object group is in use. • **false**—The IPv4 address object group is not in use.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.
ValidObjNum	Number of valid IPv4 address objects	N/A	Unsigned integer.

OMS/SysIPv4Groups

This table contains information about pre-defined IPv4 address object groups.

XML structure

```
<OMS>
  <SysIPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysIPv4Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysIPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined IPv4 address object group	Index	String. Length: 1 to 63 characters.
Description	Description for the pre-defined IPv4 address object group	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined IPv4 address objects	N/A	Unsigned integer.
InUse	Whether the pre-defined IPv4 address object group is in use.	N/A	Boolean: • **true**—The pre-defined IPv4 address object group is in use. • **false**—The pre-defined IPv4 address object group is not in use.

OMS/IPv4Objs

This table contains information about IPv4 address objects.

XML structure

```
<OMS>
  <IPv4Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <IPv4WildcardAddress></IPv4WildcardAddress>
      <IPv4WildcardMask></IPv4WildcardMask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
      <VRFName></VRFName>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ObjDescription></ObjDescription>
    </Obj>
  </IPv4Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv4 address object	N/A	Enumeration: • **0**—Nested group. • **1**—Subnet. • **2**—Range. • **3**—Host address. • **4**—Host name. • **5**—User. • 6—User Group. • 7—Wildcard.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.

Column name	Column description	Column type	Data type and restrictions	Remarks
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **3**.
HostName	Host name	N/A	String, case-insensitive. Length: 1 to 253 characters. Fuzzy matching is performed if the name starts or ends with an asterisk (*). An asterisk is a wildcard. Asterisks cannot be in the middle of the name.	The value of this column is valid if Type is **4**.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
VRFName	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
User	User	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	User domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.
UserGroup	User group	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	User group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/IPv6Groups

This table contains information about IPv6 address object groups.

XML structure

```
<OMS>
  <IPv6Groups>
    <Group>
      <Name></Name>
```

```
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ValidObjNum></ValidObjNum>
    </Group>
  </IPv6Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv6 address object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the IPv6 address object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of IPv6 address objects.	N/A	Unsigned integer.
InUse	Whether the IPv6 address object group is in use.	N/A	Boolean: • **true**—The IPv6 address object group is in use. • **false**—The IPv6 address object group is not in use.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.
ValidObjNum	Number of valid IPv6 address objects.	N/A	Unsigned integer.

OMS/SysIPv6Groups

This table contains information about pre-defined IPv6 address object groups.

XML structure

```
<OMS>
  <SysIPv6Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysIPv6Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysIPv6Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined IPv6 address object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the pre-defined IPv6 address object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined IPv6 address objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined IPv6 address object group is in use.	N/A	Boolean: • **true**—The pre-defined IPv6 address object group is in use. • **false**—The pre-defined IPv6 address object group is not in use.

OMS/IPv6Objs

This table contains IPv6 address object information.

XML structure

```
<OMS>
  <IPv6Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
      <IPv6PrefixLen></IPv6PrefixLen>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <HostIPv6Address></HostIPv6Address>
      <HostName></HostName>
      <VRF></VRF>
      <NestedGroup></NestedGroup>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ObjDescription></ObjDescription>
    </Obj>
  </IPv6Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967294.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the IPv6 address object	N/A	Enumeration: • **0**—Nested group. • **1**—Subnet. • **2**—Range. • **3**—Host address. • **4**—Host name. • **5**—User. • **6**—User Group.	Required.
SubnetIPv6Address	IPv6 subnet address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is **1**.
IPv6PrefixLen	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128	The value of this column is valid if Type is **1**.
StartIPv6Address	Start IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is **2**.
EndIPv6Address	End IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is **2**.
HostIPv6Address	IPv6 address of the host	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is **3**.
HostName	Host name	N/A	String. Length: 1 to 253 characters. Fuzzy matching is performed if the name starts or ends with an asterisk (*). An asterisk is a wildcard. Asterisks cannot be in the middle of the name.	The value of this column is valid if Type is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv6 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.

Column name	Column description	Column type	Data type and restrictions	Remarks
User	User	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	User domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.
UserGroup	User group	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	User group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/ServGroups

This table contains information about service object groups.

XML structure

```
<OMS>
  <ServGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ValidObjNum></ValidObjNum>
    </Group>
  </ServGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the service object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the service object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of service objects.	N/A	Unsigned integer.
InUse	Whether the service object group is in use.	N/A	Boolean: • **true**—The service object group is in use. • **false**—The service object group is not in use.
ValidObjNum	Number of valid service objects.	N/A	Unsigned integer.

OMS/SysServGroups

This table contains information about pre-defined service object groups.

XML structure

```
<OMS>
  <SysServGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysServGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined service object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the pre-defined service object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined service objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined system service object group is in use.	N/A	Boolean: • **true**—The pre-defined system service object group is in use. • **false**—The pre-defined system service object group is not in use.

OMS/ServObjs

This table contains information about all service objects, including system-defined and user-defined service objects.

XML structure

```
<OMS>
  <ServObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
      <EndSrcPort></EndSrcPort>
      <StartDestPort></StartDestPort>
      <EndDestPort></EndDestPort>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </ServObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ServObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the service object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the service object	N/A	Enumeration: • **0**—Nested group. • **1**—Protocol. This type specifies protocols other than the listed ones. • **2**—ICMP (protocol number 1). • **3**—TCP (protocol number 6). • **4**—UDP (protocol number 17). • **5**—ICMPv6 (protocol number 58). • **6**—SCTP (protocol number 132).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **1**.
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.

Column name	Column description	Column type	Data type and restrictions	Remarks
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **2** or **5**.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **2** or **5**.
NestedGroup	Name of the nested service object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/UserServObjs

This table contains user-defined service object information.

XML structure

```
<OMS>
  <UserServObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
      <EndSrcPort></EndSrcPort>
      <StartDestPort></StartDestPort>
      <EndDestPort></EndDestPort>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </UserServObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	UserServObjs
Table type	Multi-instance table
Row name	Obj

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Group	Name of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967295.
Type	Type of the service object	N/A	Enumeration: • **0**—Nested group. • **1**—Protocol. This type specifies protocols other than the listed ones. • **2**—ICMP (protocol number 1). • **3**—TCP (protocol number 6). • **4**—UDP (protocol number 17). • **5**—ICMPv6 (protocol number 58). • **6**—SCTP (protocol number 132).
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.
NestedGroup	Name of the nested service object group	N/A	String, case insensitive. Length: 1 to 63 characters.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.

OMS/PortGroups

This table contains information about port object groups.

XML structure

```
<OMS>
  <PortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ValidObjNum></ValidObjNum>
    </Group>
  </PortGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	PortGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the port object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the port object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of port objects.	N/A	Unsigned integer.
InUse	Whether the port object group is in use.	N/A	Boolean: • **true**—The port object group is in use. • **false**—The port object group is not in use.
ValidObjNum	Number of valid port objects.	N/A	Unsigned integer.

OMS/SysPortGroups

This table contains pre-defined port object group information.

XML structure

```
<OMS>
  <SysPortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysPortGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysPortGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined port object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the pre-defined port object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined port objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined port object group is in use.	N/A	Boolean: • **true**—The pre-defined port object group is in use. • **false**—The pre-defined port object group is not in use.

OMS/PortObjs

This table contains information about port objects.

XML structure

```
<OMS>
  <PortObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </PortObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	PortObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the port object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the port group object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the port object	N/A	Enumeration: • **0**—Nested group. • **1**—Range.	Required.
StartPort	Start port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **1**.
EndPort	End port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **1**.

Column name	Column description	Column type	Data type and restrictions	Remarks
NestedGroup	Name of the nested port object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/MACGroups

This table contains information about MAC object groups.

XML structure

```
<OMS>
  <MACGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ValidObjNum></ValidObjNum>
    </Group>
  </MACGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	MACGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.

Column name	Column description	Column type	Data type and restrictions
ObjNum	Number of MAC objects.	N/A	Unsigned integer.
InUse	Whether the MAC object group is in use.	N/A	Boolean: • **true**—The MAC object group is in use. • **false**—The MAC object group is not in use.
ValidObjNum	Number of valid MAC objects.	N/A	Unsigned integer.

OMS/MACObjs

This table contains information about MAC objects.

XML structure

```
<OMS>
  <MACObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <MACAddress></MACAddress>
      <NestedGroup></NestedGroup>
      <ObjDescription></ObjDescription>
    </Obj>
  </MACObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	MACObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Group	Name of the MAC object group.	Index	String. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
ID	ID of the MAC object.	Index	Unsigned integer. Value range: 0 to 4294967294.
Type	Type of the MAC object.	N/A	Enumeration: • **0**—Nested group. • **1**—MAC address.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.
NestedGroup	Name of the nested MAC object group.	N/A	String. Length: 1 to 63 characters.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.

OMS/MACPaging

This table contains information about MAC object groups and MAC objects. This table is made for paging.

XML structure

```
<OMS>
  <MACPaging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <MACAddress></MACAddress>
        <NestedGroup></NestedGroup>
        <ObjDescription></ObjDescription>
      </ObjList>
      <AllGroupsCount></AllGroupsCount>
      <InSecpUse></InSecpUse>
      <InNATUse></InNATUse>
    </Group>
  </MACPaging>
</OMS>
```

Table description

Item	Description
Feature name	OMS

Item	Description
Table name	MACPaging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String. Length: 1 to 63 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of MAC objects.	N/A	Unsigned integer.
InUse	Whether the MAC object group is in use.	N/A	Boolean: • **true**—The MAC object group is in use. • **false**—The MAC object group is not in use.
ObjList	List of MAC objects.	Data structure	Members include: • ID. • Type • MACAddress • NestedGroup
ID	ID of the MAC object.	N/A	Unsigned integer. Value range: 0 to 4294967294.
Type	Type of the MAC object.	N/A	Enumeration: • **0**—Nested group. • **1**—MAC address.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.
NestedGroup	Name of the nested MAC object group.	N/A	String. Length: 1 to 63 characters.
AllGroupsCount	Number of MAC object groups.	N/A	Unsigned integer.
InSecpUse	Whether the MAC object group is used by Security policy	N/A	Boolean: • **true**—The MAC object group is used by Security policy. • **false**—The MAC object group is not used by Security policy.
InNATUse	Whether the MAC object group is used by NAT	N/A	Boolean: • **true**—The MAC object group is used by NAT. • **false**—The MAC object

Column name	Column description	Column type	Data type and restrictions
			group is not used by NAT.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.

OMS/IPv4Paging

This table contains information about IPv4 address object groups, IPv4 address objects, and excluded IPv4 addresses.

XML structure

```
<OMS>
  <IPv4Paging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <SubnetIPv4Address></SubnetIPv4Address>
        <IPv4Mask></IPv4Mask>
        <IPv4WildcardAddress></IPv4WildcardAddress>
        <IPv4WildcardMask></IPv4WildcardMask>
        <StartIPv4Address></StartIPv4Address>
        <EndIPv4Address></EndIPv4Address>
        <HostIPv4Address></HostIPv4Address>
        <HostName></HostName>
        <VRF></VRF>
        <NestedGroup></NestedGroup>
        <User></User>
        <UserDomain></UserDomain>
        <UserGroup></UserGroup>
        <UserGroupDomain></UserGroupDomain>
        <ExcludeIPv4Address></ExcludeIPv4Address>
        <ObjDescription></ObjDescription>
      </ObjList>
      <AllGroupsCount></AllGroupsCount>
      <InSecpUse></InSecpUse>
      <InNATUse></InNATUse>
    </Group>
  </IPv4Paging>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Paging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPv4 address object group	Index	String. Length: 1 to 63 characters.	N/A
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of IPv4 address objects	N/A	Unsigned integer.	N/A
InUse	Whether the IPv4 address object group is in use	N/A	Boolean: • **true**—The IPv4 address object group is in use. • **false**—The IPv4 address object group is not in use.	N/A
SecurityZone	Security zone of the IPv4 address object group	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjList	List of IPv4 address objects	Data structure	Members include: • ID. • Type. • SubnetIPv4Address. • IPv4Mask. • IPv4WildcardAddress. • IPv4WildcardMask. • StartIPv4Address. • EndIPv4Address. • HostIPv4Address. • HostName. • NestedGroup. • User. • UserDomain. • UserGroup. • UserGroupDomain. • ExcludeIPv4Address.	N/A
ID	ID of the IPv4 address object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv4 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User group. • 7—Wildcard.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **3**.
HostName	Host name	N/A	String. Length: 1 to 253 characters.	The value of this column is valid if Type is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
User	Name of the user	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ExcludeIPv4Address	Excluded IPv4 address.	N/A	String, dotted decimal notation.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A
AllGroupsCount	Number of IPv4 address groups	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InSecpUse	Whether the IPv4 address object group is used by Security policy	N/A	Boolean: • **true**—The IPv4 address object group is used by Security policy. • **false**—The IPv4 address object group is not used by Security policy.	N/A
InNATUse	Whether the IPv4 address object group is used by NAT	N/A	Boolean: • **true**—The IPv4 address object group is used by NAT. • **false**—The IPv4 address object group is not used by NAT.	N/A

OMS/IPv6Paging

This table contains information about IPv6 address object groups, IPv6 address objects, and excluded IPv6 addresses.

XML structure

```
<OMS>
  <IPv6Paging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <SubnetIPv6Address></SubnetIPv6Address>
        <IPv6PrefixLen></IPv6PrefixLen>
        <StartIPv6Address></StartIPv6Address>
        <EndIPv6Address></EndIPv6Address>
        <HostIPv6Address></HostIPv6Address>
        <HostName></HostName>
        <VRF></VRF>
        <NestedGroup></NestedGroup>
        <User></User>
        <UserDomain></UserDomain>
        <UserGroup></UserGroup>
        <UserGroupDomain></UserGroupDomain>
        <ExcludeIPv6Address></ExcludeIPv6Address>
```

```
      <ObjDescription></ObjDescription>
    </ObjList>
    <AllGroupsCount></AllGroupsCount>
    <InSecpUse></InSecpUse>
    <InNATUse></InNATUse>
  </Group>
 </IPv6Paging>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Paging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPv6 address object group	Index	String. Length: 1 to 63 characters.	N/A
Description	Description for the IPv6 address object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of IPv6 address objects	N/A	Unsigned integer.	N/A
InUse	Whether the IPv6 address object group is in use	N/A	Boolean: • **true**—The IPv6 address object group is in use. • **false**—The IPv6 address object group is not in use.	N/A
SecurityZone	Security zone of the IPv6 address object group	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjList	List of IPv6 address objects	Data structure	Members include: • ID. • Type. • SubnetIPv6Address. • IPv6PrefixLen.. • StartIPv6Address. • EndIPv6Address. • HostIPv6Address. • HostName. • NestedGroup. • User. • UserDomain. • UserGroup. • UserGroupDomain. • ExcludeIPv6Address.	N/A
ID	ID of the IPv6 address object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv6 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User Group.	N/A
SubnetIPv6Address	IPv6 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv6PrefixLen	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	The value of this column is valid if Type is **1**.
StartIPv6Address	Start IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
EndIPv6Address	End IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
HostIPv6Address	IPv6 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is

Column name	Column description	Column type	Data type and restrictions	Remarks
				3.
HostName	Host name	N/A	String. Length: 1 to 253 characters.	The value of this column is valid if Type is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
User	Name of the user	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ExcludeIPv6Address	Excluded IPv6 address	N/A	String, dotted decimal notation.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A
AllGroupsCount	Number of IPv6 address groups	N/A	Unsigned integer.	N/A
InSecpUse	Whether the IPv6 address object group is used by Security policy	N/A	Boolean: • **true**—The IPv6 address object group is used by Security policy. • **false**—The IPv6 address object group is not used by Security policy.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InNATUse	Whether the IPv6 address object group is used by NAT	N/A	Boolean: • **true**—The IPv6 address object group is used by NAT. • **false**—The IPv6 address object group is not used by NAT.	N/A

OMS/ServicePaging

This table contains information about service object groups and service objects.

XML structure

```
<OMS>
  <ServicePaging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ServiceType></ServiceType>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <Protocol></Protocol>
        <StartSrcPort></StartSrcPort>
        <EndSrcPort></EndSrcPort>
        <StartDestPort></StartDestPort>
        <EndDestPort></EndDestPort>
        <ICMPType></ICMPType>
        <ICMPCode></ICMPCode>
        <NestedGroup></NestedGroup>
        <ObjDescription></ObjDescription>
      </ObjList>
      <AllGroupsCount></AllGroupsCount>
      <InSecpUse></InSecpUse>
      <InNATUse></InNATUse>
    </Group>
  </ServicePaging>
</OMS>
```

Table description

Item	Description
Feature name	OMS

Item	Description
Table name	ServicePaging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service object group	Index	String. Length: 1 to 63 characters.	N/A
Description	Description for the service object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of service objects	N/A	Unsigned integer.	N/A
InUse	Whether the service object group is in use	N/A	Boolean: • **true**—The service object group is in use. • **false**—The service object group is not in use.	N/A
ServiceType	Type of the service object group	N/A	Enumeration: • **0**—System defined service object group. • **1**—User defined service object group.	N/A
ObjList	List of service objects	Data structure	Members include: • ID. • Type. • Protocol. • StartSrcPort.. • EndSrcPort. • StartDestPort. • EndDestPort. • ICMPType. • ICMPCode. • NestedGroup.	N/A
ID	ID of the service object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the service object	N/A	Enumeration: • **0**—Nested group. • **1**—Protocol. This type	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			specifies protocols other than the listed ones. • **2**—ICMP (protocol number 1). • **3**—TCP (protocol number 6). • **4**—UDP (protocol number 17). • **5**—ICMPv6 (protocol number 58). • **6**—SCTP (protocol number 132).	
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **1**.
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is **3 4** or **6**.
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **2** or **5**.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is **2** or **5**.
NestedGroup	Name of the nested service object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A
AllGroupsCount	Number of service groups	N/A	Unsigned integer.	N/A
InSecpUse	Whether the service object group is used	N/A	Boolean: • **true**—The service	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	by Security policy		object group is used by Security policy. • **false**—The service object group is not used by Security policy.	
InNATUse	Whether the service object group is used by NAT	N/A	Boolean: • **true**—The service object group is used by NAT. • **false**—The service object group is not used by NAT.	N/A

OMS/GetIPv4ObjData

This table contains information about IPv4 address object groups, IPv4 address objects, and excluded IPv4 addresses.

XML structure

```
<OMS>
  <GetIPv4ObjData>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <IPv4WildcardAddress></IPv4WildcardAddress>
      <IPv4WildcardMask></IPv4WildcardMask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <VRF></VRF>
      <NestedGroup></NestedGroup>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ExcludeIPv4Address></ExcludeIPv4Address>
      <ObjDescription></ObjDescription>
    </Obj>
  </GetIPv4ObjData>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	GetIPv4ObjData
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv4 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User group. • 7—Wildcard.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **7**.
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is

Column name	Column description	Column type	Data type and restrictions	Remarks
				2.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **3**.
HostName	Host name	N/A	String. Length: 1 to 253 characters.	The value of this column is valid if Type is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
User	Name of the user	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ExcludeIPv4Address	Excluded IPv4 address	N/A	String, dotted decimal notation.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/GetIPv6ObjData

This table contains information about IPv6 address object groups, IPv6 address objects, and excluded IPv6 addresses.

XML structure

```
<OMS>
  <GetIPv6ObjData>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
      <IPv6PrefixLen></IPv6PrefixLen>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <HostIPv6Address></HostIPv6Address>
      <HostName></HostName>
      <VRF></VRF>
      <NestedGroup></NestedGroup>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ExcludeIPv6Address></ExcludeIPv6Address>
      <ObjDescription></ObjDescription>
    </Obj>
  </GetIPv6ObjData>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	GetIPv6ObjData
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the IPv6 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User Group.	N/A
SubnetIPv6Address	IPv6 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **1**.
IPv6PrefixLen	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	The value of this column is valid if Type is **1**.
StartIPv6Address	Start IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
EndIPv6Address	End IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **2**.
HostIPv6Address	IPv6 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is **3**.
HostName	Host name	N/A	String. Length: 1 to 253 characters.	The value of this column is valid if Type is **4**.
VRF	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is **0**.
User	Name of the user.	N/A	String. Length: 1 to 55 characters.	The value of this column is valid if Type is **5**.
UserDomain	Name of the user domain.	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **5**.

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroup	Name of the user group.	N/A	String. Length: 1 to 32 characters.	The value of this column is valid if Type is **6**.
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	The value of this column is valid if Type is **6**.
ExcludeIPv6Address	Excluded IPv6 address.	N/A	String, dotted decimal notation.	N/A
ObjDescription	Description for the object	N/A	String. Length: 1 to 127 characters.	N/A

OMS/DnsAging

This table contains information about the aging function of IP address obtained through DNS resolution.

XML structure

```
<OMS>
  <DnsAging>
    <Enable></Enable>
    <AgingTime></AgingTime>
  </DnsAging>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	DnsAging
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	Required. Defalut: Not enable

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Aging time value in minutes	N/A	Unsigned integer. Value range: 1 to 70000000.	The value of this column is valid if Enable is **true**. Defalut value: 120

OMS/IPv4Exclude

This table contains IPv4 exclude address information.

XML structure

```
<OMS>
  <IPv4Exclude>
    <Address>
      <Group></Group>
      <ID></ID>
      <ExcludeIPv4Address></ExcludeIPv4Address>
    </Address>
  </IPv4Exclude>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Exclude
Table type	Multi-instance table
Row name	Address
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ExcludeIPv4Address	IPv4 exclude address	N/A	String. Dotted decimal notation.	Required

OMS/IPv6Exclude

This table contains IPv6 exclude address information.

XML structure

```
<OMS>
  <IPv6Exclude>
    <Address>
      <Group></Group>
      <ID></ID>
      <ExcludeIPv6Address></ExcludeIPv6Address>
    </Address>
  </IPv6Exclude>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Exclude
Table type	Multi-instance table
Row name	Address
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 63 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967294.	N/A
ExcludeIPv6Address	IPv6 exclude address	N/A	Hexadecimal string. Colon-separated.	Required.

Contents

OMS 1
OMS 1

OMS

OMS

Message	Explanation
The object group name is used by an object group of different type. 存在同名不同类型的对象组。	Object group name is occupied by other types of object groups. 对象组名称被其他类型的对象组占用。
The default object group can't be modified. 系统定义对象组不能修改。	Modify system predefined object groups. 修改系统预定义的对象组。
The default object group can't be deleted. 系统定义对象组不能删除。	Delete system predefined object groups. 删除系统预定义的对象组。
Deleting the group failed: Wrong group type. 对象组类型不匹配。	The specified type is incorrect when deleting an object group. 删除对象组时指定类型错误。
This object group is already referenced. 对象组正在被使用。	Deleted object groups are referenced by other modules. 删除的对象组被其他模块引用。
The ID can't be automatically assigned. Please specify a valid ID. 自动分配的对象编号超出了范围，请指定一个有效的对象编号。	Create a rule without specifying a number, the number of internal assignments exceeds the maximum value. 不指定编号创建规则，内部分配的编号超过最大值。
An object group can't reference an object group of different type. 被嵌套对象组类型不一致。	Nested object group types are inconsistent with parent object group types. 嵌套的对象组类型与父对象组类型不一致。
Maximum number of reference hierarchy layers (5) already reached. 嵌套层数最大支持5层。	The object group to be nested is already the sixth layer. 将要嵌套的对象组已经是第六层。
Two object groups can't reference each other. 不能形成循环引用。	A nested sub-object group cannot nest its parent object group. 被嵌套的子对象组不能嵌套其父对象组。
Invalid mask. 无效的掩码。	The address mask entered is incorrect. 输入的地址掩码错误。
Maximum number of objects already reached. 对象组中对象的个数超过了限制。	Object group configuration rules reach the upper limit. 对象组配置的规则达到上限。
The object already exists. 此对象已经存在。	The newly created rule content is the same as the other rule content that already exists. 新创建的规则内容与已存在的其他规则内容相同。
This object group can't be referenced. 此对象组不可以被引用。	System predefined object group “any” cannot be nested. 系统预定义的对象组any不能被嵌套。

Contents

O01 1
O01/address 1
XML structure 1
Table description 1
Columns 1
O02 2
O02/address_ipv6 2
XML structure 2
Table description 3
Columns 3
O03 4
O03/ip_group_object 4
XML structure 4
Table description 4
Columns 5
O04 5
O04/service_object 5
XML structure 5
Table description 5
Columns 6
O05 6
O05/service_group_object 6
XML structure 6
Table description 7
Columns 7

O01

O01/address

This table contains IPv4 address object and group information.

XML structure

```
<O01>
  <address>
    <data>
      <ip_object_id></ip_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <object_list>
        <type></type>
        <address></address>
      </object_list>
      <except_object_list>
        <type></type>
        <address></address>
      </except_object_list>
    </data>
  </address>
</O01>
```

Table description

Item	Description
Feature name	O01
Table name	address
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ip_object_id	ID of the IPv4 address object	Index	String, case-insensitive. Length: 1 to 63 characters.
name	Name of the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
description	Description for the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.
object_list	List of IPv4 address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.
address	Address of the IPv4 address object	N/A	String
except_object_list	List of IPv4 except address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.
address	Address of the IPv4 except address object	N/A	String

O02

O02/address_ipv6

This table contains IPv6 address object and group information.

XML structure

```
<O02>
  <address_ipv6>
    <data>
      <ip_object_id></ip_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <object_list>
        <type></type>
        <address></address>
      </object_list>
      <except_object_list>
```

```
      <type></type>
      <address></address>
    </except_object_list>
  </data>
 </address_ipv6>
</O02>
```

Table description

Item	Description
Feature name	O02
Table name	address_ipv6
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ip_object_id	ID of the IPv6 address object	Index	String, case-insensitive. Length: 1 to 63 characters.	Ip_object_id
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.	name
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.	description
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.	tenant_id
object_list	List of IPv6 address objects	N/A	Members include: • type. • address.	object_list
type	Type of the IPv6 address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 address object	N/A	String	address
except_object_list	List of IPv6 except address objects	N/A	Members include: • type. • address.	except_object_list

Column name	Column description	Column type	Data type and restrictions	Remarks
type	Type of the IPv6 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 except address object	N/A	String	address

O03

O03/ip_group_object

This table contains IPv4 and IPv6 address object group information.

XML structure

```
<O03>
  <ip_group_object>
    <data>
      <ip_group_object_id></ip_group_object_id>
      <ip_object_ids></ip_object_ids>
      <group_ip_type></group_ip_type>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
    </data>
  </ip_group_object>
</O03>
```

Table description

Item	Description
Feature name	O03
Table name	ip_group_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ip_group_object_id	ID of the group	Index	String, case-insensitive. Length: 1 to 63 characters.
ip_object_ids	ID of the object	N/A	String, case-insensitive. Length: 1 to 63 characters.
group_ip_type	Type of the group	N/A	Enumeration: string • **IPv4**—IPv4 group. • **IPv6**—IPv6 group.
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.

O04

O04/service_object

This table contains ct service object information.

XML structure

```
<O04>
  <service_object>
    <data>
      <service_object_id></service_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <service_object></service_object>
    </data>
  </service_object>
</O04>
```

Table description

Item	Description
Feature name	O04
Table name	service_object

Item	Description
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
service_object_id	UUID of the service object	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object	Protocol and port information for the service object	N/A	String.

O05

O05/service_group_object

This table contains ct service object group information.

XML structure

```
<O05>
  <service_group_object>
    <data>
      <service_group_object_id></service_group_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <service_object_ids></service_object_ids>
    </data>
  </service_group_object>
</O05>
```

Table description

Item	Description
Feature name	O05
Table name	service_group_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
service_group_object_id	UUID of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object group	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object group	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object group	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object_ids	Service object information of the service object group	N/A	String. Array

Contents

O01 1
- O01/address 1
  - XML structure 1
  - Table description 1
  - Columns 1
- O01/addresses 2
  - XML structure 2
  - Table description 3
  - Columns 3

O02 4
- O02/address_ipv6 4
  - XML structure 4
  - Table description 4
  - Columns 5
- O02/addresses_ipv6 5
  - XML structure 5
  - Table description 6
  - Columns 6

O03 7
- O03/ip_group_object 7
  - XML structure 7
  - Table description 8
  - Columns 8
- O03/ip_group_objects 8
  - XML structure 8
  - Table description 9
  - Columns 9

O04 9
- O04/service_object 9
  - XML structure 9
  - Table description 10
  - Columns 10
- O04/service_objects 10
  - XML structure 10
  - Table description 11
  - Columns 11

O05 11
- O05/service_group_object 11
  - XML structure 12
  - Table description 12
  - Columns 12
- O05/service_group_objects 12
  - XML structure 13
  - Table description 13
  - Columns 13

O01

O01/address

This table contains IPv4 address object and group information.

XML structure

```
<O01>
  <address>
    <data>
      <ip_object_id></ip_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <object_list>
        <type></type>
        <address></address>
      </object_list>
      <except_object_list>
        <type></type>
        <address></address>
      </except_object_list>
    </data>
  </address>
</O01>
```

Table description

Item	Description
Feature name	O01
Table name	address
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ip_object_id	ID of the IPv4 address object	Index	String, case-insensitive. Length: 1 to 63 characters.
name	Name of the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
description	Description for the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.
object_list	List of IPv4 address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.
address	Address of the IPv4 address object	N/A	String
except_object_list	List of IPv4 except address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.
address	Address of the IPv4 except address object	N/A	String

O01/addresses

Get information about IP object addresses in bulk.

XML structure

```
<O01>
  <addresses>
    <data>
      <result>
        <ip_object_id></ip_object_id>
        <name></name>
        <description></description>
        <tenant_id></tenant_id>
        <object_list>
          <type></type>
          <address></address>
        </object_list>
        <except_object_list>
          <type></type>
          <address></address>
```

```
      </except_object_list>
    </result>
  </data>
 </addresses>
</O01>
```

Table description

Item	Description
Feature name	O01
Table name	addresses
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ip_object_id	ID of the IPv4 address object	Index	String, case-insensitive. Length: 1 to 63 characters.
name	Name of the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description for the IPv4 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.
object_list	List of IPv4 address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.
address	Address of the IPv4 address object	N/A	String
except_object_list	List of IPv4 except address objects	N/A	Members include: • type. • address.
type	Type of the IPv4 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host**—Host. • **network**—Subnet. • **range**—Range.

Column name	Column description	Column type	Data type and restrictions
address	Address of the IPv4 except address object	N/A	String

O02

O02/address_ipv6

This table contains IPv6 address object and group information.

XML structure

```
<O02>
  <address_ipv6>
    <data>
      <ip_object_id></ip_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <object_list>
        <type></type>
        <address></address>
      </object_list>
      <except_object_list>
        <type></type>
        <address></address>
      </except_object_list>
    </data>
  </address_ipv6>
</O02>
```

Table description

Item	Description
Feature name	O02
Table name	address_ipv6
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ip_object_id	ID of the IPv6 address object	Index	String, case-insensitive. Length: 1 to 63 characters.	Ip_object_id
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.	name
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.	description
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.	tenant_id
object_list	List of IPv6 address objects	N/A	Members include: • type. • address.	object_list
type	Type of the IPv6 address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 address object	N/A	String	address
except_object_list	List of IPv6 except address objects	N/A	Members include: • type. • address.	except_object_list
type	Type of the IPv6 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 except address object	N/A	String	address

O02/addresses_ipv6

This table contains IPv6 address object and group information.

XML structure

```
<O02>
  <addresses_ipv6>
    <data>
```

```
      <result>
        <ip_object_id></ip_object_id>
        <name></name>
        <description></description>
        <tenant_id></tenant_id>
        <object_list>
          <type></type>
          <address></address>
        </object_list>
        <except_object_list>
          <type></type>
          <address></address>
        </except_object_list>
      </result>
    </data>
  </addresses_ipv6>
</O02>
```

Table description

Item	Description
Feature name	O02
Table name	addresses_ipv6
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ip_object_id	ID of the IPv6 address object	Index	String, case-insensitive. Length: 1 to 63 characters.	Ip_object_id
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.	name
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.	description
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.	tenant_id
object_list	List of IPv6 address objects	N/A	Members include: • type. • address.	object_list

Column name	Column description	Column type	Data type and restrictions	Remarks
type	Type of the IPv6 address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 address object	N/A	String	address
except_object_list	List of IPv6 except address objects	N/A	Members include: • type. • address.	except_object_list
type	Type of the IPv6 except address object	N/A	Enumeration: string (“network” “host” “range”) • **host_ipv6**—Host. • **network_ipv6**—Subnet. • **range_ipv6**—Range.	type
address	Address of the IPv6 except address object	N/A	String	address

O03

O03/ip_group_object

This table contains IPv4 and IPv6 address object group information.

XML structure

```
<O03>
  <ip_group_object>
    <data>
      <ip_group_object_id></ip_group_object_id>
      <ip_object_ids></ip_object_ids>
      <group_ip_type></group_ip_type>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
    </data>
  </ip_group_object>
</O03>
```

Table description

Item	Description
Feature name	O03
Table name	ip_group_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ip_group_object_id	ID of the group	Index	String, case-insensitive. Length: 1 to 63 characters.
ip_object_ids	ID of the object	N/A	String, case-insensitive. Length: 1 to 63 characters.
group_ip_type	Type of the group	N/A	Enumeration: string • **IPv4**—IPv4 group. • **IPv6**—IPv6 group.
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.

O03/ip_group_objects

This table contains IPv4 and IPv6 address object group information.

XML structure

```
<O03>
  <ip_group_objects>
    <data>
      <result>
        <ip_group_object_id></ip_group_object_id>
        <ip_object_ids></ip_object_ids>
        <group_ip_type></group_ip_type>
        <name></name>
        <description></description>
        <tenant_id></tenant_id>
```

```
    </result>
   </data>
  </ip_group_objects>
</O03>
```

Table description

Item	Description
Feature name	O03
Table name	ip_group_objects
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ip_group_object_id	ID of the group	Index	String, case-insensitive. Length: 1 to 63 characters.
ip_object_ids	ID of the object	N/A	String, case-insensitive. Length: 1 to 63 characters.
group_ip_type	Type of the group	N/A	Enumeration: string • **IPv4**—IPv4 group. • **IPv6**—IPv6 group.
name	Name of the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description for the IPv6 address object	N/A	String, case-insensitive. Length: 1 to 127 characters.
tenant_id	ID of the tenant object	N/A	String, case-insensitive. Length: 1 to 63 characters.

O04

O04/service_object

This table contains ct service object information.

XML structure

```
<O04>
  <service_object>
```

```
    <data>
      <service_object_id></service_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <service_object></service_object>
    </data>
  </service_object>
</O04>
```

Table description

Item	Description
Feature name	O04
Table name	service_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
service_object_id	UUID of the service object	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object	Protocol and port information for the service object	N/A	String. Array

O04/service_objects

This table contains ct get-bulk service object information.

XML structure

```
<O04>
  <service_objects>
    <data>
```

```
      <result>
        <service_object_id></service_object_id>
        <name></name>
        <description></description>
        <tenant_id></tenant_id>
        <service_object></service_object>
      </result>
    </data>
  </service_objects>
</O04>
```

Table description

Item	Description
Feature name	O04
Table name	Service_objects
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
service_object_id	UUID of the service object	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object	Protocol and port information for the service object	N/A	String. Array

O05

O05/service_group_object

This table contains ct service object group information.

XML structure

```
<O05>
  <service_group_object>
    <data>
      <service_group_object_id></service_group_object_id>
      <name></name>
      <description></description>
      <tenant_id></tenant_id>
      <service_object_ids></service_object_ids>
    </data>
  </service_group_object>
</O05>
```

Table description

Item	Description
Feature name	O05
Table name	service_group_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
service_group_object_id	UUID of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object group	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object group	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object group	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object_ids	Service object information of the service object group	N/A	String. Array

O05/service_group_objects

This table contains ct get-bulk service object group information.

XML structure

```
<O05>
  <service_group_objects>
    <data>
      <result>
        <service_group_object_id></service_group_object_id>
        <tenant_id></tenant_id>
        <name></name>
        <description></description>
        <service_object_ids></service_object_ids>
      </result>
    </data>
  </service_group_objects>
</O05>
```

Table description

Item	Description
Feature name	O05
Table name	service_group_objects
Table type	Multi-instance table
Row name	data
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
service_group_object_id	UUID of the service object group	Index	String, case insensitive. Length: 1 to 63 characters.
name	Name of the service object group	N/A	String. case insensitive Length: 1 to 63 characters.
description	Description for the service object group	N/A	String. case insensitive Length: 1 to 127 characters.
tenant_id	Tenant UUID of the service object group	N/A	String. case insensitive. Length: 1 to 63 characters.
service_object_ids	Service object information of the service object group	N/A	String. Array

Contents

ONVIF 1
ONVIF/ResetSnoopingInformationTable 1
XML structure 1
Table description 1
Columns 1

ONVIF

ONVIF/ResetSnoopingInformationTable

This table is used to reset the SnoopingInformation.

XML structure

```
<ONVIF>
  <ResetSnoopingInformationTable>
    <ResetSnoopingInformation>
      <IfIndex></IfIndex>
    </ResetSnoopingInformation>
  </ResetSnoopingInformationTable>
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	ResetSnoopingInformationTable
Table type	Multi-instance table
Row name	ResetSnoopingInformation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the value of the column is set to 0, all entries will be cleared.

Contents

ONVIF 1
ONVIF/Base 1
XML structure 1
Table description 1
Columns 1
ONVIF/ProbeInterfaces 1
XML structure 1
Table description 2
Columns 2

ONVIF

ONVIF/Base

This table contains information about ONVIF Base.

XML structure

```
<ONVIF>
  <Base>
    <SnoopingEnable></SnoopingEnable>
  </Base>
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnoopingEnable	The status of the snooping function	N/A	Boolean: • true • false(default)	N/A

ONVIF/ProbeInterfaces

This table contains information about ONVIF Probe interfaces.

XML structure

```
<ONVIF>
  <ProbeInterfaces>
    <ProbeInterface>
```

```
      <IfName></IfName>
      <Enable></Enable>
      <Interval></Interval>
    </ProbeInterface>
  </ProbeInterfaces >
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	ProbeInterfaces
Table type	Multi-instance table
Row name	ProbeInterface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of the interface	Index	String. Length: 2 to 47 characters.	N/A
Enable	The status of the probe function	N/A	Boolean: • true • false(default)	N/A
Interval	Interval to probe in seconds	N/A	Unsigned integer. Value range: 10 to 300	N/A

Contents

ONVIF 1
ONVIF/Base 1
XML structure 1
Table description 1
Columns 1
ONVIF/Snoopings 1
XML structure 1
Table description 2
Columns 2
ONVIF/ProbeInterfaces 3
XML structure 3
Table description 3
Columns 3

ONVIF

ONVIF/Base

This table contains ONVIF Base information.

XML structure

```
<ONVIF>
  <Base>
    <SnoopingEnable></SnoopingEnable>
  </Base>
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnoopingEnable	The status of the Snooping function	N/A	Boolean: • true • false	N/A

ONVIF/Snoopings

This table contains ONVIF Snoopings information.

XML structure

```
<ONVIF>
  <Snoopings>
    <Snooping>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
```

```
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <OnlineFlag></OnlineFlag>
      <IfName></IfName>
      <Hardware></Hardware>
      <EndpointName></EndpointName>
    </Snooping>
  </Snoopings>
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	Snoopings
Table type	Multi-instance table
Row name	Snooping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	The MAC address of the detected endpoint	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	The VLAN ID of the detected endpoint	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Ipv4Address	The IP address of the detected endpoint	N/A	IPv4 address.	Example: 192.168.254.24
Ipv6Address	The IPv6 address of the detected endpoint	N/A	IPv6 address	Example: fe80::5c96:ebc1:2080:c81
OnlineFlag	The status of the endpoint.	N/A	Enumeration: • 0—Offline. • 1—Online.	N/A
IfName	Full name of the endpoint's interface.	N/A	String. Length: 2 to 47 characters.	N/A
Hardware	Hardware of the endpoint	N/A	String. Length:1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndpointName	Name of the endpoint	N/A	String. Length: 1 to 63 characters.	N/A

ONVIF/ProbeInterfaces

This table contains OVIF Probe interfaces information.

XML structure

```
<ONVIF>
  <ProbeInterfaces>
    <ProbeInterface>
      <IfName></IfName>
      <Enable></Enable>
      <Interval></Interval>
    </ProbeInterface>
  </ProbeInterfaces>
</ONVIF>
```

Table description

Item	Description
Feature name	ONVIF
Table name	ProbeInterfaces
Table type	Multi-instance table
Row name	ProbeInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of the interface	Index	String. Length: 2 to 47 characters.	N/A
Enable	The status of the Probe function	N/A	Boolean: • true • false	N/A
Interval	Interval to probe in seconds	N/A	Unsigned integer. Value range: 10 to 300	N/A

Contents

ONVIF 2
ONVIF/Base 2
ONVIF/Snoopings 2
ONVIF/ProbeInterfaces 2
ONVIF/ResetSnoopingInfomationTable 2

ONVIF

ONVIF/Base

Message	Explanation
None. 无。	None.

ONVIF/Snoopings

Message	Explanation
None. 无。	None.

ONVIF/ProbeInterfaces

Message	Explanation
None. 无。	None.

ONVIF/ResetSnoopingInfomationTable

Message	Explanation
None. 无。	None.

Contents

openconfig-lldp 1

lldp 1
XML structure 1
Table description 1
Columns 2
lldp/state 2
XML structure 2
Table description 2
Columns 2
lldp/interfaces 2
XML structure 3
Table description 3
Columns 3
lldp/interfaces/interface 3
XML structure 3
Table description 3
Columns 4
lldp/interfaces/interface/neighbors 4
XML structure 4
Table description 4
Columns 4
lldp/interfaces/interface/neighbors/neighbor 5
XML structure 5
Table description 5
Columns 5
lldp/interfaces/interface/neighbors/neighbor/state 5
XML structure 5
Table description 6
Columns 6

openconfig-lldp

lldp

This table contains lldp information.

XML structure

```
<lldp>
  <state>
    <enabled></enabled>
  </state>
  <interfaces>
    <interface>
      <name></name>
      <neighbors>
        <neighbor>
          <id></id>
          <state>
            <system-name></system-name>
            <system-description></system-description>
            <chassis-id></chassis-id>
            <id></id>
            <port-id></port-id>
            <port-description></port-description>
            <management-address></management-address>
          </state>
        </neighbor>
      </neighbors>
    </interface>
  </interfaces>
</lldp>
```

Table description

Item	Description
Feature name	openconfig-lldp
Table name	lldp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Global LLDP information	Subtable	N/A	For more information, see the openconfig-lldp/lldp/state table.
interfaces	Interface table	Sublist	N/A	For more information, see the openconfig-lldp/lldp/interfaces table.

lldp/state

This table contains lldp/state information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Whether LLDP is enabled globally.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Read.

lldp/interfaces

This table contains lldp/interfaces information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the openconfig-lldp/lldp/interfaces/interface table.

lldp/interfaces/interface

This table contains lldp/interfaces/interface information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read.
neighbors	Neighbor information	Sublist	N/A	For more information, see the openconfig-lldp/lldp/interfaces/interface/neighbors table

lldp/interfaces/interface/neighbors

This table contains lldp/interfaces/interface/neighbors information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	neighbors
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor	Neighbor table	Sublist	N/A	For more information, see the openconfig-lldp/lldp/interfaces/interface/neighbors/neighbor table.

lldp/interfaces/interface/neighbors/neighbor

This table contains lldp/interfaces/interface/neighbors/neighbor information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	neighbor
Table type	Multi-instance table
Row name	neighbor
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Neighbor index	Index	String. Only contains number character. Length: 0 to 255 characters. Example: 1	Read.
state	Neighbor information	Subtable	N/A	For more information, see the openconfig-lldp/lldp/interfaces/interface/neighbors/neighbor/state table.

lldp/interfaces/interface/neighbors/neighbor/state

This table contains lldp/interfaces/interface/neighbors/neighbor/state information.

XML structure

See the XML structure of openconfig-lldp/lldp.

Table description

Item	Description
Feature name	openconfig-lldp
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
system-name	System name	N/A	String. Length: 0 to 255 characters.	Read.
system-description	System description	N/A	String. Length: 0 to 255 characters.	Read.
chassis-id	Chassis identifier information	N/A	String. Length: 0 to 255 characters.	Read.
id	Neighbor index	N/A	String. Length: 0 to 255 characters.	Read.
port-id	Port identifier information	N/A	String. Length: 0 to 255 characters.	Read.
port-description	Port description	N/A	String. Length: 0 to 255 characters.	Read.
management-address	Management address	N/A	String. Length: 0 to 255 characters.	Read.

Contents

openconfig-acl 1

acl 1
XML structure 1
Table description 2
Columns 2
acl/acl-sets 3
XML structure 3
Table description 3
Columns 3
acl/acl-sets/acl-set 3
XML structure 3
Table description 3
Columns 4
acl/acl-sets/acl-set/config 4
XML structure 4
Table description 4
Columns 4
acl/acl-sets/acl-set/acl-entries 5
XML structure 5
Table description 5
Columns 5
acl/acl-sets/acl-set/acl-entries/acl-entry 5
XML structure 6
Table description 6
Columns 6
acl/acl-sets/acl-set/acl-entries/acl-entry/config 7
XML structure 7
Table description 7
Columns 7
acl/acl-sets/acl-set/acl-entries/acl-entry/l2 7
XML structure 7
Table description 7
Columns 8
acl/acl-sets/acl-set/acl-entries/acl-entry/l2/config 8
XML structure 8
Table description 8
Columns 8
acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4 9
XML structure 9
Table description 9
Columns 9
acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4/config 10
XML structure 10
Table description 10
Columns 10
acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6 11
XML structure 11
Table description 11
Columns 11
acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6/config 12
XML structure 12
Table description 12
Columns 12
acl/acl-sets/acl-set/acl-entries/acl-entry/transport 13
XML structure 13
Table description 13
Columns 13

acl/acl-sets/acl-set/acl-entries/acl-entry/transport/config ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
acl/acl-sets/acl-set/acl-entries/acl-entry/actions ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
acl/acl-sets/acl-set/acl-entries/acl-entry/actions/config ····· 15
XML structure ····· 15
Table description ····· 16
Columns ····· 16

openconfig-acl

acl

This table contains acl information.

XML structure

```
<acl>
  <acl-sets>
    <acl-set>
      <name></name>
      <type></type>
      <config>
        <name></name>
        <type></type>
        <description></description>
      </config>
      <acl-entries>
        <acl-entry>
          <sequence-id></sequence-id>
          <config>
            <sequence-id></sequence-id>
            <description></description>
          </config>
          <l2>
            <config>
              <source-mac></source-mac>
              <source-mac-mask></source-mac-mask>
              <destination-mac></destination-mac>
              <destination-mac-mask></destination-mac-mask>
              <ethertype></ethertype>
            </config>
          </l2>
          <ipv4>
            <config>
              <source-address></source-address>
              <destination-address></destination-address>
              <dscp></dscp>
              <protocol></protocol>
              <hop-limit></hop-limit>
            </config>
          </ipv4>
          <ipv6>
            <config>
              <source-address></source-address>
```

```
            <source-flow-label></source-flow-label>
            <destination-address></destination-address>
            <dscp></dscp>
            <protocol></protocol>
            <hop-limit></hop-limit>
          </config>
        </ipv6>
        <transport>
          <config>
            <source-port></source-port>
            <destination-port></destination-port>
            <tcp-flags></tcp-flags>
          </config>
        </transport>
        <actions>
          <config>
            <forwarding-action></forwarding-action>
            <log-action></log-action>
          </config>
        </actions>
      </acl-entry>
    </acl-entries>
  </acl-set>
 </acl-sets>
</acl>
```

Table description

Item	Description
Feature name	Openconfig-acl
Table name	acl
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
acl-sets	Access list entries variables enclosiong container	Subtable	N/A	N/A

acl/acl-sets

This table contains acl/acl-sets information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	openconfig-acl
Table name	acl-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
acl-set	List of ACL sets, each comprising of a list of ACL entries	Sublist	N/A	For more information, see the acl/acl-sets/acl-set table.

acl/acl-sets/acl-set

This table contains acl/acl-sets/acl-set information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	acl-set
Table type	Multi-instance table
Row name	acl-set
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the access-list set	Index	String Length: 1 to 63 characters	N/A
type	The type determines the field allowed in the ACL entries belonging to the ACL set	Index	Enumeration string: • ACL_IPV4. • ACL_IPV6. • ACL_L2. • ACL_MIXED.	ACL_MIXED type is not supported at this time
config	Access list config	Subtable	N/A	N/A
acl-entries	Access list entries container	Subtable	N/A	N/A

acl/acl-sets/acl-set/config

This table contains acl/acl-sets/acl-set/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the access-list set	index	String Length: 1 to 63 characters	N/A
type	The type determines the field allowed in the ACL entries belonging to the ACL set	Index	Enumeration string: • ACL_IPV4. • ACL_IPV6. • ACL_L2. • ACL_MIXED.	ACL_MIXED type is not supported at this time
description	Description, or comment, for the ACL set	N/A	String, characters. Length: 1 to 127 characters.	N/A

acl/acl-sets/acl-set/acl-entries

This table contains acl/acl-sets/acl-set/acl-entries information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	acl-entries
Table type	Single -instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
acl-entry	List of ACL entries comprising an ACL set	Sublist	N/A	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry information.

XML structure

Please refer to the XML structure of acl

Table description

Item	Description
Feature name	Openconfig-acl
Table name	acl-entry
Table type	Multi -instance table
Row name	acl-entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sequence-id	references the list key	index	Uint32 Value range: 0 to 65534	N/A
config	Access list entries config	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/config table
l2	MAC-layer fields are valid when the ACL type is L2	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/l2 table.
ipv4	IPv4-layer fields are valid when the ACL type is IPv4	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4 table.
ipv6	IPv6-layer fields are valid when the ACL type is IPv6	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6 table.
transport	Transport fields are valid when the ACL type is IPv4 or IPv6	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/transport table.
actions	Enclosing container for list of ACL actions associated with an entry	Subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/actions table.

acl/acl-sets/acl-set/acl-entries/acl-entry/config

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/config information.

XML structure

Please refer to the XML structure of acl

Table description

Item	Description
Feature name	Openconfig-acl
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sequence-id	references the list key	index	Uint32 Value range: 0 to 65534	N/A
description	A user-defined description, or comment, for this Access List Entry.	N/A	string Length: 1 to 127 characters.	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry/l2

This table contains acl/acl-sets/acl-set acl-entries/acl-entry/l2 information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl

Item	Description
Table name	l2
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration data for l2 fields	subtable	N/A	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry/l2/config

This table contains acl/acl-sets/acl-set acl-entries/acl-entry/l2/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-mac	Source IEEE 802 MAC address.	N/A	String	Example: ff: ff: ff: ff: ff: ff
source-mac-mask	Source IEEE 802 MAC address mask.	N/A	String	Example: ff: ff: ff: ff: ff: ff

Column name	Column description	Column type	Data type and restrictions	Remarks
destination-mac	Destination IEEE 802 MAC address mask.	N/A	String	Example: ff: ff: ff: ff: ff: ff
destination-mac-mask	Destination IEEE 802 MAC address mask.	N/A	String	Example: ff: ff: ff: ff: ff: ff
ethertype	Ethertype field to match in Ethernet packets	N/A	Union: 1.Uint16 Value range: 1536 to 65535 2. Enumeration string: • ETHERTYPE_IPV4. • ETHERTYPE_ARP. • ETHERTYPE_VLAN. • ETHERTYPE_IPV6. • ETHERTYPE_MPLS. • ETHERTYPE_LLDP. • ETHERTYPE_ROCE.	Support hexadecimal and decimal input

acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4 information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	Ipv4
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration data for IPv4 match fields	Subtable	N/A	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4/config

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/ipv4/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	acl-entry
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	Source IPv4 address prefix.	N/A	String An IPv4 prefix represented in dotted quad notation followed by a slash and a CIDR mask (0 <= mask <= 32).	Example: 1.1.1.1/32
destination-address	Destination IPv4 address prefix.	N/A	String An IPv4 prefix represented in dotted quad notation followed by a slash and a CIDR mask (0 <= mask <= 32).	Example: 1.1.1.1/32
dscp	Value of diffserv codepoint.	N/A	Uint8 Value range: 0 to 63.	
protocol	The protocol carried in the IP packet.	N/A	Union: 1.Uint8 Value range: 0 to 254 2. Enumeration string: • IP_TCP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• IP_UDP. • IP_ICMP. • IP_IGMP. • IP_PIM. • IP_RSVP. • IP_GRE. • IP_AUTH. • IP_L2TP.	
hop-limit	The IP packet's hop limit -- known as TTL (in hops) in IPv4 packets	N/A	Uint8; Value range: 0 to 255;	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6 information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	Ipv6
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration data for IPv6 match fields	Subtable	N/A	

acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6/config

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/ipv6/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	ipv6/config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	Source IPv6 address prefix.	N/A	String An IPv6 prefix represented in full, shortened, or mixed shortened format followed by a slash and CIDR mask (0 <= mask <= 128).	Example: ffff:ffff: ffff:ffff: ffff:ffff: ffff:ffff/128
source-flow-label	Destination IPv6 Flow label.	N/A	Uint32 Value range: 0 to 1048575.	
destination-address	Destination IPv6 address prefix.	N/A	String An IPv6 prefix represented in full, shortened, or mixed shortened format followed by a slash and CIDR mask (0 <= mask <= 128).	Example: ffff:ffff: ffff:ffff: ffff:ffff: ffff:ffff/128
dscp	Value of diffserv codepoint.	N/A	Uint8 Value range: 0 to 63.	N/A
protocol	The protocol carried	N/A	Union member:	IP_ICMP (1),

Column name	Column description	Column type	Data type and restrictions	Remarks
	in the IP packet, expressed either as its IP protocol number, or by a defined identity.		1.Uint8 Value range: 0 to 254 2. Enumeration string: • IP_TCP. • IP_UDP. • IP_ICMP. • IP_IGMP. • IP_PIM. • IP_RSVP. • IP_GRE. • IP_AUTH. • IP_L2TP.	IP_TCP (6) , IP_UDP (17) , IP_IGMP (2) , IP_RSVP (46) , IP_GRE (47) , IP_AUTH (51) , IP_PIM (103) , IP_L2TP (115)
hop-limit	The IP packet's hop limit in IPv6	N/A	Uint8; Value range: 0 to 255;	N/A

acl/acl-sets/acl-set/acl-entries/acl-entry/transport

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/transport information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	transport
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration data for transport fields	Subtable	N/A	

acl/acl-sets/acl-set/acl-entries/acl-entry/transport/config

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/transport/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	transport/config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-port	Source port or range	N/A	Union: 1. Uint16: Value Range: 0 to 65535 2. String	Port numbers may be represented as a single value, an inclusive range as <lower>..<higher>, or as ”ANY” to mean all legal port numbersFor example: range: “55..66”
destination-port	Destination port or range	N/A	Union: 1. Uint16: Value Range: 0 to 65535 2. String	Port numbers may be represented as a single value, an inclusive range as <lower>..<higher>, or as ”ANY” to mean all legal port numbers
tcp-flags	List of TCP flags to match	N/A	Enumeration string: • TCP_SYN. • TCP_FIN. • TCP_RST. • TCP_PSH. • TCP_ACK. • TCP_URG. • TCP_ECE. • TCP_CWR.	Common TCP flags used in packet header matches. ECE and CWR are not support in this time. Implement as string, every members separated by commas.

acl/acl-sets/acl-set/acl-entries/acl-entry/actions

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/actions information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	actions
Table type	Single-instance table
Row name	action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Config data for ACL actions	subtable	N/A	For more information, see the acl/acl-sets/acl-set/acl-entries/acl-entry/actions/config table.

acl/acl-sets/acl-set/acl-entries/acl-entry/actions/config

This table contains acl/acl-sets/acl-set/acl-entries/acl-entry/actions/config information.

XML structure

Please refer to the XML structure of acl.

Table description

Item	Description
Feature name	Openconfig-acl
Table name	config
Table type	single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
forwarding-action	Specifies the forwarding action.	N/A	Enumeration string: • ACCEPT. • DROP. • REJECT.	You must specify an action when you replace a entry, or when you merge or create a entry that does not exist. Reject action is not support at this time One forwarding action must be specified for each ACL entry.
log-action	Specifies the log action and destination for matched packets.	N/A	Enumeration string: • LOG_SYSLOG. • LOG_NONE.	The default log-action is LOG NONE

Contents

bgp 1

bgp 1
- XML structure 1
- Table description 4
- Columns 4

bgp/global 5
- XML structure 5
- Table description 5
- Columns 5

bgp/global/config 5
- XML structure 6
- Table description 6
- Columns 6

bgp/global/default-route-distance 6
- XML structure 6
- Table description 6
- Columns 7

bgp/global/default-route-distance/config 7
- XML structure 7
- Table description 7
- Columns 7

bgp/global/route-selection-options 7
- XML structure 8
- Table description 8
- Columns 8

bgp/global/route-selection-options/config 8
- XML structure 8
- Table description 8
- Columns 9

bgp/global/afi-safis 9
- XML structure 9
- Table description 9
- Columns 9

bgp/global/afi-safis/afi-safi 9
- XML structure 10
- Table description 10
- Columns 10

bgp/global/afi-safis/afi-safi/config 11
- XML structure 11
- Table description 11
- Columns 11

bgp/global/afi-safis/afi-safi/use-multiple-paths 12
- XML structure 12
- Table description 12
- Columns 12

bgp/global/afi-safis/afi-safi/use-multiple-paths/config 13
- XML structure 13
- Table description 13
- Columns 13

bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp 13
- XML structure 14
- Table description 14
- Columns 14

bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp/config 14
- XML structure 14
- Table description 14
- Columns 15

bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp/config ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 16
bgp/peer-groups ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
bgp/peer-groups/peer-group ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
bgp/peer-groups/peer-group/config ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
bgp/peer-groups/peer-group/timers ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
bgp/peer-groups/peer-group/timers/config ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 20
bgp/peer-groups/peer-group/apply-policy ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
bgp/peer-groups/peer-group/apply-policy/config ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 22
bgp/peer-groups/peer-group/afi-safis ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
bgp/peer-groups/peer-group/afi-safis/afi-safi ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
bgp/peer-groups/peer-group/afi-safis/afi-safi/config ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24
bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy/config ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
bgp/neighbors ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27
bgp/neighbors/neighbor ····· 27
XML structure ····· 27

Table description 27
Columns 28
bgp/neighbors/neighbor/config 28
XML structure 28
Table description 28
Columns 29
bgp/neighbors/neighbor/state 29
XML structure 29
Table description 30
Columns 30
bgp/neighbors/neighbor/timers 31
XML structure 31
Table description 31
Columns 31
bgp/neighbors/neighbor/timers/config 31
XML structure 31
Table description 32
Columns 32
bgp/neighbors/neighbor/apply-policy 32
XML structure 32
Table description 32
Columns 33
bgp/neighbors/neighbor/apply-policy/config 33
XML structure 33
Table description 33
Columns 33
bgp/neighbors/neighbor/afi-safis 33
XML structure 34
Table description 34
Columns 34
bgp/neighbors/neighbor/afi-safis/afi-safi 34
XML structure 34
Table description 34
Columns 35
bgp/neighbors/neighbor/afi-safis/afi-safi/config 35
XML structure 35
Table description 36
Columns 36
bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy 37
XML structure 37
Table description 37
Columns 37
bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy/config 37
XML structure 37
Table description 38
Columns 38
bgp/bgp-rib/afi-safis 38
XML structure 38
Table description 38
Columns 39
bgp/bgp-rib/afi-safis/afi-safi 39
XML structure 39
Table description 39
Columns 39
bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast 40
XML structure 40
Table description 40
Columns 40
bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib 41
XML structure 41
Table description 41
Columns 41

bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 42
bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes/route ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42

bgp

bgp

This table contains openconfig bgp information.

XML structure

```
<bgp>
  <global>
    <config>
      <as></as>
      <router-id></router-id>
    </config>
    <default-route-distance>
      <config>
        <external-route-distance></external-route-distance>
        <internal-route-distance></internal-route-distance>
      </config>
    </default-route-distance>
    <route-selection-options>
      <config>
        <always-compare-med></always-compare-med>
      </config>
    </route-selection-options>
    <afi-safis>
      <afi-safi>
        <afi-safi-name></afi-safi-name>
        <config>
          <afi-safi-name></afi-safi-name>
          <enabled></enabled>
        </config>
        <use-multiple-paths>
          <config>
            <enabled></enabled>
          </config>
          <ebgp>
            <config>
              <maximum-paths></maximum-paths>
            </config>
          </ebgp>
          <ibgp>
            <config>
              <maximum-paths></maximum-paths>
            </config>
          </ibgp>
```

```
      </use-multiple-paths>
    </afi-safi>
  </afi-safis>
</global>
<peer-groups>
  <peer-group>
    <peer-group-name></peer-group-name>
    <config>
      <peer-group-name></peer-group-name>
      <peer-as></peer-as>
      <peer-type></peer-type>
      <auth-password></auth-password>
      <send-community></send-community>
      <description></description>
    </config>
    <timers>
      <config>
        <minimum-advertisement-interval></minimum-advertisement-interval>
      </config>
    </timers>
    <apply-policy>
      <config>
        <import-policy></import-policy>
        <export-policy></export-policy>
      </config>
    </apply-policy>
    <afi-safis>
      <afi-safi>
        <afi-safi-name></afi-safi-name>
        <config>
          <afi-safi-name></afi-safi-name>
          <enabled></enabled>
        </config>
        <apply-policy>
          <config>
            <import-policy></import-policy>
            <export-policy></export-policy>
          </config>
        </apply-policy>
      </afi-safi>
    </afi-safis>
  </peer-group>
</peer-groups>
<neighbors>
  <neighbor>
    <neighbor-address></neighbor-address>
    <config>
      <neighbor-address></neighbor-address>
```

```
      <enabled></enabled>
      <peer-as></peer-as>
      <peer-group></peer-group>
      <auth-password></auth-password>
      <send-community></send-community>
      <description></description>
    </config>
    <state>
      <neighbor-address></neighbor-address>
      <enabled></enabled>
      <peer-as></peer-as>
      <session-state></session-state>
      <peer-group></peer-group>
      <auth-password></auth-password>
      <send-community></send-community>
      <description></description>
    </state>
    <timers>
      <config>
        <minimum-advertisement-interval></minimum-advertisement-interval>
      </config>
    </timers>
    <apply-policy>
      <config>
        <import-policy></import-policy>
        <export-policy></export-policy>
      </config>
    </apply-policy>
    <afi-safis>
      <afi-safi>
        <afi-safi-name></afi-safi-name>
        <config>
          <afi-safi-name></afi-safi-name>
          <enabled></enabled>
        </config>
        <apply-policy>
          <config>
            <import-policy></import-policy>
            <export-policy></export-policy>
          </config>
        </apply-policy>
      </afi-safi>
    </afi-safis>
  </neighbor>
</neighbors>
<bgp-rib>
  <afi-safis>
   <afi-safi>
```

```
      <afi-safi-name></afi-safi-name>
      <ipv4-unicast>
        <loc-rib>
          <routes>
            <route>
              <prefix></prefix>
              <origin></origin>
              <path-id></path-id>
            </route>
          </routes>
        </loc-rib>
      </ipv4-unicast>
    </afi-safi>
  </afi-safis>
 </bgp-rib>
</bgp>
```

Table description

Item	Description
Feature name	openconfig-bgp
Table name	bgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	global information	Subtable	N/A	For more information, see the bgp/global table.
peer-groups	peer-groups information	Subtable	N/A	For more information, see the bgp/peer-groups table.
neighbors	neighbors information	Subtable	N/A	For more information, see the bgp/neighbors table.
bgp-rib	Enclosing container for address family list	Subtable	N/A	For more information, see the bgp/bgp-rib/afi-safis.

bgp/global

This table contains bgp global information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	global
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Config infomation	Subtable	N/A	For more information, see the bgp/global/config table.
default-route-distance	default-route-distance infomation	Subtable	N/A	For more information, see the bgp/global/default-route-distance.
route-selection-options	route-selection-options infomation	Subtable	N/A	For more information, see the bgp/global/route-selection-options.
afi-safis	afi-safis infomation	Subtable	N/A	For more information, see the bgp/global/afi-safis.

bgp/global/config

This table contains bgp global config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
as	Local autonomous system number	N/A	32-bit as-number type from the model in RFC 6991.	N/A
router-id	Router id	N/A	IPv4 address string	N/A

bgp/global/default-route-distance

This table contains bgp global default-route-distance information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	default-route-distance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/default-route-distance/config table.

bgp/global/default-route-distance/config

This table contains bgp global default-route-distance config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
external-route-distance	Administrative distance for routes learned from external	N/A	Unsigned int. Value range: 1 to 255	N/A
internal-route-distance	Administrative distance for routes learned from internal	N/A	Unsigned int. Value range: 1 to 255	N/A

bgp/global/route-selection-options

This table contains bgp global route-selection-options information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	route-selection-options
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/route-selection-options/config table.

bgp/global/route-selection-options/config

This table contains bgp global route-selection-options config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
always-compare-med	Compare multi-exit discriminator (MED) value from different ASes	N/A	Boolean: • true • false	N/A

bgp/global/afi-safis

This table contains bgp global afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-saf information	Sublist	N/A	For more information, see the bgp/global/afi-safis/afi-safi table.

bgp/global/afi-safis/afi-safi

This table contains bgp global afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	N/A
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/config table.
use-multiple-paths	use-multiple-paths information	Subtable	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				the bgp/global/afi-safis/afi-safi/use-multiple-paths table.

bgp/global/afi-safis/afi-safi/config

This table contains bgp global afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNIC	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			AST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: • true • false	N/A

bgp/global/afi-safis/afi-safi/use-multiple-paths

This table contains bgp global afi-safis afi-safi use-multiple-paths information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	use-multiple-paths
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/config table.
ebgp	ebgp information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-path

Column name	Column description	Column type	Data type and restrictions	Remarks
				s/ebgp table.
ibgp	ebgp information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp table.

bgp/global/afi-safis/afi-safi/use-multiple-paths/config

This table contains bgp global afi-safis afi-safi use-multiple-paths config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: • true • false	N/A

bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp

This table contains bgp global afi-safis afi-safi use-multiple-paths ebgp information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	ebgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp/config table.

bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp/config

This table contains bgp global afi-safis afi-safi use-multiple-paths ebgp config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
maximum-paths	Maximum number of parallel paths to consider	N/A	Unsigned integer. Value range: 1 to 255	N/A

bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp

This table contains bgp global afi-safis afi-safi use-multiple-paths ibgp information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	ibgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp/config table.

bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp/config

This table contains bgp global afi-safis afi-safi use-multiple-paths ibgp config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
maximum-paths	Maximum number of parallel paths to consider	N/A	Unsigned integer. Value range: 1 to 255	N/A

bgp/peer-groups

This table contains bgp peer-groups information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	Peer-groups
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Peer-group	Peer-group information	Sublist	N/A	For more information, see the bgp/peer-groups/peer-group table.

bgp/peer-groups/peer-group

This table contains bgp peer-groups peer-group information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	peer-group
Table type	Multi-instance table
Row name	peer-group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-group-name	peer-group name	Index	String. Length: 1 to 47 characters.	N/A
config	Config infomation	Subtable	N/A	For more information, see the bgp/peer-roups/peer-group/config table.

Column name	Column description	Column type	Data type and restrictions	Remarks
timers	Timers infomation	Subtable	N/A	For more information, see the bgp/peer-roups/peer-group/timers table.
apply-policy	Apply-policy infomation	Subtable	N/A	For more information, see the bgp/peer-roups/peer-group/apply-policy table.
afi-safis	Afi-safis infomation	Subtable	N/A	For more information, see the bgp/peer-roups/peer-group/afi-afis table.

bgp/peer-groups/peer-group/config

This table contains bgp peer-groups peer-group config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-group-name	peer-group name	Index	String. Length: 1 to 47 characters.	N/A
peer-as	AS number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the peer		Value range: 1 to 4294967295	
peer-type	Explicitly designate the peer or peer group as internal (iBGP) or external (eBGP)	N/A	Enumeration: • EXTERNAL. • INTERNAL.	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: • STANDARD. • EXTENDED. • BOTH. • NONE.	N/A
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

bgp/peer-groups/peer-group/timers

This table contains bgp peer-groups peer-group timers information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	timers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/timers/config table.

bgp/peer-groups/peer-group/timers/config

This table contains bgp peer-groups peer-group timers config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
minimum-advertisement-interval	Minimum time which must elapse between subsequent UPDATE messages relating to a common set of NLRI being transmitted to a peer	N/A	Unsigned integer. Value range: 0 to 600	N/A

bgp/peer-groups/peer-group/apply-policy

This table contains bgp peer-groups peer-group apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/apply-policy/config table.

bgp/peer-groups/peer-group/apply-policy/config

This table contains bgp peer-groups peer-group apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

bgp/peer-groups/peer-group/afi-safis

This table contains bgp peer-groups peer-group afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-safi information	Sublist	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi table.

bgp/peer-groups/peer-group/afi-safis/afi-safi

This table contains bgp peer-groups peer-group afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/config table.
apply-policy	apply-policy information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy table.

bgp/peer-groups/peer-group/afi-safis/afi-safi/config

This table contains bgp peer-groups peer-group afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. •	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: • true • false	N/A

bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy

This table contains bgp peer-groups peer-group afi-safis afi-safi apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy/config table.

bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy/config

This table contains bgp peer-groups peer-group afi-safis afi-safi apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

bgp/neighbors

This table contains bgp neighbors information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	neighbors
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor	neighbor information	Sublist	N/A	For more information, see the bgp/neighbors/neighbor table.

bgp/neighbors/neighbor

This table contains bgp neighbors neighbor information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	neighbor
Table type	Multi-instance table

Row name	neighbor
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
config	Config infomation	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/config table.
timers	Timers infomation	Subtable	N/A	For more information, see the bgp/neighbors/neighbor /timers table.
apply-policy	Apply-policy infomation	Subtable	N/A	For more information, see the bgp/neighbors/neighbor /apply-policy table.
afi-safis	Afi-safis infomation	Subtable	N/A	For more information, see the bgp/neighbors/neighbor /afi-afis table.

bgp/neighbors/neighbor/config

This table contains bgp neighbors neighbor config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp

Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
enabled	Whether the BGP peer is enabled	N/A	Boolean: • true • false	N/A
peer-as	AS number of the peer	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
peer-group	The peer-group with which this neighbor is associated	N/A	String. Length: 1 to 16 characters.	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: • STANDARD. • EXTENDED. • BOTH. • NONE.	N/A
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

bgp/neighbors/neighbor/state

This table contains bgp neighbors neighbor state information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
enabled	Whether the BGP peer is enabled	N/A	Boolean: • true • false	N/A
peer-as	AS number of the peer	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
session-state	Operational state of the BGP peer	N/A	Enumeration: • IDLE • CONNECT • ACTIVE • OPENSENT • OPENCONFIRM • ESTABLISHED	N/A
peer-group	The peer-group with which this neighbor is associated	N/A	String. Length: 1 to 16 characters.	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: • STANDARD. • EXTENDED. • BOTH. • NONE.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

bgp/neighbors/neighbor/timers

This table contains bgp neighbors neighbor timers information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	timers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/timers/config table.

bgp/neighbors/neighbor/timers/config

This table contains bgp neighbors neighbor timers config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
minimum-advertisement-interval	Minimum time which must elapse between subsequent UPDATE messages relating to a common set of NLRI being transmitted to a peer	N/A	Unsigned integer. Value range: 0 to 600	N/A

bgp/neighbors/neighbor/apply-policy

This table contains bgp neighbors neighbor apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/apply-policy/config table.

bgp/neighbors/neighbor/apply-policy/config

This table contains bgp neighbors neighbor apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

bgp/neighbors/neighbor/afi-safis

This table contains bgp neighbors neighbor afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-safi information	Sublist	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi table.

bgp/neighbors/neighbor/afi-safis/afi-safi

This table contains bgp neighbors neighbor afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	N/A
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/config table.
apply-policy	apply-policy information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/ apply-policy table.

bgp/neighbors/neighbor/afi-safis/afi-safi/config

This table contains bgp neighbors neighbor afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST • IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	N/A
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: • true • false	N/A

bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy

This table contains bgp neighbors neighbor afi-safis afi-safi apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy/config table.

bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy/config

This table contains bgp neighbors neighbor afi-safis afi-safi apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

bgp/bgp-rib/afi-safis

This table contains all BGP RIB AFI-SAFIs information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	AFI/SAFI information	Sublist	N/A	For more information, see the bgp/bgp-rib/afi-safis/afi-safi.

bgp/bgp-rib/afi-safis/afi-safi

This table contains BGP RIB AFI-SAFI information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI and SAFI	Index	Enumeration: • IPV4_UNICAST. • IPV6_UNICAST. • L3VPN_IPV4_UNICAST • L3VPN_IPV6_UNICAST • L2VPN_VPLS • L2VPN_EVPN. • IPV4_LABELED_UNICAST	afi-safi-name

Column name	Column description	Column type	Data type and restrictions	Remarks
			• IPV6_LABELED_UNICAST • L3VPN_IPV4_MULTICAST • L3VPN_IPV6_MULTICAST	
ipv4-unicast	Include this container for IPv4 unicast RIB	Subtable	N/A	For more information, see the bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast.

bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast

This table contains BGP RIB AFI-SAFI IPv4 unicast information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	ipv4-unicast
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
loc-rib	Container for the IPv6 BGP LOC-RIB data	Subtable	N/A	For more information, see the bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib.

bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib

This table contains BGP RIB AFI-SAFI IPv4 unicast LOC-RIB information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	loc-rib
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
routes	Enclosing container for list of routes in the routing table.	Subtable	N/A	For more information, see the bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes.

bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes

This table contains BGP RIB AFI-SAFI IPv4 unicast LOC-RIB routes information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	routes

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
route	List of routes in the table, keyed by the route prefix, the route origin, and path ID.	Sublist	N/A	For more information, see the bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes/route.

bgp/bgp-rib/afi-safis/afi-safi/ipv4-unicast/loc-rib/routes/route

This table contains BGP RIB AFI-SAFI IPv4 unicast LOC-RIB route information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp/bgp-rib.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	route
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix name	Index	IPv4 prefix: String, dotted decimal notation. Prefix length.	IPv4 example: 1.1.1.1/24.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1-18	
Origin	Indicates the origin of the route.	Index	String. IPv4 address or protocol type. Protocol type can only be: direct, static, rip, ospf, isis, lisp, bgp.	N/A
PathID	Path ID for the route.	Index	UINT32. Length:0-4294967295	Default: 0

Contents

DHCP 2
relay-agent/dhcp 2
XML structure 2
Table description 2
Columns 3
relay-agent/dhcp/config 3
XML structure 3
Table description 3
Columns 3
relay-agent/dhcp/interface 4
XML structure 4
Table description 4
Columns 4
relay-agent/dhcp/interface/config 5
XML structure 5
Table description 5
Columns 5

DHCP

relay-agent/dhcp

This table contains DHCP information.

XML structure

```
<relay-agent xmlns="http://openconfig.net/yang/relay-agent">
  <dhcp>
    <config>
      <enable-relay-agent></enable-relay-agent>
    </config>
    <interfaces>
      <interface>
        <id></id>
        <config>
          <id></id>
          <enable></enable>
          <helper-address></helper-address>
        </config>
      </interface>
    </interfaces>
  </dhcp>
</relay-agent>
```

Table description

Item	Description
Feature name	DHCP
Table name	dhcp
Table type	Single-instance table
Row name	dhcp

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the dhcp/config table.
interfaces	Interface information	Subtable	N/A	For more information, see the dhcp/interfaces table.

relay-agent/dhcp/config

This table contains DHCP configuration information.

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enable-relay-	Enabling status	N/A	Boolean:	N/A

agent	of DHCP relay-agent on all interfaces		• **true**—Enabled. • **false**—Disabled.	

relay-agent/dhcp/interface

This table contains DHCP interface information.

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	interface
Table type	Single-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Reference to the interface list key	Index	String: Length: 2 to 47 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the dhcp/interfaces /config table.

relay-agent/dhcp/interface/config

This table contains DHCP interface config information

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Name of the interface on which relay agent is active	Index	String: Length: 2 to 47 characters.	N/A
enable	Enabling status of the relay agent on the referenced interface	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
helper-address	List of the IPv4 addresses of DHCP servers to which the relay agent should	N/A	String: Length: 1 to 42 characters.	This command only supports the IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	forward DHCPv4 requests.			

Contents

openconfig-if-ip 1

openconfig-if-ip/ipv4 1
XML structure 1
Table description 1
Columns 2
openconfig-if-ip/ipv4/addresses 2
XML structure 2
Table description 2
Columns 2
openconfig-if-ip/ipv4/addresses/address 3
XML structure 3
Table description 3
Columns 3
openconfig-if-ip/ipv4/addresses/address/config 3
XML structure 3
Table description 3
Columns 4
openconfig-if-ip/ipv4/state 4
XML structure 4
Table description 4
Columns 4
openconfig-if-ip/ipv4/state/counters 4
XML structure 5
Table description 5
Columns 5
openconfig-if-ip/ipv4/config 5
XML structure 6
Table description 6
Columns 6
openconfig-if-ip/ipv6 6
XML structure 6
Table description 7
Columns 7
openconfig-if-ip/ipv6/addresses 7
XML structure 7
Table description 8
Columns 8
openconfig-if-ip/ipv6/addresses/address 8
XML structure 8
Table description 8
Columns 8
openconfig-if-ip/ipv6/addresses/address/config 9
XML structure 9
Table description 9
Columns 9
openconfig-if-ip/ipv6/state 9
XML structure 9
Table description 10
Columns 10
openconfig-if-ip/ipv6/state/counters 10
XML structure 10
Table description 10
Columns 10

openconfig-if-ip

openconfig-if-ip/ipv4

This table contains IPv4 address family configuration for interfaces.This table is a subtable of the interface management table and cannot be used alone.

XML structure

```
<ipv4>
  <addresses>
    <address>
      <ip></ip>
      <config>
        <ip></ip>
        <prefix-length></prefix-length>
      </config>
    </address>
  </addresses>
  <config>
    <enabled></enabled>
  </config>
  <state>
    <counters>
      <in-pkts></in-pkts>
      <in-octets></in-octets>
      <in-error-pkts></in-error-pkts>
      <in-discarded-pkts></in-discarded-pkts>
      <out-pkts></out-pkts>
      <out-octets></out-octets>
      <out-error-pkts></out-error-pkts>
      <out-discarded-pkts></out-discarded-pkts>
    </counters>
</state></ipv4>
```

Table description

Item	Description
Feature name	openconfig-if-ip

Table name	Ipv4
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
addresses	Enclose container for address list	Subtable	N/A	For more information, see the ipv4/addresses table.
State	State of the interface	Subtable	N/A	For more information, see the ipv4/state table.

openconfig-if-ip/ipv4/addresses

This table contains information about enclosing container for address list.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	addresses
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	List of configured IPv4 addresses on the interface	sublist	N/A	For more information, see the ipv4/addresses/address table.

openconfig-if-ip/ipv4/addresses/address

This table contains IPv4 addresses config information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4/addresses.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	address
Table type	Multi-instance table
Row name	N/A
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip	IPv4 address	index	String, dotted decimal	N/A
config	IPv4 address configuration information	Subtable	N/A	For more information, see the ipv4/addresses/address/config table.

openconfig-if-ip/ipv4/addresses/address/config

This table contains IPv4 address configuration information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4/addresses/address.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	config
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip	IPv4 address of the interface	index	String, dotted decimal.	N/A
prefix-length	Length of the subnet prefix	No	Unsigned integer. Value range: 1 to 32	N/A

openconfig-if-ip/ipv4/state

This table contains the state information of the interface.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
counters	IPv4 statistics of the interface	Subtable	N/A.	For more information, see the ipv4/state/counters table.

openconfig-if-ip/ipv4/state/counters

This table contains IPv4 statistics of the interface.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4/state.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	counters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
in-pkts	Received packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-pkts is not supported
in-octets	Received bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-octets is not supported
in-error-pkts	Received error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-error-pkts is not supported
in-discarded-pkts	Received and discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-discarded-pkts is not supported
out-pkts	Sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-pkts is not supported
out-octets	Sent bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-octets is not supported
out-error-pkts	Sent error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-error-pkts is not supported
out-discarded-pkts	Sent and discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-discarded-pkts is not supported

openconfig-if-ip/ipv4/config

This table contains port layer of the interface..

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Port layer of an interface.	N/A	Boolean: • **false**—Layer 2 • **true**—Layer 3	N/A.

openconfig-if-ip/ipv6

This table contains IPv6 address family configuration for interfaces. This table is a subtable of the interface management table and cannot be used alone.

XML structure

```
<ipv6>
  <addresses>
    <address>
      <ip></ip>
      <config>
        <ip></ip>
        <prefix-length></prefix-length>
      </config>
    </address>
  </addresses>
  <state>
    <counters>
```

```
        <in-pkts></in-pkts>
        <in-octets></in-octets>
        <in-error-pkts></in-error-pkts>
        <in-discarded-pkts></in-discarded-pkts>
        <out-pkts></out-pkts>
        <out-octets></out-octets>
        <out-error-pkts></out-error-pkts>
        <out-discarded-pkts></out-discarded-pkts>
      </counters>
    </state>
  </ipv6>
```

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	Ipv6
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
addresses	Enclose container for address list	Subtable	N/A	For more information, see the ipv6/addresses table.
state	State of the interface	Subtable	N/A	For more information, see the ipv6/state table.

openconfig-if-ip/ipv6/addresses

This table contains information about enclosing container for address list.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	addresses
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	List of configured IPv6 addresses on the interface	sublist	N/A	For more information, see the ipv6/addresses/address table.

openconfig-if-ip/ipv6/addresses/address

This table contains IPv6 addresses config information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6/addresses.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	address
Table type	Multi-instance table
Row name	N/A
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip	IPv6 address	index	Hexadecimal string,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated.	
config	IPv6 address configuration information	Subtable	N/A	For more information, see the ipv6/addresses/address/config table.

openconfig-if-ip/ipv6/addresses/address/config

This table contains IPv6 address configuration information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6/addresses/address.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip	IPv6 address of the interface	index	Hexadecimal string, colon-separated.	N/A
prefix-length	Length of the subnet prefix	No	Unsigned integer. Value range: 1 to 128	N/A

openconfig-if-ip/ipv6/state

This table contains the state information of the interface.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
counters	IPv6 statistics of the interface	Subtable	N/A.	For more information, see the ipv6/state/counters table.

openconfig-if-ip/ipv6/state/counters

This table contains IPv6 statistics of the interface.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6/state.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	counters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
in-pkts	Received	N/A	Unsigned integer.	2^{64} - 1: in-pkts is

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		Value range: 0 to 2^{64} - 1.	not supported
in-octets	Received bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-octets is not supported
in-error-pkts	Received error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-error-pkts is not supported
in-discarded-pkts	Received and discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: in-discarded-pkts is not supported
out-pkts	Sent packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-pkts is not supported
out-octets	Sent bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-octets is not supported
out-error-pkts	Sent error packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-error-pkts is not supported
out-discarded-pkts	Sent and discarded packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	2^{64} - 1: out-discarded-pkts is not supported

Contents

openconfig-interfaces 1

interfaces 1
XML structure 1
Table description 2
Columns 2
interfaces/interface 3
XML structure 3
Table description 3
Columns 3
interfaces/interface/config 3
XML structure 3
Table description 4
Columns 4
interfaces/interface/state 5
XML structure 5
Table description 5
Columns 5
interfaces/interface/subinterfaces 6
XML structure 6
Table description 6
Columns 6
interfaces/interface/subinterfaces/subinterface 6
XML structure 7
Table description 7
Columns 7
interfaces/interface/subinterfaces/subinterface/config 7
XML structure 7
Table description 8
Columns 8
interfaces/interfaces/interface/subinterfaces/ipv4 8
XML structure 8
Table description 8
Columns 9
interfaces/interface/ethernet 9
XML structure 9
Table description 9
Columns 9
interfaces/interface/ethernet/switched-vlan 10
XML structure 10
Table description 10
Columns 10
interfaces/interface/ethernet/state 10
XML structure 10
Table description 11
Columns 11
interfaces/interface/ethernet/config 11
XML structure 11
Table description 12
Columns 12
interfaces/interface/routed-vlan 12
XML structure 12
Table description 12
Columns 13
interfaces/interface/aggregation 13
XML structure 13
Table description 13
Columns 13

openconfig-interfaces

interfaces

This table contains interfaces information.

XML structure

```
<interfaces>
  <interface>
    <name></name>
    <config>
      <name></name>
      <type></type>
      <mtu></mtu>
      <description></description>
      <enabled></enabled>
    </config>
    <state>
      <name></name>
      <description></description>
      <admin-status></admin-status>
      <oper-status></oper-status>
    </state>
    <subinterfaces>
      <subinterface>
        <index></index>
        <config>
          <index></index>
          <name></name>
          <description></description>
          <enabled></enabled>
        </config>
        <ipv4></ipv4>
        <ipv6></ipv6>
      </subinterface>
    </subinterfaces>
    <ethernet>
      <switched-vlan>
        <config>
          <interface-mode></interface-mode>
          <native-vlan></native-vlan>
          <access-vlan></access-vlan>
          <trunk-vlans></trunk-vlans>
        </config>
        <state>
```

```
        <interface-mode></interface-mode>
        <native-vlan></native-vlan>
        <access-vlan></access-vlan>
        <trunk-vlans></trunk-vlans>
      </state>
    </switched-vlan>
    <state>
      <port-speed></port-speed>
      <negotiated-port-speed></negotiated-port-speed>
    </state>
    <config>
      <aggregate-id></aggregate-id>
    </config>
  </ethernet>
  <routed-vlan>
    <ipv4></ipv4>
    <ipv6></ipv6>
  </routed-vlan>
  <aggregation>
    <config></config>
    <state></state>
    <swtich-vlan></swtich-vlan>
  </aggregation>
 </interface>
</interfaces>
```

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the interfaces/intreface table.

interfaces/interface

This table contains interfaces/interface information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters.	Read-write.
config	Configuration item of interface	Subtable	N/A	For more information, see the interfaces/intreface/config table.
subinterfaces	Subinterfaces information of an interface	Sublist	N/A	For more information, see the interfaces/intreface/subinterfaces table.
ethernet	Ethernet of interface, ref-table to openconfig-vlan	Subtable	N/A	For more information, see the interfaces/intreface/ethernet table.

interfaces/interface/config

This table contains interfaces/interface/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters.	Refence to: interfaces/interface/name. For logic interface ,only Vlan-interface, Bridge-Aggregation, Route-Aggregation, VE-Bridge and Loopback interface are supported.
type	Interface type	N/A	Unsigned integer.	Read-write. Additional values for ifType are assigned by the Internet Assigned Numbers Authority (IANA), through updating the syntax of the IANA ifType textual convention.
mtu	Configured MTU of an interface	N/A	Unsigned integer.	Read-write. Applicable to only Layer 3 interfaces.
description	Interface description	N/A	String. Length: 1 to 255 characters. Default: *interface-name* **Interface**.	Read-write.
enabled	Enabling status of an interface	N/A	Boolean • **0**—Disabled • **1**—Enabled	Read-write.

interfaces/interface/state

This table contains interfaces/interface/state information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters.	Refer to interfaces/interface/name. For logical interfaces ,only Vlan-interface, Bridge-Aggregation, Route-Aggregation and Loopback interface are supported.
description	Interface description	N/A	String. Length: 1 to 255 characters. Default: *interface-name* **Interface**.	Read-only.
admin-status	Desired state of the interface	N/A	Enumeration: • UP • DOWN • TESTING	Read-only
oper-status	Current operational state of the interface	N/A	Enumeration: • UP • DOWN • TESTING • UNKNOWN	Read-only

Column name	Column description	Column type	Data type and restrictions	Remarks
			• DORMANT • NOT_PRESENT • LOWER_LAYER_DOWN	

interfaces/interface/subinterfaces

This table contains interfaces/interface/subinterfaces information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	subinterfaces
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
subinterface	Subinterface information table	sublist	N/A	For more information, see the interfaces/intreface/subinterfaces/subinterface table.
Ipv4	Portlayer information table	subtable	N/A	For more information, see the interfaces/intreface/subinterfaces/ipv4 table.

interfaces/interface/subinterfaces/subinterface

This table contains interfaces/interface/subinterfaces/subinterface information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	subinterface
Table type	Multi-instance table
Row name	subinterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Subinterface number	index	Unsigned integer Value range: 1 to 4094.	Read-write.
config	Configuration item of interface	subtable	N/A	For more information, see the interfaces/intreface/subinterfaces/ipv4/config table.
ipv4	IPv4 address family information table	subtable	N/A	Reference the table openconfig-if-ip/ipv4.
ipv6	IPv6 address family information table	subtable	N/A	Reference the table openconfig-if-ip/ipv6.

interfaces/interface/subinterfaces/subinterface/config

This table contains interfaces/interface/subinterfaces/subinterface/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Subinterface number	index	Unsigned integer Value range: 1 to 4094.	Refer to interface/subinterfaces/subinterface/index.
name	Full name of an subinterface	N/A	String. Length: 2 to 47 characters.	Read-write. For more information, see the ipv4 table.
description	Subinterface description	N/A	String. Length: 1 to 255 characters. Default: *interface-name* **Interface**.	Read-write.
enabled	Enabling status of subinterface	N/A	Boolean • **0**—Disabled • **1**—Enabled	Read-write.

interfaces/interfaces/interface/subinterfaces/ipv4

This table contains interfaces/interfaces/interface/subinterfaces/ipv4 information.

XML structure

Please refer to the XML structure of interfaces/interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	Ipv4

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Portlayer of an interface	N/A	Boolean • **0**—Layer 2 • **1**—Layer 3	Read-write. Only applicable to Ethernet interfaces.

interfaces/interface/ethernet

This table contains interfaces/interface/ethernet information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	ethernet
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
switched-vlan	VLAN type of an interface	N/A	N/A	Reference the table openconfig-vlan/s

Column name	Column description	Column type	Data type and restrictions	Remarks
				witched-vlan.
state	State variables for Ethernet interfaces	N/A	N/A	N/A
config	Configuration item of interface	N/A	N/A	N/A.

interfaces/interface/ethernet/switched-vlan

This table contains interfaces/interface/ethernet/switched-vlan information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	switched-vlan
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configured the VLAN type of an interface	subtable	N/A	See the openconfig-vlan/switched-vlan table.
state	Switched-vlan state information	subtable	N/A	See the openconfig-vlan/switched-vlan table.

interfaces/interface/ethernet/state

This table contains interfaces/interface/ethernet/state information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
port-speed	Interface speed	N/A	• SPEED_10MB • SPEED_100MB • SPEED_1GB • SPEED_2500MB • SPEED_5GB • SPEED_10GB • SPEED_25GB • SPEED_40GB • SPEED_50GB • SPEED_100GB • SPEED_UNKNOWN	N/A
negotiated-port-speed	Negotiated interface speed	N/A	• SPEED_10MB • SPEED_100MB • SPEED_1GB • SPEED_2500MB • SPEED_5GB • SPEED_10GB • SPEED_25GB • SPEED_40GB • SPEED_50GB • SPEED_100GB • SPEED_UNKNOWN	N/A

interfaces/interface/ethernet/config

This table contains interfaces/interface/ethernet/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
aggregate-id	Aggregation group ID	N/A	N/A	Unsigned integer. Value range: • Layer 2 aggregation group: 1 to 16384. • Layer 3 aggregation group: 16385 to 32768. • S-channel bundle group: 36865 to 40960. Default: 0. Not assigned to any link aggreagation group.

interfaces/interface/routed-vlan

This table contains interfaces/interface/routed-vlan information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	**Description**
Feature name	Openconfig-interfaces
Table name	routed-vlan

Item	Description
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv4	IPv4 address family information table	subtable	• N/A	Reference the table openconfig-if-ip/ipv4.
ipv6	IPv6 address family information table	subtable	• N/A	Reference the table openconfig-if-ip/ipv6.

interfaces/interface/aggregation

This table contains interfaces/interface/aggregation information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	aggregation
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Aggregation config	subtable	• N/A	Reference the table openconfig-if-aggregate /aggregation.
state	Aggregation state	subtable	• N/A	Reference the table openconfig-if-aggregate

Column name	Column description	Column type	Data type and restrictions	Remarks
				/aggregation.
swtich-vlan	VLAN type of an interface	N/A	• N/A	Reference the table openconfig-vlan/switched-vlan.

openconfig-if-aggregate 1
openconfig-if-aggregate/aggregation 1
XML structure 1
Table description 1
Columns 1
openconfig-if-aggregate/aggregation/config 2
XML structure 2
Table description 2
Columns 2
openconfig-if-aggregate/aggregation/state 2
XML structure 2
Table description 2
Columns 3

openconfig-if-aggregate

openconfig-if-aggregate/aggregation

This table contains openconfig-if-aggregate/aggregation information.

XML structure

```
<aggregation>
  <config>
    <lag-type></lag-type>
  </config>
  <state>
    <member></member>
  </state>
  <swtich-vlan>
    <config></config>
  </swtich-vlan>
</aggregation>
```

Table description

Item	Description
Feature name	openconfig-if-aggregate
Table name	aggregation
Table type	Single-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration item of interface	N/A	N/A	N/A
state	Interface state	N/A	N/A	N/A
swtich-vlan	VLAN type of an interface	N/A	N/A	Reference the table openconfig-vlan/switched-vlan.

openconfig-if-aggregate/aggregation/config

This table contains openconfig-if-aggregate/aggregation information/config information.

XML structure

See the XML structure of openconfig-if-aggregate/aggregation.

Table description

Item	Description
Feature name	openconfig-if-aggregate
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lag-type	Interface table	String	String. Options include: • **STATIC**. • **LACP**.	N/A

openconfig-if-aggregate/aggregation/state

This table contains openconfig-if-aggregate/aggregation information/state information.

XML structure

See the XML structure of openconfig-if-aggregate/aggregation.

Table description

Item	Description
Feature name	openconfig-if-aggregate
Table name	state
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
member	Aggregation member port	String	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read

Contents

openconfig-mpls 1
mpls/global 1
XML structure 1
Table description 1
Columns 1
mpls/global/reserved-label-blocks/config 2
XML structure 2
Table description 2
Columns 2

openconfig-mpls

mpls/global

Definition of global MPLS configuration parameters.

XML structure

```
<mpls>
  <global>
    <reserved-label-blocks>
      <reserved-label-block>
        <local-id></local-id>
        <config>
          <local-id></local-id>
          <lower-bound></lower-bound>
          <upper-bound></upper-bound>
        </config>
        <state>
          <local-id></local-id>
          <lower-bound></lower-bound>
          <upper-bound></upper-bound>
        </state>
      </reserved-label-block>
    </reserved-label-blocks>
  </global>
</mpls>
```

Table description

Item	Description
Feature name	Openconfig-mpls
Table name	reserved-label-blocks
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
reserved-labe	A range of labels starting with the	Sublist	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
l-blocks	start-label and up-to and including the end label that should be allocated as reserved. These labels should not be utilised by any dynamic label allocation on the local system unless the allocating protocol is explicitly configured to specify that allocation of labels should be out of the label block specified.			the network-instances /network-instance/ interfaces/interfac e table.

mpls/global/reserved-label-blocks/config

A range of labels starting with the start-label and up-to and including the end label that should be allocated as reserved. These labels should not be utilised by any dynamic label allocation on the local system unless the allocating protocol is explicitly configured to specify that allocation of labels should be out of the label block specified.

XML structure

Please refer to the XML Structure of mpls/global/reserved-label-blocks/config.

Table description

Item	Description
Feature name	Openconfig-mpls-global
Table name	reserved-label-blocks
Table type	Single-instance table
Row name	reserved-label-block/config
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	A reference to a	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	unique local identifier for this label block.		Length: 1 to 127 characters.	
lower-bound	Lower bound of the global label block. The block is defined to include this label	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to16.	N/A
upper-bound	Upper bound for the global label block. The block is defined to include this label.	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to17.	N/A

Contents

openconfig-mpls 1
mpls/global 1
XML structure 1
Table description 1
Columns 1
mpls/global/reserved-label-blocks/config 2
XML structure 2
Table description 2
Columns 2
mpls/global/reserved-label-blocks/state 3
XML structure 3
Table description 3
Columns 3

openconfig-mpls

mpls/global

Definition of global MPLS configuration parameters.

XML structure

```
<mpls>
  <global>
    <reserved-label-blocks>
      <reserved-label-block>
        <local-id></local-id>
        <config>
          <local-id></local-id>
          <lower-bound></lower-bound>
          <upper-bound></upper-bound>
        </config>
        <state>
          <local-id></local-id>
          <lower-bound></lower-bound>
          <upper-bound></upper-bound>
        </state>
      </reserved-label-block>
    </reserved-label-blocks>
  </global>
</mpls>
```

Table description

Item	Description
Feature name	Openconfig-mpls
Table name	reserved-label-blocks
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
reserved-labe	A range of labels starting with the	Sublist	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
l-blocks	start-label and up-to and including the end label that should be allocated as reserved. These labels should not be utilised by any dynamic label allocation on the local system unless the allocating protocol is explicitly configured to specify that allocation of labels should be out of the label block specified.			the network-instances /network-instance/ interfaces/interfac e table.

mpls/global/reserved-label-blocks/config

A range of labels starting with the start-label and up-to and including the end label that should be allocated as reserved. These labels should not be utilised by any dynamic label allocation on the local system unless the allocating protocol is explicitly configured to specify that allocation of labels should be out of the label block specified.

XML structure

Please refer to the XML Structure of mpls/global/reserved-label-blocks/config.

Table description

Item	Description
Feature name	Openconfig-mpls-global
Table name	reserved-label-blocks
Table type	Single-instance table
Row name	reserved-label-block/config
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	A reference to a	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	unique local identifier for this label block.		Length: 1 to 127 characters.	
lower-bound	Lower bound of the global label block. The block is defined to include this label	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to16.	N/A
upper-bound	Upper bound for the global label block. The block is defined to include this label.	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to17.	N/A

mpls/global/reserved-label-blocks/state

A range of labels starting with the start-label and up-to and including the end label that should be allocated as reserved. These labels should not be utilised by any dynamic label allocation on the local system unless the allocating protocol is explicitly configured to specify that allocation of labels should be out of the label block specified.

XML structure

Please refer to the XML Structure of mpls/global/reserved-label-blocks/state.

Table description

Item	Description
Feature name	Openconfig-mpls-global
Table name	reserved-label-blocks
Table type	Single-instance table
Row name	reserved-label-block/config
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	A reference to a unique local identifier for this label block.	Index	String. Length: 1 to 127 characters.	N/A
lower-bound	Lower bound of the global label block. The block is defined to include this label	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to16.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
upper-bound	Upper bound for the global label block. The block is defined to include this label.	N/A	Unsigned integer. The value range varies by device model. The label must be greater than or equal to17.	N/A

Contents

openconfig-network-instance 1

openconfig-network-instance/network-instances 1
XML structure 1
Table description 2
Columns 2
openconfig-network-instance/network-instances/network-instance 2
XML structure 3
Table description 3
Columns 3
openconfig-network-instance/network-instances/network-instance/config 4
XML structure 4
Table description 4
Columns 4
openconfig-network-instance/network-instances/network-instance/table-connections 4
XML structure 4
Table description 5
Columns 5
openconfig-network-instance/network-instances/network-instance/table-connections/table-connection 5
XML structure 5
Table description 5
Columns 6
openconfig-network-instance/network-instances/network-instance/table-connections/table-connection/config 6
XML structure 7
Table description 7
Columns 7
openconfig-network-instance/network-instances/network-instance/interfaces 8
XML structure 8
Table description 8
Columns 8
openconfig-network-instance/network-instances/network-instance/interfaces/interface 8
XML structure 8
Table description 9
Columns 9
openconfig-network-instance/network-instances/network-instance/interfaces/interface/config 9
XML structure 9
Table description 9
Columns 10
openconfig-network-instance/network-instances/network-instance/protocols 10
XML structure 10
Table description 10
Columns 10
openconfig-network-instance/network-instances/network-instance/protocols/protocol 11
XML structure 11
Table description 11
Columns 11
openconfig-network-instance/network-instances/network-instance/protocols/protocol/config 12
XML structure 12
Table description 12
Columns 12
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates 13
XML structure 13
Table description 13
Columns 13
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggregate 14
XML structure 14
Table description 14

Columns ····· 14
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggregate/config ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15

openconfig-network-instance

openconfig-network-instance/network-instances

This table contains network instances information.

XML structure

```
<openconfig-network-instance>
  <network-instances>
    <network-instance>
      <name></name>
      <config>
        <name></name>
        <route-distinguisher></route-distinguisher>
      </config>
      <table-connections>
        <table-connection>
          <src-protocol></src-protocol>
          <dst-protocol></dst-protocol>
          <address-family></address-family>
          <config>
            <src-protocol></src-protocol>
            <dst-protocol></dst-protocol>
            <address-family></address-family>
            <import-policy></import-policy>
          </config>
        </table-connection>
      </table-connections>
      <interfaces>
        <interface>
          <id></id>
          <config>
            <id></id>
            <interface></interface>
              <subinterface></subinterface>
          </config>
        </interface>
      </interfaces>
      <protocols>
        <protocol>
          <identifier></identifier>
          <name></name>
          <config>
            <identifier></identifier>
            <name></name>
```

```
          <enabled></enabled>
          <default-metric></default-metric>
        </config>
        <local-aggregates>
          <aggregate>
            <prefix></prefix>
            <config>
              <prefix></prefix>
            </config>
          </aggregate>
        </local-aggregates>
      </protocol>
    </protocols>
  </network-instance>
 </network-instances>
</openconfig-network-instance>
```

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	network-instances
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
network-instance	Network instance information	Subtable	N/A	For more information, see the network-instances/network-instance table.

openconfig-network-instance/network-instances/network-instance

This table contains network instance information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	network-instance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Network instance name	Index	String. Length: 1 to 31 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/config table.
table-connections	Table-connections information	Subtable	N/A	For more information, see the network-instances/network-instance/table-connections table.
interfaces	Interfaces information	Subtable	N/A	For more information, see the network-instances/network-instance/interfaces table.
protocols	Protocols information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols table.

openconfig-network-instance/network-instances/network-instance/config

This table contains network instance configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Network instance name	Index	String. Length: 1 to 31 characters.	N/A
route-distinguisher	Route distinguisher information	N/A	String. Length: 3 to 21 characters.	Example: 1:1

openconfig-network-instance/network-instances/network-instance/table-connections

This table contains table-connections information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	table-connections
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
table-connection	Table-connection information	Sublist	N/A	For more information, see the network-instances/network-instance/table-connections/table-connection table.

openconfig-network-instance/network-instances/network-instance/table-connections/table-connection

This table contains table-connection information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	table-connection
Table type	Single-instance table
Row name	table-connection
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
src-protocol	Source protocol name	Index	String. Length: 1 to 20 characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC · DIRECTLY_CONNECTED · LOCAL_AGGREGATE	Example: BGP.
dst-protocol	Destination protocol name	Index	String. Length: 1 to 20 characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC · DIRECTLY_CONNECTED · LOCAL_AGGREGATE	Example: BGP.
address-family	Address family name	Index	String. Length: 1 to 10 characters.	Example: IPV4
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/table-connections/table-connection/config table.

openconfig-network-instance/network-instances/network-instance/table-connections/table-connection/config

This table contains table-connection configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
src-protocol	Source protocol name	Index	String. Length: 1 to 20 characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC · DIRECTLY_CONNECTED · LOCAL_AGGREGATE	Example: BGP.
dst-protocol	Destination protocol name	Index	String. Length: 1 to 20 characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC · DIRECTLY_CONNECTED · LOCAL_AGGREGATE	Example: BGP.
address-family	Address family name	Index	String. Length: 1 to 10 characters.	Example: IPV4
import-policy	Import policy name	N/A	String. Length: 1 to 63 characters.	Example: aaa

openconfig-network-instance/network-instances/network-instance/interfaces

This table contains interfaces information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface information	Sublist	N/A	For more information, see the network-instances/network-instance/interfaces/interface table.

openconfig-network-instance/network-instances/network-instance/interfaces/interface

This table contains interface information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	interface
Table type	Single-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	ID name	Index	String. Length: 1 to 31 characters. Same as interface name	Example: LoopBack2, L2.
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/interfaces/interface/config table.

openconfig-network-instance/network-instances/network-instance/interfaces/interface/config

This table contains interface configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	ID name	Index	String. Length: 1 to 31 characters. Same as interface name	Example: LoopBack2, L2.
interface	Interface name	N/A	String. Length: 1 to 31 characters.	N/A
subinterface	Subinterface number	N/A	Integer. Range: 1 to 4094.	N/A

openconfig-network-instance/network-instances/network-instance/protocols

This table contains protocols nformation.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	protocols
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	Protocol information.	Sublist	N/A	For more information, see the network-instances/network-instance/protocols/proto

Column name	Column description	Column type	Data type and restrictions	Remarks
				col table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol

This table contains protocol information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	protocol
Table type	Single-instance table
Row name	protocol
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	Protocol identifier name	Index	String. Length: 1 to 20characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC · DIRECTLY_CONNECTED · LOCAL_AGGREGATE	Example: BGP
name	Protocol instance name	Index	String. Length: 1 to 31 characters.	Example: 1, aaa, and default.
config	Configuration information	Subtable	N/A	For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				network-instances/network-instance/protocols/protocol /config table.
local-aggregates	Local-aggregates information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols/protocol/local-aggregates table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol/config

This table contains protocol configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	Protocol identifier	Index	String. Length: 1 to 20characters. Enumeration: · BGP · ISIS · OSPF · OSPF3 · STATIC	Example:BGP

Column name	Column description	Column type	Data type and restrictions	Remarks
			· DIRECTLY_CONNECTED · LOCAL_AGGREGATE	
name	Protocol instance name	Index	String. Length: 1 to 31 characters.	Example:1, aaa, default
enabled	Whether the local protocol instance is enabled	N/A	Boolean: ● true ● false	N/A
default-metric	Default metric value	N/A	Unsigned Integer32. 0-65535	N/A

openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates

This table contains local-aggregates information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	local-aggregates
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
aggregate	Aggregate information	Sublist	N/A	For more information, see the network-instances/network-instanc

Column name	Column description	Column type	Data type and restrictions	Remarks
				e/protocols/protocol/local-aggregates/aggregate table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggregate

This table contains aggregate information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	aggregate
Table type	Single-instance table
Row name	aggregate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix name	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols/protocol/local-aggregates/aggregate/config table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggregate/config

This table contains aggregate configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix name	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18.	IPv4 example: 1.1.1.1/24.

Contents

NTP 2
system/ntp 2
XML structure 2
Table description 2
Columns 3
system/ntp/config 3
XML structure 3
Table description 3
Columns 4
system/ntp/servers/server 4
XML structure 4
Table description 4
Columns 4
system/ntp/servers/server/config 5
XML structure 5
Table description 5
Columns 5

NTP

system/ntp

This table contains NTP information.

XML structure

```
<system xmlns="http://openconfig.net/yang/system">
  <ntp>
    <config>
      <enabled></enabled>
      <ntp-source-address></ntp-source-address>
    </config>
    <servers>
      <server>
        <address></address>
        <config>
          <address></address>
          <port></port>
          <version></version>
          <association-type></association-type>
          <prefer></prefer>
        </config>
      </server>
     </servers>
  </ntp>
</system>
```

Table description

Item	Description
Feature name	NTP
Table name	ntp
Table type	Single-instance table

Item	Description
Row name	ntp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the ntp/config table.
servers	Server information	Subtable	N/A	For more information, see the ntp/servers table.

system/ntp/config

This table contains NTP configuration information.

XML structure

Please refer to the XML structure of openconfig-system/system/ntp.

Table description

Item	Description
Feature name	NTP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Whether NTP is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
ntp-source-address	Source IPv4 address for NTP packets	N/A	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.

system/ntp/servers/server

This table contains NTP server information.

XML structure

Please refer to the XML structure of openconfig-system/system/ntp.

Table description

Item	Description
Feature name	NTP
Table name	server
Table type	Single-instance table
Row name	server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	Address of the NTP server	Index	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.

config	Configuration information of the NTP server	Subtable	N/A	For more information, see the ntp/servers/server/config table.

system/ntp/servers/server/config

This table contains NTP server configuration information.

XML structure

Please refer to the XML structure of openconfig-system/system/ntp.

Table description

Item	Description
Feature name	NTP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	Address of the NTP server	Index	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.
port	Port number of the NTP server	N/A	Unsigned integer	N/A
version	Version number to put into outgoing NTP packets	N/A	Unsigned integer. Value range: 1 to 4	default value: 4

association-type	Association type for the NTP server	N/A	Enumeration: 3—SERVER.	Only enum 3 is supported. default value: 3
prefer	Whether this server should be preferred	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Contents

OSPFv2 2

ospfv2 2

XML structure 2
Table description 3
Columns 3
ospfv2/global 4
XML structure 4
Table description 4
Columns 4
ospfv2/global/config 5
XML structure 5
Table description 5
Columns 5
ospfv2/global/timers 6
XML structure 6
Table description 6
Columns 6
ospfv2/global/timers/spf/config 7
XML structure 7
Table description 7
Columns 7
ospfv2/global/timers/lsa-generation/config 8
XML structure 8
Table description 8
Columns 8
ospfv2/areas/area 9
XML structure 9
Table description 9
Columns 9
ospfv2/areas/area/config 9
XML structure 10
Table description 10
Columns 10
ospfv2/areas/area/interfaces/interface 10
XML structure 10
Table description 11
Columns 11
ospfv2/areas/area/interfaces/interface/config 11
XML structure 11
Table description 12
Columns 12
ospfv2/areas/area/interfaces/interface/timers/config 13
XML structure 13
Table description 13
Columns 13

OSPFv2

ospfv2

This table contains OSPFv2 information.

XML structure

```
<ospfv2 xmlns="http://openconfig.net/yang/ospfv2">
  <global>
    <config>
      <router-id></router-id>
    </config>
    <timers>
      <spf>
        <config>
          <initial-delay></initial-delay>
          <maximum-delay></maximum-delay>
        </config>
      </spf>
      <lsa-generation>
        <config>
          <initial-delay></initial-delay>
          <maximum-delay></maximum-delay>
        </config>
      </lsa-generation>
    </timers>
  </global>
  <areas>
    <area>
      <identifier></identifier>
      <config>
        <identifier></identifier>
      </config>
      <interfaces>
```

```
        <interface>
          <id></id>
          <config>
            <id></id>
            <network-type></network-type>
            <priority></priority>
            <metric></metric>
            <passive></passive>
          </config>
          <timers>
            <config>
              <dead-interval></dead-interval>
              <hello-interval></hello-interval>
            </config>
          </timers>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>
```

Table description

Item	Description
Feature name	OSPFv2
Table name	ospfv2
Table type	Multi-instance table
Row name	ospfv2
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	Global information	Subtable	N/A	For more

				information, see the ospfv2/global table.
areas	Area information	Subtable	N/A	For more information, see the ospfv2/areas.

ospfv2/global

This table contains global OSPFv2 information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	global
Table type	Multi-instance table
Row name	global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the ospfv2/global/config.
timers	Timer information	Subtable	N/A	For more information, see the ospfv2/global/time

				rs.

ospfv2/global/config

This table contains global OSPFv2 configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
router-id	A 32-bit number represented in dotted decimal notation assigned to each router running the OSPFv2 protocol.	N/A	String: Length: 1 to 42 characters.	N/A

ospfv2/global/timers

This table contains global OSPFv2 timer information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	timers
Table type	Multi-instance table
Row name	timers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
spf	SPF information	Subtable	N/A	For more information, see the ospfv2/global/timers/spf.
lsa-generation	LSA generation information	Subtable	N/A	For more information, see the ospfv2/global/timers/lsa-generation.

ospfv2/global/timers/spf/config

This table contains OSPFv2 SPF timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
initial-delay	The value specifies the time between a change in topology being detected and the first run of the SPF algorithm.	N/A	Unsigned integer: Value range: 10 to 60000.	N/A
maximum-delay	The value of this leaf specifies the maximum delay between a topology change being detected and running of the SPF algorithm.	N/A	Unsigned integer: Value range: 1 to 60.	N/A

ospfv2/global/timers/lsa-generation/config

This table contains OSPFv2 LSA-generation timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
initial-delay	The value specifies the time between the first time an LSA is generated and advertised and the subsequent generation of that LSA.	N/A	Unsigned integer: Value range: 10 to 60000	N/A
maximum-delay	The value specifies the maximum time between the generation of an LSA and the subsequent re-generation of that LSA.	N/A	Unsigned integer: Value range: 1 to 60	N/A

ospfv2/areas/area

This table contains OSPFv2 area information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	area
Table type	Multi-instance table
Row name	area
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	An identifier for the OSPFv2 area, represented as either a 32-bit unsigned integer or a dotted-quad.	Index	String: Length: 1 to 42 characters	For example: 32 or 1.1.1.1
interfaces	Interface information	Subtable	N/A	For more information, see the ospfv2/areas/area/interfaces.

ospfv2/areas/area/config

This table contains OSPFv2 area configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	An identifier for the OSPFv2 area, represented as either a 32-bit unsigned integer or a dotted-quad.	Index	String: Length: 1 to 42 characters	N/A

ospfv2/areas/area/interfaces/interface

This table contains OSPFv2 area interface information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	interface
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	A pointer to the identifier for the interface name	Index	String. Length: 2 to 47characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the ospfv2/areas/area/interfaces/interface/config.
timers	Timer information	Subtable	N/A	For more information, see the ospfv2/areas/area/interfaces/interface/timers.

ospfv2/areas/area/interfaces/interface/config

This table contains OSPFv2 area interface configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	An operator-specified string used to uniquely identify this interface	Index	String: Length: 2 to characters	N/A
network-type	The type of network that OSPFv2 must use for the specified interface.	N/A	Enumeration: • **1**—broadcast • **2**—NBMA. • **3**—P2P. • **4**—P2MP. • **5**—P2MP unicast	N/A
priority	The local system's priority to become the designated router	N/A	Unsigned integer: Value range: 0 to 255	N/A
metric	The metric for the interface	N/A	Unsigned integer: Value range: 0 to 65535 for loopback interfaces; 1 to 65535 for other types of interfaces.	N/A
passive	When this leaf is set to true, the interface must be advertised within the OSPFv2 area but OSPFv2 adjacencies must not be established over the interface.	N/A	Boolean: • **true**—The interface must be advertised within the OSPFv2 area. • **false—**The interface must not be advertised within the OSPFv2 area.	N/A

ospfv2/areas/area/interfaces/interface/timers/config

This table contains OSPFv2 area interface timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dead-interval	The number of seconds that the local system must let elapse before declaring a silent router down	N/A	Unsigned integer: Value range: 1 to 2147483647	N/A
hello-interval	The number of seconds that the local system waits between the transmissions of subsequent Hello packets.	N/A	Unsigned integer: Value range: 1 to 65535	N/A

Contents

openconfig-platform 1

components 1
XML structure 1
Table description 6
Columns 6
components/component 6
Table description 6
Columns 7
components/component/state 7
XML structure 7
Table description 7
Columns 8
components/component/state/temperature 9
XML structure 9
Table description 9
Columns 10
components/component/state/memory 10
XML structure 10
Table description 10
Columns 10
components/component/linecard 11
XML structure 11
Table description 11
Columns 11
components/component/linecard/state 11
XML structure 11
Table description 12
Columns 12
components/component/optical-channel 12
XML structure 12
Table description 12
Columns 12
components/component/optical-channel/config 13
XML structure 13
Table description 13
Columns 13
components/component/optical-channel/state 14
XML structure 14
Table description 14
Columns 14
components/component/optical-channel/state/output-power 15
XML structure 15
Table description 16
Columns 16
components/component/optical-channel/state/input-power 16
XML structure 17
Table description 17
Columns 17
components/component/optical-channel/state/laser-bias-current 17
XML structure 18
Table description 18
Columns 18
components/component/optical-channel/state/chromatic-dispersion 19
XML structure 19
Table description 19
Columns 19
components/component/optical-channel/state/polarization-mode-dispersion 20

XML structure 20
Table description 20
Columns 20
components/component/optical-channel/state/polarization-dependent-loss 21
XML structure 21
Table description 21
Columns 21
components/component/optical-channel/state/osnr 22
XML structure 22
Table description 22
Columns 22
components/component/optical-channel/state/carrier-frequency-offset 23
XML structure 23
Table description 23
Columns 23
components/component/optical-channel/state/pre-fec-ber 24
XML structure 24
Table description 24
Columns 24
components/component/optical-channel/state/esnr 25
XML structure 25
Table description 25
Columns 25
components/component/optical-channel/state/sop-roc 26
XML structure 26
Table description 26
Columns 26
components/component/subcomponents 27
XML structure 27
Table description 27
Columns 27
components/component/subcomponents/subcomponent 28
XML structure 28
Table description 28
Columns 28
components/component/subcomponents/subcomponent/state 28
XML structure 29
Table description 29
Columns 29
components/component/transceiver 29
XML structure 29
Table description 29
Columns 30
components/component/transceiver/config 30
XML structure 30
Table description 30
Columns 30
components/component/transceiver/state 31
XML structure 31
Table description 31
Columns 31
components/component/transceiver/state/voltage 34
XML structure 34
Table description 34
Columns 34
components/component/transceiver/state/laser-bias-current 34
XML structure 34
Table description 35
Columns 35
components/component/transceiver/state/output-power 35
XML structure 35
Table description 35

Columns ····· 36
components/component/transceiver/state/input-power ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
components/component/transceiver/state/supply-voltage ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 37
components/component/transceiver/physical-channels ····· 37
Table description ····· 37
Columns ····· 38
components/component/transceiver/physical-channels/channel ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
components/component/transceiver/physical-channels/channel/config ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 39
components/component/transceiver/physical-channels/channel/state ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
components/component/transceiver/physical-channels/channel/state/laser-temperature ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42
components/component/transceiver/physical-channels/channel/state/target-frequency-deviation ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 43
components/component/transceiver/physical-channels/channel/state/tec-current ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 43
components/component/transceiver/physical-channels/channel/state/output-power ····· 44
XML structure ····· 44
Table description ····· 44
Columns ····· 44
components/component/transceiver/physical-channels/channel/state/input-power ····· 44
XML structure ····· 44
Table description ····· 45
Columns ····· 45
components/component/transceiver/physical-channels/channel/state/laser-bias-current ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
components/component/power-supply ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 46
components/component/power-supply/state ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
components/component/fan ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 48
components/component/fan/state ····· 48
XML structure ····· 48

Table description ····· 48
Columns ····· 48
components/component/cpu ····· 48
XML structure ····· 48
Table description ····· 49
Columns ····· 49
components/component/cpu/utilization ····· 49
XML structure ····· 49
Table description ····· 49
Columns ····· 49
components/component/cpu/utilization/state ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 50
components/component/integrated-circuit ····· 50
XML structure ····· 50
Table description ····· 51
Columns ····· 51
components/component/integrated-circuit/chip ····· 51
XML structure ····· 51
Table description ····· 51
Columns ····· 51

openconfig-platform

components

This table contains information about the components on the device.

XML structure

```
<components>
  <component>
    <name></name>
    <state>
      <name></name>
      <type></type>
      <id></id>
      <location></location>
      <removable></removable>
      <oper-status></oper-status>
      <empty></empty>
      <parent></parent>
      <serial-no></serial-no>
      <firmware-version></firmware-version>
      <software-version></software-version>
      <boot-loader-software-version></boot-loader-software-version>
      <allocated-power></allocated-power>
      <hardware-version></hardware-version>
      <temperature>
        <instant></instant>
      </temperature>
      <memory>
        <available></available>
        <utilized></utilized>
      </memory>
    </state>
    <subcomponents>
      <subcomponent>
      <name></name>
      <state>
        <name></name>
      <state>
      </subcomponent>
    </subcomponents>
    <transceiver>
      <config>
        <enabled></enabled>
        <fec-mode><fec-mode>
```

```
</config>
<state>
  <enabled></enabled>
  <fec-mode><fec-mode>
  <present></present>
  <form-factor></form-factor>
  <connector-type></connector-type>
  <vendor></vendor>
  <vendor-part></vendor-part>
  <vendor-rev></vendor-rev>
  <ethernet-pmd></ethernet-pmd>
  <serial-no></serial-no>
  <date-code></date-code>
  <fault-condition></fault-condition>
  <voltage>
    <instant></instant>
  </voltage>
  <laser-bias-current>
    <instant></instant>
  </laser-bias-current>
  <input-power>
    <instant></instant>
  </input-power>
  <output-power>
    <instant></instant>
  </output-power>
  <supply-voltage>
    <instant></instant>
  </supply-voltage>
</state>
<physical-channels>
  <channel>
    <index></index>
    <config>
        <index></index>
        <associated-optical-channel></associated-optical-channel>
        <description></description>
        <tx-laser></tx-laser>
    </config>
    <state>
      <index></index>
      <associated-optical-channel></associated-optical-channel>
      <description></description>
      <tx-laser></tx-laser>
      <laser-temperature>
        <instant></instant>
      </laser-temperature>
      <target-frequency-deviation>
```

```
        <instant></instant>
      </target-frequency-deviation>
      <tec-current>
        <instant></instant>
      </tec-current>
      <output-power>
        <instant></instant>
      </output-power>
      <input-power>
        <instant></instant>
      </input-power>
      <laser-bias-current>
        <instant></instant>
      </laser-bias-current>
    </state>
  <channel>
</physical-channels>
</transceiver>
<power-supply>
  <state>
    <capacity></capacity>
    <output-current></output-current>
    <output-voltage></output-voltage>
    <output-power></output-power>
  </state>
</power-supply>
<fan>
  <state>
    <speed></speed>
  </state>
</fan>
<cpu>
  <utilization>
    <state>
      <instant></instant>
    </state>
  </utilization>
</cpu>
<linecard>
  <state>
    <slot-id></slot-id>
  </state>
</linecard>
<integrated-circuit>
  <chip>
    <config></config>
    <state></state>
    <buffers></buffers>
```

```
  </chip>
</integrated-circuit>
<optical-channel>
 <config>
  <frequency></frequency>
  <target-output-power></target-output-power>
 </config>
 <state>
  <frequency></frequency>
  <target-output-power></target-output-power>
  <output-power>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </output-power>
  <input-power>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </input-power>
  <laser-bias-current>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </laser-bias-current>
  <chromatic-dispersion>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </chromatic-dispersion>
  <polarization-mode-dispersion>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </polarization-mode-dispersion>
  <polarization-dependent-loss>
    <instant></instant>
    <avg></avg>
```

```
    <min></min>
    <max></max>
    <interval></interval>
  </polarization-dependent-loss>
  <osnr>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </osnr>
  <carrier-frequency-offset>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </carrier-frequency-offset>
  <pre-fec-ber>
    <instant></instant>
    <avg></avg>
    <min></min>
    <max></max>
    <interval></interval>
  </pre-fec-ber>
  <esnr>
     <instant></instant>
     <avg></avg>
     <min></min>
     <max></max>
     <interval></interval>
  </esnr>
  <fec-uncorrectable-blocks>
     <instant></instant>
     <avg></avg>
     <min></min>
     <max></max>
     <interval></interval>
  </fec-uncorrectable-blocks>
  <sop-roc>
     <instant></instant>
     <avg></avg>
     <min></min>
     <max></max>
     <interval></interval>
  </sop-roc>
 </state>
</optical-channel>
```

```
  </component>
</components>
```

Table description

Item	Description
Feature name	Openconfig-platform
Table name	components
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
component	Component table	Sublist	N/A	For more information, see the components/component table.

components/component

See the XML structure for the components table.

Table description

Item	Description
Feature name	openconfig-platform
Table name	component
Table type	Multi-instance table
Row name	component
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of the component	Index	String.	Read-only.
state	Status information of the component	Subtable	N/A	For more information, see the components/component/state table.
linecard	Card information table	Subtable	N/A	For more information, see the components/component/linecard table.
Optical-channel	Optical channel information table	Subtable	N/A	For more information, see the components/component/optical-channel table.
subcomponents	subcomponents information table	Subtable	N/A	For more information, see the components/component/subcomponents table.
transceiver	Transceiver module information table	Subtable	N/A	For more information, see the components/component/transceiver table.
cpu	CPU usage information of the component	Subtable	N/A	For more information, see the components/component/cpu table.
integrated-circuit	Integrated circuit information table	Subtable	N/A	For more information, see the components/component/chip table.

components/component/state

This table contains status information about a component.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	state
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	**Full name of the component**	**N/A**	**String.**	**Read-only.**
type	Type of the component	N/A	Enumeration: • **CHASSIS** • **BACKPLANE** • **FABRIC** • **POWER_SUPPLY** • **FAN** • **SENSOR** • **FRU** • **LINECARD** • **CONTROLLER_CARD** • **PORT** • **TRANSCEIVER** • **CPU** • **STORAGE** • **INTEGRATED_CIRCUIT** • **CHIP** • **OPERATING_SYSTEM**	Read-only
id	Unique identifier assigned by the system for the component	N/A	String	Read-only
location	System-supplied description of the location of the component within the system.	N/A	String	Read-only
removable	Whether this component is removable	N/A	Boolean: • true • false	Read-only
oper-status	If applicable, this reports the current operational status of the component.	N/A	Enumeration: • **ACTIVE** • **INACTIVE** • **DISABLED**	Read-only
empty	Whether this component position	N/A	Boolean: • true	Read-only

Column name	Column description	Column type	Data type and restrictions	Remarks
name	**Full name of the component**	**N/A**	**String.**	**Read-only.**
	exists but is not populated.		• false	
parent	Reference to the name of the parent component.	N/A	String	Read-only
firmware-version	The version of associated firmware that is running on the component, if applicable.	N/A	String	Read-only
software-version	Running software version of the component	N/A	String	Read-only
boot-loader-software-version	Software version for the next boot	N/A	String	Read-only
serial-no	System assigned serial number	N/A	String	Read-only
allocated-power	Power allocated by the system for the component.	N/A	Unsigned integer.	Read-only
hardware-version	This is the hardware revision of the component.	N/A	String	Read-only
Temperature	Temperature of the component	Subtable	N/A	Read-only
Memory	Memory used by the component	Subtable	N/A	Read-only

components/component/state/temperature

This table contains temperature information about a component.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	temperature
Table type	Single-instance table

Item	Description
Row name	temperature
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current temperature of the component	N/A	Double.	Read-only. 2147483647 means the device doesn't support this feature.

components/component/state/memory

This table contains memory usage information about a component.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	memory
Table type	Single-instance table
Row name	memory
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
available	Amount of free memory(bytes).	N/A	Unsigned long.	Read-only.
utilized	Amount of memory space currently used by processes	N/A	Unsigned long.	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
	running on the component, excluding reserved memory that is not available for use(bytes).			

components/component/linecard

This table contains information about a card on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Linecard
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Status information about a card	Subtable	N/A	For more information, see components/component/linecard/state table.

components/component/linecard/state

This table contains status information about a card.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Linecard State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
slot-id	Location where the linecard is installed	N/A	String	Read-only

components/component/optical-channel

This table contains information about an optical-channel on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	optical-channel
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
	about an optical channel			components/component/optical-channel/config table.
state	Status information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state table.

components/component/optical-channel/config

This table contains optical-channel/config information.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Optical-channel Config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
frequency	Frequency of the optical channel, expressed in MHz	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1,default(193100000).	N/A
target-output-power	Target output optical power level of the optical channel, expressed in increments of 0.01 dBm (decibel-milliwats)	N/A	Double,default(-10.0).	N/A

components/component/optical-channel/state

This table contains status information about an optical-channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Optical-channel State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
frequency	Frequency of the optical channel, expressed in MHz	N/A	Unsigned integer.	Read-only
target-output-power	Target output optical power level of the optical channel, expressed in increments of 0.01 dBm (decibel-milliwats)	N/A	Double.	Read-only
output-power	output-power information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/output-power table.
input-power	input-power information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/input-power table.
laser-bias-current	laser-bias-current information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/laser-bias-current table.
chromatic-dispersion	chromatic-dispersion information about	Subtable	N/A	For more information, see components/component/

Column name	Column description	Column type	Data type and restrictions	Remarks
	an optical channel			optical-channel/state/chromatic-dispersion table.
polarization-mode-dispersion	polarization-mode-dispersion information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/polarization-mode-dispersion table.
polarization-dependent-loss	polarization-dependent-loss information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/polarization-dependent-loss table.
osnr	osnr information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/osnr table.
carrier-frequency-offset	carrier-frequency-offset information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/carrier-frequency-offset table.
pre-fec-ber	pre-fec-ber information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/pre-fec-ber table.
esnr	esnr information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/esnr table.
fec-uncorrectable-blocks	The number of blocks or frames that were uncorrectable by the FEC	N/A	Unsigned integer.	Read-only
sop-roc	Sop-roc information about an optical channel	Subtable	N/A	For more information, see components/component/optical-channel/state/sop-roc table.

components/component/optical-channel/state/output-power

This table contains output-power information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Output-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current output-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
avg	Avg output-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
min	Min output-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
max	Max output-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/input-power

This table contains input-power information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Intput-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current input-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
avg	Avg input-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
min	Min input-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
max	Max input-power about an optical channel in units of 0.01dBm.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/laser-bias-current

This table contains laser-bias-current information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Laser-bias-current
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current laser-bias-current about an optical channel in uints of mA.	N/A	Double.	Read-only.
avg	Avg laser-bias-current about an optical channel in uints of mA.	N/A	Double.	Read-only.
min	Min laser-bias-current about an optical channel in uints of mA.	N/A	Double.	Read-only.
max	Max laser-bias-current about an optical channel in uints of mA.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/chromatic-dispersion

This table contains chromatic-dispersion information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Chromatic-dispersion
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current chromatic-dispersion about an optical channel in picoseconds / nanometer (ps/nm).	N/A	Double.	Read-only.
avg	Avg chromatic-dispersion about an optical channel in picoseconds / nanometer (ps/nm).	N/A	Double.	Read-only.
min	Min chromatic-dispersion about an optical channel in picoseconds / nanometer (ps/nm).	N/A	Double.	Read-only.

max	Max chromatic-dispersion about an optical channel in picoseconds / nanometer (ps/nm).	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/polarization-mode-dispersion

This table contains polarization-mode-dispersion information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Polarization-mode-dispersion
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current polarization-mode-dispersion about an optical channel in picosends (ps).	N/A	Double.	Read-only.
avg	Avg polarization-mode-dispersion about an optical channel in picosends (ps).	N/A	Double.	Read-only.

min	Min polarization-mode-dispersion about an optical channel in picosends (ps).	N/A	Double.	Read-only.
max	Max polarization-mode-dispersion about an optical channel in picosends (ps).	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/polarization-dependent-loss

This table contains polarization-dependent-loss information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Polarization-dependent-loss
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current polarization-dependent-loss about an optical channel in dB.	N/A	Double.	Read-only.

avg	Avg polarization-dependent-loss about an optical channel in dB.	N/A	Double.	Read-only.
min	Min polarization-dependent-loss about an optical channel in dB.	N/A	Double.	Read-only.
max	Max polarization-dependent-loss about an optical channel in dB.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer	Read-only.

components/component/optical-channel/state/osnr

This table contains osnr information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Osnr
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current osnr about an optical channel in dB.	N/A	Double.	Read-only.
avg	Avg osnr about an optical channel in dB.	N/A	Double.	Read-only.
min	Min osnr about an optical channel in dB.	N/A	Double.	Read-only.
max	Max osnr about an optical channel in dB.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer..	Read-only.

components/component/optical-channel/state/carrier-frequency-offset

This table contains carrier-frequency-offset information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Carrier-frequency-offset
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current carrier-frequency-offset about an optical channel in MHz.	N/A	Double.	Read-only.
avg	Avg carrier-frequency-offset about an optical channel in MHz.	N/A	Double.	Read-only.
min	Min carrier-frequency-offset about an optical channel in MHz.	N/A	Double.	Read-only.
max	Max carrier-frequency-offset about an optical channel in MHz.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/pre-fec-ber

This table contains pre-fec-ber information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Pre-fec-ber
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current pre-fec-ber about an optical channel.	N/A	Double.	Read-only.
avg	Avg pre-fec-ber about an optical channel.	N/A	Double.	Read-only.
min	Min pre-fec-ber about an optical channel.	N/A	Double.	Read-only.
max	Max pre-fec-ber about an optical channel.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/esnr

This table contains esnr information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Esnr
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current esnr about an optical channel in dB.	N/A	Double.	Read-only.
avg	Avg esnr about an optical channel in dB.	N/A	Double.	Read-only.
min	Min esnr about an optical channel in dB.	N/A	Double.	Read-only.
max	Max esnr about an optical channel in dB.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/optical-channel/state/sop-roc

This table contains sop-roc information about an optical channel.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Sop-roc
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current sop-roc about an optical channel in krad/s.	N/A	Double.	Read-only.
avg	Avg sop-roc about an optical channel in krad/s.	N/A	Double.	Read-only.
min	Min sop-roc about an optical channel in krad/s.	N/A	Double.	Read-only.
max	Max sop-roc about an optical channel in krad/s.	N/A	Double.	Read-only.
interval	Optical module historical performance data collection cycle,units is nanoseconds	N/A	Unsigned integer.	Read-only.

components/component/subcomponents

This table contains subcomponents information on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Subcomponents
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
subcomponent	subcomponent	Sublist	N/A	For more information, see components/component/subcomponents/subcomp

Column name	Column description	Column type	Data type and restrictions	Remarks
				onent table.

components/component/subcomponents/subcomponent

This table contains subcomponent information on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Subcomponent
Table type	Multi-instance table
Row name	Subcomponent
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Subcomponent name	Index	String.	Read-only.
state	Status information of the subcomponent	Subtable	N/A	For more information, see the components/component/subcomponents/subcomponent/state table.

components/component/subcomponents/subcomponent/state

This table contains status information about subcomponent

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Subcomponents State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Subcomponent name	Index	String	Read-only

components/component/transceiver

This table contains transceiver module information.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Transceiver
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Config of the transceiver module	Subtable	N/A	For more information, see the components/component/transceiver/config table.
state	Status of the transceiver module	Subtable	N/A	For more information, see the components/component/transceiver/state table.
physical-channels	Status of the transceiver physical-channels module	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels table.

components/component/transceiver/config

This table contains config information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Transceiver config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Turns power on / off to the transceiver	N/A	Boolean: • true (default). • false	
fec-mode	The FEC mode indicates the mode of operation for the transceiver's FEC.	N/A	Enumeration: • **FEC_ENABLED** • **FEC_DISABLED** • **FEC_AUTO** (default).	

components/component/transceiver/state

This table contains status information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Transceiver state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Turns power on / off to the transceiver	N/A	Boolean: • true • false	Read-only.
fec-mode	The FEC mode indicates the mode of operation for the transceiver's FEC.	N/A	Enumeration: • **FEC_ENABLED** • **FEC_DISABLED** • **FEC_AUTO**	Read-only.
present	Whether a transceiver is present in the specified client port.	N/A	Enumeration: • **PRESENT** • **NOT_PRESENT**	Read-only.

form-factor	Type of the transceiver module	N/A	Enumeration: • **CFP** • **CFP2** • **CFP2_ACO** • **CFP4** • **QSFP** • **QSFP_PLUS** • **QSFP28** • **CPAK** • **SFP** • **SFP_PLUS** • **XFP** • **X2** • **NON_PLUGGABLE** • **OTHER**	Read-only.
connector-type	Connector type used on this port	N/A	Enumeration: • **SC_CONNECTOR** • **LC_CONNECTOR** • **MPO_CONNECTOR** • **AOC_CONNECTOR** • **DAC_CONNECTOR**	Read-only.
vendor	Full name of the transceiver vendor	N/A	String. Length: 1 to 16 characters.	Read-only. Applicable only to Ethernet interfaces.
vendor-part	Part number of the transceiver module vendor	N/A	String. Length: 1 to 16 characters.	Read-only.
vendor-rev	Revision number of the transceiver module vendor	N/A	String. Length: 0 to 255 characters.	Read-only.
ethernet-pmd	Ethernet PMD (physical medium dependent sublayer) that the transceiver supports.	N/A	Enumeration: • **ETH_10GBASE_LRM** • **ETH_10GBASE_LR** • **ETH_10GBASE_ZR** • **ETH_10GBASE_ER** • **ETH_10GBASE_SR** • **ETH_40GBASE_CR4** • **ETH_40GBASE_SR4** • **ETH_40GBASE_LR4** • **ETH_40GBASE_ER4** • **ETH_40GBASE_PSM4** • **ETH_4X10GBASE_LR** • **ETH_4X10GBASE_SR** • **ETH_100G_AOC** • **ETH_100G_ACC** • **ETH_100GBASE_SR10** • **ETH_100GBASE_SR4** • **ETH_100GBASE_LR4** • **ETH_100GBASE_ER4**	Read-only.

			• **ETH_100GBASE_CWDM4** • **ETH_100GBASE_CLR4** • **ETH_100GBASE_PSM4** • **ETH_100GBASE_CR4** • **ETH_100GBASE_FR** • **ETH_400GBASE_ZR** • **ETH_400GBASE_LR4** • **ETH_400GBASE_FR4** • **ETH_400GBASE_LR8** • **ETH_400GBASE_DR4** • **ETH_UNDEFINED**	
serial-no	Serial number of the transceiver module	N/A	String. Length: 0 to 64 characters.	Read-only.
date-code	Representation of the transceiver date code, typically stored as YYMMDD.	N/A	DateTime. Format:YYMMDD	Read-only.
fault-condition	Indicates if a fault condition exists in the transceiver	N/A	Boolean: • true • false	Read-only.
voltage	Voltage of the transceiver module	Subtable	N/A	For more information, see the components/component/transceiver/state/voltage table.
laser-bias-current	Current applied to the transmit laser to achieve the output power	Subtable	N/A	For more information, see the components/component/transceiver/state/laser-bias-current table.
output-power	Output optical power of a physical channel in units of 0.01dBm	Subtable	N/A	For more information, see the components/component/transceiver/state/output-power table.
input-power	Input optical power of a physical channel in units of 0.01dBm	Subtable	N/A	For more information, see the components/component/transceiver/state/input-power table.
supply-voltage	Supply voltage to the transceiver in volts with 2 decimal	Subtable	N/A	For more information, see the

	precision.			components/component/transceiver/state/supply-voltage table.

components/component/transceiver/state/voltage

This table contains voltage information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	voltage
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current voltage	N/A	Double.	Read-only. 2147483647 means the device doesn't support this feature.

components/component/transceiver/state/laser-bias-current

This table contains current information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Laser-bias-current
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current applied to the transmit laser to achieve the output power.	N/A	Double.	Read-only. 2147483647 means the device doesn't support this feature.

components/component/transceiver/state/output-power

This table contains output power information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Output-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Output optical power.	N/A	Double.	Read-only 2147483647 means the device doesn't support this feature.

components/component/transceiver/state/input-power

This table contains input power information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Input-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Input optical power.	N/A	Double.	Read-only 2147483647 means the device doesn't support this feature.

components/component/transceiver/state/supply-voltage

This table contains supply-voltage information about a transceiver module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Supply-voltage
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	The instantaneous value of supply-votage.	N/A	Double.	Read-only

components/component/transceiver/physical-channels

This table contains status information about a transceiver physical-channels module.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Transceiver physical-channels
Table type	Single-instance table
Row name	N/A
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
channel	channel table	Sublist	N/A	For more information, see the components/component/transceiver/physical-channels/channel table.

components/component/transceiver/physical-channels/channel

This table contains status information about a transceiver channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	channel
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Channel index	Index	Unsigned integer. Value range: 0 to 65535.	Read-only.

config	Config of the channel	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/config table.
state	Status of the channel	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state table.

components/component/transceiver/physical-channels/channel/config

This table contains config information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Channel index	Index	Unsigned integer. Value range: 0 to 65535.	Read-only.
associated-optical-channel	A physical channel may reference an optical channel component.	N/A	String. Component name.	

description	Text description for the client physical channel.	N/A	String.	
tx-laser	Enable (true) or disable (false) the transmit label for the Channel.	N/A	Boolean: • true(default) • false	

components/component/transceiver/physical-channels/channel/state

This table contains status information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Channel index	Index	Unsigned integer. Value range: 0 to 65535.	Read-only.
associated-optical-channel	A physical channel may reference an optical channel component.	N/A	String. Component name.	Read-only.
description	Text description for the client physical channel.	N/A	String.	Read-only.
tx-laser	Enable (true) or disable (false) the transmit label for the Channel.	N/A	Boolean: • true • false	Read-only.

laser-temperature	Laser temperature difference between the target laser temperature for a cooled laser, and the actual current temperature in degrees Celsius with 1 decimal precision.	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/laser-temperature table.
target-frequency-deviation	The difference in MHz with 1 decimal precision between the target center frequency and the actual current center frequency .	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/target-frequency-deviation table.
tec-current	The amount of current flowing to the TC of a cooled laser in percentage with 2 decimal precision.	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/tec-current table.
output-power	The output optical power unit of the physical channel with the specified index is 0.01dBm	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/output-power table.
input-power	The input optical power unit of the physical channel with the specified index is 0.01dBm	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/input-power table.
laser-bias-current	The current applied to the specified channel emitting laser to achieve the output power	Subtable	N/A	For more information, see the components/component/transceiver/physical-channels/channel/state/laser-bias-current table.

components/component/transceiver/physical-channels/channel/state/laser-temperature

This table contains laser-temperature information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Laser-temperature
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	The instantaneous value of laser-temperature.	N/A	Double.	Read-only

components/component/transceiver/physical-channels/channel/state/target-frequency-deviation

This table contains target-frequency-deviation information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Target-frequency-deviation

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	The instantaneous value of target-frequency-deviation.	N/A	Double.	Read-only

components/component/transceiver/physical-channels/channel/state/tec-current

This table contains tec-current information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Tec-current
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	The instantaneous value of tec-current.	N/A	Double.	Read-only

components/component/transceiver/physical-channels/channel/state/output-power

This table contains output power information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Output-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Output optical power.	N/A	Double.	Read-only 2147483647 means the device doesn't support this feature.

components/component/transceiver/physical-channels/channel/state/input-power

This table contains input power information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Input-power
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Input optical power.	N/A	Double.	Read-only 2147483647 means the device doesn't support this feature.

components/component/transceiver/physical-channels/channel/state/laser-bias-current

This table contains current information about a channel module.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Laser-bias-current
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current applied to the transmit laser to achieve the output power.	N/A	Double.	Read-only. 2147483647 means the device doesn't support this feature.

components/component/power-supply

This table contains information about a power-supply on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Power-supply
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Status information about a power-supply	Subtable	N/A	For more information, see components/component/power-supply/state table.

components/component/power-supply/state

This table contains status information about a card.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Power-supply State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
capacity	Capacity of the power	N/A	String	Read-only
output-current	output-current of the power	N/A	String	Read-only
output-voltage	Output-voltage of the power	N/A	String	Read-only
output-power	Output-power of the power	N/A	String	Read-only

components/component/fan

This table contains information about a fan on the device.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Fan
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Status information about a fan	Subtable	N/A	For more information, see components/component/fan/state table.

components/component/fan/state

This table contains status information about a fan.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Fan State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
speed	Speed of fan	N/A	Unsigned integer	Read-only

components/component/cpu

This table contains CPU usage information about a component.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Cpu
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
utilization	CPU usage of the component	Subtable	N/A	For more information, see the components/component/cpu/utilization table.

components/component/cpu/utilization

This table contains CPU usage information about a component.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	utilization
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Operational state variables relating to the utilization of the CPU.	Subtable	N/A	Read-only

components/component/cpu/utilization/state

This table contains openconfig-platform/components/component/cpu/utilization/state

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Instant	Current CPU usage(%).	N/A	Double.	Read-only.

components/component/integrated-circuit

This table contains openconfig-platform/components/component/integrated-circuit

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	integrated-circuit
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
chip	Statistics representing integrated-circuit/chip of the component.	Subtable	N/A	For more information, see the components/component/integrated-circuit/chip table.

components/component/integrated-circuit/chip

This table contains components/component/intrgrated-circuit/chip information.

XML structure

See the XML structure of components.

Table description

Item	Description
Feature name	Openconfig-platform
Table name	Chip
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Statistics representing integrated-circuit/chip/config of the component.	Subtable	N/A	For more information, see the components/component/integrated-circuit/chip/buffers/buffer/config .
input	Statistics representing integrated-circuit/chip/input of the component.	Subtable	N/A	For more information, see the components/component/integrated-circuit/chip/buffers/buffer/input.
output	Statistics representing integrated-circuit/chip/input of the component.	Subtable	N/A	For more information, see the components/component/integrated-circuit/chip/buffers/buffer/output.
interfaces	Statistics representing integrated-circuit/chip/interfaces of the component.	Subtable	N/A	For more information, see the components/component/integrated-circuit/chip/buffers/buffer/interfaces.

Contents

openconfig-tencent-platform-chip 1

openconfig-tencent-platform-chip/chip 1
XML structure 1
Table description 4
Columns 4
openconfig-tencent-platform-chip/chip/buffers 4
XML structure 4
Table description 4
Columns 4
openconfig-tencent-platform-chip/chip/buffers/buffer 5
XML structure 5
Table description 5
Columns 5
openconfig-tencent-platform-chip/chip/buffers/buffer/config 6
XML structure 6
Table description 6
Columns 6
openconfig-tencent-platform-chip/chip/buffers/buffer/input 6
XML structure 7
Table description 7
Columns 7
openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues 7
XML structure 7
Table description 7
Columns 8
openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue 8
XML structure 8
Table description 8
Columns 8
openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue/config 9
XML structure 9
Table description 9
Columns 9
openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue/state 9
XML structure 9
Table description 9
Columns 10
openconfig-tencent-platform-chip/chip/buffers/buffer/output 10
XML structure 10
Table description 10
Columns 11
openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues 11
XML structure 11
Table description 11
Columns 11
openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue 12
XML structure 12
Table description 12
Columns 12
openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue/config 12
XML structure 13
Table description 13
Columns 13
openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue/state 13
XML structure 13
Table description 13
Columns 14

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/config ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 16
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues/queue ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
openconfig-tencent-platform-chip/ chip/buffers/buffer/interfaces/interface/input/queues/queue/config ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 19
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues/queue/state ····· 19
XML structure ····· 19
Table description ····· 20
Columns ····· 20
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues/queue ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 23
openconfig-tencent-platform-chip/ chip/buffers/buffer/interfaces/interface/output/queues/queue/config ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues/queue/state ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24
openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/input ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/input/state ····· 27
XML structure ····· 27

Table description ····· 27
Columns ····· 27
openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/output ····· 27
XML structure ····· 27
Table description ····· 28
Columns ····· 28
openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/output/state ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
openconfig-tencent-platform-chip/chip/state ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29

openconfig-tencent-platform-chip

openconfig-tencent-platform-chip/chip

This table contains chip information.

XML structure

```
<openconfig-tencent-platform-chip>
  <chip>
    <buffers>
      <buffer>
        <name></name>
        <config>
          <name></name>
        </config>
        <input>
          <queues>
            <queue>
              <name></name>
              <config>
                <name></name>
              </config>
              <state>
                <name></name>
                <current-usage></current-usage>
                <available-usage></available-usage>
                <current-utilization></current-utilization>
                <historical-peak></historical-peak>
                <alarm-threshold></alarm-threshold>
                <alarm-count></alarm-count>
                <discard-pkt></discard-pkt>
              </state>
            </queue>
          </queues>
        </input>
        <output>
          <queues>
            <queue>
              <name></name>
              <config>
                <name></name>
              </config>
              <state>
                <name></name>
                <current-usage></current-usage>
```

```
        <available-usage></available-usage>
        <current-utilization></current-utilization>
        <historical-peak></historical-peak>
        <alarm-threshold></alarm-threshold>
        <alarm-count></alarm-count>
        <discard-pkt></discard-pkt>
      </state>
    </queue>
  </queues>
</output>
<interfaces>
  <interface>
    <interface-id></interface-id>
    <config>
      <interface-id></interface-id>
    </config>
    <input>
      <queues>
        <queue>
          <name></name>
          <config>
            <name></name>
          </config>
          <state>
            <name></name>
            <current-usage></current-usage>
            <available-usage></available-usage>
            <current-utilization></current-utilization>
            <alarm-threshold></alarm-threshold>
            <alarm-count></alarm-count>
            <historical-peak></historical-peak>
            <historical-peak-time></historical-peak-time>
            <discard-pkt></discard-pkt>
            <discard-traffic></discard-traffic>
            <forward-pkt></forward-pkt>
            <forward-traffic></forward-traffic>
          </state>
        </queue>
      </queues>
    </input>
    <output>
      <queues>
        <queue>
          <name></name>
          <config>
            <name></name>
          </config>
          <state>
```

```
                <name></name>
                <current-usage></current-usage>
                <available-usage></available-usage>
                <current-utilization></current-utilization>
                <alarm-threshold></alarm-threshold>
                <alarm-count></alarm-count>
                <historical-peak></historical-peak>
                <historical-peak-time></historical-peak-time>
                <discard-pkt></discard-pkt>
                <discard-traffic></discard-traffic>
                <forward-pkt></forward-pkt>
                <forward-traffic></forward-traffic>
              </state>
            </queue>
          </queues>
        </output>
      </interface>
    </interfaces>
    <slices>
      <slice>
        <slice-name></slice-name>
        <input>
          <state>
            <name></name>
            <current-usage></current-usage>
            <available-usage></available-usage>
            <historical-peak></historical-peak>
            <historical-peak-time></historical-peak-time>
          </state>
        </input>
        <output>
          <state>
            <name></name>
            <current-usage></current-usage>
            <available-usage></available-usage>
            <current-utilization></current-utilization>
            <historical-peak></historical-peak>
            <historical-peak-time></historical-peak-time>
          </state>
        </output>
      </slice>
    </slices>
  </buffer>
</buffers>
<state>
  <error-reason></error-reason>
</state>
</chip>
```

```
</openconfig-tencent-platform-chip>
```

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	chip
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
buffers	Buffers table	Table	N/A	For more information, see the chip/buffers table.
state	State table	Table	N/A	For more information, see the chip/state table.

openconfig-tencent-platform-chip/chip/buffers

This table contains chip/buffers information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	buffers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
buffer	Buffer table	Sublist	N/A	For more information, see the chip/buffers/buffer table.

openconfig-tencent-platform-chip/chip/buffers/buffer

This table contains chip/buffers/buffer information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	buffer
Table type	Multi-instance table
Row name	buffer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the buffer instantiated on the chip	Index	Enumeration: • **shared-buffer** • **exclusive-buffer** • **headroom**	Read-only.
config	Configuration data for buffer	Subtable	N/A	For more information, see the chip/buffers/buffer/config table.
input	Buffer data relate to the ingress chip	Subtable	N/A	For more information, see the chip/buffers/buffer/input table.
output	Buffer data relate to the egress chip	Subtable	N/A	For more information, see the chip/buffers/buffer/output table.

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaces	The list of interface references	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces table.

openconfig-tencent-platform-chip/chip/buffers/buffer/config

This table contains chip/buffers/buffer/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the buffer instantiated on the chip	Index	Enumeration: • **shared-buffer** • **exclusive-buffer** • **headroom**	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/input

This table contains chip/buffers/buffer/input information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	input
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the chip/buffers/buffer/input/queues table.

openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues

This table contains chip/buffers/buffer/input/queues information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the chip/buffers/buffer/input/queues/queue table.

openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue

This table contains chip/buffers/buffer/input/queues/queue information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	Index	String. Value: servicepool0 to servicepool3	Read-only.
config	Configuration data for Buffer on the ingress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/input/queues/queue/config table.
state	Operational state data for the queue associated with the buffer.	Subtable	N/A	For more information, see the chip/buffers/buffer/input/queues/queue/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue/config

This table contains chip/buffers/buffer/input/queues/queue/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	N/A	String. Value:servicepool0 to servicepool3	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/input/queues/queue/state

This table contains chip/buffers/buffer/input/queues/queue/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip

Item	Description
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	N/A	String. Value: servicepool0-servicepool3	Read-only.
current-usage	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available-usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
current-utilization	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 100.	Read-only.
historical-peak	Historical peak of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
alarm-threshold	The threshold of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
alarm-count	The count of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/output

This table contains chip/buffers/buffer/output information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	output

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the chip/buffers/buffer/output/queues table.

openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues

This table contains chip/buffers/buffer/output/queues information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the chip/buffers/buffer/output/queues/queue table.

openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue

This table contains chip/buffers/buffer/output/queues/queue information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	Index	String. Value: servicepool0 to servicepool3	Read-only.
config	Configuration data for Buffer on the egress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/output/queues/queue/config table.
state	Operational state data for the queue associated with the buffer.	Subtable	N/A	For more information, see the chip/buffers/buffer/output/queues/queue/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue/config

This table contains chip/buffers/buffer/output/queues/queue/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	N/A	String. Value: servicepool0 to servicepool3	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/output/queues/queue/state

This table contains chip/buffers/buffer/output/queues/queue/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer.	N/A	String. Value: servicepool0-servicepool3	Read-only.
current-usage	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available-usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
current-utilization	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 100.	Read-only.
historical-peak	Historical peak of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
alarm-threshold	The threshold of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
alarm-count	The count of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces

This table contains chip/buffers/buffer/interfaces information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the chip/buffers/buffer/interfaces/interface table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface

This table contains chip/buffers/buffer/interfaces/interface information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-id	Full name of an interface	Index	String. Length: 2 to 47 characters.	Read-only.
config	Configuration data for interfaces referenced in the chip model.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/config table.
input	Buffer data relate to the ingress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/input table.
output	Buffer data relate to the egress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/output table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/config

This table contains chip/buffers/buffer/interfaces/interface/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-id	Full name of an interface	Index	String. Length: 2 to 47 characters.	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input

This table contains chip/buffers/buffer/interfaces/interface/input information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip

Item	Description
Table name	input
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/input/queues table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues

This table contains chip/buffers/buffer/interfaces/interface/input/queues information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the chip/buffers/buffer/interfaces/inte

Column name	Column description	Column type	Data type and restrictions	Remarks
				rface/input/queues/queue table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues/queue

This table contains chip/buffers/buffer/interfaces/interface/input/queues/queue information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the queue instantiated on the buffer. The NULL queue represents all queues.	Index	String. Value:que0 to que7,NULL	Read-only.
config	Configuration data for Buffer on the ingress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/input/queues/queue/config table.
state	Operational state data for the queue associated with the buffer.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/input/queues/queue/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues/queue/config

This table contains chip/buffers/buffer/interfaces/interface/input/queues/queue/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/input/queues/queue/state

This table contains chip/buffers/buffer/interfaces/interface/input/queues/queue/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.
current-usage	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available-usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
current-utilization	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 100.	Read-only.
historical-peak	Historical peak of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
historical-peak-time	Time when the historical peak was reached.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1..	Read-only.
discard-pkt	The count of packets dropped since buffer overflow.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
discard-traffic	Size of packets droped since buffer overflow.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
alarm-threshold	The threshold of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
alarm-count	The count of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
forward-pkt	The count of packet that forwarded.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
forward-traffic	The count of packet size that forwarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output

This table contains chip/buffers/buffer/interfaces/interface/output information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	output
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/output/queues table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues

This table contains chip/buffers/buffer/interfaces/interface/output/queues information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/output/queues/queue table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues/queue

This table contains chip/buffers/buffer/interfaces/interface/output/queues/queue information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The name of the queue instantiated on the buffer. The NULL queue represents all queues.	Index	String. Value:que0 to que7,NULL	Read-only.
config	Configuration data for Buffer on the egress chip.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/output/queues/queue/config table.
state	Operational state data for the queue associated with the buffer.	Subtable	N/A	For more information, see the chip/buffers/buffer/interfaces/interface/output/queues/queue/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues/queue/config

This table contains chip/buffers/buffer/interfaces/interface/output/queues/queue/config information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the buffer. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/interfaces/interface/output/queues/queue/state

This table contains chip/buffers/buffer/interfaces/interface/output/queues/queue/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.
current-usage	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available-usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
current-utilization	Current usage of buffer size.	N/A	Unsigned integer. Value range: 0 to 100.	Read-only.
historical-peak	Historical peak of buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
historical-peak-time	Time when the historical peak was reached	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1..	Read-only.
discard-pkt	The count of packet that dropped since buffer overflow.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
discard-traffic	Size of packets droped since buffer overflow.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
alarm-threshold	The threshold of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
alarm-count	The count of alarm.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	Read-only.
forward-pkt	The count of packet that forwarded.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
forward-traffic	The count of packet size that forwarded.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice

This table contains chip/buffers/buffer/slices/slice information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	slice
Table type	Multi-instance table
Row name	slice
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
slice-name	Full name of the slice	Index	String. Length: 2 to 47 characters.	Read-only.
input	Buffer data related to the ingress chip.	Sublist	N/A	For more information, see the chip/buffers/buffer/slices/slice/input table.
output	Buffer data related to the egress chip.	Sublist	N/A	For more information, see the chip/buffers/buffer/slices/slice/output table.

openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/input

This table contains chip/buffers/buffer/slices/slice/input information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	input
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Operational state data for the input associated with the buffer.	Table	N/A	For more information, see the chip/buffers/buffer/slices/slice/input/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/input/state

This table contains chip/buffers/buffer/slices/slice/input/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
current-usage	Current buffer usage.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available buffer usage.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
historical-peak	Historical peak of the buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
historical-peak-time	Time when the historical peak was reached.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1..	Read-only.

openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/output

This table contains chip/buffers/buffer/slices/slice/output information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	output
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Operational state data for the output associated with the buffer.	Table	N/A	For more information, see the chip/buffers/buffer/slices/slice/output/state table.

openconfig-tencent-platform-chip/chip/buffers/buffer/slices/slice/output/state

This table contains chip/buffers/buffer/slices/slice/output/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
current-usage	Current buffer usage.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
available-usage	Available buffer usage.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
current-utilization	Current buffer usage.	N/A	Unsigned integer. Value range: 0 to 100.	Read-only.
historical-peak	Historical peak of the buffer size.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
historical-peak-time	Time when the historical peak was reached.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1..	Read-only.

openconfig-tencent-platform-chip/chip/state

This table contains chip/state information.

XML structure

Please refer to the XML structure of chip.

Table description

Item	Description
Feature name	openconfig-tencent-platform-chip
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
error-reason	The error reason of chip(for example:ECC,parity error and so on)	Index	String.	Read-only.

Contents

openconfig-qos 1

qos 1
- XML structure 1
- Table description 2
- Columns 2

qos/interfaces 2
- XML structure 2
- Table description 3
- Columns 3

qos/interfaces/interface 3
- XML structure 3
- Table description 3
- Columns 3

qos/interfaces/interface/config 4
- XML structure 4
- Table description 4
- Columns 4

qos/interfaces/interface/state 5
- XML structure 5
- Table description 5
- Columns 5

qos/interfaces/interface/input 5
- XML structure 5
- Table description 5
- Columns 6

qos/interfaces/interface/input/queues 6
- XML structure 6
- Table description 6
- Columns 6

qos/interfaces/interface/input/queues/queue 7
- XML structure 7
- Table description 7
- Columns 7

qos/interfaces/interface/input/queues/queue/config 7
- XML structure 8
- Table description 8
- Columns 8

qos/interfaces/interface/input/queues/queue/state 8
- XML structure 8
- Table description 8
- Columns 9

qos/interfaces/interface/output 9
- XML structure 10
- Table description 10
- Columns 10

qos/interfaces/interface/output/queues 10
- XML structure 10
- Table description 10
- Columns 11

qos/interfaces/interface/output/queues/queue 11
- XML structure 11
- Table description 11
- Columns 11

qos/interfaces/interface/output/queues/queue/config 12
- XML structure 12
- Table description 12
- Columns 12

qos/interfaces/interface/output/queues/queue/state 12
XML structure 12
Table description 13
Columns 13

openconfig-qos

qos

This table contains qos information.

XML structure

```
<qos>
  <interfaces>
    <interface>
      <interface-id></interface-id>
      <config>
        <interface-id></interface-id>
      </config>
    <state>
      <interface-id></interface-id>
    </state>
    <input>
      <queues>
        <queue>
          <name></name>
          <config>
            <name></name>
          </config>
          <state>
            <name></name>
            <pfc-pkts></pfc-pkts>
            <ecn-sign-pkts></ecn-sign-pkts>
            <wred-drop-pkts></wred-drop-pkts>
            <pfc-deadlock-detect></pfc-deadlock-detect>
            <pfc-deadlock-recover></pfc-deadlock-recover>
            <rocev2-nack-pkts></rocev2-nack-pkts>
            <pfc-speed-threshold></pfc-speed-threshold>
            <pfc-overspeed></pfc-overspeed>
            <cnp></cnp>
          </state>
        </queue>
      </queues>
    </input>
    <output>
      <queues>
        <queue>
          <name></name>
          <config>
            <name></name>
```

```
          </config>
          <state>
            <name></name>
            <pfc-pkts></pfc-pkts>
            <ecn-sign-pkts></ecn-sign-pkts>
            <wred-drop-pkts></wred-drop-pkts>
            <rocev2-nack-pkts></rocev2-nack-pkts>
            <pfc-speed-threshold></pfc-speed-threshold>
            <pfc-overspeed></pfc-overspeed>
            <cnp></cnp>
          </state>
        </queue>
      </queues>
    </output>
    </interface>
  </interfaces>
</qos>
```

Table description

Item	Description
Feature name	Openconfig-qos
Table name	qos
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interfaces	Interfaces table	Table	N/A	For more information, see the qos/interfaces table.

qos/interfaces

This table contains qos/interfaces information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the qos/interfaces/interface table.

qos/interfaces/interface

This table contains qos/interfaces/interface information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-id	Full name of an	Index	String.	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface		Length: 2 to 47 characters.	
config	Configuration data for interfaces referenced in the QoS model.	Subtable	N/A	For more information, see the qos/interfaces/interface/config table.
state	The state table of the interface.	Subtable	N/A	For more information, see the qos/interfaces/interface/state table.
input	QoS data for the ingress interface	Subtable	N/A	For more information, see the qos/interfaces/interface/input table.
output	QoS data related to the egress interface	Subtable	N/A	For more information, see the qos/interfaces/interface/output table.

qos/interfaces/interface/config

This table contains qos/interfaces/interface/config information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-id	Full name of an interface	Index	String. Length: 2 to 47 characters.	Read-only.

qos/interfaces/interface/state

This table contains qos/interfaces/interface/state information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interfaces-id	Full name of an interface	N/A	String. Length: 2 to 47 characters.	Read-only.

qos/interfaces/interface/input

This table contains qos/interfaces/interface/input information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	input
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the qos/interfaces/interface/input/queues table.

qos/interfaces/interface/input/queues

This table contains qos/interfaces/interface/input/queues information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the qos/interfaces/interface/input/queues/queue table.

qos/interfaces/interface/input/queues/queue

This table contains qos/interfaces/interface/input/queues/queue information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	Index	String. Value:que0 to que7, NULL	Read-only.
config	Configuration data for QoS on ingress interface.	Subtable	N/A	For more information, see the qos/interfaces/interface/input/queues/queue/config table.
state	Operational state data for the queue associated with the interface	Subtable	N/A	For more information, see the qos/interfaces/interface/input/queues/queue/state table.

qos/interfaces/interface/input/queues/queue/config

This table contains qos/interfaces/interface/input/queues/queue/config information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.

qos/interfaces/interface/input/queues/queue/state

This table contains qos/interfaces/interface/input/queues/queue/state information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.
pfc-pkts	Number of PFC packets transmit by the queue. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
ecn-sign-pkts	Number of packets signed by ecn. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
wred-drop-pkts	Number of packets dropped by WRED. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-deadlock-detect	Notification for the detection of PFC deadlock. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-deadlock-recover	Notification for the recovery of PFC deadlock. This leaf is defined by Tencent	N/A	Boolean: • true • false	Read-only.
rocev2-nack-pkts	Number of RoCEv2 NACK packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-speed-threshold	Speed of PFC packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-overspeed	PFC packets are overspeed. This leaf is defined by Tencent	N/A	Boolean: • true • false	Read-only.
cnp	The count of congestion notification packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

qos/interfaces/interface/output

This table contains qos/interfaces/interface/output information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	output
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queues	Queues table	Table	N/A	For more information, see the qos/interfaces/interface/output/Queues table.

qos/interfaces/interface/output/queues

This table contains qos/interfaces/interface/output/queues information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	queues
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
queue	Queue table	Sublist	N/A	For more information, see the qos/interfaces/interface/output/queues/queue table.

qos/interfaces/interface/output/queues/queue

This table contains qos/interfaces/interface/output/queues/queue information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	queue
Table type	Multi-instance table
Row name	queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	Index	String. Value:que0 to que7,NULL	Read-only.
config	Configuration data for QoS on the egress interface.	Subtable	N/A	For more information, see the qos/interfaces/interface/output/queues/queue/config table.
state	Operational state data for the queue associated with the interface	Subtable	N/A	For more information, see the qos/interfaces/interface/output/queues/queue/state

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.

qos/interfaces/interface/output/queues/queue/config

This table contains qos/interfaces/interface/output/queues/queue/config information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.

qos/interfaces/interface/output/queues/queue/state

This table contains qos/interfaces/interface/output/queues/queue/state information.

XML structure

Please refer to the XML structure of qos.

Table description

Item	Description
Feature name	Openconfig-qos
Table name	state
Table type	Multi-instance table
Row name	state
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Reference to the name of the queue instantiated on the interface. The NULL queue represents all queues.	N/A	String. Value:que0 to que7,NULL	Read-only.
pfc-pkts	Number of PFC packets transmit by the queue. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
ecn-sign-pkts	Number of packets signed by ecn. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
wred-drop-pkts	Number of packets dropped by WRED. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
rocev2-nack-pkts	Number of RoCEv2 NACK packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-speed-threshold	Speed of PFC packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.
pfc-overspeed	PFC packets are overspeed. This leaf is defined by Tencent	N/A	Boolean: • true • false	Read-only.
cnp	The count of congestion notification packets. This leaf is defined by Tencent	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Read-only.

Contents

openconfig-routing-policy 1

openconfig-routing-policy/routing-policy 1
XML structure 1
Table description 2
Columns 3
openconfig-routing-policy/routing-policy/defined-sets 3
XML structure 3
Table description 3
Columns 3
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets 4
XML structure 4
Table description 4
Columns 4
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set 4
XML structure 4
Table description 5
Columns 5
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/config 5
XML structure 5
Table description 5
Columns 6
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes 6
XML structure 6
Table description 6
Columns 6
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix 7
XML structure 7
Table description 7
Columns 7
openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix/config 8
XML structure 8
Table description 8
Columns 8
openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets 8
XML structure 8
Table description 9
Columns 9
openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets 9
XML structure 9
Table description 9
Columns 10
openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set 10
XML structure 10
Table description 10
Columns 10
openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set/config 11
XML structure 11
Table description 11
Columns 11
openconfig-routing-policy/routing-policy/policy-definitions 12
XML structure 12
Table description 12
Columns 12
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition 12
XML structure 13
Table description 13

Columns ····· 13
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/config ····· 13
XML structure ····· 13
Table description ····· 14
Columns ····· 14
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 15
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/config ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set/config ····· 18
XML structure ····· 19
Table description ····· 19
Columns ····· 19
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions ····· 19
XML structure ····· 19
Table description ····· 19
Columns ····· 20
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set ····· 20
XML structure ····· 20
Table description ····· 20
Columns ····· 21
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set/match-community-set/config ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 21
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions ····· 22
XML structure ····· 22
Table description ····· 22
Columns ····· 22
openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions/config ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23

openconfig-routing-policy

openconfig-routing-policy/routing-policy

This table contains routing policy information.

XML structure

```
<routing-policy>
  <defined-sets>
    <prefix-sets>
      <prefix-set>
        <name></name>
        <config>
          <name></name>
          <mode></mode>
        </config>
        <prefixes>
          <prefix>
            <ip-prefix></ip-prefix>
            <masklength-range></masklength-range>
            <config>
              <ip-prefix></ip-prefix>
              <masklength-range></masklength-range>
            </config>
          </prefix>
        </prefixes>
      </prefix-set>
    </prefix-sets>
    <bgp-defined-sets>
      <community-sets>
        <community-set>
          <community-set-name></community-set-name>
          <config>
            <community-set-name></community-set-name>
            <community-member></community-member>
          </config>
        </community-set>
      </community-sets>
    </bgp-defined-sets>
  </defined-sets>
  <policy-definitions>
    <policy-definition>
      <name></name>
      <config>
        <name></name>
```

```
      </config>
      <statements>
        <statement>
          <name></name>
          <config>
            <name></name>
          </config>
          <conditions>
            <match-prefix-set>
              <config>
                <prefix-set></prefix-set>
                <match-set-options></match-set-options>
              </config>
            </match-prefix-set>
            <bgp-conditions>
              <match-community-set>
                <config>
                  <community-set></community-set>
                </config>
              </match-community-set>
            </bgp-conditions>
          </conditions>
          <actions>
            <config>
              <policy-result></policy-result>
            </config>
          </actions>
        </statement>
      </statements>
    </policy-definition>
  </policy-definitions>
</routing-policy>
```

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	routing-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
defined-sets	Defined-sets information	Subtable	N/A	For more information, see the routing-policy /defined-sets table.
policy-definition s	Policy-definition s information	Subtable	N/A	For more information, see the routing-policy /policy-definitions table.

openconfig-routing-policy/routing-policy/defined-sets

This table contains defined-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	defined-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-sets	Prefix-sets information	Subtable	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets

This table contains prefix-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-set	Prefix-set information	Sublist	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/ prefix-set table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set

This table contains prefix-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix-set
Table type	Single-instance table
Row name	prefix-set
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Prefix-set name	Index	String. Length: 1 to 63 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/prefix-set/ config table.
prefixes	Prefixes information	Subtable	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/ prefix-set/ prefixes table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/config

This table contains prefix-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Prefix-set name	Index	String. Length: 1 to 63 characters.	N/A
mode	Prefix-set mode	N/A	String. Length: 1 to 16 characters.	Example: IPV4

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes

This table contains prefixes information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefixes
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix information	Sublist	N/A	For more information, see the routing-policy /defined-sets/prefix-sets/ prefix-set/

Column name	Column description	Column type	Data type and restrictions	Remarks
				prefixes/prefix table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix

This table contains prefix information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix
Table type	Multi-instance table
Row name	prefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-prefix	IP prefix and prefix length	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
masklength-range	Mask length range information	index	Ge: Greater than or equal to. Le: Less than or equal to. Length: 4-6.	IPv4 example: 24..26, exact (masklength == ge == le).
config	Configuration information	Subtable	N/A	For more information, see the routing-policy /defined-sets/prefix-sets/ prefix-set/ prefixes/prefix/config table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix/config

This table contains prefix configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-prefix	IP prefix and prefix length	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
masklength-range	Mask length range information	index	Ge: Greater than or equal to. Le: Less than or equal to. Length: 4-6.	IPv4 example: 24..26, exact (masklength == ge == le).

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets

This table contains BGP-defined-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	bgp-defined-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-sets	Community-sets information	Subtable	N/A	For more information, see the routing-policy /defined-sets/bgp -defined-sets/co mmunity-sets table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets

This table contains community-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	community-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set	Community-set information	Sublist	N/A	For more information, see the routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set

This table contains community-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	community-set
Table type	Multi-instance table
Row name	community-set
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set-name	Community name	Index	String: Length: 1-2 Basic community list number: 1-99.	Example: 12.
config	Configuration information	Subtable	N/A	For more information, see the routing-policy

Column name	Column description	Column type	Data type and restrictions	Remarks
				/defined-sets/bgp-defined-sets/community-sets/community-set/config table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set/config

This table contains community-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set-name	Community name	Index	String: Length: 1-2. Basic community list number: 1-99.	Example: 12
community-member	Community member	N/A	String: Length: 1-19 1-4294967295 aa:nn: aa<0-65535>:nn<0-65535> internet no-advertise	Example:12345, 11:22.

Column name	Column description	Column type	Data type and restrictions	Remarks
			no-export no-export-subconfed	

openconfig-routing-policy/routing-policy/policy-definitions

This table contains policy-definitions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	policy-definitions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
policy-definition	Policy-definition information	Subtable	N/A	For more information, see the routing-policy /policy-definitions / policy-definition table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition

This table contains policy-definition information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	policy-definition
Table type	Single-instance table
Row name	policy-definition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Policy-definition name	Index	String. Length: 1 to 63 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the routing-policy /policy-definitions /policy-definition/ config table.
statements	Statements information	Subtable	N/A	For more information, see the routing-policy /policy-definitions /policy-definition/ statements table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/config

This table contains policy-definition config information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Policy-definition name	Index	String. Length: 1 to 63 characters.	N/A

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements

This table contains statements information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	statements
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
statement	Statement information	Sublist	N/A	For more information, see the routing-policy/ policy-definitions/ policy-definition/s tatements/statem ent table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement

This table contains statement information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	statement
Table type	Multi-instance table
Row name	statement
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Node index	Index	Integer. Range: 0 to 65535.	Example: 123.
config	Configuration information	Subtable	N/A	For more information, see the routing-policy / policy-definitions/ policy-definition/s tatements/ statement /config

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.
conditions	Conditions information	Subtable	N/A	For more information, see the routing-policy / policy-definitions/ policy-definition/s tatements/ statement / conditions table.
actions	Actions information	Subtable	N/A	For more information, see the routing-policy / policy-definitions/ policy-definition/s tatements/ statement / actions table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/config

This table contains statement configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Node index	Index	Integer. Range: 0 to 65535.	Example: 123.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions

This table contains conditions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	conditions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
match-prefix-set	Match-prefix-set information	Sublist	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set

This table contains match-prefix-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	match-prefix-set
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set/config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set/config

This table contains match-prefix-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-set	Prefix-set information	N/A	String. Length: 1 to 63 characters.	N/A
match-set-options	Match-set-options information	N/A	String. Length: 1 to 16 characters. Only support “ANY”.	Example: ANY

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions

This table contains BGP-conditions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	bgp-conditions
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
match-community-set	Match-community-set information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set

This table contains match-community-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	match-community-set
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set/match-community-set/config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set/match-community-set/config

This table contains match-community-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set	Community-set information	N/A	String: Length: 1-2.	Example: 12.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Basic community list number: 1-99.	

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions

This table contains actions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	actions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definition/statements/statement/actions /config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions/config

This table contains actions configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
policy-result	Policy-result information	N/A	String: ACCEPT_ROUTE or REJECT_ROUTE. Length: 1 to 16 characters. Enumeration: · ACCEPT_ROUTE · REJECT_ROUTE	Example: ACCEPT_ROUTE.

Contents

openconfig-segment-routing 2

segment-routing 2
XML structure 2
Table description 2
Columns 3
segment-routing/srgbs 3
XML structure 3
Table description 3
Columns 4
segment-routing/srgbs/config 4
XML structure 4
Table description 4
Columns 4
segment-routing/srlbs 5
XML structure 5
Table description 5
Columns 6
segment-routing/srlbs/config 6
XML structure 6
Table description 6
Columns 6
Example 7

openconfig-segment-routing

The namespace of openconfig-segment-routing is "http://openconfig.net/yang/sr".

segment-routing

This table contains segment routing information.

XML structure

```
<segment-routing>
  <srgbs>
    <srgb>
      <local-id></local-id>
      <config>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-blocks></mpls-label-blocks>
      </config>
    </srgb>
  </srgbs>
  <srlbs>
    <srlb>
      <local-id></local-id>
      <config>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-block></mpls-label-block>
      </config>
    </srlb>
  </srlbs>
</segment-routing>
```

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	segment-routing
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
srgbs	Information of SRGBs	Sublist	For details of the sublist, see the srgbs table.	For more information, see the network-instances/network-instance/segment-routing/srgbs
srlbs	Information of SRLBs	Sublist	For details of the sublist, see the srlbs table.	For more information, see the network-instances/network-instance/segment-routing/srlbs

segment-routing/srgbs

This table contains SRGBs information.

XML structure

Please refer to the XML Structure of segment-routing/srgbs.

Table description

Item	**Description**
Feature name	openconfig-segment-routing
Table name	srgbs
Table type	Multi-instance table
Row name	srgb
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
config	Configuration information of the SRGB	Sublist	For details of the sublist, see the config table.	N/A

segment-routing/srgbs/config

This table contains SRGB configuration information.

XML structure

Please refer to the XML Structure of segment-routing/srgbs/config.

Table description

Item	**Description**
Feature name	openconfig-segment-routing
Table name	config
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.

dataplane-type	Dataplane being used to instantiate the SRGB	N/A	Enumeration: • MPLS	When MPLS is specified, the set of MPLS label blocks that are defined in the mpls-label-blocks list are used to make up the SRGB.
mpls-label-blocks	MPLS label blocks specified for the SRGB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRGB.

segment-routing/srlbs

This table contains SRLBs information.

XML structure

Please refer to the XML Structure of segment-routing/srlbs.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	srlbs
Table type	Multi-instance table
Row name	srlb
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRLB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
config	Configuration information of the SRLB	Sublist	For details of the sublist, see the config table.	N/A

segment-routing/srlbs/config

This table contains SRLB configuration information.

XML structure

Please refer to the XML Structure of segment-routing/srlbs/config.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	config
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.

dataplane-type	Dataplane being used to instantiate the SRLB	N/A	Enumeration: • MPLS	When MPLS is specified the set of MPLS label block that are defined in the mpls-label-block list are used to make up the SRLB.
mpls-label-block	MPLS label blocks specified for the SRLB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRLB.

Example

Bind the global MPLS label block through the merge operation:

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<edit-config>
  <target>
    <running/>
  </target>
<config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
<v:network-instances xc:operation="merge"
xmlns:v="http://openconfig.net/yang/network-instance">
  <v:network-instance>
    <v:name>DEFAULT-INSTANCE</v:name>
      <k:segment-routing  xmlns:k="http://openconfig.net/yang/sr">
        <k:srgbs>
           <k:srgb>
             <k:local-id>global</k:local-id>
               <k:config>
                 <k:local-id>global</k:local-id>
                 <k:dataplane-type>MPLS</k:dataplane-type>
                 <k:mpls-label-blocks>aaa</k:mpls-label-blocks>
               </k:config>
          </k:srgb>
        </k:srgbs>
      </k:segment-routing>
  </v:network-instance>
</v:network-instances>
</config>
</edit-config>
</rpc>
```

Contents

openconfig-segment-routing 2

segment-routing 2
XML structure 2
Table description 3
Columns 3
segment-routing/srgbs 3
XML structure 3
Table description 4
Columns 4
segment-routing/srgbs/config 4
XML structure 4
Table description 5
Columns 5
segment-routing/srgbs/state 5
XML structure 6
Table description 6
Columns 6
segment-routing/srlbs 7
XML structure 7
Table description 7
Columns 7
segment-routing/srlbs/config 8
XML structure 8
Table description 8
Columns 8
segment-routing/srlbs/state 9
XML structure 9
Table description 9
Columns 10
Example 10

openconfig-segment-routing

The namespace of openconfig-segment-routing is "http://openconfig.net/yang/sr".

segment-routing

This table contains segment routing information.

XML structure

```
<segment-routing>
  <srgbs>
    <srgb>
      <local-id></local-id>
      <config>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-blocks></mpls-label-blocks>
      </config>
      <state>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-blocks></mpls-label-blocks>
        <size></size>
        <used></used>
      </state>
    </srgb>
  </srgbs>
  <srlbs>
    <srlb>
      <local-id></local-id>
      <config>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-block></mpls-label-block>
      </config>
      <state>
        <local-id></local-id>
        <dataplane-type></dataplane-type>
        <mpls-label-block></mpls-label-block>
      </state>
    </srlb>
  </srlbs>
</segment-routing>
```

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	segment-routing
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
srgbs	Information of SRGBs	Sublist	For details of the sublist, see the srgbs table.	For more information, see the network-instances/network-instance/segment-routing/srgbs
srlbs	Information of SRLBs	Sublist	For details of the sublist, see the srlbs table.	For more information, see the network-instances/network-instance/segment-routing/srlbs

segment-routing/srgbs

This table contains SRGBs information.

XML structure

Please refer to the XML Structure of segment-routing/srgbs.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	srgbs
Table type	Multi-instance table
Row name	srgb
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
config	Configuration information of the SRGB	Sublist	For details of the sublist, see the config table.	N/A
state	State information of the SRGB	Sublist	For details of the sublist, see the state table.	N/A

segment-routing/srgbs/config

This table contains SRGB configuration information.

XML structure

Please refer to the XML Structure of segment-routing/srgbs/config.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	config
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
dataplane-type	Dataplane being used to instantiate the SRGB	N/A	Enumeration: • MPLS	When MPLS is specified, the set of MPLS label blocks that are defined in the mpls-label-blocks list are used to make up the SRGB.
mpls-label-blocks	MPLS label blocks specified for the SRGB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRGB.

segment-routing/srgbs/state

This table contains SRGB state information.

XML structure

Please refer to the XML Structure of segment-routing/srgbs/state.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	state
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRGB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
dataplane-type	Dataplane being used to instantiate the SRGB	N/A	Enumeration: • MPLS	When MPLS is specified, the set of MPLS label blocks that are defined in the mpls-label-blocks list are used to make up the SRGB.
mpls-label-blocks	MPLS label blocks specified for the SRGB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRGB.

size	Total number of SRGB entries	N/A	Unsigned integer.	N/A
used	Number of SRGB entries that have been allocated by protocols referencing the SRGB	N/A	Unsigned integer.	N/A

segment-routing/srlbs

This table contains SRLBs information.

XML structure

Please refer to the XML Structure of segment-routing/srlbs.

Table description

Item	Description
Feature name	openconfig-segment-routing
Table name	srlbs
Table type	Multi-instance table
Row name	srlb
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRLB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.

config	Configuration information of the SRLB	Sublist	For details of the sublist, see the config table.	N/A
state	State information of the SRLB	Sublist	For details of the sublist, see the state table.	N/A

segment-routing/srlbs/config

This table contains SRLB configuration information.

XML structure

Please refer to the XML Structure of segment-routing/srlbs/config.

Table description

Item	Description
Feature name	openconfig-srlb
Table name	srlbs
Table type	Multi-instance table
Row name	Srlb/config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRLB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.

dataplane-type	Dataplane being used to instantiate the SRLB	N/A	Enumeration: • MPLS	When MPLS is specified, the set of MPLS label block that are defined in the mpls-label-block list are used to make up the SRLB.
mpls-label-block	MPLS label blocks specified for the SRLB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRLB.

segment-routing/srlbs/state

This table contains SRLB state information.

XML structure

Please refer to the XML Structure of segment-routing/srlbs/state.

Table description

Item	Description
Feature name	openconfig-srlb
Table name	srlbs
Table type	Multi-instance table
Row name	srlb/state
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
local-id	Local identifier for an SRLB	Index	String. Length: 1 to 31 characters.	Currently only “global” is supported.
dataplane-type	Dataplane being used to instantiate the SRLB	N/A	Enumeration: • MPLS	When MPLS is specified, the set of MPLS label block that are defined in the mpls-label-block list are used to make up the SRLB.
mpls-label-block	MPLS label blocks specified for the SRLB	N/A	String. Length: 1 to 127 characters.	A list of references to the label blocks that are used to make up the SRLB.

Example

Bind the global MPLS label block through the merge operation:

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<get>
<filter type="subtree">
<v:network-instances
xmlns:v="http://openconfig.net/yang/network-instance">
  <v:network-instance>
    <v:name>DEFAULT-INSTANCE</v:name>
      <k:segment-routing  xmlns:k="http://openconfig.net/yang/sr">
        <k:srgbs>
           <k:srgb>
             <k:local-id>global</k:local-id>
               <k:config>
                 <k:local-id>global</k:local-id>
                 <k:dataplane-type></k:dataplane-type>
                 <k:mpls-label-blocks></k:mpls-label-blocks>
               </k:config>
               <k:state>
                 <k:local-id>global</k:local-id>
                 <k:dataplane-type></k:dataplane-type>
```

```
                <k:mpls-label-blocks></k:mpls-label-blocks>
                <k:size></k:size>
                <k:used></k:used>
              </k:state>
            </k:srgb>
          </k:srgbs>
          <k:srlbs>
            <k:srlb>
            <k:local-id>global</k:local-id>
            <k:config>
              <k:local-id>global</k:local-id>
              <k:dataplane-type></k:dataplane-type>
              <k:mpls-label-block></k:mpls-label-block>
            </k:config>
            <k:state>
              <k:local-id>global</k:local-id>
              <k:dataplane-type></k:dataplane-type>
              <k:mpls-label-block></k:mpls-label-block>
            </k:state>
            </k:srlb>
          </k:srlbs>
        </k:segment-routing>
    </v:network-instance>
  </v:network-instances>
  </filter>
  </get>
  </rpc>
```

Contents

openconfig-segment-routing 1

openconfig-network-instance/network-instances/segment-routing/srgbs/srgb/config 1
openconfig-network-instance/network-instances/segment-routing/srlbs/srlb/config 1

openconfig-segment-routing

openconfig-network-instance/network-instances/segment-routing/srgbs/srgb/config

Message	Explanation
Only MPLS is supported by the dataplane-type column currently. dataplane-type属性列现在只支持MPLS。	Only MPLS is supported by the dataplane-type column currently. dataplane-type属性列现在只支持MPLS。
Only global is supported by the local-id column currently. local-id属性列现在只支持global。	Only global is supported by the local-id column currently. local-id属性列现在只支持global。
Label block not found, please configure label block first. 标签段未找到，请先配置标签段。	Label block not found, please configure label block first. 标签段未找到，请先配置标签段。
Label ranges conflict. Please reconfigure the label ranges. 标签范围冲突，请重配置。	Label ranges conflict. Please reconfigure the label ranges. 标签范围冲突，请重配置。
The setting takes effect after a device reboot. 当前配置需要重启才生效。	The setting takes effect after a device reboot. 当前配置需要重启才生效。

openconfig-network-instance/network-instances/segment-routing/srlbs/srlb/config

Message	Explanation
Only MPLS is supported by the dataplane-type column currently. dataplane-type属性列现在只支持MPLS。	Only MPLS is supported by the dataplane-type column currently. dataplane-type属性列现在只支持MPLS。
Only global is supported by the local-id column currently. local-id属性列现在只支持global。	Only global is supported by the local-id column currently. local-id属性列现在只支持global。
Label block not found, please configure label block first. 标签段未找到，请先配置标签段。	Label block not found, please configure label block first. 标签段未找到，请先配置标签段。
Label ranges conflict. Please reconfigure the label ranges. 标签范围冲突，请重配置。	Label ranges conflict. Please reconfigure the label ranges. 标签范围冲突，请重配置。
The setting takes effect after a device reboot. 当前配置需要重启才生效。	The setting takes effect after a device reboot. 当前配置需要重启才生效。

Contents

openconfig-spanning-tree 1

openconfig-spanning-tree/stp 1
XML structure 1
Table description 1
Columns 2
openconfig-spanning-tree/stp/global 2
XML structure 2
Table description 2
Columns 3
openconfig-spanning-tree/stp/global/config 3
XML structure 3
Table description 3
Columns 3
openconfig-spanning-tree/stp/mstp 3
XML structure 4
Table description 4
Columns 4
openconfig-spanning-tree/stp/mstp/config 4
XML structure 4
Table description 4
Columns 5
openconfig-spanning-tree/stp/mstp/mst-instances 5
XML structure 5
Table description 5
Columns 5
openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance 6
XML structure 6
Table description 6
Columns 6
openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config 7
XML structure 7
Table description 7
Columns 7
openconfig-spanning-tree/stp/interfaces 8
XML structure 8
Table description 8
Columns 8
openconfig-spanning-tree/stp/interfaces/interface 8
XML structure 9
Table description 9
Columns 9
openconfig-spanning-tree/stp/interfaces/interface/config 9
XML structure 9
Table description 9
Columns 10

openconfig-spanning-tree

openconfig-spanning-tree/stp

This table contains openconfig-spanning-tree/stp information.

XML structure

```
<stp>
  <global>
    <config>
      <bpdu-guard></bpdu-guard>
    </config>
  </global>
  <mstp>
    <config>
      <name></name>
      <revision></revision>
    </config>
    <mst-instances>
      <mst-instance>
        <mst-id></mst-id>
        <config>
          <mst-id></mst-id>
          <vlan></vlan>
         <bridge-priority></bridge-priority>
        </config>
      </mst-instance>
    </mst-instances>
  </mstp>
  <interfaces>
    <interface>
      <name></name>
      <config>
        <name></name>
        <edge-port></edge-port>
      </config>
    </interface>
  </interfaces>
</stp>
```

Table description

Item	Description
Feature name	openconfig-spanning-tree

Item	Description
Table name	stp
Table type	Single-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	Global STP information	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/global table.
mstp	MST information	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp table.
interfaces	Interface table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces table.

openconfig-spanning-tree/stp/global

This table contains openconfig-spanning-tree/stp/global information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	global
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Global STP configuration information	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/global/config table.

openconfig-spanning-tree/stp/global/config

This table contains openconfig-spanning-tree/stp/global/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
bpdu-guard	Global BPDU guard function	N/A	Boolean: • **true**—Enables BPDU guard. • **false**—Disables BPDU guard (default).	Global BPDU guard function

openconfig-spanning-tree/stp/mstp

This table contains openconfig-spanning-tree/stp/mstp information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mstp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration items of the mst table	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/config table.
Mst-instances	Portlayer information table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances table.

openconfig-spanning-tree/stp/mstp/config

This table contains openconfig-spanning-tree/stp/mstp/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	MST region name	N/A	String. Length: 1 to 32 characters. Default: Hex-string of the bridge MAC address.	Read-write. The value range is 1 to 4094.
revision	Revision level of the MST region	N/A	Unsigned integer. • Value range: 0 to 65535. • Default: 0.	When a new revision level is configured, the active region configuration will be changed.

openconfig-spanning-tree/stp/mstp/mst-instances

This table contains openconfig-spanning-tree/stp/mstp/mst-instances information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mst-instances
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mst-instance	mst-instance table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances/mst-instances table.

openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance

This table contains openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mst-instance
Table type	Multi-instance table
Row name	StiVlan
Restrictions	All rows should be wrapped within a whole configuration message, following the region table above.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mst-id	Spanning tree index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
config	Configuration items of the sti table	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config table.

openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config

This table contains openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mst-id	Spanning tree index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
vlan	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. • The string must not end with a comma or hyphen, or include any whitespace characters. • Default：All VLANs are allocated to spanning tree instance 0(CIST).	• Each VLAN can only be allocated to one MST instance. • Each item can be an individual VLAN ID or a VLAN ID range. A hyphen (-) indicates a VLAN range from the start VLAN ID to end VLAN ID. For example: 1, 2, 3, 5-8, and 10-20. • VLAN ID range: 1 to 4094.
bridge-priority	Bridge priority of the spanning tree	N/A	Unsigned integer. • Value range: 0 to 61440, in increments of 4096	Configuration is not allowed when the root type is configured as primary root or secondary root, except

Column name	Column description	Column type	Data type and restrictions	Remarks
			(as in 0, 4096, 8192). • Default: 32768.	for the following values combination: • Priority is 0 when the root type is primary. • Priority is 4096 when the root type is secondary.

openconfig-spanning-tree/stp/interfaces

This table contains openconfig-spanning-tree/stp/interfaces information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces/interface table.

openconfig-spanning-tree/stp/interfaces/interface

This table contains openconfig-spanning-tree/stp/interfaces/interface information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	interface
Table type	Multi-instance table
Row name	interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read-write.
config	Configuration items of an interface	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces/interface/config table

openconfig-spanning-tree/stp/interfaces/interface/config

This table contains openconfig-spanning-tree/stp/interfaces/interface/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree

Item	Description
Table name	config
Table type	Multi-instance table
Row name	interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read-write.
edge-port	Edge aggregate interface configuration	N/A	Boolean: • **true**—Configures the interface as an edge aggregate interface. It should not be configured when loop protection is enabled. • **false**—Configures the interface as a non-edge aggregate interface (default).	N/A

Contents

openconfig-srte-policy 2

te-policies/te-policy 2
XML structure 2
Table description 4
Columns 4
te-policies/te-policy/state 4
XML structure 4
Table description 4
Columns 5
te-policies/te-policy/state/counters 5
XML structure 5
Table description 5
Columns 6
te-policies/te-policy/candidate-paths/candidate-path 6
XML structure 6
Table description 7
Columns 7
te-policies/te-policy/candidate-paths/candidate-path/state 8
XML structure 8
Table description 8
Columns 8
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list 9
XML structure 9
Table description 9
Columns 10
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/state 10
XML structure 10
Table description 11
Columns 11
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid 12
XML structure 12
Table description 12
Columns 12
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid/state 13
XML structure 13
Table description 13
Columns 13
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop 14
XML structure 14
Table description 14
Columns 14
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state 15
XML structure 15
Table description 15
Columns 15
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state/counters 16
XML structure 16
Table description 16
Columns 17
te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/interface-ref/state 17
XML structure 17
Table description 17
Columns 18

openconfig-srte-policy

te-policies/te-policy

This table contains te-policy information.

The name space of openconfig-srte-policy is "http://openconfig.net/yang/segment-routing/srte-policy".

XML structure

```
<te-policies xmlns="http://openconfig.net/yang/segment-routing/srte-policy">
  <te-policy>
    <color></color>
    <endpoint></endpoint>
    <state>
      <color></color>
      <endpoint></endpoint>
      <name></name>
      <bsid></bsid>
      <active></active>
      <counters>
        <in-pkts></in-pkts>
        <in-octets></in-octets>
        <out-pkts></out-pkts>
        <out-octets></out-octets>
      </counters>
    </state>
    <candidate-paths>
      <candidate-path>
        <protocol-origin></protocol-origin>
        <originator-asn></originator-asn>
        <originator-addr></originator-addr>
        <discriminator></discriminator>
        <state>
          <name></name>
          <protocol-origin></protocol-origin>
          <originator-asn></originator-asn>
          <originator-addr></originator-addr>
          <discriminator></discriminator>
          <preference></preference>
          <valid></vilid>
          <active></active>
         <active-since></active-since>
        </state>
        <segment-lists>
```

```
          <segment-list>
            <id></id>
            <state>
              <id></id>
              <valid></valid>
              <invalid-reason></invalid-reason>
              <weight></weight>
              <counters>
                <out-pkts></out-pkts>
                <out-octets></out-octets>
              </counters>
            </state>
            <sids>
              <sid>
                <index></index>
                <state>
                  <index></index>
                  <value></value>
                </state>
              </sid>
            </sids>
            <next-hops>
              <next-hop>
                <index></index>
                <state>
                  <index></index>
                  <ip-address></ip-address>
                  <pushed-mpls-label-stack></pushed-mpls-label-stack>
                  <counters>
                    <out-pkts></out-pkts>
                    <out-octets></out-octets>
                  </counters>
                </state>
                <interface-ref>
                  <state>
                    <interface></interface>
                    <subinterface></subinterface>
                  </state>
                </interface-ref>
              </next-hop>
            </next-hops>
          </segment-list>
        </segment-lists>
      </candidate-path>
    </candidate-paths>
  </te-policy>
</te-policies>
```

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	te-policy
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A

te-policies/te-policy/state

This table contains te-policies/te-policy/state.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A
name	policy name	N/A	String.	N/A
bsid	Binding SID information	Data structure	Members include: • mpls-label. • ipv6-address.	N/A
active	SRv6 policy forwarding-state	N/A	Boolean: • **true.** • **false.**	N/A
counters	counters information	Data structure	Members include: • in-pkts • in-octets • out-pkts • out-octets	N/A

te-policies/te-policy/state/counters

This table contains te-policies/te-policy/state/counters.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy

Item	Description
Table name	counters
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
in-pkts	Number of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
in-octets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
out-pkts	Number of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
out-octets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

te-policies/te-policy/candidate-paths/candidate-path

This table contains te-policies/te-policy/candidate-paths/candidate-path.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	candidate-path
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CONFIG	N/A
Originator-asn	Originator-asn	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Originator-addr	Originator-addr	Index	IPv6: hexadecimal string, colon-separated.	N/A
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535 in some products.	N/A
state	state table	Sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/state
segment-list	Segment-list table	Sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segmen

				t-list.

te-policies/te-policy/candidate-paths/candidate-path/state

This table contains te-policies/te-policy/candidate-paths/candidate-path/state.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	The candidate path name.	N/A	string	N/A
protocol-origin	Protocol origin of the candidate path	N/A	Enumeration: • 10—PCEP • 20—BGP • 30—CONFIG	N/A
Originator-asn	Originator-asn	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Originator-addr	Originator-addr	N/A	IPv6: hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
discriminator	Discriminator of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535 in some products.	N/A
preference	Preference of multiple candidate paths	N/A	Unsigned integer	N/A
valid	valid	N/A	Boolean: • true. • false.	N/A
active	SRv6 policy forwarding-state	N/A	Boolean: • true. • false.	N/A
active-since	Policy up time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	segment-list
Table type	Multi-instance table

Item	Description
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Segment ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
state	state information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/state table.
sids	sids information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/sids table.
next-hops	state information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/next-hops table.

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/state

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/state information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Segment ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
valid	Validity of the segment	N/A	Boolean: • true—Valid. • false—Invalid.	N/A
invalid-reason	Invalid reason of the segment-list	N/A	Enumeration: • EMPTY_SL • FIRST_SID_UNRESOLVABLE	N/A
weight	Weight of the segment list for weighted load sharing	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
counters	counters information table	Data structure	Members include: • out-pkts. • out-octets.	N/A
out-pkts	Cumulative counter of the outgoing packets steered to the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
out-octets	Cumulative counter of the total outgoing bytes steered to the segment	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

	list			

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	sid
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Sid index	Index	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
state	state information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/si

				d table.

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid/state

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/sids/sid/state information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Index of the SID	Index	Uint64	N/A
value	The value of the SID	N/A	Members include: • mpls-label. • ipv6-address.	N/A

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	next-hop
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Destination prefix for the static route.	Index	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
state	state information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/state table.
Interface-ref	Interface information table	Sublist	N/A	For details of the sublist,

				refer to the interface-ref table.

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Destination prefix for the static route.	Index	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ip-address	The IP address of the next-hop system	N/A	Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A

pushed-mpls-label-stack	The MPLS label stack imposed when forwarding packets to the next-hop	N/A	Unsigned integer. Value range:16 to 1048575	N/A
counters	counters information table	sublist	N/A	For more information, see the te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state/counters table.

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state/counters

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/state/counters information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	counters
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
out-pkts	Cumulative counter of the outgoing packets steered to the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
out-octets	Cumulative counter of the total outgoing bytes steered to the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/interface-ref/state

This table contains te-policies/te-policy/candidate-paths/candidate-path/segment-lists/segment-list/next-hops/next-hop/interface-ref/state information.

XML structure

Please refer to the XML structure of openconfig-srte-policy.

Table description

Item	Description
Feature name	openconfig-srte-policy
Table name	state
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface name	N/A	String. Length: 1 to 31 characters.	N/A
subinterface	Subinterface number	N/A	Integer. Range: 1 to 4094.	N/A

Contents

static-route 2
static-routes/static 2
XML structure 2
Table description 2
Columns 3
static-routes/static/next-hops/next-hop 3
XML structure 3
Table description 3
Columns 4
static-routes/static/next-hops/next-hop/config 4
XML structure 4
Table description 4
Columns 5
static-routes/static/next-hops/next-hop/interface-ref/config 5
XML structure 5
Table description 5
Columns 6

static-route

static-routes/static

This table contains static route information.

XML structure

```
<static-routes xmlns="http://openconfig.net/yang/local-routing">
  <static>
    <prefix></prefix>
     <next-hops>
      <next-hop>
        <index></index>
        <config>
          <index></index>
          <next-hop></next-hop>
        </config>
        <interface-ref>
          <config>
            <interface></interface>
          </config>
        </interface-ref>
      </next-hop>
    </next-hops>
  </static>
</static-routes>
```

Table description

Item	Description
Feature name	static-route
Table name	static
Table type	Multi-instance table

Item	Description
Row name	static
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Destination prefix for the static route.	Index	String: Length: 1 to 46 characters	For example: 1.1.1.1/24
next-hops	Next hop information	Subtable	N/A	N/A

static-routes/static/next-hops/next-hop

This table contains next hop information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-route
Table name	next-hop
Table type	Multi-instance table
Row name	next-hop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	An user-specified identifier used to uniquely identify the next-hop entry in the next-hop list. The value of this index has no semantic meaning other than for identifying the entry.	Index	String: Length: 1 to 93 characters.	N/A
config	Configuration information	Subtable	N/A	N/A
interface-ref	Interface information	Subtable	N/A	N/A

static-routes/static/next-hops/next-hop/config

This table contains next hop configuration information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-route
Table name	config
Table type	Multi-instance table
Row name	config

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Destination prefix for the static route.	Index	String: Length: 1 to 93 characters.	N/A
next-hop	Next hop address	N/A	String: Length: 1 to 46 characters.	N/A

static-routes/static/next-hops/next-hop/interface-ref/config

This table contains next hop interface configuration information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-routes
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface name.	N/A	String: Length: 2 to 47 characters.	N/A

Contents

openconfig-system/system 1

system 1
XML structure 1
Table description 1
Columns 2
system/config 2
XML structure 2
Table description 2
Columns 2
system/clock 3
XML structure 3
Table description 3
Columns 3
system/clock/config 3
XML structure 3
Table description 3
Columns 4
system/logging 4
XML structure 4
Table description 4
Columns 4
system/logging/remote-servers 5
XML structure 5
Table description 5
Columns 5
system/logging/remote-servers/remote-server 5
XML structure 5
Table description 5
Columns 6
system/logging/remote-servers/remote-server/config 6
XML structure 6
Table description 6
Columns 7
system/logging/remote-servers/remote-server/selectors 7
XML structure 7
Table description 7
Columns 7
system/logging/remote-servers/remote-server/selectors/selector 8
XML structure 8
Table description 8
Columns 8
system/logging/remote-servers/remote-server/selectors/selector/config 9
XML structure 9
Table description 9
Columns 9

openconfig-system/system

system

This table contains system information.

XML structure

```
<system>
  <config>
    <hostname></hostname>
  </config>
  <clock>
    <config>
      <timezone-name></timezone-name>
    </config>
  </clock>
  <logging>
    <remote-servers>
      <remote-server>
        <host></host>
        <config>
          <host></host>
          <remote-port></remote-port>
        </config>
        <selectors>
          <selector>
            <facility></facility>
            <config>
              <facility></facility>
            </config>
          </selector>
        </selectors>
      </remote-server>
    </remote-servers>
  </logging>
</system>
```

Table description

Item	Description
Feature name	openconfig-system
Table name	system
Table type	Single-instance table
Row name	N/A

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Config information	Subtable	N/A	For more information, see the system/config table.
clock	Clock information	Subtable	N/A	For more information, see the system/clock table.
logging	Logging information	Subtable	N/A	For more information, see the system/logging table.

system/config

This table contains system config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
hostname	Device name	N/A	String. Length: 1 to 64 characters.	Read-write

system/clock

This table contains system clock information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	clock
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Clock config information	Subtable	N/A	For more information, see the system/clock/config table.

system/clock/config

This table contains system clock config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
timezone-name	Time zone name	N/A	String. Length: 1 to 32 characters.	Read-write

system/logging

This table contains system logging information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	logging
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
remote-servers	remote-servers information	Subtable	N/A	For more information, see the system/logging/remote-servers table.

system/logging/remote-servers

This table contains system logging remote-servers information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	remote-servers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
remote-server	remote-server information	Sublist	N/A	For more information, see the system/logging/remote-servers/remote-server table.

system/logging/remote-servers/remote-server

This table contains system logging remote-servers remote-server information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	remote-server
Table type	Multi-instance table

Row name	remote-server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
host	IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Read-write. IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
config	config information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/config table.
selectors	selectors information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors table.

system/logging/remote-servers/remote-server/config

This table contains system logging remote-servers remote-server config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
host	IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Refer to system/logging/remote-servers/host index
remote-port	Port number	N/A	Unsigned integer. Value range: 1 to 65535.	Read-write

system/logging/remote-servers/remote-server/selectors

This table contains system logging remote-servers remote-server selectors information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	selectors
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
selector	selector information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors/selector table.

system/logging/remote-servers/remote-server/selectors/selector

This table contains system logging remote-servers remote-server selectors selector information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	selector
Table type	Single-instance table
Row name	selector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
facility	Logging facility used by the log host	N/A	Enumeration: • **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	Read-write
config	config information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors/selector/config table.

system/logging/remote-servers/remote-server/selectors/selector/config

This table contains system logging remote-servers remote-server selectors selector config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
facility	Logging facility used by the log host	N/A	Enumeration: • **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	Read-write

Contents

openconfig-telemetry 2
telemetry-system 2
telemetry-system/sensor-groups 2
telemetry-system/destinations 2
telemetry-system /subscriptions 3

openconfig-telemetry

telemetry-system

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。
A subscription with the same name already exists in a different mode. 创建gnmi模式的订阅时，订阅名与已存在的非gNMI模式订阅同名	Create a new subscription. Alternatively, delete the existing subscription in the other mode and then create the subscription. 请使用尚未创建的订阅名，或先取消订阅名冲突的订阅，再创建该订阅。

telemetry-system/sensor-groups

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gPRC first. 需要先启动 gRPC 服务，再提供相关服务。
The path doesn't exist, or it is invalid. path不存在或者格式错误。	Invalid sampling path. path不存在或者格式错误。
Path %s is not supported. 不支持指定的path。	实际产品不支持指定的path
The sensor-group is subscribing, please undo subscription first. 当前sensor-group正在被订阅，请先去使能相关订阅。	A user failed to delete a sensor group, failed to assign a sensor path to a sensor group, or failed to remove a sensor path from a sensor group. 用户删除sensor group失败，或者在当前sensor group下配置或移除sensor path失败。
A sensor group with the same name already exists in a different mode. 当前sensor-group已经有其它模式。	Create a new sensor group. Alternatively, delete the existing sensor group in the other mode and then create the sensor group. 使用尚未创建的传感器组名，或先取消组名冲突的传感器组，再创建该传感器组。
The number of sensor groups or sensor paths has reached the upper limit. 传感器组或路径已经达到最大个数。	The maximum number of sensor groups or sensor paths has already been reached. 传感器组或者path已经达到最大个数再创建传感器组或path，则打印此信息。

telemetry-system/destinations

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。

Message	Explanation
The destination group has been used by subscriptions. Please remove the destination group from the subscriptions first. 当前destination group正在被订阅使用，请先从相关订阅下移除。	A user failed to delete a destination group, failed to assign a collector to a destination group, or failed to remove a collector from a destination group. 用户删除destination group失败，或者在当前destination group下配置或移除采集器失败。
The number of collectors in the current destination group has reached the upper limit. 当前目标组下目标已经达到最大个数。	The maximum number of collectors in the destination group has already been reached. 每个目标组下能配置的目标有个数限制。

telemetry-system /subscriptions

Message	Explanation
Please enable the gRPC service first. 请先启动gRPC服务。	Enable gRPC first. 需要先启动gRPC服务，再提供相关服务。
The sensor group doesn't exist. 指定的sensor group不存在。	A user specified a non-existent sensor group. 用户指定了一个不存在的sensor group。
The destination group doesn't exist. 指定的destination group不存在。	A user specified a non-existent destination group. 用户指定了一个不存在的destination group。
Can't specify both SampleInterval and SampleIntervalInMSec at the same time. 不能同时输入SampleInterval和SampleIntervalInMSec。	A user specified both SampleInterval and SampleIntervalInMSec at the same time. 用户同时执行了SampleInterval和SampleIntervalInMSec。
Can’t delete the SampleInterval column separately. You must delete the SensorProfile sublist as a whole. 无法单独删除SampleInterval列，只能删除SensorProfile整个表的配置。	A user specified the SampleInterval column in a delete or remove request. 用户在删除操作中指定了 SampleInterval 列。
Can’t delete the SampleIntervalInMSec column separately. You must delete the SensorProfile sublist as a whole. 无法单独删除SampleIntervalInMSec列，只能删除SensorProfile整个表的配置。	A user specified the SampleIntervalInMSec column in a delete or remove request. 用户在删除操作中指定了 SampleIntervalInMSec 列。
The destination group is being used by a subscription in a different mode. 当前目标组已经被与当前订阅模式不同的订阅绑定。	Specify a destination group that is not used by a subscription in a different mode. Alternatively, remove the destination group from all subscriptions and then specify the destination group for a subscription. 使用未被不同订阅模式的订阅绑定的目标组，或者先取消绑定该目标组的所有订阅，再绑定当前订阅。
You must specify a sensor group in non-gNMI mode. 非gNMI 模式订阅必须绑定非gNMI模式的传感器组	You must specify a sensor group in non-gNMI mode. 绑定非gNMI模式的传感器组
You must specify a sensor group in gNMI mode. gNMI 模式订阅必须绑定gNMI模式的传感器组	You must specify a sensor group in gNMI mode. 绑定gNMI模式的传感器组

Message	Explanation
The sampling interval cannot be set in the condition-triggered mode. 条件触发模式下不能配置采样时间。	You cannot set the sampling interval in the condition-triggered mode. 配置了条件触发模式，再配置采样时间时打印该信息。
The suppression time can be set only in the condition-triggered mode. 抑制时间只能在条件触发模式下配置。	You can set the suppression time only in the condition-triggered mode. 没有配置条件触发模式，配置抑制时间时打印该信息。
The sampling interval cannot be changed for a sensor group being used by a subscription. 当前sensor-group正在被订阅，不支持修改sample-interval。	You cannot change the sampling interval for a sensor group if the sensor group is being used by a subscription. 订阅组正在订阅，修改关联的传感器组的采样时间时打印该信息.
The suppression interval cannot be changed for a sensor group being used by a subscription. 当前sensor-group正在被订阅，不支持修改suppress-interval。	You cannot change the suppression interval for a sensor group if the sensor group is being used by a subscription. 订阅组正在订阅，修改关联的传感器组的抑制时间时打印该信息。参考采样时间。
The type of a subscription cannot be modified if sensor groups have been specified for the subscription. 订阅组关联传感器组后不能修改type。	You cannot change the type of a subscription if sensor groups have been specified for the subscription. 订阅组已经关联传感器组，再修改Type打印该错误信息。
The number of subscriptions has reached the upper limit. 订阅组已经达到最大个数。	The maximum number of subscriptions has already been reached. 订阅组有个数限制。
The number of sensor groups in the current subscription has reached the upper limit. 当前订阅组下的传感器组已经达到最大个数。	The maximum number of sensor groups in the subscription has already been reached. 订阅组能用的传感器组有个数限制。
"The number of destination groups in the current subscription has reached the upper limit."当前订阅组下的目标组已经达到最大个数。"	The maximum number of destination groups in the subscription has already been reached. 订阅组能用的目标组有个数限制。

Contents

openconfig-telemetry 1

telemetry-system 1
XML structure 1
Table description 3
Columns 3
telemetry-system/sensor-groups 3
XML structure 4
Table description 4
Columns 4
telemetry-system/sensor-groups/sensor-group 4
XML structure 4
Table description 4
Columns 4
telemetry-system/sensor-groups/sensor-group/config 5
XML structure 5
Table description 5
Columns 5
telemetry-system/sensor-groups/sensor-group/state 6
XML structure 6
Table description 6
Columns 6
telemetry-system/sensor-groups/sensor-group/ sensor-paths 6
XML structure 6
Table description 6
Columns 7
telemetry-system/sensor-groups/sensor-group/ sensor-paths/sensor-path 7
XML structure 7
Table description 7
Columns 7
telemetry-system/sensor-groups/sensor-group/ sensor-paths/sensor-path/config 8
XML structure 8
Table description 8
Columns 8
telemetry-system/sensor-groups/sensor-group/ sensor-paths/sensor-path/state 9
XML structure 9
Table description 9
Columns 9
telemetry-system/destination-groups 9
XML structure 9
Table description 10
Columns 10
telemetry-system/destination-groups/destination-group 10
XML structure 10
Table description 10
Columns 10
telemetry-system/destination-groups/destination-group/config 11
XML structure 11
Table description 11
Columns 11
telemetry-system/destination-groups/destination-group/state 12
XML structure 12
Table description 12
Columns 12
telemetry-system/destination-groups/destination-group/destinations 12
XML structure 12
Table description 12
Columns 13

telemetry-system/destination-groups/destination-group/destinations/destination 13
XML structure 13
Table description 13
Columns 13
telemetry-system/destination-groups/destination-group/destinations/destination/config 14
XML structure 14
Table description 14
Columns 14
telemetry-system/destination-groups/destination-group/destinations/destination/state 15
XML structure 15
Table description 15
Columns 15
telemetry-system/subscriptions 15
XML structure 15
Table description 15
Columns 16
telemetry-system/subscriptions/persistent-subscriptions 16
XML structure 16
Table description 16
Columns 16
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription 17
XML structure 17
Table description 17
Columns 17
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/config 18
XML structure 18
Table description 18
Columns 18
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/state 19
XML structure 19
Table description 19
Columns 20
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles 20
XML structure 21
Table description 21
Columns 21
sensor-profiles table 21
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile 21
XML structure 21
Table description 21
Columns 22
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile/config 22
XML structure 22
Table description 22
Columns 23
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile/state 23
XML structure 24
Table description 24
Columns 24
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups 25
XML structure 25
Table description 25
Columns 25
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group 26
XML structure 26
Table description 26
Columns 26

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/config 27
XML structure 27
Table description 27
Columns 27
telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/state 27
XML structure 27
Table description 27
Columns 28
telemetry-system/subscriptions/dynamic-subscriptions 28
XML structure 28
Table description 28
Columns 28
telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription 29
XML structure 29
Table description 29
Columns 29
telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/state 30
XML structure 30
Table description 30
Columns 30
telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths 31
XML structure 31
Table description 31
Columns 31
telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path 32
XML structure 32
Table description 32
Columns 32
telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path/state 33
XML structure 33
Table description 33
Columns 33

openconfig-telemetry

telemetry-system

XML structure

```
<telemetry-system>
  <sensor-groups>
    <sensor-group>
      <sensor-group-id/>
      <config>
        <sensor-group-id/>
      </config>
      <state>
        <sensor-group-id/>
      </state>
      <sensor-paths>
        <sensor-path>
          <path/>
          <config>
            <path/>
          </config>
          <state>
            <path/>
          </state>
        </sensor-path>
      </sensor-paths>
    </sensor-group>
  </sensor-groups>
  <destination-groups>
      <destination-group>
        <group-id/>
        <config>
          <group-id/>
        </config>
        <state>
          <group-id/>
        </state>
        <destinations>
          <destination>
            <destination-address/>
            <destination-port/>
            <config>
              <destination-address/>
              <destination-port/>
            </config>
```

```
        <state>
         <destination-address/>
         <destination-port/>
       </state>
     </destination>
    </destinations>
  </destination-group>
</destination-groups>
<subscriptions>
  <persistent-subscriptions>
   <persistent-subscription>
     <name/>
     <config>
       <name/>
       <local-source-address/>
       <originated-qos-marking/>
       <protocol/>
       <encoding/>
       <type/>
       <api-type/>
     </config>
     <state>
       <name/>
       <id/>
       <local-source-address/>
       <originated-qos-marking/>
       <protocol/>
       <encoding/>
       <type/>
       <api-type/>
     </state>
     <sensor-profiles>
       <sensor-profile>
         <sensor-group/>
         <config>
           <sensor-group/>
           <sample-interval/>
           <suppress-interval/>
         </config>
         <state>
           <sensor-group/>
           <sample-interval/>
           <suppress-interval/>
         </state>
       </sensor-profile>
     </sensor-profiles>
     <destination-groups>
       <destination-group>
```

```
          <group-id/>
          <config>
            <group-id/>
          </config>
          <state>
            <group-id/>
          </state>
        </destination-group>
      </destination-groups>
    </persistent-subscription>
  </persistent-subscriptions>
 </subscriptions>
</telemetry-system>
```

Table description

Item	Description
Feature name	openconfig-telemetry
Table name	telemetry-system
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-groups	sensor-groups table	Subtable	N/A	For more information, see the telemetry-system/ sensor-groups table.
destination-groups	destination-groups table	Subtable	N/A	For more information, see the telemetry-system/ destination-groups table.
subscriptions	Subscriptions	Subtable	N/A	For more information, see the telemetry-system/ subscriptions table.

telemetry-system/sensor-groups

This table contains telemetry-system sensor group information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-groups
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group	sensor-group table	sublist	N/A	For more information, see the telemetry-system/sensor-groups /sensor-group table.

telemetry-system/sensor-groups/sensor-group

This table contains telemetry-system sensor group information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-group
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group-id	Sensor group name	index	String. Length: 1 to 31 characters.	N/A
config	Sensor group config table	subtable	N/A	For more information, see the telemetry-system/sensor-groups/sensor-group/config table.
state	Sensor group state table	subtable	N/A	For more information, see the telemetry-system/sensor-groups/sensor-group/state table.
sensor-paths	Sensor path information	subtable	N/A	For more information, see the telemetry-system/sensor-groups/sensor-group/SensorPaths table.

telemetry-system/sensor-groups/sensor-group/config

This table contains telemetry-system sensor group config information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group-id	Sensor group name	Index	Index of the parent table.	N/A

telemetry-system/sensor-groups/sensor-group/state

This table contains telemetry-system sensor group state information.

XML structure

Please refer to the XML structure of telemetry-system/sensor-groups.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
sensor-group-id	Sensor group name	Index	Index of the parent table.	Read-only

telemetry-system/sensor-groups/sensor-group/sensor-paths

This table contains telemetry-system sensor path information.

XML structure

Please refer to the XML structure of telemetry-system/sensor-groups

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-paths

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-path	Sensor-Path table	sublist	N/A	For more information, see the telemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path table.

telemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path

This table contains telemetry-system destination group information.

XML structure

Please refer to the XML structure of telemetry-system/sensor-groups

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-path
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Sensor path config table	Subtable	N/A	For more information, see the elemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path/config table.
state	Sensor path state table	Subtable	N/A	For more information, see the elemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path/state table.

telemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path/config

This table contains telemetry-system sensor path information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	N/A
Exclude-filter	Filter to exclude certain values out of the state values	N/A	String. Case insensitive. Length: 1 to 255 characters.	Not support

telemetry-system/sensor-groups/sensor-group/sensor-paths/sensor-path/state

This table contains telemetry-system sensor path information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	Read-only
Exclude-filter	Filter to exclude certain values out of the state values	Column	String. Case insensitive. Length: 1 to 255 characters.	Not support

telemetry-system/destination-groups

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	Destinations
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
destination-group	List of destination-groups	sublist	N/A	For more information, see the telemetry-system/destination-groups/destination-group table.

telemetry-system/destination-groups/destination-group

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destination-group
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination	index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group name		Length: 1 to 31 characters.	
config	Destination group config	Subtable	N/A	For more information, see the telemetry-system/destination-groups/destination-group /config table.
state	Destination group state	Subtable	N/A	For more information, see the telemetry-system/destination-groups/destination-group /state table
destinations	Destination info	Subtable	N/A	For more information, see the telemetry-system/destination-groups/destination-group/Destinations table

telemetry-system/destination-groups/destination-group/config

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination group name	index	String. Length: 1 to 31 characters.	N/A

telemetry-system/destination-groups/destination-group/state

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination group name	index	String. Length: 1 to 31 characters.	N/A

telemetry-system/destination-groups/destination-group/destinations

This table contains telemetry-system destinations information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destinations
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
destination	destination table	Multi-instance table	N/A	For more information, see the destination table.

telemetry-system/destination-groups/destination-group/destinations/destination

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destination
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
destination-address	Address of the destination group	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
destination-port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A
config	Destination group config	Subtable	N/A	For more information, see the telemetry-system/destination-groups/destinatio

Column name	Column description	Column type	Data type and restrictions	Remarks
				n-group/destinations/destination /config table.
state	Destination group state	Subtable	N/A	For more information, see the telemetry-system/destination-groups/destination-group/destinations/destination /state table.

telemetry-system/destination-groups/destination-group/destinations/destination/config

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
destination-address	Address of the destination group	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
destination-port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A

telemetry-system/destination-groups/destination-group/destinations/destination/state

This table contains telemetry-system destination information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destination
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
destination-address	Address of the destination group	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
destination-port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A

telemetry-system/subscriptions

This table contains telemetry-system subscription information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system

Item	Description
Table name	subscriptions
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
persistent-subscriptions	persistent-subscriptions table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions table.

telemetry-system/subscriptions/persistent-subscriptions

This table contains telemetry-system persistent-subscriptions information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	subscriptions
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
persistent-subscription	Subscription name	Sublist	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-sub

Column name	Column description	Column type	Data type and restrictions	Remarks
				scription table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription

This table contains telemetry-system persistent-subscription information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	persistent-subscription
Table type	multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Subscription name	Index	String. Length: 1 to 31 characters.	N/A
config	persistent-subscription config table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/config table.
state	persistent-subscription state table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/state table.
sensor-profiles	Sensor profile information	Subtable	N/A	For more information, see the telemetry-system/subsc

Column name	Column description	Column type	Data type and restrictions	Remarks
				riptions/persistent-subscriptions/persistent-subscription/SensorProfiles table.
destination-groups	Destination profile information	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/DestinationProfiles table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/config

This table contains telemetry-system persistent-subscription config information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Subscription name	Index	Index of the parent table.	N/A
local-source-address	Source IP address for packets	N/A	IPv4: String, in dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Interface: String, interface type and number	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Interface example: LoopBack2 In the current software version, it must be a loopback interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
originated-qos-marking	DSCP marking of packets	N/A	INTEGER:0-63	N/A
protocol	Selection of the transport protocol for the telemetry stream	N/A	Identity: STREAM_SSH STREAM_GRPC STREAM_JSON_RPC STREAM_THRIFT_RPC STREAM_WEBSOCKET_RPC	Current only STREAM_GRPC are supported
encoding	Selection of the specific encoding or RPC framework for telemetry messages	N/A	Identity: ENC_XML ENC_JSON_IETF ENC_PROTO3 ENC_JSON	Current only ENC_JSON is supported
type	subscribtion type	N/A	Identity: PERIODIC Triggered	PERIODIC: periodic sampling, event report; Triggered: Trigger push
api-type	api type	N/A	Identity: GNMI	Using gNMI type

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/state

This table contains telemetry-system persistent-subscription state information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Subscription name	Index	Index of the parent table.	Read-only
id	System generated identifer of the telemetry subscription	N/A	uint64	Read-only
local-source-address	Source IP address for packets	N/A	IPv4: String, in dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Interface: String, interface type and number	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Interface example: LoopBack2 In the current software version, it must be a loopback interface.
originated-qos-marking	DSCP marking of packets	N/A	INTEGER:0-63	Read-only
protocol	Selection of the transport protocol for the telemetry stream	N/A	String. Can only be STREAM_SSH STREAM_GRPC STREAM_JSON_RPC STREAM_THRIFT_RPC STREAM_WEBSOCKET_RPC	Current only STREAM_GRPC are supported
encoding	Selection of the specific encoding or RPC framework for telemetry messages	N/A	String. Can only be ENC_XML ENC_JSON_IETF ENC_PROTO3 ENC_JSON	Current only ENC_JSON is supported
type	subscribtion type	N/A	String. Can only be PERIODIC Triggered	PERIODIC: periodic sampling, event report; Triggered: Triggered reporting
api-type	api type	N/A	String. Can only be GNMI or not assigned	Announced olny when using gNMI type

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles

This table contains telemetry-system sensor profile information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-profiles
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-profiles	sensor-profiles table	Sublist	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile

This table contains telemetry-system sensor profile information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	SensorProfile
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group	telemetry sensor group name	index	String. Length: 1 to 31 characters.	N/A
config	Sensor profile config table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile/config table.
state	Sensor profile state table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile /state table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile/config

This table contains telemetry-system sensor profile config information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group	The name of sensor group that used in the profile	index	String. Length: 1 to 31 characters.	N/A
sample-interval	Sampling interval in milliseconds	N/A	uint64. Value range: 100 to 86400000.	This column is intended for periodic sensor paths and only for periodic sensor paths. • If this column is present for event-triggered sensor paths, the sensor paths do not take effect. If this column is absent for periodic sensor paths, the device does not sample or push data.
suppress-interval	the time of accumulate information in seconds	N/A	units64. Value range: 1 to 300.	Defaulte suppress-interval is 60s.
Heartbeat-interval	Maximum time interval in seconds that may pass between updates from a device to a telemetry collector	N/A	units64.	Not support
Suppress-redundant	Boolean flag to control suppression of redundant telemetry updates to the collector platform	N/A	boolen	Not support

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/sensor-profiles/sensor-profile/state

This table contains telemetry-system sensor profile state information.

XML structure

Please refer to the XML structure of telemetry-system..

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sensor-group	The name of sensor group that used in the profile	index	String. Length: 1 to 31 characters.	N/A
sample-interval	Sampling interval in milliseconds	N/A	uint64. Value range: 100 to 86400000.	This column is intended for periodic sensor paths and only for periodic sensor paths. • If this column is present for event-triggered sensor paths, the sensor paths do not take effect. If this column is absent for periodic sensor paths, the device does not sample or push data.
suppress-interval	the time of accumulate information in seconds	N/A	units64. Value range: 1 to 300.	Defaulte suppress-interval is 60s.
Heartbeat-interval	Maximum time interval in seconds that may pass between updates from a device to a telemetry collector	N/A	units64.	Not support

Column name	Column description	Column type	Data type and restrictions	Remarks
Suppress-redundant	Boolean flag to control suppression of redundant telemetry updates to the collector platform	N/A	boolen	Not support

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups

This table contains telemetry-system destination-groups information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destination-groups
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
destination-group	destination-group table	Sublist	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group

This table contains telemetry-system destination-group information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	destination-group
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination group name	Index	String. Length: 1 to 31 characters.	N/A
config	Destination group config table	subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/config table.
state	Destination group state table	subtable	N/A	For more information, see the telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/state table.

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/config

This table contains telemetry-system destination-group config information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination group name	Index	String. Length: 1 to 31 characters.	N/A

telemetry-system/subscriptions/persistent-subscriptions/persistent-subscription/destination-groups/destination-group/state

This table contains telemetry-system destination-group state information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system

Item	Description
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
group-id	Destination group name	Index	String. Length: 1 to 31 characters.	Read-only

telemetry-system/subscriptions/dynamic-subscriptions

This table contains telemetry-system dynamic-subscriptions information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	dynamic-subscriptions
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dynamic-subscription	dynamic-subscription	Sublist	N/A	For more information, see the telemetry-system/subscriptions/dynamic-subscriptions/ dynamic-subscription table.

telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription

This table contains telemetry-system persistent-subscription information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	dynamic-subscription
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	System generated identifer of the telemetry subscription	index	uint64	Not support
state	dynamic-subscription state table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/state table.
sensor-paths	Sensor pathpathinformation	Subtable	N/A	For more information, see the telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/SensorProfiles table.

telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/state

This table contains telemetry-system dynamic-subscription state information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Subscription name	Index	Index of the parent table.	N/A
destination-address	Source IP address for packets	N/A	IPv4: String, in dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Interface: String, interface type and number	Not support
destination-port	DSCP marking of packets	N/A	INTEGER:0-63	Not support
sample-interval	Sampling interval in milliseconds	N/A	uint64. Value range: 100 to 86400000.	Not support
heartbeat-interval	Maximum time interval in seconds that may pass between updates from a device to a telemetry collector	N/A	units64.	Not support
suppress-redundant	Boolean flag to control suppression of	N/A	boolen	Not support

Column name	Column description	Column type	Data type and restrictions	Remarks
	redundant telemetry updates to the collector platform			
originated-qos-marking	DSCP marking of packets	N/A	INTEGER:0-63	Not support
protocol	Selection of the transport protocol for the telemetry stream	N/A	Identity: STREAM_SSH STREAM_GRPC STREAM_JSON_RPC STREAM_THRIFT_RPC STREAM_WEBSOCKET_RPC	Not support
encoding	Selection of the specific encoding or RPC framework for telemetry messages	N/A	Identity: ENC_XML ENC_JSON_IETF ENC_PROTO3 ENC_JSON	Not support

telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths

This table contains telemetry-system sensor-paths information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-paths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Sensor-path	Sensor-path	Sublist	N/A	For more information, see the telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path table.

telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path

This table contains telemetry-system persistent-subscription information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	sensor-path
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	Not support
state	Sensor-path state table	Subtable	N/A	For more information, see the telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path/state table.

telemetry-system/subscriptions/dynamic-subscriptions/dynamic-subscription/sensor-paths/sensor-path/state

This table contains telemetry-system persistent-subscription information.

XML structure

Please refer to the XML structure of telemetry-system.

Table description

Item	Description
Feature name	telemetry-system
Table name	state
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Path of the node to be monitored	Index	String. Case insensitive. Length: 1 to 255 characters.	Not support
Exclude-filter	Filter to exclude certain values out of the state values	N/A	String. Case insensitive. Length: 1 to 255 characters.	Not support

Contents

openconfig-terminal-device 1
terminal-device 1
XML structure 1
</terminal-device>Table description 2
Columns 2
Terminal-device/logical-channels 2
Table description 2
Columns 3
Terminal-device/logical-channels/channel 3
Table description 3
Columns 3
Terminal-device/logical-channels/channel/config 4
Table description 4
Columns 4
Terminal-device/logical-channels/channel/state 4
Table description 4
Columns 5
Terminal-device/logical-channels/channel/ethernet 7
Table description 7
Columns 8
Terminal-device/logical-channels/channel/ethernet/state 8
Table description 8
Columns 8
Terminal-device/logical-channels/channel/ethernet/state/pre-fec-ber 9
Table description 9
Columns 9
Terminal-device/logical-channels/channel/ingress 10
Table description 10
Columns 10
Terminal-device/logical-channels/channel/ingress/state 10
Table description 10
Columns 11
Terminal-device/logical-channels/channel/logical-channel-assignments 11
Table description 11
Columns 11
Terminal-device/logical-channels/channel/logical-channel-assignments/assignment 12
Table description 12
Columns 12
Terminal-device/logical-channels/channel/logical-channel-assignments/assignment/state 12
Table description 12
Columns 13

openconfig-terminal-device

terminal-device

This module describes a terminal optics device model for managing the terminal systems (client and line side) in a DWDM transport network.

XML structure

```
<terminal-device>
  <logical-channels>
    <channel>
      <index></index>
      <config>
        <index></index>
        <description></description>
      </config>
      <state>
        <index></index>
        <description></description>
        <rate-class></rate-class>
        <trib-protocol></trib-protocol>
        <logical-channel-type></logical-channel-type>
        <client-mapping-mode></client-mapping-mode>
      </state>
      <ethernet>
        <state>
          <pre-fec-ber>
            <instant></instant>
            <avg></avg>
            <min></min>
            <max></max>
            <interval></interval>
          </pre-fec-ber>
          <fec-uncorrectable-blocks></fec-uncorrectable-blocks>
        </state>
      </ethernet>
      <ingress>
        <state>
          <interface></interface>
        </state>
      </ingress>
      <logical-channel-assignments>
        <assignment>
          <index></index>
          <state>
```

```
          <index></index>
          <assignment-type></assignment-type>
          <optical-channel></optical-channel>
        </state>
      </assignment>
    </logical-channel-assignments>
  </channel>
</logical-channels>
```

</terminal-device>Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Terminal-device
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
logical-channels	logical-channels table	Subtable	N/A	For more information, see the terminal-device/logical-channels table.

Terminal-device/logical-channels

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Logical-channels
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
channel	Channel information of the logical-channel	Sublist	N/A	For more information, see the terminal-device/logical-channels/channel table.

Terminal-device/logical-channels/channel

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Channel
Table type	Multi-instance table
Row name	channel
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Reference to the index of the logical channel.	Index	Unsigned integer.	
config	Configuration data for logical channels	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/config table.
state	Status information for logical channels	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/state table.
ethernet	Ethernet information for logical channels	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/ethernet table.
ingress	Ingress information for logical channels	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/ingress

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.
logical-channel-assignments	logical-channel-assignments information for logical channels	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/logical-channel-assignments table.

Terminal-device/logical-channels/channel/config

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Reference to the index of the logical channel.	Index	Unsigned integer.	
description	Description of the logical channel	N/A	String	

Terminal-device/logical-channels/channel/state

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	State
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Reference to the index of the logical channel.	Index	Unsigned integer.	Read-only.
description	Description of the logical channel	N/A	String	Read-only.
rate-class	Rounded bit rate of the tributary signal.	N/A	Enumeration: • **TRIB_RATE_1G** • **TRIB_RATE_2.5G** • **TRIB_RATE_10G** • **TRIB_RATE_40G** • **TRIB_RATE_100G** • **TRIB_RATE_150G** • **TRIB_RATE_200G** • **TRIB_RATE_250G** • **TRIB_RATE_300G** • **TRIB_RATE_350G** • **TRIB_RATE_400G** • **TRIB_RATE_450G** • **TRIB_RATE_500G** • **TRIB_RATE_550G** • **TRIB_RATE_600G** • **TRIB_RATE_650G** • **TRIB_RATE_700G** • **TRIB_RATE_750G** • **TRIB_RATE_800G**	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **TRIB_RATE_850G** • **TRIB_RATE_900G** • **TRIB_RATE_950G** • **TRIB_RATE_1000G** • **TRIB_RATE_1050G** • **TRIB_RATE_1100G** • **TRIB_RATE_1150G** • **TRIB_RATE_1200G** • **TRIB_RATE_1250G** • **TRIB_RATE_1300G** • **TRIB_RATE_1350G** • **TRIB_RATE_1400G** • **TRIB_RATE_1450G** • **TRIB_RATE_1500G** • **TRIB_RATE_1550G** • **TRIB_RATE_1600G**	
trib-protocol	Protocol framing of the tributary signal.	N/A	Enumeration: • **PROT_1GE** • **PROT_OC48** • **PROT_STM16** • **PROT_10GE_LAN** • **PROT_10GE_WAN** • **PROT_OC192** • **PROT_STM64** • **PROT_OTU2** • **PROT_OTU2E** • **PROT_OTU1E** • **PROT_ODU2** • **PROT_ODU2E** • **PROT_40GE** • **PROT_OC768** • **PROT_STM256** • **PROT_OTU3** • **PROT_ODU3**	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **PROT_100GE** • **PROT_100G_MLG** • **PROT_OTU4** • **PROT_OTUCN** • **PROT_ODUCN** • **PROT_ODU4** • **PROT_400GE** • **PROT_OTSIG** • **PROT_ODUFLEX_CBR** • **PROT_ODUFLEX_GFP**	
logical-channel-type	The type / stage of the logical element determines the configuration and operational state parameters (PMs) available for the logical element.	N/A	Enumeration: • **PROT_ETHERNET** • **PROT_OTN**	Read-only.
client-mapping-mode	The client side mapping mode internal to the device that specifies the number of client electrical interfaces and the data rate of each client electrical interface.	N/A	Enumeration: • **MODE_1X100G** • **MODE_1X200G** • **MODE_1X400G** • **MODE_2X100G** • **MODE_2X200G** • **MODE_3X100G** • **MODE_4X100G**	Read-only.

Terminal-device/logical-channels/channel/ethernet

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Ethernet

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Bit error rate before forward error correction – computed value with 18 decimal precision.	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/ethernet/state table

Terminal-device/logical-channels/channel/ethernet/state

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	State
Table type	Single-instance table
Row name	channel
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
pre-fec-ber	Bit error rate before forward error correction -- computed value with 18 decimal precision.	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/ethernet/state/pre-fec-ber table.
fec-uncorrectable-blocks	The number of blocks or frames	N/A	Unsigned integer.	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
	that were uncorrectable by the FEC			

Terminal-device/logical-channels/channel/ethernet/state/pre-fec-ber

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Pre-fec-ber
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
instant	Current pre-fec-ber about a logical channel.	N/A	Double. units bit-errors-per-second	Read-only.
avg	Avg pre-fec-ber about a logical channel.	N/A	Double. units bit-errors-per-second	Read-only.
min	Min pre-fec-ber about a logical channel.	N/A	Double. units bit-errors-per-second	Read-only.
max	Max pre-fec-ber about a logical channel.	N/A	Double. units bit-errors-per-second	Read-only.
interval	Optical module historical performance data collection cycle,units is	N/A	Unsigned integer	Read-only.

Column name	Column description	Column type	Data type and restrictions	Remarks
	nanoseconds			

Terminal-device/logical-channels/channel/ingress

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Ingress
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
state	Operational state data for the signal source for the logical channel.	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/ingress/state table.

Terminal-device/logical-channels/channel/ingress/state

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	State
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Reference to the interface carrying the input signal for the logical channel.	N/A	String.	Read-only

Terminal-device/logical-channels/channel/logical-channel-assignments

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Logical-channel-assignments
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
assignment	Logical channel elements may be assigned directly to optical channels for line-side transmission, or can be further groomed into additional stages of logical channel elements.	Sublist	N/A	For more information, see the terminal-device/logical-channels/channel/logical-channel-assignments/assignment table.

Terminal-device/logical-channels/channel/logical-channel-assignments/assignment

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	Assignment
Table type	Multi-instance table
Row name	assignment
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Reference to the index for the current tributary assignment	Index	Unsigned integer.	Read-only.
state	Operational state data for tributary assignments	Subtable	N/A	For more information, see the terminal-device/logical-channels/channel/logical-channel-assignments/assignment/state table.

Terminal-device/logical-channels/channel/logical-channel-assignments/assignment/state

See the XML structure for the terminal-device table.

Table description

Item	Description
Feature name	Openconfig-terminal-device
Table name	State
Table type	Single-instance table
Row name	assignment
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Reference to the index for the current tributary assignment	Index	Unsigned integer.	Read-only.
assignment-type	Each logical channel element may be assigned to subsequent stages of logical elements to implement further grooming, or can be assigned to a line-side optical channel for transmission.	N/A	Enumeration: • **LOGICAL_CHANNEL** • **OPTICAL_CHANNEL**	Read-only.
optical-channel	Reference to the line-side optical channel that should carry the current logical channel element.	N/A	String.	Read-only.

Contents

openconfig-vlan 2
vlans 2
XML structure 2
Table description 2
Columns 2
vlans/vlan 2
XML structure 3
Table description 3
Columns 3
vlans/vlan/config 3
XML structure 3
Table description 3
Columns 4
switched-vlan 4
XML structure 4
Table description 4
Columns 5
switched-vlan/config 5
XML structure 5
Table description 5
Columns 5
switched-vlan/state 6
XML structure 6
Table description 6
Columns 7

openconfig-vlan

vlans

This table contains basic VLAN information.

XML structure

```
<vlans>
  <vlan>
    <vlan-id></vlan-id>
    <config>
      <vlan-id></vlan-id>
      <name></name>
      <tpid></tpid>
    </config>
  </vlan>
</vlans>
```

Table description

Item	Description
Feature name	openconfig-vlan
Table name	vlans
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vlan	Vlan information	Sublist	N/A	For more information, see the vlans/vlan table.

vlans/vlan

This table contains basic VLAN configuration information.

XML structure

Please refer to the XML structure of vlans.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	vlan
Table type	Multi-instance table
Row name	vlan
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vlan-id	Vlan id	Index	Unsigned integer. Value range: 1 to 4094.	Read-write
config	Vlan config information	Subtable	N/A	For more information, see the vlans/config table.

vlans/vlan/config

This table contains basic VLAN configuration information.

XML structure

Please refer to the XML structure of vlans.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vlan-id	Vlan id	Index	Unsigned integer. Value range: 1 to 4094.	Refer to vlans vlan-id.
name	Vlan name	N/A	String. Length: 1 to 32 characters. Default: **vlan** *vlan-id*. The *vlan id* argument uses the four-digit form. If the VLAN ID has less than four digits, leading zeros are added.	Read-write. Example: VLAN 0001.
tpid	Tag protocol identifier field	N/A	Unsigned integer. Value range: 1 to 65535.	Read-write. Default TPID_0x8100

switched-vlan

This table contains basic switched-vlan information.

XML structure

```
<openconfig-vlan>
  <switched-vlan>
    <config>
      <interface-mode></interface-mode>
      <native-vlan></native-vlan>
      <access-vlan></access-vlan>
      <trunk-vlans></trunk-vlans>
    </config>
    <state>
      <interface-mode></interface-mode>
      <native-vlan></native-vlan>
      <access-vlan></access-vlan>
      <trunk-vlans></trunk-vlans>
    </state>
  </switched-vlan>
</openconfig-vlan>
```

Table description

Item	Description
Feature name	openconfig-vlan

Item	Description
Table name	switched-vlan
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Switched-vlan configuration information	Subtable	N/A	For more information, see the switched-vlan/config table.

switched-vlan/config

This table contains basic switched-vlan configuration information.

XML structure

Please refer to the XML structure of switched-vlan.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-mode	Set the interface mode to access or trunk for	N/A	Enumeration: • **TRUNK.** • **ACCESS.**	Read-write.

Column name	Column description	Column type	Data type and restrictions	Remarks
	VLANs.			
native-vlan	Set the port VLAN ID (PVID) for untagged frames arriving on a trunk interface.	N/A	Value range: 1 to 4094.	Read-write. You can configure this columns when the interface-mode is set to TRUNK.
access-vlan	Port VLAN ID	N/A	Value range: 1 to 4094.	Read-write. You can config this columns when interface-mode is set to "ACCESS"
trunk-vlans	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Read-write. You can config this columns when interface-mode is set to "TRUNK". Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<PermitVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

switched-vlan/state

This table contains basic switched-vlan state information.

XML structure

Please refer to the XML structure of switched-vlan.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface-mode	Set the interface mode to access or trunk for VLANs.	N/A	Enumeration: • **TRUNK.** • **ACCESS.**	Read-only.
native-vlan	Set the port VLAN ID (PVID) for untagged frames arriving on a trunk interface.	N/A	Value range: 1 to 4094.	Read-only. You can configure this columns when the interface-mode is set to TRUNK.
access-vlan	Port VLAN ID	N/A	Value range: 1 to 4094.	Read-only. You can config this columns when interface-mode is set to ACCESS
trunk-vlans	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Read-only. You can config this columns when interface-mode is set to TRUNK. Example: 1,2,3,5-8,10-20. The item permits incremental editing. You can sign the flag like “<PermitVlanList base:incremental="true">”. If the value is true, the VLAN list will be added or removed. Otherwise, it is the final result.

Contents

OFC 1
OFC/GlobalConfigurations 1
XML structure 1
Table description 1
Columns 1

OFC

OFC/GlobalConfigurations

This table contains information about global OpenFlow controller configurations.

XML structure

```
<OFC>
  <GlobalConfigurations>
    <EchoInterval></EchoInterval>
    <BFDEnable></BFDEnable>
    <CtrlAclIpv4></CtrlAclIpv4>
    <CtrlAclIpv6></CtrlAclIpv6>
  </GlobalConfigurations>
</OFC>
```

Table description

Item	Description
Feature name	OFC
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EchoInterval	Interval at which the controller sends echo packets to switches	N/A	Unsigned integer. Value range: 1-60, in seconds. Default: 10 seconds.
BFDEnable	Whether enable the BFD function on the OpenFlow controller	N/A	Boolean: • true • false(Default)
CtrlAclIpv4	Specify an IPv4 ACL used to control the Openflow clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
CtrlAclIpv6	Specify an IPv6 ACL used to control the Openflow clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.

Contents

OFC 1
OFC/Channel 1
XML structure 1
Table description 1
Columns 1
OFC/GlobalConfigurations 2
XML structure 2
Table description 2
Columns 2

OFC

OFC/Channel

This table contains information about OpenFlow controller Channel.

XML structure

```
<OFC>
  <Channels>
    <Channel>
      <DatapathID></DatapathID>
      <ChannelID></ChannelID>
      <SwitchIPv4Address></SwitchIPv4Address>
      <SwitchIPv6Address></SwitchIPv6Address>
    </Channel>
  </Channels>
</OFC>
```

Table description

Item	Description
Feature name	OFC
Table name	Channels
Table type	Multi-instance table
Row name	Channel
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
DatapathID	DatapathID of instance	Index	Unsigned integer64. • Value range: 1 to 2^{64}-1.
ChannelID	Channel‘s ID	Index	Unsigned integer. • Value range: 0-255.
SwitchIPv4Address	Switch‘s IPv4 address	N/A	String, dotted decimal notation.
SwitchIPv6Address	Switch’s IPv6 address	N/A	String, semicolon hex notation.

OFC/GlobalConfigurations

This table contains information about global OpenFlow controller configurations.

XML structure

```
<OFC>
  <GlobalConfigurations>
    <EchoInterval></EchoInterval>
    <BFDEnable></BFDEnable>
    <CtrlAclIpv4></CtrlAclIpv4>
    <CtrlAclIpv6></CtrlAclIpv6>
  </GlobalConfigurations>
</OFC>
```

Table description

Item	Description
Feature name	OFC
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	N/A
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
EchoInterval	Interval at which the controller sends echo packets to switches	N/A	Unsigned integer. Value range: 1-60, in seconds.
BFDEnable	Whether enable the BFD function on the OpenFlow controller	N/A	Boolean: • true • false
CtrlAclIpv4	Specify an IPv4 ACL used to control the Openflow clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
CtrlAclIpv6	Specify an IPv6 ACL used to control the Openflow clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.

Contents

OFC 1
OFC/Channel 1
OFC/GlobalConfigurations 1

OFC

OFC/Channel

Message	Explanation
NULL	NULL

OFC/GlobalConfigurations

Message	Explanation
BFD is not supported. 不支持BFD功能。	Cannot enable the BFD function because the device does not support BFD. 无法配置BFD功能，因为当前设备不支持BFD。
Failed to specify ACL. 配置ACL失败.	If the ACL configuration can’t be processed by the daemon of Ofp, the specified ACL configuration will fail.

Revision Record

Date	Revision Version	Change Description	Author
2015-04-27	V1.00	Initial	Liuzhongxin

Contents

OFP 1
OFP/RefreshIpFlow 1
XML structure 1
Table description 1
Columns 1
OFP/Packet 1
XML structure 1
Table description 2
Columns 2

OFP

OFP/RefreshIpFlow

This table is used to refresh ip flow table of an OFP instance.

XML structure

```
<OFP>
  <RefreshIpFlow>
    <Application>
      <InstanceID></InstanceID>
      <Refresh></Refresh>
    </Application>
  </RefreshIpFlow>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	RefreshIpFlow
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 4094.	You must specify this column.
Refresh	Refresh IP flow table	N/A	This column must be empty	Required.

OFP/Packet

This table is used to send packet-out messages.

XML structure

```
<OFP>
  <Packet>
```

```
    <Application>
      <InstanceID></InstanceID>
      <Value></Value>
      <OffsetType></OffsetType>
      <OffsetLen></OffsetLen>
      <OffsetValue></OffsetValue>
      <EnableLocalFlow></EnableLocalFlow>
      <Packetout></Packetout>
    </Application>
  </Packet>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	Packet
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 4094.	You must specify this column.
Value	Values that need to be matched	N/A	Unsigned integer. Value range: 1 to 8388606.	Required. Only supports OffsetType 1,OffsetLen 29,match value 3 bytes.
OffsetType	The type of offset match	N/A	Unsigned integer. Value range: 0 to 2. • **0**—The offset match is calculated from the Ethernet header. • **1**—The offset match is calculated from the IP header. • **2**—The offset match is calculated from the TCP/UDP header.	Required. Only support type 2.
OffsetLen	Offset length	N/A	Unsigned integer.	Required. Only support 25 and 75.
OffsetValue	Offset value	N/A	Base64 binary. Value range: 1 to 32.	Required. Only support 4 bytes.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableLocalFlow	Enable local table entry	N/A	Boolean: • **true**—Yes. • **false**—No (default).	Required.
Packetout	Packet-out message	N/A	Base64 binary. Value range: 1 to 255.	Requires an existing instance and existing local tale entries.

Contents

OFP 1
OFP/LogicalSwitches 1
XML structure 1
Table description 2
Columns 2
OFP/Controller 5
XML structure 5
Table description 6
Columns 6
OFP/GlobalConfigurations 7
XML structure 7
Table description 7
Columns 8

OFP

OFP/LogicalSwitches

This table contains information about OpenFlow instance.

XML structure

```
<OFP>
  <LogicalSwitches>
    <LogicalSwitch>
      <InstanceID></InstanceID>
      <Description></Description>
      <DatapathID></DatapathID>
      <Enable></Enable>
      <Capabilities>
        <MaxEntries></MaxEntries>
        <DynamicMacAware></DynamicMacAware>
        <MacLearning></MacLearning>
        <TableMissDefaultPermit></TableMissDefaultPermit>
        <ForbiddenPort></ForbiddenPort>
        <PermitPort></PermitPort>
        <DynamicArpPre></DynamicArpPre>
        <TcpNsr></TcpNsr>
        <DataPlane></DataPlane>
      </Capabilities>
      <Resources>
        <ClassificationType></ClassificationType>
        <ClassificationVLAN></ClassificationVLAN>
        <ClassificationVLANMask></ClassificationVLANMask>
        <ClassificationVLANLoosen></ClassificationVLANLoosen>
        <InbandManagementVLANList></InbandManagementVLANList>
        <MACIPTableIDList></MACIPTableIDList>
        <MPLSTableIDList></MPLSTableIDList>
        <ExtensibilityFlowTableIDList></ExtensibilityFlowTableIDList>
      </Resources>
      <ConnectionCfg>
        <ConnectionMode></ConnectionMode>
        <ConnectionInterval></ConnectionInterval>
        <EchoInterval></EchoInterval>
        <LostConnectionBehavior></LostConnectionBehavior>
        <TcpDscp></TcpDscp>
        <ForbiddenPktInArpCtrl></ForbiddenPktInArpCtrl>
      </ConnectionCfg>
    </LogicalSwitch>
  </LogicalSwitches>
```

```
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	LogicalSwitches
Table type	Multi-instance table
Row name	LogicalSwitch
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • **Value range: 1-4094**.
Description	Description of instance	N/A	String. • Length: 1 to 255 characters. Default is empty.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. • Value range: 1 to 2^{64}-1. Default: Instance ID for high 16 bits, Bridge MAC for low 48 bits.
Enable	Enable status of instance	N/A	Boolean: • **true**—Yes. • **false**—No(Default).
Capabilities	Capabilities of instance	Data structure	Members include: • MaxEntries. • DynamicMacAware. • MacLearning. • TableMissDefaultPermit. • ForbiddenPort. • PermitPort. • DynamicArpPre. • TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. • **Value range: Depends on device type.** Default value depends on device type.
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: • **true**—Yes. • **false**—No(Default).

Column name	Column description	Column type	Data type and restrictions
MacLearning	Enable mac learning in instance	N/A	Boolean: • **true**—Yes(Default). • **false**—No.
TableMissDefaultPermit	Assign “Permit” as the default table miss action of instance	N/A	Boolean: • **true**—Yes. • **false**—No(Default).
ForbiddenPort	Port type to be forbidden reporting port status to controller	N/A	Unsigned integer. 1st bit for VLAN interface. 2nd bit for VSI interface. 3rd bit for ROUTE interface. Default is 0.
PermitPort	Permit reporting ports of specific type	N/A	Unsigned integer. 1st bit for LAGG interface. Default is 0.
DynamicArpPre	Dynamic ARP will replace the conflicting openflow ARP	N/A	Boolean: • **true—**Yes**.** • **false—**No**(**Default**).**
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: • **true—**Yes**(**Default**).** • **false—**No**.**
Resources	Resources of instance	Data structure	Members include: • ClassificationType. • ClassificationVLAN. • ClassificationVLANMask. • ClassificationVLANLoosen. • InbandManagementVLANList. • MACIPTableIDList. • MPLSTableIDList. • ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: • **1**—VLANMask. • **2**—Global. • **3**—Port. • **6**—CUPS Default is not configured.
ClassificationVLAN	VLAN value when the type of classification is VLANMask	N/A	Unsigned integer. • Value **range: 1-4094**. Default is not configured. Classification VLAN can be configured only when the value of classification type is VLANMASK.

Column name	Column description	Column type	Data type and restrictions
ClassificationVLANMask	VLAN mask value when the type of classification is VLANMask	N/A	Unsigned integer. • Value **range: 0-4095**. Default is not configured. Classification VLAN mask can be configured only when the value of classification type is VLANMASK.
ClassificationVLANLoosen	Loosen mode when the type of classification is VLANMask	N/A	Boolean: • **true**—Yes. • **false**—No(Default).
InbandManagementVLANList	In band management VLAN list of the instance	N/A	Number string. It is a comma-separated list of VLAN items. • The string must not end with a comma or hyphen, or include any whitespace characters. Default is not configured.
MACIPTableIDList	MAC-IP table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. • The string must not end with a comma or hyphen, or include any whitespace characters. Default is not configured.
MPLSTableIDList	MPLS table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters. Default is not configured.
ExtensibilityFlowTableIDList	Extensibility table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. • The string must not end with a comma or hyphen, or include any whitespace characters. Default is 0.
ConnectionCfg	Configuration of connection in instance	Data structure	Members include: • ConnectionMode. • ConnectionInterval. • EchoInterval. • LostConnectionBehavior. • TcpDscp. • ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: • **0**—Parallel(Default). • **1**—Serially.

Column name	Column description	Column type	Data type and restrictions
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. • Value **range: 1-120**. Default value depends on the type of openflow instance. When the type is CUPS instance, the default value is 1. When the other types of openflow instance, the default value is 60.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. • Value **range: 1-10**. Default is 5.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: • **1**—Standalone. • **2**—Secure. • **4—Smart** **Default is secure mode**.
TcpDscp	Set the DSCP value for OpenFlow messages in an OpenFlow instance	N/A	Unsigned integer. • Value range: 0-63. Default is 64.
ForbiddenPktInArpCtrl	Specify controllers to which ARP packets are forbidden to be sent	N/A	Unsigned integer64. 1st bit for controller 0. 2nd bit for controller 1. 3rd bit for controller 2. …… 63rd bit for controller 62. 64th bit for controller 63. Default is 0.
DataPlane	Enable the data forwarding plane feature in an instance	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

OFP/Controller

This table contains information about OpenFlow controllers.

XML structure

```
<OFP>
  <Controllers>
    <Controller>
      <InstanceID></InstanceID>
      <ControllerID></ControllerID>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
```

```
      <Port></Port>
      <LocalIPv4Address></LocalIPv4Address>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
      <Protocol></Protocol>
      <VRF></VRF>
      <SSLPolicy></SSLPolicy>
      <BFDEnable></BFDEnable>
      <AccessCtrlPolicy></AccessCtrlPolicy>
    </Controller>
  </Controllers>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	Row creation is allowed only when the instance exists.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • **Value range: 1-4094**.
ControllerID	Controller ID	Index	Unsigned integer. **Value range: 0-63**.
IPv4Address	Controller‘s IPv4 address	N/A	String, dotted decimal notation. Default is not configured.
IPv6Address	Controller’s IPv6 address	N/A	String, semicolon hex notation. Default is not configured.
Port	Controller’s port	N/A	Unsigned integer. • Value **range: 1-65535**. Default is 6633.
LocalIPv4Address	Local IPv4 address for connection with controller	N/A	String, dotted decimal notation. Default is not configured.
LocalIPv6Address	Local IPv6 address for connection with controller	N/A	String, semicolon hex notation. Default is not configured.

Column name	Column description	Column type	Data type and restrictions
LocalPort	Local port for connection with controller	N/A	Unsigned integer. • Value **range: 1-65535**. Default is not configured.
Protocol	Protocol used for connection with controller	N/A	Enumeration: • **1**—TCP(Default). • **2**—SSL
VRF	VRF name for VPN connection with controller	N/A	String. Length: 1 to 31 characters. Default is not configured.
SSLPolicy	SSL policy name for SSL connection with controller	N/A	String, case insensitive. Length: 1 to 31 characters. Default is not configured. SSL policy can be configured only when the value of protocol is SSL.
BFDEnable	Whether to enable the BFD function for the connection to the OpenFlow controller	N/A	Boolean: • true • false(Default)
AccessCtrlPolicy	Access control SSL policy name for SSL connection with controller.	N/A	String, case insensitive. Length: 1 to 31 characters. Default is not configured. Access SSL policy can be configured only with SSL policy.

OFP/GlobalConfigurations

This table contains information about OpenFlow global configurations.

XML structure

```
<OFP>
  <GlobalConfigurations>
    <NormalForwardVLANList></NormalForwardVLANList>
  </GlobalConfigurations>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
NormalForwardVLANList	Normal forwarding VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. The string cannot end with a comma or hyphen, or include any whitespace characters. Default is not configured.

Contents

OFP 1
OFP/LogicalSwitches 1
XML structure 1
Table description 2
Columns 2
OFP/Controller 5
XML structure 5
Table description 6
Columns 6
OFP/GlobalConfigurations 7
XML structure 7
Table description 7
Columns 8
OFP/Capability 8
XML structure 8
Table description 8
Columns 8

OFP

OFP/LogicalSwitches

This table contains information about OpenFlow instance.

XML structure

```
<OFP>
  <LogicalSwitches>
    <LogicalSwitch>
      <InstanceID></InstanceID>
      <Description></Description>
      <DatapathID></DatapathID>
      <Enable></Enable>
      <Capabilities>
        <MaxEntries></MaxEntries>
        <DynamicMacAware></DynamicMacAware>
        <MacLearning></MacLearning>
        <TableMissDefaultPermit></TableMissDefaultPermit>
        <ForbiddenPort></ForbiddenPort>
        <PermitPort></PermitPort>
        <DynamicArpPre></DynamicArpPre>
        <TcpNsr></TcpNsr>
        <DataPlane></DataPlane>
      </Capabilities>
      <Resources>
        <ClassificationType></ClassificationType>
        <ClassificationVLAN></ClassificationVLAN>
        <ClassificationVLANMask></ClassificationVLANMask>
        <ClassificationVLANLoosen></ClassificationVLANLoosen>
        <InbandManagementVLANList></InbandManagementVLANList>
        <MACIPTableIDList></MACIPTableIDList>
        <MPLSTableIDList></MPLSTableIDList>
        <ExtensibilityFlowTableIDList></ExtensibilityFlowTableIDList>
      </Resources>
      <ConnectionCfg>
        <ConnectionMode></ConnectionMode>
        <ConnectionInterval></ConnectionInterval>
        <EchoInterval></EchoInterval>
        <LostConnectionBehavior></LostConnectionBehavior>
        <TcpDscp></TcpDscp>
        <ForbiddenPktInArpCtrl></ForbiddenPktInArpCtrl>
       </ConnectionCfg>
    </LogicalSwitch>
  </LogicalSwitches>
```

```
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	LogicalSwitches
Table type	Multi-instance table
Row name	LogicalSwitch
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • **Value range: 1-4094**.
Description	Description of instance	N/A	String. • Length: 1 to 255 characters.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. • Value range: 1 to 2^{64}-1.
Enable	Enable status of instance	N/A	Boolean: • **true**—Yes. • **false**—No.
Capabilities	Capabilities of instance	Data structure	Members include: • MaxEntries. • DynamicMacAware. • MacLearning. • TableMissDefaultPermit. • ForbiddenPort. • PermitPort. • DynamicArpPre. • TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. • **Value range: Depends on device type.**
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: • **true**—Yes. • **false**—No.
MacLearning	Enable mac learning in instance	N/A	Boolean: • **true**—Yes. • **false**—No.

Column name	Column description	Column type	Data type and restrictions
TableMissDefaultPermit	Assign “Permit” as the default table miss action of instance	N/A	Boolean: • **true**—Yes. • **false**—No.
ForbiddenPort	Port type to be forbidden reporting port status to controller	N/A	Unsigned integer. 1st bit for VLAN interface. 2nd bit for VSI interface. 3rd bit for ROUTE interface.
PermitPort	Permit reporting ports of specific type	N/A	Unsigned integer. 1st bit for LAGG interface.
DynamicArpPre	Dynamic ARP will replace the conflicting openflow ARP	N/A	Boolean: • **true—**Yes**.** • **false—**No**.**
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: • **true—**Yes**.** • **false—**No**.**
Resources	Resources of instance	Data structure	Members include: • ClassificationType. • ClassificationVLAN. • ClassificationVLANMask. • ClassificationVLANLoosen. • InbandManagementVLANList. • MACIPTableIDList. • MPLSTableIDList. • ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: • **1**—VLANMask. • **2**—Global. • **3**—Port. • **6**—CUPS
ClassificationVLAN	VLAN value when the type of classfication is VLANMask	N/A	Unsigned integer. • Value **range: 1-4094**.
ClassificationVLANMask	VLAN mask value when the type of classification is VLANMask	N/A	Unsigned integer. • Value **range: 0-4095**.
ClassificationVLANLoosen	Loosen mode when the type of classification is VLANMask	N/A	Boolean: • **true**—Yes. • **false**—No.

Column name	Column description	Column type	Data type and restrictions
InbandManagementVLANList	In band managment VLAN list of the instance	N/A	Number string. It is a comma-separated list of VLAN items. • The string must not end with a comma or hyphen, or include any whitespace characters.
MACIPTableIDList	MAC-IP table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. • The string must not end with a comma or hyphen, or include any whitespace characters.
MPLSTableIDList	MPLS table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters.
ExtensibilityFlowTableIDList	Extensibility table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. • The string must not end with a comma or hyphen, or include any whitespace characters.
ConnectionCfg	Configuration of connection in instance	Data structure	Members include: • ConnectionMode. • ConnectionInterval. • EchoInterval. • LostConnectionBehavior. • TcpDscp. • ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: • **0**—Parallel. • **1**—Serially.
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. • Value **range: 1-120**.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. • Value **range: 1-10**.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: • **1**—Standalone. • **2**—Secure. • **4—Smart**

Column name	Column description	Column type	Data type and restrictions
TcpDscp	Set the DSCP value for OpenFlow messages in an OpenFlow instance	N/A	Unsigned integer. • Value range: 0-63.
ForbiddenPktInArpCtrl	Specify controllers to which ARP packets are forbidden to be sent	N/A	Unsigned integer64. 1st bit for controller 0. 2nd bit for controller 1. 3rd bit for controller 2. …… 63rd bit for controller 62. 64th bit for controller 63.
DataPlane	Enable the data forwarding plane feature in an instance	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

OFP/Controller

This table contains information about OpenFlow controllers.

XML structure

```
<OFP>
  <Controllers>
    <Controller>
      <InstanceID></InstanceID>
      <ControllerID></ControllerID>
      <Role></Role>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Port></Port>
      <LocalIPv4Address></LocalIPv4Address>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
      <Protocol></Protocol>
      <VRF></VRF>
      <SSLPolicy></SSLPolicy>
      <ConnectionState></ConnectionState>
      <CurrentVersion></CurrentVersion>
      <BFDEnable></BFDEnable>
      <AccessCtrlPolicy></AccessCtrlPolicy>
    </Controller>
  </Controllers>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • **Value range: 1-4094**.
ControllerID	Controller ID	Index	Unsigned integer. **Value range: 0-63**.
Role	Controller role	N/A	Enumeration: • **0**—Unknown. • **1**—Equal. • **2**—Master. • 3—Slave.
IPv4Address	Controller‘s IPv4 address	N/A	String, dotted decimal notation.
IPv6Address	Controller’s IPv6 address	N/A	String, semicolon hex notation.
Port	Controller’s port	N/A	Unsigned integer. • Value **range: 1-65535**.
LocalIPv4Address	Local IPv4 address for connection with controller	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address for connection with controller	N/A	String, semicolon hex notation.
LocalPort	Local port for connection with controller	N/A	Unsigned integer. • Value **range: 1-65535**.
Protocol	Protocol used for connection with controller	N/A	Enumeration: • **1**—TCP • **2**—SSL
VRF	VRF name for VPN connection with controller	N/A	String. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
SSLPolicy	SSL policy name for SSL connection with controller	N/A	String. Length: 1 to 31 characters.
ConnectionState	Connection state of controller	N/A	Enumeration: • **0**—Idle. • **1**—Established.
CurrentVersion	Wired version of OpenFlow protocol for the connection.	N/A	String. Length: 1 to 15 characters.
BFDEnable	Whether to enable the BFD function for the connection to the OpenFlow controller	N/A	Boolean: • true • false
AccessCtrlPolicy	Access control SSL policy name for SSL connection with controller	N/A	String. Length: 1 to 31 characters.

OFP/GlobalConfigurations

This table contains information about OpenFlow global configurations.

XML structure

```
<OFP>
  <GlobalConfigurations>
     <NormalForwardVLANList></NormalForwardVLANList>
  </GlobalConfigurations>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
NormalForwardVLANList	Global support for normal forward VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. • The string must not end with a comma or hyphen, or include any whitespace characters.

OFP/Capability

This table contains OFP capability information, and it is used to obtain custom OFP parameters.

XML structure

```
<OFP>
  <Capability>
    <LostConnectionSmartMode></LostConnectionSmartMode>
    <SupportExtensibilityTableNum></SupportExtensibilityTableNum>
  </Capability>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LostConnectionSmartMode	SmartMode behavior for connection failure with all controllers in an OpenFlow instance	N/A	Boolean: • **true**—Support. • **false**—Nonsupport.

Column name	Column description	Column type	Data type and restrictions
SupportExtensibilityTableNum	Number of extensibility tables supported by the instance	N/A	Unsigned integer. Value range: 0-255.

Contents

OFP 2
OFP/RefreshIpFlow 2
OFP/Packet 2
OFP/LogicalSwitches 2
OFP/Controller 3
OFP/GlobalConfigurations 4
OFP/Capability 5

OFP

OFP/RefreshIpFlow

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。

OFP/Packet

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。

OFP/LogicalSwitches

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。
The value of VLAN ID should be specified when the type is VLAN Mask. 类型为VLAN掩码时必须指定VLAN ID。	The value of VLAN ID should be specified when the instance type is VLAN Mask. 实例类型为VLAN掩码时必须指定VLAN ID。
Configuration of VLAN should not be specified, when the type is global. 类型为全局时不能执行VLAN相关配置。	Configuration of VLAN should not be specified, when the instance type is global. 实例类型为全局时不能执行VLAN相关配置。
Configuration of VLAN failed, because the type is not specified 由于未指定类型，VLAN配置失败	The instance type should be specified,when existence the configuration of the VLAN. 当存在VLAN的相关的配置的时候，应该指定相应的实例类型。
The Extensibility TableID is not legal.	The value of extensibility Tabled ID is only number and the

扩展流表ID输入不合法。	extenbility table ID should be in the range of 0-254. 扩展流表ID的值只能是数字并且必须在0-254范围内。
Configuration of multiple MAC-IP flow table ID is not supported. 暂不支持配置多个MAC-IP流表ID	Only one MAC-IP flow table ID can be supported. 只能配置一个MAC-IP流表ID。
Configuration of multiple multiple Extensibility flow table ID is not supported. 暂不支持配置多个Extensibility流表ID。	Only one extensibility flow table ID can be supported. 只能配置一个Extensibility流表ID。
The MAC-IP TableID is not legal. MAC-IP流表ID的值不合法。	The value of MAC-IP Tabled ID is only number and the MAC-IP table ID should be in the range of 0-254. MAC-IP流表ID的值只能是数字且范围是0-254。.
Extensibility table ID and MAC-IP table ID should be in the range of 0-254. 扩展流表和MAC-IP流表的ID必须在0-254范围内。	The MAC-IP table ID and Extensibility table ID should be in the range of 0-254. 扩展流表和MAC-IP流表的ID应该在0-254范围内。
Can not delete the configuration of Vlan ID when the type is VLAN Mask. 类型为VLAN掩码时不允许删除VLAN ID。	If instance type is VLAN Mask ,the VLAN ID is not allowed to be deleted when an instance table is deleted、removed、replaced. 在对实例表进行delete、remove、replace时，如果实例类型是VLAN掩码则不允许删除VLAN ID
MAC-IP table ID and extensibility table ID should be deleted together. MAC-IP流表和扩展流表必须一起删除。	If the table type is MAC-IP table,,the MAC-IP table should be deleted with the extensibilty table when an instance table is deleted、removed、replaced. 在对实例表进行delete、remove、replace时，如果流表类型是MAC-IP表，则MAC-IP表应该和扩展表一起删除。
Extensibility Flow table ID should be larger than MAC-IP table ID. 扩展流表ID必须大于MAC-IP流表ID。	MAC-IP table ID should be less than extensibility flow table ID. MAC-IP流表的ID不能大于扩展流表的ID。
The instance is already active, please deactivate instance first. 实例已经激活，请首先去激活。	Modify the activated instance configuration is not allowed when the instance has been activated. 实例已经被激活，不允许去修改已经激活的配置。
Queue wait timeout. 队列等待超时。	Read queue failure 读取队列失败
The operation of instance activation/deactivation is running, please try later. 实例激活和去激活的操作正在运行中，请稍后尝试。	The operation of instance activation/deactivation is running. 实例激活或者去激活的操作正在进行。
Failed to activate instance, please configure classification first. 激活实例请先配置实例类型。	Please configure classification first before activate instance. 激活实例之前请先配置实例类型。
No openflow instance exists. 没有OpenFlow实例存在。	No openflow instance exists. 没有OpenFlow实例存在。

OFP/Controller

Message	Explanation
Please configure IPV4 or IPV6 unicast address.	IPV4 or IPV6 unicast address should be configured when the

请配置IPv4或IPv6的单播地址。	controller is created. 当创建控制器配置的时候，IPV4或者IPV6的单播地址应该被设置。
The instance does not exist. 指定的实例不存在。	The instance ID does not exist. 指定的实例不存在。
The specified controller can not be modified. 不支持修改控制器配置。	The specified controller is already exist when the current controller is create;the current controller has the same configure with others when the current controller is merged;the current controller is not line deletion when controller is deleted、removed. 控制器进行merge操作时，存在重复配置；进行creat操作时，指定的控制器已经存在；delete和remove操作时不是行删除。
SSL policy should not be specified when the value of protocol is TCP. 当使用TCP连接控制器时，不能配置SSL策略。	When the value of protocol is TCP ,ssl policy should not be specified. 当使用TCP连接控制器时，不能配置SSL策略。
SSL policy should be specified when the value of protocol is SSL. 当使用SSl连接控制器时，必须配置SSL策略。	When the value of protocol is SSL ,ssl policy should be specified. 当使用SSl连接控制器时，必须配置SSL策略。
Local IPv4 and IPv6 address can not be configured at the same time. 本地IPv4和IPv6地址不能同时配置。	Local IPv4 and IPv6 address can not be configured at the same time. 本地IPv4和IPv6地址不能同时配置。
IPv4 or IPv6 address must be configured. 配置控制器时必须指定IPv4或IPv6地址。	IPv4 or IPv6 address must be configured. 配置控制器时必须指定IPv4或IPv6地址。
The value of local IPv4 or IPv6 address should be configured when Local port is specified. 配置本地端口时必须指定本地IPV4或IPV6地址。	When Local port is specified, the value of local IPv4 or IPv6 address should be configured. 配置本地端口时必须指定本地IPV4或IPV6地址。
The specified controller ID exists. 指定的控制器号已经存在。	Cannot conflict with existing controller ID when creating controller configuration. 创建控制器配置时不能与已有的控制器ID冲突。
OpenFlow controller configuration conflicts with other one. 指定控制器的配置和其他控制器冲突。	The current controller configuration cannot config with other controllers when the current controller is created. 当控制器进行creat操作时，当前控制器的配置不能与其他控制相冲突。
BFD is not supported. 不支持BFD功能。	Cannot enable the BFD function because the device does not support BFD. 无法配置BFD功能，因为当前设备不支持BFD。
Access control policy should only be specified when the value of protocol is SSL. 当使用非SSL连接控制器时，不能配置证书访问控制策略。	When the value of protocol is not SSL, Access control policy should not be specified. 当使用非SSL连接控制器时，不能配置证书访问控制策略。

OFP/GlobalConfigurations

Message	Explanation
The global instance and VLAN instance can't take effect simultaneously. 全局实例和VLAN实例不可同时生效。	The global instance and VLAN instance can't be actived simultaneously. 全局实例和VLAN实例不可同时被激活生效。

This global classification already exists. 全局配置已经存在。	The current global classification conflict with others. 当前的全局配置与其他实例配置冲突。

OFP/Capability

Message	Explanation
NULL	NULL

Contents

OSPF 1

OSPF/Instances 1
XML structure 1
Table description 2
Columns 2
OSPF/Redistributes 6
XML structure 6
Table description 7
Columns 7
OSPF/Areas 9
XML structure 9
Table description 9
Columns 9
OSPF/Networks 10
XML structure 10
Table description 10
Columns 10
OSPF/Interfaces 11
XML structure 11
Table description 12
Columns 13
OSPF/IfMd5s 19
XML structure 19
Table description 20
Columns 20
OSPF/Preferences 21
XML structure 21
Table description 22
Columns 22
OSPF/AsbrSummarys 22
XML structure 22
Table description 23
Columns 23
OSPF/StubRouters 24
XML structure 24
Table description 24
Columns 25
OSPF/Nssas 27
XML structure 27
Table description 27
Columns 28
OSPF/SilentAllInterfaces 30
XML structure 30
Table description 30
Columns 30
OSPF/SilentInterfaces 31
XML structure 31
Table description 31
Columns 31
OSPF/SegmentRoutings 32
XML structure 32
Table description 32
Columns 33
OSPF/DistributeBgplses 34
XML structure 35
Table description 35
Columns 35

OSPF/FilterPolicyExports 36
XML structure 36
Table description 36
Columns 36
OSPF/FilterPolicyImports 38
XML structure 38
Table description 38
Columns 38
OSPF/FRRs 40
XML structure 40
Table description 41
Columns 41
OSPF/AdjSids 43
XML structure 43
Table description 43
Columns 44

OSPF

OSPF/Instances

This table contains OSPF instance information.

XML structure

```
<OSPF>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Mode></Mode>
      <NSR></NSR>
      <VpnInstanceCapability></VpnInstanceCapability>
      <DefaultRouteAdvertise>
        <CfgType></CfgType>
        <Cost></Cost>
        <PolicyName></PolicyName>
        <Type></Type>
      </DefaultRouteAdvertise>
      <Spf-schedule>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
        <Conservative></Conservative>
        <Millisecond></Millisecond>
      </Spf-schedule>
      <Isolate></Isolate>
      <Shutdown></Shutdown>
      <Description></Description>
      <VirtualSystem></VirtualSystem>
      <LsaArrivalInterval>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
      </LsaArrivalInterval>
      <LsaGenerationInterval>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
      </LsaGenerationInterval>
      <RouteTagCheck></RouteTagCheck>
      <DnBitSetSummary></DnBitSetSummary>
```

```
      <DnBitSetAse></DnBitSetAse>
      <DnBitSetNssa></DnBitSetNssa>
      <DnBitCheckSummary></DnBitCheckSummary>
      <DnBitCheckAse></DnBitCheckAse>
      <DnBitCheckNssa></DnBitCheckNssa>
    </Instance>
  </Instances>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.	After an instance is created, its VRF cannot be modified. The column is not supported in VSYS.
RouterId	Router identifier.	N/A	String, dotted decimal notation.	N/A
Mode	Mode of the OSPF process.	N/A	Enumeration: • **0**—Normal process (default). • **1**—Lite process.	After a process is created, its mode cannot be modified. The column is only supported in non-defalut vSystem.
NSR	Nonstop routing.	N/A	Boolean: • **true**—Enable the nonstop routing feature. • **false**—Disable the nonstop routing feature.	Only supported on distributed devices or centralized IRF devices.

Column name	Column description	Column type	Data type and restrictions	Remarks
VpnInstance Capability	Route loop check for the OSPF process of the VPN instance.	N/A	Enumeration: • **0**—Normal, which indicates enabling route loop check. • **1**—Simple, which indicates disabling route loop check. Default: 0.	Only supported by an OSPF process of a specific VPN instance.
DefaultRoute Advertise	Default route redistribtution information.	Data structure	Members include: • CfgType. • Cost. • PolicyName. • Type.	N/A
CfgType	Default route redistribtution method	N/A	Enumeration: • **0**—Disable. • **1**—Normal. • **2**—Always. • **3**—Permit-Calculate-Other. • **4**—Summary	The CfgType of “Summary” is supported only by an OSPF process of a specific VPN instance.
Cost	Cost for the default route.	N/A	String. Length: 1 to 31 characters.	This column cannot be specified when the CfgType column is “Disable”. This column must be specified and cannot be “default” when the CfgType column is “Summary”. It must be “default” or an unsigned integer in the range of 0 to 16777214. "default" means the default cost specified by the **default-cost** command applies.
PolicyName	Specifies a routing policy to filter default routes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	This column cannot be specified when the CfgType column is “Disable” or “Summary”.
Type	Specifies a type for the Type-5 LSA.	N/A	Enumeration: • 0—Default. The value specified by the default type command applies. • 1—Type 1. • 2—Type 2.	This column cannot be specified when the CfgType column is “Disable” or “Summary”.
Spf-schedule	Time interval of OSPF route	Data structure	Members include: • Maximum.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	calculation.		• Minimum. • Incremental. • Conservative. Millisecond.	
Maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60.	When configuring minimum, incremental and conservative, maximum must be set; maximum cannot be set at the same time as millisecond.
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000.	When configuring incremental and conservative, minimum must be set; minimum cannot be set at the same time as millisecond.
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000.	When configuring conservative, incremental must be set; minimum cannot be set at the same time as millisecond.
Conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • ture—Enable route calculation is based on the maximum time interval. • false—Disable route calculation is based on the maximum time interval.	Conservative cannot be set at the same time as millisecond.
Millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000.	Millisecond cannot be set at the same time as maximum ,minimum, incremental and conservative.
Isolate	Whether to isolate OSPF from current network.	N/A	Boolean: • true—Isolate OSPF from current network. • false—Do not isolate OSPF from current network (default).	N/A
Shutdown	Whether to shutdown the OSPF process.	N/A	Boolean: • **true—**Shutdown the OSPF process. • **false—**Do not shutdown the OSPF process (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	The description information of OSPF instance.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
VirtualSystem	Whether to use virtual OSPF nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPF nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPF nodes for neighbor relationship establishment.	N/A
LsaArrivalInterval	Time interval of OSPF arrival.	Data structure	Members include: • Maximum. • Minimum. • Incremental.	N/A
Maximum	Maximum time interval.	N/A	Unsigned integer. Value range:0 to 10000(milliseconds).	When configuring minimum or incremental, maximum must be set.
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 0～60000.(milliseconds)	When configuring maximum and incremental, minimum must be set.
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 1～5000(milliseconds).	N/A
LsaGenerationInterval	Time interval of OSPF lsa generation.	Data structure	Members include: • Maximum. • Minimum. • Incremental.	N/A
Maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60 (seconds).	N/A
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPF Minimum interval should not be greater than maximum interval.
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPF Incremental interval should not be greater than maximum interval.
RouteTagCheck	Whether to check the route tag of ASE and NSSA LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance

Column name	Column description	Column type	Data type and restrictions	Remarks
DnBitCheckSummary	Whether to check the DN bit in Summary LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance
DnBitCheckAse	Whether to check the DN bit in ASE LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance
DnBitCheckNssa	Whether to check the DN bit in NSSA LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance
DnBitSetSummary	Whether to set the DN bit in Summary LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance
DnBitSetAse	Whether to set the DN bit in ASE LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance
DnBitSetNssa	Whether to set the DN bit in NSSA LSA.	N/A	Enumeration: • disable • enable (default)	Cannot be configured in the public network instance

OSPF/Redistributes

This table contains OSPF redistribute list information.

XML structure

```
<OSPF>
  <Redistributes>
    <Redist>
      <Name></Name>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <Cost></Cost>
      <InheritCost></InheritCost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <MetricType></MetricType>
      <AllowDirect></AllowDirect>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </Redist>
  </Redistributes>
```

```
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6—**BGP. • **7—**EIGRP. • **8—**Guard. • **9—**UNR.	N/A
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the **Protocol** column is Direct, Static, Guard, or UNR. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is ISIS, OSPF,

Column name	Column description	Column type	Data type and restrictions	Remarks
				EIGRP,or RIP. It must be empty or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.
Cost	Redistribute metric.	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
InheritCost	Whether to use the original cost of redistributed routes.	N/A	Boolean: • **true**—Use the original cost of redistributed routes. • **false**—Do not use the original cost of redistributed routes.	This column cannot be specified when the Cost column exists.
RoutePolicyName	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
AllowIBGP	Allow IBGP routes when importing BGP routes.	N/A	Boolean: • **true—**Import IBGP routes when importing BGP routes. • **false—**Do not import IBGP routes when importing BGP routes (default).	This column can be specified only when the protocol is BGP.
MetricType	Specifies a metric type for redistribute.	N/A	Enumeration: • **1**—Type 1. • **2**—Type 2 (default)..	N/A
AllowDirect	Allow direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	N/A	Boolean: • **true—**Import direct routes when importing ISIS, OSPF, RIP or EIGRP routes. • **false—**Does not import direct routes when importing ISIS, OSPF, RIP or EIGRP routes (default).	This column can be specified only when the Protocol is 3, 4, 5 or 7.
NssaOnly	Limits routes to NSSA areas.	N/A	Boolean: • **true—**Limits routes to NSSA areas. • **false—**Does not limit routes to NSSA areas (default).	N/A
Tag	Redistribute tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

OSPF/Areas

This table contains OSPF area information.

XML structure

```
<OSPF>
  <Areas>
    <Area>
      <Name></Name>
      <AreaId></AreaId>
      <AreaType></AreaType>
      <Description></Description>
    </Area>
  </Areas>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Areas
Table type	Multi-instance table
Row name	Area
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
AreaType	Area type.	N/A	Enumeration: • **0**—Normal. (default) • **1**—Stub. • **2**—NSSA.	If AreaId is 0, AreaType can only be set to 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	The description information of OSPF area.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A

OSPF/Networks

This table contains OSPF network list information.

XML structure

```
<OSPF>
  <Networks>
    <Network>
      <Name></Name>
      <AreaId></AreaId>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
    </Network>
  </Networks>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance and an area before you merge or create networks for it. It must be an unsigned integer in the range of 1 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				65535.
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
NetworkAddr	Network address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

OSPF/Interfaces

This table contains OSPF interface information.

XML structure

```
<OSPF>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfEnable>
        <Name></Name>
        <AreaId></AreaId>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Cost></Cost>
      <NetworkType></NetworkType>
      <HelloTimer></HelloTimer>
      <DeadTimer></DeadTimer>
      <DrPriority></DrPriority>
      <SimpleAuth>
        <SimplePwdType></SimplePwdType>
        <SimplePwd></SimplePwd>
      </SimpleAuth>
      <NullAuth></NullAuth>
      <Keychain></Keychain>
      <BfdEnable></BfdEnable>
      <Frr>
        <PrimaryPathDetect></PrimaryPathDetect>
        <LfaDisable></LfaDisable>
        <TiLfaDisable></TiLfaDisable>
        <RemoteLfaDisable></RemoteLfaDisable>
      </Frr>
      <PrefixSid>
        <SidName></SidName>
        <SidType></SidType>
        <Sid></Sid>
        <ExplicitNull></ExplicitNull>
```

```
        <PHP></PHP>
        <NFlagClear></NFlagClear>
      </PrefixSid>
      <DatabaseFilter>
        <All></All>
        <Ase></Ase>
        <AseAclNumber></AseAclNumber>
        <Nssa></Nssa>
        <NssaAclNumber></NssaAclNumber>
        <Summary></Summary>
        <SummaryAclNumber></SummaryAclNumber>
      </DatabaseFilter>
      <MtuEnable></MtuEnable>
      <PacketSize></PacketSize>
      <PrefixSuppression></PrefixSuppression>
      <TimerPoll></TimerPoll>
      <TimerRetransmit></TimerRetransmit>
      <TransDelay></TransDelay>
      <TtlSecurity>
        <HopsCount></HopsCount>
        <Disable></Disable>
      </TtlSecurity>
      <PeerSubAddrEnable></PeerSubAddrEnable>
      <PeerSubAddrSpecified></PeerSubAddrSpecified>
      <CostAdjustTrack></CostAdjustTrack>
      <CostAdjustOffset></CostAdjustOffset>
      <VirtualSystem>
        <Enable></Enable>
        <RouterId></RouterId>
      </VirtualSystem>
      <Silent></Silent>
      <BfdAdjustCost></BfdAdjustCost>
      <BfdAdjustCostSuppress>
        <ResumeInterval></ResumeInterval>
        <DetectInterval></DetectInterval>
        <Threshold></Threshold>
      </BfdAdjustCostSuppress>
    </Interface>
  </Interfaces>
</OSPF>
```


Table description

Item	Description
Feature name	OSPF
Table name	Interfaces
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfEnable	Interface enable messages.	Data structure	Members include: • Name. • AreaId. • ExcludedSubIp.	The members of Name and AreaId must be specified. Interface configuration takes precedence, and OSPF enabled on the interface is better than the configuration of the network command.
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
AreaId	Area ID.	N/A	String, dotted decimal notation.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: • **true**—Excludes secondary IP addresses. • **false**—Does not exclude secondary IP addresses (default).	N/A
Cost	Interface cost.	N/A	Unsigned integer. Value range: • Loopback interfaces: 0 to 65535. • Other interfaces: 1 to 65535. Default: • Loopback interfaces: 0. • Other interfaces: The cost values are calculated by using the formula: *Cost = Reference bandwidth value / Expected interface bandwidth*.	N/A
NetworkType	Interface network type.	N/A	Enumeration: • **1**—Broadcast. • **2**—NBMA.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—P2P. • **4**—P2MP. • **5**—P2MP unicast**.** • **6**—P2P multicast.	
HelloTimer	Hello interval.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeadTimer	Dead interval.	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255. Default: 1.	N/A
SimpleAuth	Simple authentication messages.	Data structure	Members include: • SimplePwdType. • SimplePwd.	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time. The members must both be specified when SimplePwdType is not None.
SimplePwdType	Simple password type.	N/A	Enumeration: • 1—Cipher. • 2—Plain. • 3—None.	OSPF will use empty string to authenticate packets when SimplePwdType is None.
SimplePwd	Simple password.	N/A	String. Length: • 1 to 8 characters for plain password. • 33 to 41 characters for cipher password.	It will not take effect when SimplePwdType is None.
NullAuth	Whether to use no authentication.	N/A	Boolean: • **true**—Use no authentication. • **false—**Do not use no authentication.	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time.
Keychain	Specify a keychain for authentication.	N/A	String: case sensitive. Length: 1 to 63 characters.	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time.
BfdEnable	BFD is enabled for OSPF.	N/A	Enumeration: • **1**—Enable control packet mode. • **2**—Enable echo packet mode.	N/A
Frr	Fast reroute configuration.	Data structure	Members include: • PrimaryPathDetect. • LfaDisable. • TiLfaDisable. • RemoteLfaDisable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryPathDetect	BFD session mode.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode.	N/A
LfaDisable	Whether to disable LFA.	N/A	Boolean: • **true**—LFA is disabled. • **false**—LFA is enabled (default).	N/A
TilfaDisable	Whether to disable TI-LFA.	N/A	Boolean: • **true**—TI-LFA is disabled. • **false**—TI-LFA is enabled (default).	N/A
RemoteLfaDisable	Whether to disable remote-LFA.	N/A	Boolean: • **true**—RemoteLFA is disabled. • **false**—RemoteLFA is enabled (default).	N/A
PrefixSid	Prefix Segment ID messages.	Data structure	Members include: • SidName. • SidType. • Sid. • ExplicitNull. • NFlagClear.	The members of SidName, SidType and Sid must be specified.
SidName	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: • **true**—The upstream neighbor replaces the prefix SID with an explicit null label. • **false—**The upstream neighbor does not replace the prefix SID with an explicit null label (default).	N/A
PHP	Penultimate hop popping flag	N/A	Boolean: • **true**—Pops the penulimate hop(default). • **false**—Does not pop the penulimate hop.	N/A
NFlagClea	Clear the	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
r	N-flag		• **true**—Clears the N-flag for the prefix SID. • **false**—Does not clear the N-flag for the prefix SID (default).	
Database Filter	Filter outbound LSAs on the interface.	Data structure	Members include: • All. • Ase. • AseAclNumber. • Nssa. • NssaAclNumber • Summary • SummaryAclNumber	The set operation is subject to the last issuance.
All	Filters all LSAs except the Grace LSAs.	N/A	Boolean: • **true**—Filters all LSAs except the Grace LSAs. • **false**—Do not filters all LSAs except the Grace LSAs (default).	This attribute cannot be configured simultaneously with Ase, AseAclNumber, Nssa, NssaAclNumber, Summary and SummaryAclNumber attributes. Merge and create cannot issue false.
Ase	Filters Type-5 LSAs.	N/A	Boolean: • **true**—Filters Type-5 LSAs. • **false**—Do not filters Type-5 LSAs (default)..	This attribute must be configured with the AseAclNumber attribute, and cannot be configured with the All attribute Merge and create cannot issue false.
AseAclNumber	Specifies an IPv4 ACL by its number in the range of 2000 to 3999.	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with Ase, and cannot be configured with the All attribute
Nssa	Filters Type-7 LSAs.	N/A	Boolean: • **true**—Filters Type-7 LSAs. • **false**—Do not filters Type-7 LSAs (default)..	Must be configured with the NssaAclNumber attribute, not with the All attribute Merge and create cannot issue false.
NssaAclNumber	Specifies an IPv4 ACL by its number in the range of 2000 to 3999.	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with Nssa, and cannot be configured with the All attribute
Summary	Filters Type-3 LSAs.	N/A	Boolean: • **true**—Filters Type-3 LSAs. • **false**—Do not filters Type-3 LSAs (default)..	Must be configured with the SummaryAclNumber attribute, not with the All attribute Merge and create cannot issue false.
SummaryAclNumber	Specifies an IPv4 ACL by its number in the	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with the Summary, and cannot be configured with

Column name	Column description	Column type	Data type and restrictions	Remarks
	range of 2000 to 3999.			the All attribute
MtuEnable	Enable the interface to add its MTU into DD packets.	N/A	Boolean: • true—Enable the interface to add its MTU into DD packets. • false—Disable the interface to add its MTU into DD packets (default)	N/A
PacketSize	Set the maximum length of OSPF packets that can be sent by an interface.	N/A	Unsigned integer. Value range: 500 to 10000. Default: the maximum length of OSPF packets that an interface can send equals the interface's MTU.	N/A
PrefixSuppression	Enable prefix suppression for the OSPF process.	N/A	Enumeration: • **0**—Not configured, inherit the enablement of the process (default).. • **1**—Enable prefix suppression on the interface. • **2**—Disable prefix suppression on the interface.	N/A
TimerPoll	Set the poll interval.	N/A	Unsigned integer. Value range: 1 to 2147483647. Default: Four times the hello interval.	N/A
TimerRetransmit	Set the retransmission interval.	N/A	Unsigned integer. Value range: 1 to 3600. Default: 5.	N/A
TransDelay	Set the LSA transmission delay.	N/A	Unsigned integer. Value range: 1 to 3600. Default: 1.	N/A
TtlSecurity	Configure GTSM for the interface.	Data structure	Members include: • HopsCount. • Disable.	HopsCount and Disable cannot be delivered at the same time.
HopsCount	Enable GTSM for the interface.	N/A	Unsigned integer. Value range: 1 to 254. Default:1 (configuring)	The default value of HopsCount is 1 when configured, and the result of the empty value is 1.
Disable	Disable GTSM for the interface.	N/A	Boolean: • **true**—Disable GTSM for the interface. • **false—**Enable GTSM for the interface (default).	Disable GTSM for an interface when the following conditions exist: —The area to which the interface belongs is enabled with GTSM. —The neighbor of the

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface does not support GTSM. Merge and create cannot issue false.
PeerSubAddrEnable	Establish OSPF neighbor adjacencies through the secondary IP address	N/A	Boolean: • **true**—Enable to establish OSPF neighbor adjacencies through the secondary IP address. • **false**—Unable to establish OSPF neighbor adjacencies through the secondary IP address (default).	PeerSubAddrEnable and PeerSubAddrSpecified are mutually exclusive.
PeerSubAddrSpecified	Establish OSPF neighbor adjacencies through the specified secondary IP address	N/A	IPv4 address string, dotted decimal notation.	PeerSubAddrEnable and PeerSubAddrSpecified are mutually exclusive.
CostAdjustTrack	Associate a track entry for interface cost adjustment	N/A	Unsigned integer. Value range: 1 to 1024.	CostAdjustTrack and CostAdjustOffset must be set together.
CostAdjustOffset	Set the value to be added to the interface cost when the track status changes to Negative	N/A	Unsigned integer. Value range: 1 to 65535.	CostAdjustTrack and CostAdjustOffset must be set together. The value to be added to the interface cost is in the range of 1 to 65534. If you set the value for CostAdjustOffset to 65535, the interface will use the maximum interface cost when the track status changes to Negative.
VirtualSystem	Information about virtual system configuration.	Data structure	Members include: • Enable • RouterId	N/A
Enable	Whether to use virtual OSPF nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPF nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPF nodes for neighbor relationship establishment (default).	N/A
RouterId	Set a virtual OSPF router ID	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Silent	Suppress routing updates on the interface	N/A	Enumeration: • **0**—Do not suppress routing updates on the interface. • **1**—Suppress routing updates on the interface.	N/A
BfdAdjustCost	Adjust the OSPF interface cost according to the BFD session state.	N/A	Enumeration: • **1~65534**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 65534 when the BFD session goes down. • **none**—Do not adjust cost (default).	N/A
BfdAdjustCostSuppress	Suppress OSPF interface cost adjustment upon BFD session state changes.	Data structure	Members include: • ResumeInterval. • DetectInterval. • Threshold	N/A
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds. Default: 0 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
Threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100. Default: 1.	N/A

OSPF/IfMd5s

This table contains OSPF interface cryptographic authentication information.

XML structure

```
<OSPF>
  <IfMd5s>
```

```
    <Md5>
      <IfIndex></IfIndex>
      <KeyId></KeyId>
      <Md5Type></Md5Type>
      <PasswordType></PasswordType>
      <Password></Password>
    </Md5>
  </IfMd5s>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	IfMd5s
Table type	Multi-instance table
Row name	Md5
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
KeyId	Key ID.	Index	Unsigned integer. Value range: 1 to 255.	OSPF will uses empty string to authenticate packets when KeyId is empty.Other Md5 configuration will be deleted when you create、merge or replace a Md5 that KeyId is empty.Empty string authentication configuration will be deleted when

Column name	Column description	Column type	Data type and restrictions	Remarks
				you create、merge or replace a Md5 that KeyId is not empty.
Md5Type	Cryptographic authentication type.	N/A	Enumeration: • **1**—MD5. • **2**—HMAC-MD5. • **3**—HMAC-SHA-256. • **4**—HMAC-SM3.	After a Md5 is created, its Md5Type cannot be modified when KeyId is not empty.
PasswordType	Password type.	N/A	Enumeration: • **1**—Cipher. • **2**—Plain.	After a Md5 is created, its PasswordType cannot be modified. It will not take effect when KeyId is empty.
Password	Password.	N/A	String. Length: • 1 to 255 characters for MD5/HMAC-MD5/HMAC-SHA-256/HMAC-SM3 plain password. • 33 to 373 characters for MD5/HMAC-MD5/HMAC-SHA-256/HMAC-SM3 cipher password.	After a Md5 is created, its Password cannot be modified. It will not take effect when KeyId is empty.

OSPF/Preferences

This table contains OSPF preference information.

XML structure

```
<OSPF>
  <Preferences>
    <Preference>
      <Name></Name>
      <TopoId></TopoId>
      <Type></Type>
      <Value></Value>
      <PolicyName></PolicyName>
    </Preference>
  </Preferences>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Preferences
Table type	Multi-instance table
Row name	Preference
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Type	Route type.	Index	Enumeration: • **1**—AS internal route. • **2**—AS external route.	N/A
Value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255. Default: • AS internal route is 10. • AS external route is 150.	N/A
PolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	N/A

OSPF/AsbrSummarys

This table contains OSPF ASBR summary route information.

XML structure

<0SPF>

```
  <AsbrSummarys>
    <AsbrSummary>
      <Name></Name>
      <TopoId></TopoId>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <Cost></Cost>
      <NotAdvertise></NotAdvertise>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </AsbrSummary>
  </AsbrSummarys>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	AsbrSummarys
Table type	Multi-instance table
Row name	AsbrSummary
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Ipv4Address	IPv4 address.	Index	IPv4: String, dotted decimal notation.	N/A
Ipv4Mask	Mask of IP address.	Index	IPv4: String, dotted decimal notation.	N/A
Cost	Summary route cost.	N/A	Unsigned integer. Value range: 1 to 16777214.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NotAdvertise	Does not advertise summary route.	N/A	Boolean: • **true—Does not** advertise summary route. • **false—**Advertises summary route (default).	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: • **true—**Limits summary routes to NSSA areas. • **false—**Does not limit summary routes to NSSA areas(default).	N/A
Tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 1.	N/A

OSPF/StubRouters

This table contains OSPF stub router information.

XML structure

```
<OSPF>
  <StubRouters>
    <StubRouter>
      <Name></Name>
      <TopoId></TopoId>
      <ExternalLsa></ExternalLsa>
      <ExtMetric></ExtMetric>
      <IncludeStub></IncludeStub>
      <OnStartup>
        <WaitForBgp></WaitForBgp>
        <Seconds></Seconds>
      </OnStartup>
      <SummaryLsa></SummaryLsa>
      <SumMetric></SumMetric>
    </StubRouter>
  </StubRouters>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	StubRouters
Table type	Multi-instance table

Item	Description
Row name	StubRouter
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge, create, replace, delete, or remove StubRouter lists for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
ExternalLsa	Configures the cost of external LSAs.	N/A	Boolean: • true—Specifies a cost for the external LSAs. • false—Does not specify a cost for the external LSAs (default).	For the create and merge operations, if you both configure the ExternalLsa and ExtMetric, you must specify the ExternalLsa as true. For the replace operation, if you configure the ExtMetric, you must configure the ExternalLsa too, and specify the ExternalLsa as true. For the delete and remove operations, if you configure the ExternalLsa, the ExtMetric value will be deleted.
ExtMetric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215. Default: 16711680.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IncludeStub	Sets the cost of the stub links.	N/A	Boolean: • true—Sets the cost of the stub links (link type 3) in Router LSAs to the maximum value 65535. • false—Does not set the cost of the stub links (link type 3) in Router LSAs (default).	N/A
OnStartup	Specifies the router as a stub router during reboot.	Data structure	Members include: • WaitForBgp. • Seconds.	At least one member must be specified.
WaitForBgp	Waits for BGP on-startup.	N/A	Boolean: • true—Specifies the router as a stub router during BGP route convergence after reboot. • false—Does not specify the router as a stub router during BGP route convergence after reboot (default).	N/A
Seconds	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400. Default: 600 (when WaitForBgp is specified as true).	The unit is seconds. When WaitForBgp is specified as **true**, the default value for Seconds is 600.
SummaryLsa	Configures the cost of the summary LSAs.	N/A	Boolean: • true—Specifies a cost for the Type-3 LSAs. • false—Does not specify a cost for the Type-3 LSAs (default).	For the create and merge operations, if you both configure the SummaryLsa and SumMetric, you must specify the SummaryLsa as true. For the replace operation, if you configure the SumMetric, you must configure the SummaryLsa too, and specify the SummaryLsa as true. For the delete and remove operations, if you configure the SummaryLsa, the SumMetric value will be deleted.
SumMetric	Cost of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	summary LSAs.		Value range: 1 to 16777215. Default: 16711680.	

OSPF/Nssas

This table contains OSPF NSSA area information.

XML structure

```
<OSPF>
  <Nssas>
    <Nssa>
      <Name></Name>
      <TopoId></TopoId>
      <AreaId></AreaId>
      <DefaultRouteAdvertiseCfg>
        <DefaultRouteAdvertise></DefaultRouteAdvertise>
        <Cost></Cost>
        <NssaOnly></NssaOnly>
        <PolicyName></PolicyName>
        <Type></Type>
      </DefaultRouteAdvertiseCfg>
      <NoImportRoute></NoImportRoute>
      <NoSummary></NoSummary>
      <SuppressFa></SuppressFa>
      <Translate></Translate>
      <TranslatorStabilityInterval></TranslatorStabilityInterval>
    </Nssa>
  </Nssas>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Nssas
Table type	Multi-instance table
Row name	Nssa
Restrictions	The row can be operated only when the AreaType of the corresponding area in the Areas table is configured as Nssa.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
AreaId	Area ID.	Index	String, dotted decimal notation.	
DefaultRoute AdvertiseCfg	Default route advertisement messages.	Data structure	Members include: • DefaultRouteAdvertise. • Cost. • NssaOnly. • PolicyName. • Type.	N/A
DefaultRoute Advertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: • true—Generates a Type-7 default into the NSSA area. • false—Does not generate a Type-7 default into the NSSA area. (default).	For the create and merge operations, if you both configure the DefaultRouteAdvertise and the other members, you must specify the DefaultRouteAdvertise as true. For the replace operation, if you configure the other members, you must configure the DefaultRouteAdvertise too, and specify it as true. For the delete and remove operations, if you configure the DefaultRouteAdvertise, the values of the rest members will be deleted.
Cost	Metric for default route.	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
NssaOnly	Whether to limit the default route advertisement to the NSSA area.	N/A	Boolean: • true—Limits the default route advertisement to the NSSA area.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false—Does not limit the default route advertisement to the NSSA area (default).	
PolicyName	Specifies the routing policy to filter default route.	N/A	String. Length: 1 to 63 characters.	N/A
Type	Specifies a cost type for the Type-7 LSA.	N/A	Enumeration: • 1—Type 1. • 2—Type 2.	N/A
NoImportRoute	Whether to redistribute routes into the NSSA area.	N/A	Boolean: • true—Does not redistribute routes into the NSSA area. • false—Redistributes routes into the NSSA area (default).	N/A
NoSummary	Whether to send summary LSA into the NSSA area.	N/A	Boolean: • true—Does not send summary LSA into the NSSA area. • false—Sends summary LSA into the NSSA area (default).	N/A
SuppressFa	Whether to suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A	Boolean: • true—Suppresses the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs. • false—Does not suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs (default).	N/A
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: • 1—Always translates Type-7 LSAs to Type-5 LSAs. • 2—Never translates Type-7 LSAs to Type-5 LSAs. • 3—Ignores checking the backbone area. • 4—Always translates Type-7 LSAs to Type-5 LSAs and ignores checking the backbone area.	N/A
TranslatorStabilityInterval	Specifies the stability interval of the translator.	N/A	Unsigned integer. Value range: 0 to 900.	The unit is seconds and the default value is 0.

OSPF/SilentAllInterfaces

This table contains all OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentAllInterfaces>
    <SilentAllInterface>
      <Name></Name>
      <SilentAll></SilentAll>
    </SilentAllInterface>
  </SilentAllInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create SilentAllInterfaces for it. It must be an unsigned integer in the range of 1 to 65535.
SilentAll	Whether to specify all interfaces	N/A	Boolean: • **true**—Specifies all interfaces. • **false**—Does not specify all interfaces(default).	N/A

OSPF/SilentInterfaces

This table contains OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentInterfaces>
    <SilentInterface>
      <Name></Name>
      <IfName></IfName>
      <Silent></Silent>
    </SilentInterface>
  </SilentInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create SilentInterfaces for it. It must be an unsigned integer in the range of 1 to 65535.
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Silent	Whether to specify the interface	N/A	Boolean: • **true**—Specifies the interface. • **false**—Does not specify the interface.	If SilentAll is true in the SilentAllInterfaces table, the default Silent value is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If SilentAll is false in the SilentAllInterfaces table, the default Silent value is false.

OSPF/SegmentRoutings

This table contains OSPF segment routing information.

XML structure

```
<OSPF>
  <SegmentRoutings>
    <SegmentRouting>
      <Name></Name>
      <MplsEnable></MplsEnable>
      <AdjacencyEnable></AdjacencyEnable>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <SrPreferEnable></SrPreferEnable>
      <PrefixListName></PrefixListName>
      <SidMap>
        <AdvertiseLocal></AdvertiseLocal>
        <Receive></Receive>
      </SidMap>
      <LspTrigger>
        <Policy></Policy>
        <PrefixListName></PrefixListName>
      </LspTrigger>
      <MicroloopAvoid>
        <Enable></Enable>
        <RibUpdateDelay></RibUpdateDelay>
      </MicroloopAvoid>
    </SegmentRouting>
  </SegmentRoutings>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF

Item	Description
Table name	SegmentRoutings
Table type	Multi-instance table
Row name	SegmentRouting
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create segmentroutings for it. It must be an unsigned integer in the range of 1 to 65535.
MplsEnable	Whether to enable MPLS SR.	N/A	Boolean: • **true**—Enables MPLS SR. • **false—**Does not enable MPLS SR (default).	N/A
AdjacencyEnable	Whether to enable adjacency label allocation.	N/A	Boolean: • **true**—Enables adjacency label allocation. • **false—**Does not enable adjacency label allocation (default).	N/A
SRGB	Specifies range of SRGB.	Data structure	Members include: • Lowerbound. • Upperbound.	N/A
Lowerbound	Min value of SRGB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer.	N/A
SrPreferEnable	Whether to enable SR label preference.	N/A	Boolean: • **true**—Enables SR label preference. • **false—**Does not enable SR label preference (default).	N/A
PrefixListName	Name of the prefix list	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SidMap	Configure prefix-SID mapping.	Data structure	Members include: • AdvertiseLocal. • Receive.	N/A
AdvertiseLocal	Whether to advertise local prefix-SID mappings.	N/A	Boolean: • **true**—Advertise local prefix-SID mappings. • **false**—Does not advertise local prefix-SID mappings (default).	N/A
Receive	Whether to receive prefix-SID mappings.	N/A	Boolean: • **true**—Receives prefix-SID mappings. • **false**—Does not receive mapping server advertisements.	N/A
LspTrigger	Configure the SRLSP establishment triggering policy.	Data structure	Members include: • Policy. • PrefixListName.	N/A
Policy	SRLSP establishment triggering policy.	N/A	Enumeration: • **0**—Allows all FECs (default). • **1**—Allows host FECs. • **2**—Allows no FECs. • **3**—Allows FECs permitted by a prefix list.	N/A
PrefixListName	Prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
MicroloopAvoid	Microloop-avoidance information for OSPF SR.	Data structure	Members include: • Enable. • RibUpdateDelay.	N/A
Enable	Enable microloop-avoidance.	N/A	Boolean: • **true**—Enable microloop-avoidance. • **false**—Disable microloop-avoidance (default).	N/A
RibUpdateDelay	The microloop-avoidance RIB-update-delay time.	N/A	Unsigned integer. Value range: 1 to 60000.	N/A

OSPF/DistributeBgplses

This table contains information about OSPF link state advertisement to BGP.

XML structure

```
<OSPF>
  <DistributeBgplses>
    <DistributeBgpls>
      <Name></Name>
      <TopoId></TopoId>
      <InstanceId></InstanceId>
      <StrictLinkCheck></StrictLinkCheck>
    </DistributeBgpls>
  </DistributeBgplses>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	DistributeBgplses
Table type	Multi-instance table
Row name	DistributeBgpls
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127 Default: 0.	Only 0 is supported now.
InstanceId	Instance ID.	N/A	Unsigned integer. Value range: 0 to 65535 Default: 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StrictLinkCheck	Whether to enable strict link checking.	N/A	Boolean: • **true**—Enables strict link checking. • **false**—Does not enable strict link checking (default).	N/A

OSPF/FilterPolicyExports

This table contains information about OSPF route redistribution filter.

XML structure

```
<OSPF>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <TopoId></TopoId>
      <ProtocolExport></ProtocolExport>
      <InstanceNameExport></InstanceNameExport>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
    </FilterPolicyExport>
  </FilterPolicyExports>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FilterPolicyExports
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String.	You must create

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127 Default: 0.	Only 0 is supported currently.
ProtocolExport	Protocol type.	Index	Enumeration: • **0**—All. • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6—**BGP. • **7—**EIGRP. • **8—**Guard. • **9—**UNR.	N/A
InstanceNameExport	Instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the ProtocolExport column is Direct, Static, BGP, UNR, or All.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of AclNum and PrefixListName at the same time. If you configure this column and a conflicting column one after another, the most recent column configuration will take effect.
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	You can only set one of AclNum and PrefixListName at the same time. If you configure this column and a conflicting column one after another, the most recent column configuration will

Column name	Column description	Column type	Data type and restrictions	Remarks
				take effect.

OSPF/FilterPolicyImports

This table contains information about OSPF incoming route filter.

XML structure

```
<OSPF>
  <FilterPolicyImports>
    <FilterPolicyImport>
      <Name></Name>
      <TopoId></TopoId>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
      <Gateway></Gateway>
      <RoutePolicyName></RoutePolicyName>
    </FilterPolicyImport>
  </FilterPolicyImports>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FilterPolicyImports
Table type	Multi-instance table
Row name	FilterPolicyImport
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String.	You must create

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127 Default: 0.	Only 0 is supported currently.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of AclNum, PrefixListName and RoutePolicyName at the same time. If you configure this column and a conflicting column one after another, the most recent column configuration will take effect.
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	You can only set one of AclNum, PrefixListName and RoutePolicyName at the same time. If you configure this column and a conflicting column one after another, the most recent column configuration will take effect.
Gateway	Name of the gateway.	N/A	String. Length: 1 to 63 characters.	You can only set one of Gateway and RoutePolicyName at the same time. If you configure this column and a conflicting column one after another, the most recent column configuration will take effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutePolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	You cannot set AclNum, PrefixListName, or Gateway when setting RoutePolicyName. If you configure this column and a conflicting column one after another, the most recent column configuration will take effect.

OSPF/FRRs

This table contains OSPF FRR information.

XML structure

```
<OSPF>
  <FRRs>
    <FRR>
      <Name></Name>
      <Enable></Enable>
      <AbrOnly></AbrOnly>
      <RoutePolicy></RoutePolicy>
      <RemoteLfa>
        <Enable></Enable>
        <MaxCost></MaxCost>
        <PrefixList></PrefixList>
      </RemoteLfa>
      <TiLfa>
        <Enable></Enable>
        <PerPrefix></PerPrefix>
        <Host></Host>
        <RoutePolicy></RoutePolicy>
      </TiLfa>
      <MicroloopAvoid>
        <Enable></Enable>
        <RibUpdateDelay></RibUpdateDelay>
      </MicroloopAvoid>
      <TieBreaker>
        <LowestCostPref></LowestCostPref>
        <NodeProtectPref></NodeProtectPref>
        <SrlgDisjointPref></SrlgDisjointPref>
      </TieBreaker>
```

```
    </FRR>
  </FRRs>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FRRs
Table type	Multi-instance table
Row name	FRR
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create FRRs for it. It must be an unsigned integer in the range of 1 to 65535.
Enable	Enable OSPF Loop-Free Alternate FRR.	N/A	Boolean: • **true**—Enable FRR. • **false**—Does not enable FRR (default).	N/A
AbrOnly	Uses the next hop of the route to the ABR as the backup next hop.	N/A	Boolean: • **true**—Only the next hops of the route to the ABR are used as the backup next hop. • **false**—All next hops can be used as the backup next hop (default).	N/A
RoutePolicy	Uses a routing policy to designate a backup next hop.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
RemoteLfa	OSPF remote Loop-Free Alternate FRR.	Data structure	Members include: • Enable. • MaxCost. • PrefixList.	N/A
Enable	Enable OSPF remote LFA FRR.	N/A	Boolean: • **true**—Enable remote LFA	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			FRR. • **false**—Does not enable remote LFA FRR (default).	
MaxCost	Set the maximum cost from the source node of a protected link to a PQ node.	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 4294967295.	N/A
PrefixList	Specify a prefix list to filter remote LFA PQ nodes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
TiLfa	OSPF Topology-Independent Loop-Free Alternate FRR.	Data structure	Members include: • Enable. • PerPrefix. • Host. • RoutePolicy.	N/A
Enable	Enable OSPF TI-LFA FRR.	N/A	Boolean: • **true**—Enable TI-LFA FRR. • **false**—Does not enable TI-LFA FRR (default).	N/A
PerPrefix	Per-prefix calculation.	N/A	Boolean: • **true**—Calculates backup information for each advertising source of a route. • **false**—Calculates backup information for each route (default).	N/A
Host	Enable TI-LFA for host routes.	N/A	Boolean: • **true**—Enable TI-LFA for host routes. • **false**—Does not enable TI-LFA for host routes (default).	N/A
RoutePolicy	Enable TI-LFA FRR for prefixes identified by the routing policy.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
MicroloopAvoid	FRR microloop avoidance.	Data structure	Members include: • Enable. • RibUpdateDelay.	N/A
Enable	Enable FRR microloop avoidance.	N/A	Boolean: • **true**—Enable FRR microloop avoidance. • **false**—Does not enable FRR microloop avoidance (default).	N/A
RibUpdateDelay	Set the FRR microloop avoidance	N/A	Unsigned integer, in milliseconds. Value range: 1 to 60000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	RIB-update-delay time.		Default: 5000.	
TieBreaker	Set the priority for the node-protection or lowest-cost backup path selection policy.	Data structure	Members include: • LowestCostPref. • NodeProtectPref. • SrlgDisjointPref.	N/A
LowestCostPref	Set a priority value for the lowest-cost backup path selection policy.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	N/A
NodeProtectPref	Set a priority value for the node-protection backup path selection policy.	N/A	Unsigned integer. Value range: 1 to 255. Default: 40.	N/A
SrlgDisjointPref	Sets a priority value for the Shared Risk Link Group selection policy.	N/A	Unsigned integer. Value range: 1 to 255. Default: 10.	N/A

OSPF/AdjSids

This table contains OSPF adjacency-SID information.

XML structure

```
<OSPF>
  <AdjSids>
    <AdjSid>
      <IfIndex></IfIndex>
      <Nexthop></Nexthop>
      <SidType></SidType>
      <Sid></Sid>
    </AdjSid>
  </AdjSids>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	AdjSids
Table type	Multi-instance table

Row name	AdjSid
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Nexthop	Nexthop IPv4 address.	Index	String, dotted decimal notation.	This parameter applies only to broadcast interfaces. 0.0.0.0 is an invalid value which is used on P2P interfaces.
SidType	The type of prefix SID	N/A	Enumeration: • **1**—Absolute value of prefix SID. • **2**—Index value of prefix SID.	This command must be specified.
Sid	Prefix segment ID	N/A	Unsigned integer.	This command must be specified.

Contents

OSPF 1

OSPF/Instances 1
XML structure 1
Table description 2
Columns 2
OSPF/Redistributes 5
XML structure 6
Table description 6
Columns 6
OSPF/Areas 7
XML structure 7
Table description 8
Columns 8
OSPF/Networks 8
XML structure 8
Table description 9
Columns 9
OSPF/Interfaces 9
XML structure 9
Table description 11
Columns 11
OSPF/IfMd5s 18
XML structure 18
Table description 19
Columns 19
OSPF/Neighbours 20
XML structure 20
Table description 20
Columns 20
OSPF/Preferences 21
XML structure 21
Table description 22
Columns 22
OSPF/AsbrSummarys 22
XML structure 22
Table description 23
Columns 23
OSPF/StubRouters 24
XML structure 24
Table description 24
Columns 25
OSPF/Nssas 26
XML structure 26
Table description 26
Columns 27
OSPF/SilentAllInterfaces 28
XML structure 28
Table description 29
Columns 29
OSPF/SilentInterfaces 29
XML structure 29
Table description 30
Columns 30
OSPF/SegmentRoutings 30
XML structure 30
Table description 31
Columns 31

OSPF/DistributeBgplses ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 34
OSPF/FilterPolicyExports ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 35
OSPF/FilterPolicyImports ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
OSPF/FRRs ····· 37
XML structure ····· 37
Table description ····· 38
Columns ····· 38
OSPF/AdjSids ····· 40
XML structure ····· 40
Table description ····· 41
Columns ····· 41
OSPF/GlobalStatistics ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42

OSPF

OSPF/Instances

This table contains OSPF instance information.

XML structure

```
<OSPF>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Mode></Mode>
      <NSR></NSR>
      <VpnInstanceCapability></VpnInstanceCapability>
      <DefaultRouteAdvertise>
        <CfgType></CfgType>
        <Cost></Cost>
        <PolicyName></PolicyName>
        <Type></Type>
      </DefaultRouteAdvertise>
      <Spf-schedule>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
        <Conservative></Conservative>
        <Millisecond></Millisecond>
      </Spf-schedule>
      <Isolate></Isolate>
      <Shutdown></Shutdown>
      <Description></Description>
      <VirtualSystem></VirtualSystem>
      <LsaArrivalInterval>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
      </LsaArrivalInterval>
      <LsaGenerationInterval>
        <Maximum></Maximum>
        <Minimum></Minimum>
        <Incremental></Incremental>
      </LsaGenerationInterval>
      <RouteTagCheck></RouteTagCheck>
      <DnBitSetSummary></DnBitSetSummary>
```

```
      <DnBitSetAse></DnBitSetAse>
      <DnBitSetNssa></DnBitSetNssa>
      <DnBitCheckSummary></DnBitCheckSummary>
      <DnBitCheckAse></DnBitCheckAse>
      <DnBitCheckNssa></DnBitCheckNssa>
    </Instance>
  </Instances>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
VRF	VRF name.	N/A	String. Length: 1 to 31 characters. The column is not supported in VSYS.	N/A
RouterId	Router identifier.	N/A	String, dotted decimal notation.	N/A
Mode	Mode of the OSPF process.	N/A	Enumeration: • **0**—Normal process (default). • **1**—Lite process.	After a process is created, its mode cannot be modified. The column is only supported in non-defalut vSystem.
NSR	Nonstop routing.	N/A	Boolean: • **true**—Enable the nonstop routing feature. • **false**—Disable the nonstop routing feature.	N/A
VpnInstance Capability	Route loop check for the OSPF process	N/A	Enumeration: • **0**—Normal, which indicates enabling	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the VPN instance.		route loop check. • **1**—Simple, which indicates disabling route loop check.	
DefaultRouteAdvertise	Default route redistribtution information.	Data structure	Members include: • CfgType. • Cost. • PolicyName. • Type.	N/A
CfgType	Default route redistribtution method	N/A	Enumeration: • **0**—Disable. • **1**—Normal. • **2**—Always. • **3**—Permit-Calculate-Other. • **4**—Summary	N/A
Cost	Cost for the default route.	N/A	String. Length: 1 to 31 characters.	N/A
PolicyName	Specifies a routing policy to filter default routes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Type	Specifies a type for the Type-5 LSA.	N/A	Enumeration: • **0**—Default. The value specified by the **default type** command applies. • **1**—Type 1. • **2**—Type 2.	N/A
Spf-schedule	Time interval of OSPF route calculation.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Conservative. Millisecond.	Spf-schedule
Maximum	Maximum time interval.	N/A	Unsigned integer. Value range:1 to 60.	Maximum
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000.	Minimum
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000.	Incremental
Conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • ture—Enable route calculation is based on the maximum time interval. false—Disable route calculation is based on the maximum time interval.	Conservative
Millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000.	Millisecond
Isolate	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	isolate OSPF from current network.		• **true**—Isolate OSPF from current network. • **false**—Do not isolate OSPF from current network.	
Shutdown	Whether to shutdown the OSPF process.	N/A	Boolean: • **true**—Shutdown the OSPF process. • **false**—Do not shutdown the OSPF process.	N/A
Description	The description information of OSPF instance.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
VirtualSystem	Whether to use virtual OSPF nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPF nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPF nodes for neighbor relationship establishment.	N/A
LsaArrivalInterval	Time interval of OSPF arrival.	Data structure	Members include: • Maximum. • Minimum. • Incremental.	N/A
Maximum	Maximum time interval.	N/A	Unsigned integer. Value range:0 to 10000(milliseconds).	When configuring minimum or incremental, maximum must be set.
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 0～60000 (milliseconds).	When configuring maximum and incremental, minimum must be set.
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 1～5000(milliseconds).	N/A
LsaGenerationInterval	Time interval of OSPF lsa generation.	Data structure	Members include: • Maximum. • Minimum. • Incremental.	N/A
Maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60 (seconds).	N/A
Minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPF Minimum interval should not be greater than maximum

Column name	Column description	Column type	Data type and restrictions	Remarks
				interval.
Incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPF Incremental interval should be not greater than maximum interval.
RouteTagCheck	Whether to check the route tag of ASE and NSSA LSA.	N/A	Enumeration: • Disable • enable	Cannot be configured in the public network instance
DnBitCheckSummary	Whether to check the DN bit in Summary LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance
DnBitCheckAse	Whether to check the DN bit in ASE LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance
DnBitCheckNssa	Whether to check the DN bit in NSSA LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance
DnBitSetSummary	Whether to set the DN bit in Summary LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance
DnBitSetAse	Whether to set the DN bit in ASE LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance
DnBitSetNssa	Whether to set the DN bit in NSSA LSA.	N/A	Enumeration: • disable • enable	Cannot be configured in the public network instance

OSPF/Redistributes

This table contains OSPF redistribute list information.

XML structure

```
<OSPF>
  <Redistributes>
    <Redist>
      <Name></Name>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <Cost></Cost>
      <InheritCost></InheritCost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <MetricType></MetricType>
      <AllowDirect></AllowDirect>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </Redist>
  </Redistributes>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
Protocol	Redistribute protocol.	Index	Enumeration: • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6**—BGP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **7—**EIGRP. • **8—**Guard. • **9—**UNR.	
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	N/A
RoutePolicy Name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
Cost	Redistribute metric.	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
InheritCost	Whether to use the original cost of redistributed routes.	N/A	Boolean: • **true**—Use the original cost of redistributed routes. • **false**—Do not use the original cost of redistributed routes.	This column cannot be specified when the Cost column exists.
AllowIBGP	Allow IBGP routes when importing BGP routes.	N/A	Boolean: • **true**—Import IBGP routes when importing BGP routes. • **false**—Do not import IBGP routes when importing BGP routes.	N/A
MetricType	Specifies a metric type for redistribute.	N/A	Enumeration: • **1**—Type 1. • **2**—Type 2.	N/A
AllowDirect	Allow direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	N/A	Boolean: • **true—**Import direct routes when importing ISIS, OSPF, RIP or EIGRP routes. • **false—**Does not import direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	This column can be specified only when the Protocol is 3, 4, 5 or 7.
NssaOnly	Limits routes to NSSA areas.	N/A	Boolean: • **true—**Limits routes to NSSA areas. • **false—**Does not limit routes to NSSA areas.	N/A
Tag	Redistribute tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

OSPF/Areas

This table contains OSPF area information.

XML structure

```
<OSPF>
  <Areas>
    <Area>
      <Name></Name>
```

```
      <AreaId></AreaId>
      <AreaType></AreaType>
      <Description></Description>
    </Area>
  </Areas>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Areas
Table type	Multi-instance table
Row name	Area
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
AreaType	Area type.	N/A	Enumeration: • **0**—Normal. • **1**—Stub. • **2**—NSSA.	N/A
Description	The description information of OSPF area.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A

OSPF/Networks

This table contains OSPF network list information.

XML structure

```
<OSPF>
  <Networks>
    <Network>
      <Name></Name>
      <AreaId></AreaId>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
```

```
    </Network>
  </Networks>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
NetworkAddr	Network address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

OSPF/Interfaces

This table contains OSPF interface information.

XML structure

```
<OSPF>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfEnable>
        <Name></Name>
        <AreaId></AreaId>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Cost></Cost>
      <NetworkType></NetworkType>
      <HelloTimer></HelloTimer>
      <DeadTimer></DeadTimer>
```

```
<DrPriority></DrPriority>
<SimpleAuth>
<SimplePwdType></SimplePwdType>
  <SimplePwd></SimplePwd>
</SimpleAuth>
<NullAuth></NullAuth>
<Keychain></Keychain>
<CurAuthType></CurAuthType>
<CurMd5KeyId></CurMd5KeyId>
<State></State>
<BfdEnable></BfdEnable>
<Frr>
  <PrimaryPathDetect></PrimaryPathDetect>
  <LfaDisable></LfaDisable>
  <TiLfaDisable></TiLfaDisable>
  <RemoteLfaDisable></RemoteLfaDisable>
</Frr>
<PrefixSid>
  <SidName></SidName>
  <SidType></SidType>
  <Sid></Sid>
  <ExplicitNull></ExplicitNull>
  <PHP></PHP>
  <NFlagClear></NFlagClear>
</PrefixSid>
<DatabaseFilter>
  <All></All>
  <Ase></Ase>
  <AseAclNumber></AseAclNumber>
  <Nssa></Nssa>
  <NssaAclNumber></NssaAclNumber>
  <Summary></Summary>
  <SummaryAclNumber></SummaryAclNumber>
</DatabaseFilter>
<MtuEnable></MtuEnable>
<PacketSize></PacketSize>
<PrefixSuppression></PrefixSuppression>
<TimerPoll></TimerPoll>
<TimerRetransmit></TimerRetransmit>
<TransDelay></TransDelay>
<TtlSecurity>
  <HopsCount></HopsCount>
  <Disable></Disable>
</TtlSecurity>
<IfName></IfName>
<PeerSubAddrEnable></PeerSubAddrEnable>
<PeerSubAddrSpecified></PeerSubAddrSpecified>
<CostAdjustTrack></CostAdjustTrack>
```

```
      <CostAdjustOffset></CostAdjustOffset>
      <VirtualSystem>
        <Enable></Enable>
        <RouterId></RouterId>
      </VirtualSystem>
      <Silent></Silent>
      <BfdAdjustCost></BfdAdjustCost>
      <BfdAdjustCostSuppress>
        <ResumeInterval></ResumeInterval>
        <DetectInterval></DetectInterval>
        <Threshold></Threshold>
      </BfdAdjustCostSuppress>
      <PeerHoldMaxCostDuration></PeerHoldMaxCostDuration>
    </Interface>
  </Interfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfEnable	Interface enable messages.	Data structure	Members include: • Name. • AreaId.	Interface configuration takes precedence, and OSPF enabled on the interface is better than the configuration of the network command.
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	N/A	String, dotted decimal notation.	N/A
ExcludedS	Whether to exclude	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ubIp	secondary IP addresses.		• **true**—Excludes secondary IP addresses. • **false**—Does not exclude secondary IP addresses.	
Cost	Interface cost.	N/A	Unsigned integer. Value range: • 0 to 65535 for loopback interfaces. • 1 to 65535 for other interfaces.	N/A
NetworkType	Interface network type.	N/A	Enumeration: • **1**—Broadcast. • **2**—NBMA. • **3**—P2P. • **4**—P2MP. • **5**—P2MP unicast. • **6**—P2P multicast.	N/A
HelloTimer	Hello interval.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeadTimer	Dead interval.	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SimpleAuth	Simple authentication messages.	Data structure	Members include: • SimplePwdType. • SimplePwd.	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time. The members must both be specified when SimplePwdType is not None.
SimplePwdType	Simple password type.	N/A	Enumeration: • 1—Ciphertext. • 2—Plaintext. • 3—None.	OSPF will use empty string to authenticate packets when SimplePwdType is None.
SimplePwd	Simple password.	N/A	String. Length: • 1 to 8 characters for plain password. • 33 to 41 characters for cipher password.	It will use empty string to authenticate packets when SimplePwdType is None.
NullAuth	Whether to use no authentication.	N/A	Boolean: • **true**—Use no authentication. • **false**—Do not use no authentication.	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time.
Keychain	Specify a keychain for	N/A	String: case sensitive. Length: 1 to 63 characters.	SimpleAuth, NullAuth, Keychain and IfMd5s are

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication.			mutually exclusive and cannot be set at the same time.
CurAuthType	Enabled authentication mode.	N/A	Enumeration: • **1**—Simple. • **2**—MD5. • **3**—HMAC-MD5. • 4—HMAC-SHA-256. • 5—HMAC-SM3. • 6—Keychain.	N/A
CurMd5KeyId	Last key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
State	Interface state.	N/A	Enumeration: • **0**—Down. • **1**—Waiting. • **2**—P-2-P. • **3**—DR. • **4**—BDR. • **5**—DROther. • **6**—Loopback**.**	N/A
BfdEnable	BFD is enabled for OSPF.	N/A	Enumeration: • **1**—Enable control packet mode. • **2**—Enable echo packet mode.	N/A
Frr	Fast reroute configuration.	Data structure	Members include: • PrimaryPathDetect. • LfaDisable. • TiLfaDisable. • RemoteLfaDisable.	N/A
PrimaryPathDetect	BFD session mode.	N/A	Enumeration: • **1**—Control-packet mode. • **2**—Echo-packet mode.	N/A
LfaDisable	Whether to disable LFA.	N/A	Boolean: • **true**—LFA is disabled. • **false**—LFA is enabled.	N/A
TilfaDisable	Whether to disable TI-LFA.	N/A	Boolean: • **true**—TI-LFA is disabled. • **false**—TI-LFA is enabled.	N/A
RemoteLfaDisable	Whether to disable remote-LFA.	N/A	Boolean: • **true**—Remote LFA is disabled. • **false**—Remote LFA is enabled.	N/A
PrefixSid	Prefix	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Segment ID messages.	structure	• SidName. • SidType. • Sid. • ExplicitNull. • NFlagClear.	
SidName	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SidType	The type of Prefix-SID	N/A	Enumeration: • **1**—Absolute value of Prefix-SID. • **2**—Index value of Prefix-SID.	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: • **true**—The upstream neighbor replaces the prefix SID with an explicit null label. • **false**—The upstream neighbor does not replace the prefix SID with an explicit null label.	N/A
PHP	Penultimate hop popping flag	N/A	Boolean: • **true**—Pops the penulimate hop. • **false**—Does not pop the penulimate hop.	N/A
NFlagClear	Whether to clear the N-flag	N/A	Boolean: • **true**—Clears the N-flag for the prefix SID. • **false**—Does not clear the N-flag for the prefix SID.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Database Filter	Filter outbound LSAs on the interface.	Data structure	Members include: • All. • Ase. • AseAclNumber. • Nssa. • NssaAclNumber • Summary • SummaryAclNumber	The set operation is subject to the last issuance.
All	Filters all LSAs except the Grace LSAs.	N/A	Boolean: • **true**—Filters all LSAs except the Grace LSAs.	This attribute cannot be configured simultaneously with Ase, AseAclNumber,

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Do not filters all LSAs except the Grace LSAs.	Nssa, NssaAclNumber, Summary and SummaryAclNumber attributes. Merge and create cannot issue false.
Ase	Filters Type-5 LSAs.	N/A	Boolean: • **true**—Filters Type-5 LSAs. • **false**—Do not filters Type-5 LSAs.	This attribute must be configured with the AseAclNumber attribute, and cannot be configured with the All attribute Merge and create cannot issue false.
AseAclNumber	Specifies an IPv4 ACL by its number in the range of 2000 to 3999.	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with Ase, and cannot be configured with the All attribute
Nssa	Filters Type-7 LSAs.	N/A	Boolean: • **true**—Filters Type-7 LSAs. • **false**—Do not filters Type-7 LSAs.	Must be configured with the NssaAclNumber attribute, not with the All attribute Merge and create cannot issue false..
NssaAclNumber	Specifies an IPv4 ACL by its number in the range of 2000 to 3999.	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with Nssa, and cannot be configured with the All attribute
Summary	Filters Type-3 LSAs.	N/A	Boolean: • **true**—Filters Type-3 LSAs. • **false**—Do not filters Type-3 LSAs.	Must be configured with the SummaryAclNumber attribute, not with the All attribute Merge and create cannot issue false.
SummaryAclNumber	Specifies an IPv4 ACL by its number in the range of 2000 to 3999.	N/A	Unsigned integer. Value range: 2000 to 3999.	This attribute must be configured with the Summary, and cannot be configured with the All attribute
MtuEnable	Enable the interface to add its MTU into DD packets.	N/A	Boolean: • **true**—Enable the interface to add its MTU into DD packets. • **false—**Disable the interface to add its MTU into DD packets.	N/A
PacketSize	Set the maximum length of OSPF packets that can be sent by an interface.	N/A	Unsigned integer. Value range: 500 to 10000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixSuppression	Enable prefix suppression for the OSPF process.	N/A	Enumeration: • **0**—Not configured, inherit the enablement of the process. • **1**—Enable prefix suppression on the interface. • **2—**Disable prefix suppression on the interface.	N/A
TimerPoll	Set the poll interval.	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
TimerRetransmit	Set the retransmission interval.	N/A	Unsigned integer. Value range: 1 to 3600.	N/A
TransDelay	Set the LSA transmission delay.	N/A	Unsigned integer. Value range: 1 to 3600.	N/A
TtlSecurity	Configure GTSM for the interface.	Data structure	Members include: • HopsCount. • Disable.	HopsCount and Disable cannot be delivered at the same time.
HopsCount	Enable GTSM for the interface.	N/A	Unsigned integer. Value range: 1 to 254.	The default value of HopsCount is 1 when configured, and the result of the empty value is 1.
Disable	Disable GTSM for the interface.	N/A	Boolean: • **true**—Disable GTSM for the interface. • **false—**Enable GTSM for the interface.	Disable GTSM for an interface when the following conditions exist: —The area to which the interface belongs is enabled with GTSM. —The neighbor of the interface does not support GTSM. Merge and create cannot issue false.
PeerSubAddrEnable	Establish OSPF neighbor adjacencies through the secondary IP address	N/A	Boolean: • **true**—Enable to establish OSPF neighbor adjacencies through the secondary IP address. • **false**—Unable to establish OSPF neighbor adjacencies through the secondary IP address.	PeerSubAddrEnable and PeerSubAddrSpecified are mutually exclusive.
PeerSubAddrSpecified	Establish OSPF neighbor adjacencies through the	N/A	IPv4 address string, dotted decimal notation.	PeerSubAddrEnable and PeerSubAddrSpecified are mutually exclusive.

Column name	Column description	Column type	Data type and restrictions	Remarks
	specified secondary IP address			
CostAdjustTrack	Associate a track entry for interface cost adjustment	N/A	Unsigned integer. Value range: 1 to 1024.	CostAdjustTrack and CostAdjustOffset must be set together.
CostAdjustOffset	Set the value to be added to the interface cost when the track status changes to Negative	N/A	Unsigned integer. Value range: 1 to 65535.	CostAdjustTrack and CostAdjustOffset must be set together. The value to be added to the interface cost is in the range of 1 to 65534. If you set the value for CostAdjustOffset to 65535, the interface will use the maximum interface cost when the track status changes to Negative.
VirtualSystem	Information about virtual system configuration.	Data structure	Members include: • Enable • RouterId	N/A
Enable	Whether to use virtual OSPF nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPF nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPF nodes for neighbor relationship establishment.	N/A
RouterId	Set a virtual OSPF router ID	N/A	String, dotted decimal notation.	N/A
Silent	Suppress routing updates on the interface	N/A	Enumeration: • **0**—Do not suppress routing updates on the interface. • **1**—Suppress routing updates on the interface.	N/A
BfdAdjustCost	Adjust the OSPF interface cost according to the BFD session state.	N/A	Enumeration: • **1~65534**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 65534 when the BFD session goes down. • **none**—Do not adjust cost (default).	N/A
BfdAdjustCostSuppr	Suppress OSPF	Data structure	Members include: • ResumeInterval.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ess	interface cost adjustment upon BFD session state changes.		• DetectInterval. • Threshold	
ResumeInterval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds.	N/A
DetectInterval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
Threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
PeerHoldMaxCostDuration	Advertise the maximum link cost to neighbors within the specified period of time	N/A	Unsigned integer. Value range: 100 to1000000 (milliseconds)	N/A

OSPF/IfMd5s

This table contains OSPF interface cryptographic authentication information.

XML structure

```
<OSPF>
  <IfMd5s>
    <Md5>
      <IfIndex></IfIndex>
      <KeyId></KeyId>
      <Md5Type></Md5Type>
      <PasswordType></PasswordType>
      <Password></Password>
      <IfName></IfName>
    </Md5>
  </IfMd5s>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	IfMd5s
Table type	Multi-instance table
Row name	Md5
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
KeyId	Key ID.	Index	Unsigned integer. Value range: 1 to 255.	OSPF will use empty string to authenticate packets when KeyId is empty.
Md5Type	Cryptographic authentication type.	N/A	Enumeration: • **1**—MD5. • **2**—HMAC-MD5. • **3**—HMAC-SHA-256. • **4**—HMAC-SM3.	N/A
PasswordType	Password type.	N/A	Enumeration: • **1**—Ciphertext. • **2**—Plaintext.	N/A
Password	Password.	N/A	String. Length: • 1 to 255 characters for MD5/HMAC-MD5/HMAC-SHA-256/HMAC-SM3 plain password. • 33 to 373 characters for MD5/HMAC-MD5/HMAC-SHA-256/HMAC-SM3 cipher password.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

OSPF/Neighbours

This table contains OSPF neighbour information.

XML structure

```
<OSPF>
  <Neighbours>
    <Nbr>
      <IfIndex></IfIndex>
      <NbrAddress></NbrAddress>
      <NbrRouterId></NbrRouterId>
      <Name></Name>
      <AreaId></AreaId>
      <DrPriority></DrPriority>
      <State></State>
      <IfName></IfName>
      <Mode></Mode>
      <UpTime></UpTime>
      <StateChangeCount></StateChangeCount>
      <Type></Type>
    </Nbr>
  </Neighbours>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Neighbours
Table type	Multi-instance table
Row name	Nbr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
NbrAddre	Neighbour	Index	String, dotted decimal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ss	IPv4 address.		notation.	
NbrRouterId	Neighbour router identifier.	N/A	String, dotted decimal notation.	N/A
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	N/A	String, dotted decimal notation.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
State	Neighbour state.	N/A	Enumeration: • **0**—Down. • **1**—Init. • **2**—Attempt. • **3**—2-way. • **4**—Exstart. • **5**—Exchange. • **6**—Loading. • **7**—Full.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Mode	Neighbour mode	N/A	Enumeration: • **0**—Master. • **1**—Slave. • **2**—None.	N/A
UpTime	Neighbour up time in seconds	N/A	Unsigned integer.	N/A
StateChangeCount	Count of neighbor state changes.	N/A	Unsigned integer.	N/A
Type	Neighbor identification method	N/A	Enumeration: • **1**—dynamic. **2**—permanent.	N/A

OSPF/Preferences

This table contains OSPF preference information.

XML structure

```
<OSPF>
  <Preferences>
```

```
    <Preference>
      <Name></Name>
      <TopoId></TopoId>
      <Type></Type>
      <Value></Value>
      <PolicyName></PolicyName>
    </Preference>
  </Preferences>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Preferences
Table type	Multi-instance table
Row name	Preference
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
Type	Route type.	Index	Enumeration: • **1**—AS internal route. • **2**—AS external route.	N/A
Value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	N/A

OSPF/AsbrSummarys

This table contains OSPF ASBR summary route information.

XML structure

```
<OSPF>
```

```
  <AsbrSummarys>
    <AsbrSummary>
      <Name></Name>
      <TopoId></TopoId>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <Cost></Cost>
      <NotAdvertise></NotAdvertise>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </AsbrSummary>
  </AsbrSummarys>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	AsbrSummarys
Table type	Multi-instance table
Row name	AsbrSummary
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127	N/A
Ipv4Address	IPv4 address.	Index	IPv4: String, dotted decimal notation.	N/A
Ipv4Mask	Mask of IP address	Index	Unsigned integer. Value range: 0 to 32.	N/A
Cost	Summary route cost.	N/A	Unsigned integer. Value range: 0 to 16777214.	If it is not configured, the largest cost among the summarized routes applies. If the routes in Type-5 LSAs translated from Type-7 LSAs are Type-2 external routes, the largest cost among the summarized routes

Column name	Column description	Column type	Data type and restrictions	Remarks
				plus 1 applies.
NotAdvertise	Does not advertise summary route.	N/A	Boolean: • **true—Does not** advertise summary route. • **false—**Advertises summary route.	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: • **true—**Limits summary routes to NSSA areas. • **false—Does not** limit summary routes to NSSA areas.	N/A
Tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	If it is not configured, the tag specified by the **default tag** command is used.

OSPF/StubRouters

This table contains OSPF stub router information.

XML structure

```
<OSPF>
  <StubRouters>
    <StubRouter>
      <Name></Name>
      <TopoId></TopoId>
      <ExternalLsa></ExternalLsa>
      <ExtMetric></ExtMetric>
      <IncludeStub></IncludeStub>
      <OnStartup>
      <WaitForBgp></WaitForBgp>
      <Seconds></Seconds>
      </OnStartup>
      <SummaryLsa></SummaryLsa>
      <SumMetric></SumMetric>
    </StubRouter>
  </StubRouters>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF

Item	Description
Table name	StubRouters
Table type	Multi-instance table
Row name	StubRouter
Restrictions	For the get or get-bulk operations, the data of the StubRouters table can be get only when the router is in stub state.
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
ExternalLsa	Configures the cost of external LSAs.	N/A	Boolean: • **true**—Specifies a cost for the external LSAs. • **false**—Does not specify a cost for the external LSAs.	N/A
ExtMetric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
IncludeStub	Sets the cost of the stub links.	N/A	Boolean: • **true**—Sets the cost of the stub links (link type 3) in Router LSAs to the maximum value 65535. • **false—**Does not set the cost of the stub links (link type 3) in Router LSAs.	N/A
OnStartup	Specifies the router as a stub router during reboot.	Data structure	Members include: • WaitForBgp. • Seconds.	N/A
WaitForBgp	Waits for BGP on startup.	N/A	Boolean: • **true**—Specifies the router as a stub router during BGP route convergence after reboot. • **false**—Does not specify the router as a stub router during BGP route convergence after reboot.	N/A
Seconds	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400.	N/A
SummaryLsa	Configures the cost of the summary	N/A	Boolean: • **true**—Specifies a cost for the Type-3 LSAs.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	LSAs.		• **false**—Does not specify a cost for the Type-3 LSAs.	
SumMetric	Cost of the summary LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A

OSPF/Nssas

This table contains OSPF NSSA area information.

XML structure

```
<OSPF>
  <Nssas>
    <Nssa>
      <Name></Name>
      <TopoId></TopoId>
      <AreaId></AreaId>
      <DefaultRouteAdvertiseCfg>
        <DefaultRouteAdvertise></DefaultRouteAdvertise>
        <Cost></Cost>
        <NssaOnly></NssaOnly>
        <PolicyName></PolicyName>
        <Type></Type>
      </DefaultRouteAdvertiseCfg>
      <NoImportRoute></NoImportRoute>
      <NoSummary></NoSummary>
      <SuppressFa></SuppressFa>
      <Translate></Translate>
      <TranslatorStabilityInterval></TranslatorStabilityInterval>
    </Nssa>
  </Nssas>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Nssas
Table type	Multi-instance table
Row name	Nssa
Restrictions	The row can be operated only when the AreaType of the corresponding area in the Areas table is configured as Nssa.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
DefaultRouteAdvertiseCfg	Default route advertisement messages.	Data structure	Members include: • DefaultRouteAdvertise. • Cost. • NssaOnly. • PolicyName. • Type.	N/A
DefaultRouteAdvertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: • **true**—Generates a Type-7 default into the NSSA area. • **false**—Does not generate a Type-7 default into the NSSA area.	N/A
Cost	Metric for default route.	N/A	Unsigned integer. Value range: 0 to 16777214.	Depends on the value specified by using the **default-cost** command and the default value of the **default-cost** command is 1.
NssaOnly	Whether to limit the default route advertisement to the NSSA area.	N/A	Boolean: • **true**—Limits the default route advertisement to the NSSA area. • **false**—Does not limit the default route advertisement to the NSSA area.	N/A
PolicyName	Specifies the routing policy to filter default route.	N/A	String. Length: 1 to 63 characters.	N/A
Type	Specifies a cost type for the Type-7 LSA.	N/A	Enumeration: • **1**—Type 1. • **2**—Type 2.	Depends on the value specified by using the **default type** command and the default value of the **default type** command is 2.
NoImportRoute	Whether to redistribute routes into the	N/A	Boolean: • **true**—Does not	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	NSSA area.		redistribute routes into the NSSA area. • **false**—Redistribute routes into the NSSA area.	
NoSummary	Whether to send summary LSA into the NSSA area.	N/A	Boolean: • **true**—Does not send summary LSA into the NSSA area. • **false**—Sends summary LSA into the NSSA area.	N/A
SuppressFa	Whether to suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A	Boolean: • **true**—Suppresses the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs. • **false**—Does not suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: • **1**—Always translates Type-7 LSAs to Type-5 LSAs. • **2**—Never translates Type-7 LSAs to Type-5 LSAs. • **3**—Ignores checking the backbone area. • **4**—Always translates Type-7 LSAs to Type-5 LSAs and ignores checking the backbone area.	N/A
TranslatorStabilityInterval	Specifies the stability interval of the translator.	N/A	Unsigned integer. Value range: 0 to 900.	N/A

OSPF/SilentAllInterfaces

This table contains all OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentAllInterfaces>
    <SilentAllInterface>
      <Name></Name>
      <SilentAll></SilentAll>
```

```
    </SilentAllInterface>
  </SilentAllInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
SilentAll	Whether to specify all interfaces	N/A	Boolean: • **true**—Specifies all interfaces. • **false**—Does not specify all interfaces.	N/A

OSPF/SilentInterfaces

This table contains OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentInterfaces>
    <SilentInterface>
      <Name></Name>
      <IfName></IfName>
      <Silent></Silent>
    </SilentInterface>
  </SilentInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentInterfaces
Table type	Multi-instance table
Row name	SilentInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Silent	Whether to specify the interface	N/A	Boolean: • **true**—Specifies the interface. • **false**—Does not specify the interface.	If SilentAll is true in the SilentAllInterfaces table, the SilentInterfaces table gets data or configuration about interfaces that are not silent. If SilentAll is false in the SilentAllInterfaces table, the SilentInterfaces table gets data or configuration about silent interfaces.

OSPF/SegmentRoutings

This table contains OSPF segment routing information.

XML structure

```
<OSPF>
  <SegmentRoutings>
    <SegmentRouting>
      <Name></Name>
      <MplsEnable></MplsEnable>
      <AdjacencyEnable></AdjacencyEnable>
```

```
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <EffectedSRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </EffectedSRGB>
      <SrPreferEnable></SrPreferEnable>
      <PrefixListName></PrefixListName>
      <SidMap>
        <AdvertiseLocal></AdvertiseLocal>
        <Receive></Receive>
      </SidMap>
      <LspTrigger>
        <Policy></Policy>
        <PrefixListName></PrefixListName>
      </LspTrigger>
      <MicroloopAvoid>
        <Enable></Enable>
        <RibUpdateDelay></RibUpdateDelay>
      </MicroloopAvoid>
    </SegmentRouting>
  </SegmentRoutings>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SegmentRoutings
Table type	Multi-instance table
Row name	SegmentRouting
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
MplsEnable	Whether to enable MPLS SR.	N/A	Boolean: • **true**—Enables MPLS SR. • **false—**Does not enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			MPLS SR.	
AdjacencyEnable	Whether to enable adjacency label allocation.	N/A	Boolean: • **true**—Enables adjacency label allocation. • **false—**Does not enable adjacency label allocation.	N/A
SRGB	Specifies range of SRGB.	Data structure	Members include: • Lowerbound. • Upperbound.	N/A
Lowerbound	Min value of SRGB.	N/A	Unsigned integer. Value range: 16000 to 23999.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer. Value range: 16001 to 24000.	N/A
EffectedSRGB	Specifies range of SRGB.	Data structure	Members include: • Lowerbound. • Upperbound.	N/A
Lowerbound	Min value of SRGB.	N/A	Unsigned integer.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer.	N/A
SrPreferEnable	Whether to enable SR label preference.	N/A	Boolean: • **true**—Enables SR label preference. • **false—**Does not enable SR label preference.	N/A
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	N/A
SidMap	Configure prefix-SID mapping.	Data structure	Members include: • AdvertiseLocal. • Receive.	N/A
AdvertiseLocal	Whether to advertise local prefix-SID mappings.	N/A	Boolean: • **true**—Advertise local prefix-SID mappings. • **false**—Does not advertise local prefix-SID mappings.	N/A
Receive	Whether to receive prefix-SID mappings.	N/A	Boolean: • **true**—Receives prefix-SID mappings. • **false**—Does not receive prefix-SID mappings.	N/A
LspTrigger	Configure the SRLSP establishment triggering policy.	Data structure	Members include: • Policy. • PrefixListName.	N/A
Policy	SRLSP establishment triggering policy.	N/A	Enumeration: • **0**—Allows all FECs. • **1**—Allows host FECs.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Allows no FECs. • **3**—Allows FECs permitted by a prefix list.	
PrefixListName	Prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
MicroloopAvoid	Microloop-avoidance information for OSPF SR.	Data structure	Members include: • Enable. • RibUpdateDelay.	N/A
Enable	Enable microloop-avoidance.	N/A	Boolean: • **true**—Enable microloop-avoidance. • **false**—Disable microloop-avoidance.	N/A
RibUpdateDelay	The microloop-avoidance RIB-update-delay time.	N/A	Unsigned integer. Value range 1 to 60000.	N/A

OSPF/DistributeBgplses

This table contains information about OSPF link state advertisement to BGP.

XML structure

```
<OSPF>
  <DistributeBgplses>
    <DistributeBgpls>
      <Name></Name>
      <TopoId></TopoId>
      <InstanceId></InstanceId>
      <StrictLinkCheck></StrictLinkCheck>
    </DistributeBgpls>
  </DistributeBgplses>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	DistributeBgplses
Table type	Multi-instance table
Row name	DistributeBgpls
Restrictions	None

Item	Description
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
InstanceId	Instance ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
StrictLinkCheck	Whether to enable strict link checking.	N/A	Boolean: • **true**—Enables strict link checking. • **false**—Does not enable strict link checking.	N/A

OSPF/FilterPolicyExports

This table contains information about OSPF route redistribution filter.

XML structure

```
<OSPF>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <TopoId></TopoId>
      <ProtocolExport></ProtocolExport>
      <InstanceNameExport></InstanceNameExport>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
    </FilterPolicyExport>
  </FilterPolicyExports>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FilterPolicyExports

Item	Description
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127	Only 0 is supported currently.
ProtocolExport	Protocol type.	Index	Enumeration: • **0**—All. • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6—**BGP. • **7—**EIGRP. • **8—**Guard. • **9—**UNR.	N/A
InstanceNameExport	Instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the ProtocolExport column is Direct, Static, BGP, UNR, or All.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of AclNum and PrefixListName at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	You can only set one of AclNum and PrefixListName at the same time.

OSPF/FilterPolicyImports

This table contains information about OSPF incoming route filter.

XML structure

```
<OSPF>
  <FilterPolicyImports>
    <FilterPolicyImport>
      <Name></Name>
      <TopoId></TopoId>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
      <Gateway></Gateway>
      <RoutePolicyName></RoutePolicyName>
    </FilterPolicyImport>
  </FilterPolicyImports>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FilterPolicyImports
Table type	Multi-instance table
Row name	FilterPolicyImport
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or

Column name	Column description	Column type	Data type and restrictions	Remarks
				create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
TopoId	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127	Only 0 is supported currently.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of AclNum, PrefixListName and RoutePolicyName at the same time.
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	You can only set one of AclNum, PrefixListName and RoutePolicyName at the same time.
Gateway	Name of the gateway.	N/A	String. Length: 1 to 63 characters.	You can only set one of Gateway and RoutePolicyName at the same time.
RoutePolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	You cannot set AclNum, PrefixListName, or Gateway when setting RoutePolicyName.

OSPF/FRRs

This table contains OSPF FRR information.

XML structure

```
<OSPF>
  <FRRs>
    <FRR>
      <Name></Name>
      <Enable></Enable>
      <AbrOnly></AbrOnly>
      <RoutePolicy></RoutePolicy>
      <RemoteLfa>
```

```
        <Enable></Enable>
        <MaxCost></MaxCost>
        <PrefixList></PrefixList>
      </RemoteLfa>
      <TiLfa>
        <Enable></Enable>
        <PerPrefix></PerPrefix>
        <Host></Host>
        <RoutePolicy></RoutePolicy>
      </TiLfa>
      <MicroloopAvoid>
        <Enable></Enable>
        <RibUpdateDelay></RibUpdateDelay>
      </MicroloopAvoid>
      <TieBreaker>
        <LowestCostPref></LowestCostPref>
        <NodeProtectPref></NodeProtectPref>
        <SrlgDisjointPref></SrlgDisjointPref>
      </TieBreaker>
    </FRR>
  </FRRs>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	FRRs
Table type	Multi-instance table
Row name	FRR
Restrictions	None
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create FRRs for it. It must be an unsigned integer in the range of 1 to 65535.
Enable	Enable OSPF Loop-Free	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Alternate FRR.		• **true**—Enable FRR. • **false**—Does not enable FRR.	
AbrOnly	Uses the next hop of the route to the ABR as the backup next hop.	N/A	Boolean: • **true**—Only the next hops of the route to the ABR are used as the backup next hop. • **false**—All next hops can be used as the backup next hop.	N/A
RoutePolicy	Uses a routing policy to designate a backup next hop.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
RemoteLfa	OSPF remote Loop-Free Alternate FRR.	Data structure	Members include: • Enable. • MaxCost. • PrefixList.	N/A
Enable	Enable OSPF remote LFA FRR.	N/A	Boolean: • **true**—Enable remote LFA FRR. • **false**—Does not enable remote LFA FRR.	N/A
MaxCost	Set the maximum cost from the source node of a protected link to a PQ node.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
PrefixList	Specify a prefix list to filter remote LFA PQ nodes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
TiLfa	OSPF topology independent Loop-Free Alternate FRR.	Data structure	Members include: • Enable. • PerPrefix. • Host. • RoutePolicy.	N/A
Enable	Enable OSPF TI-LFA FRR.	N/A	Boolean: • **true**—Enable TI-LFA FRR. • **false**—Does not enable TI-LFA FRR.	N/A
PerPrefix	Per-prefix calculation.	N/A	Boolean: • **true**—Calculates backup information for each advertising source of a route. • **false**—Calculates backup information for each route.	N/A
Host	Enable TI-LFA for host routes.	N/A	Boolean: • **true**—Enable TI-LFA for	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			host routes. • **false**—Does not enable TI-LFA for host routes.	
RoutePolicy	Enable TI-LFA FRR for prefixes identified by the routing policy.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
MicroloopAvoid	FRR microloop avoidance.	Data structure	Members include: • Enable. • RibUpdateDelay.	N/A
Enable	Enable FRR microloop avoidance.	N/A	Boolean: • **true**—Enable FRR microloop avoidance. • **false**—Does not enable SR microloop avoidance.	N/A
RibUpdateDelay	Set the FRR microloop avoidance RIB-update-delay time.	N/A	Unsigned integer, in milliseconds. Value range: 1 to 60000.	N/A
TieBreaker	Set the priority for the node-protection or lowest-cost backup path selection policy.	Data structure	Members include: • LowestCostPref. • NodeProtectPref. • SrlgDisjointPref.	N/A
LowestCostPref	Set a priority value for the lowest-cost backup path selection policy.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
NodeProtectPref	Set a priority value for the node-protection backup path selection policy.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
SrlgDisjointPref	Set a priority value for the Shared Risk Link Group selection policy.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

OSPF/AdjSids

This table contains OSPF adjacency-SID information.

XML structure

```
<OSPF>
  <AdjSids>
```

```
    <AdjSid>
      <IfIndex></IfIndex>
      <Nexthop></Nexthop>
      <SidType></SidType>
      <Sid></Sid>
      <IfName></IfName>
    </AdjSid>
  </AdjSids>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	AdjSids
Table type	Multi-instance table
Row name	AdjSid
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Nexthop	Nexthop IPv4 address.	Index	String, dotted decimal notation.	This parameter applies only to broadcast interfaces. 0.0.0.0 is an invalid value which is used on P2P interfaces.
SidType	The type of prefix SID	N/A	Enumeration: • **1**—Absolute value of prefix SID. • **2**—Index value of prefix SID.	This command must be specified.
Sid	Prefix segment ID	N/A	Unsigned integer.	This command must be specified.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

OSPF/GlobalStatistics

This table contains OSPF global statistics.

XML structure

```
<OSPF>
  <GlobalStatistics>
    <GlobalStatistic>
      <PeerDropFromFull></PeerDropFromFull>
    </GlobalStatistic>
  </GlobalStatistics>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	GlobalStatistics
Table type	Multi-instance table
Row name	GlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerDropFromFull	Statistics about neighbour state changes from Full	N/A	Unsigned integer.	N/A

Contents

OSPF 2
OSPF/Instances 2
OSPF/Redistributes 5
OSPF/Areas 6
OSPF/Interfaces 7
OSPF/Networks 10
OSPF/IfMd5s 11
OSPF/Neighbours 11
OSPF/Preferences 12
OSPF/AsbrSummarys 12
OSPF/StubRouters 13
OSPF/Nssas 13
OSPF/SilentAllInterfaces 14
OSPF/SilentInterfaces 15
OSPF/SegmentRoutings 15
OSPF/DistributeBgplses 16
OSPF/FilterPolicyExports 17
OSPF/FilterPolicyImports 17
OSPF/FRRs 18
OSPF/AdjSids 18

OSPF

OSPF/Instances

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The specified VRF doesn't exist. 指定的VRF不存在。	The specified VRF doesn't exist, when set configuration. 配置时，指定的VRF不存在
The instance is already associated with another VRF. OSPF实例ID已经存在于另一个VRF实例。	The OSPF process has been configured with another VRF. OSPF进程已经配置在另一个VRF实例中。
The specified VRF is deleting. 指定VRF正在被删除。	The specified VRF is deleting, when set configuration. 配置时，指定VRF正在被删除。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
Invalid router ID. 无效的Router ID。	The router ID is invalid. Router ID配置不正确。
The router does not support NSR. 该设备不支持NSR。	The router does not support NSR. 该设备不支持NSR。
Can't configure NSR when GR configuration is present. 路由器已经使能GR，不允许配置NSR。	Can't configure NSR when GR configuration is present. 路由器已经使能GR，不允许配置NSR。
The command applies only to an OSPF process of the specified VPN instance. 只有VPN实例下的OSPF进程才允许执行本操作。	The command applies only to an OSPF process of the specified VPN instance. 只有VPN实例下的OSPF进程才允许执行本操作。。
The configuration is not allowed in current VSYS. Please try other interfaces or OSPF processes. 当前VSYS无法完成该配置，请尝试在其他接口或OSPF进程下执行该配置。	The specified OSPF does not belong to this VSYS, or the interface is allocated to other VSYS. 指定的OSPF进程或者接口不属于该VSYS。
The VPN instance has already been bound with VSYS.	Please specify another VPN instance or do not specify VPN instance.

VPN实例已经与其他VSYS绑定。	请指定该VSYS绑定的VPN实例或者请不要指定VPN实例。
The Cost attribute column cannot be specified when the CfgType attribute column is 0. 当CfgType属性值为0时，不能指定Cost属性列。	The Cost attribute column cannot be specified when the CfgType attribute column is “Disbale”. Set操作时，当CfgType属性值为Disbale时，不能指定Cost属性列。
The Cost attribute column is required and the value cannot be default when the CfgType attribute column is 4. 当CfgType属性值为4时，必须指定Cost属性列，且Cost属性值不能为default。	The Cost attribute column is required and the value cannot be default when the CfgType attribute column is “Summary”. 当CfgType属性值为Summary时，必须指定Cost属性列，且Cost属性值不能为default。
The PolicyName attribute column cannot be specified when the CfgType attribute column is 0 or 4. 当CfgType属性值为0或4时，不能指定PolicyName属性列。	The PolicyName attribute column cannot be specified when the CfgType attribute column is “Disable” or “Summary”. Set操作时，当CfgType属性值为Disbale或Summary时，不能指定PolicyName属性列。
The Type attribute column cannot be specified when the CfgType attribute column is 0 or 4. 当CfgType属性值为0或4时，不能指定Type属性列。	The Type attribute column cannot be specified when the CfgType attribute column is “Disable” or “Summary”. Set操作时，当CfgType属性值为Disbale或Summary时，不能指定Type属性列。
The maximum time interval should not be less than the minimum time interval. 最大时间间隔应当不小于最小时间间隔。	OSPFv3 Minimum interval should be not greater than maximum interval. OSPFv3协议最小时间不应当大于最大时间。
The maximum time interval should not be less than the penalty time interval. 最大时间间隔应当不小于惩罚时间间隔。	OSPFv3 Incremental interval should be not greater than maximum interval. OSPFv3协议惩罚时间不应当大于最大时间。
The fixed time interval cannot be configured at the same time as the maximum time interval, minimum time interval, penalty time, and whether to configure according to the maximum time interval. 固定时间间隔不能和最大时间间隔，最小时间间隔，惩罚时间，及是否按最大时间间隔配置同时配置。	Msecintvl and maximum, minimum, incremental, bconservative are mutually exclusive. 固定时间间隔和最大时间间隔，最小时间间隔，惩罚时间，及是否按最大时间间隔配置不能同时配置。
Conservite can be delivered only when the maximum time interval, minimum time interval, and penalty time interval are all set. Conservite只有在最大时间间隔，最小时间间隔和惩罚时间间隔都设置时才能下发。	Conservite can be set only when the maximum time interval, minimum time interval and penalty time interval are all set. 当最大时间间隔，最小时间间隔和惩罚时间间隔都设置时才能下发Conservite。
The attribute columns of Spf-schedule need to be configured in sequence. Spf-schedule的属性列需要依次配置。	Need to be configured in the order of maximum, minimum, incremental, conservative. 需要依照maximum，minimum，incremental，conservative顺序配置。
不能单独删除Spf-schedule的属性列。 Cannot delete the attribute column of Spf-schedule alone.	The attribute columns of attribute group Spf-schedule must be deleted at the same time. 属性组Spf-schedule的属性列必须同时删除。
轻量级OSPF进程不能修改为普通OSPF进程。 Lite OSPF process cannot be modified to a normal OSPF process.	轻量级进程已存在，不能配置为普通进程。 The lite OSPF process already exists，the process cannot be modified to a normal OSPF process.
普通OSPF进程不能修改为轻量级OSPF进程。 Normal OSPF process cannot be modified to a lite OSPF process.	普通进程已存在，不能重复配置轻量级进程。 The normal OSPF process already exists，the process cannot be modified to a lite OSPF process.

只有在非缺省vSystem下支持该配置。 The column is only supported in non-default vSystem.	该属性列只有在非缺省vSystem下支持操作 The attribute columns is only supported in non-default vSystem.
OSPF Minimum interval should not be greater than maximum interval. OSPF协议最小时间不应当大于最大时间。	OSPF Minimum interval should not be greater than maximum interval. OSPF协议最小时间不应当大于最大时间。
OSPF Incremental interval should not be greater than maximum interval. OSPF协议惩罚时间不应当大于最大时间。	OSPF Incremental interval should not be greater than maximum interval. OSPF协议惩罚时间不应当大于最大时间。
RouteTagCheck属性列不支持在公网下配置。 The RouteTagCheck column cannot configured in public network.	RouteTagCheck属性列不支持在公网下配置。 The RouteTagCheck column cannot configured in public network.
DnBitCheckSummary属性列不支持在公网下配置。 The DnBitCheckSummary column cannot configured in public network.	DnBitCheckSummary属性列不支持在公网下配置。 The DnBitCheckSummary column cannot configured in public network.
DnBitCheckAse属性列不支持在公网下配置。 The DnBitCheckAse column cannot configured in public network.	DnBitCheckAse属性列不支持在公网下配置。 The DnBitCheckAse column cannot configured in public network.
DnBitCheckNssa属性列不支持在公网下配置。 The DnBitCheckNssa column cannot configured in public network.	DnBitCheckNssa属性列不支持在公网下配置。 The DnBitCheckNssa column cannot configured in public network.
DnBitSetSummary属性列不支持在公网下配置。 The DnBitSetSummary column cannot configured in public network.	DnBitSetSummary属性列不支持在公网下配置。 The DnBitSetSummary column cannot configured in public network.
DnBitSetAse属性列不支持在公网下配置。 The DnBitSetAse column cannot configured in public network.	DnBitSetAse属性列不支持在公网下配置。 The DnBitSetAse column cannot configured in public network.
DnBitSetNssa属性列不支持在公网下配置。 The DnBitSetNssa column cannot configured in public network.	DnBitSetNssa属性列不支持在公网下配置。 The DnBitSetNssa column cannot configured in public network.
The maximum attribute column is required. 需要补齐maximum属性列。	The maximum attribute column is required. 需要补齐maximum属性列。
The minimum attribute column is required. 需要补齐minimum属性列。	The minimum attribute column is required. 需要补齐minimum属性列。
The incremental attribute column is required. 需要补齐incremental属性列。	The incremental attribute column is required. 需要补齐incremental属性列。
Minimum interval should not be greater than maximum interval. minimum 属性列值不应该大于maximum 属性列值。	Minimum interval should not be greater than maximum interval. minimum 属性列值不应该大于maximum 属性列值。
Incremental interval should not be greater than maximum interval incremental 属性列值不应该大于maximum 属性列值。	Incremental interval should not be greater than maximum interval incremental 属性列值不应该大于maximum 属性列值。

OSPF/Redistributes

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, 6, or 9 当Protocol属性值为1、2、6或9时，RedistName属性列必须为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1,2,6,or 9, when set configuration. Set操作时，direct/static/bgp/unr协议不能带RedistName参数。
RedistName attribute column is required when the value of Protocol attribute column is 3,4,5 or 7. 当Protocol属性值为3、4、5或7时，RedistName属性列不能为空。	RedistName attribute column is required when the value of Protocol attribute column is 3,4,5 or 7, when set configuration. Set操作时，rip/ospf/isis/eigrp协议必须带RedistName参数。
Import isn’t allowed within the same instance. 不允许引入OSPF的当前实例	Can’t import the same process. 不能引入自己的进程ID。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
AllowIBGP column is configurable only when the protocol is BGP. 只有引入BGP协议的路由时，才可以配置AllowIBGP。	Allow-ibgp column is configurable only when the protocol is BGP. 非BGP协议不能配置AllowIBGP。
RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, or 8. 当Protocol属性值为1、2或8时，RedistName属性列必须为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, or 8. Set操作时，direct/static/guard协议不能带RedistName参数。
The value of RedistName column must be ‘all’ or an unsigned integer in the range of 1 to 65535 when the value of protocol column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName列的值必须为’all’ 或者1到65535之间的整数。	The value of RedistName column must be ‘all’ or an unsigned integer in the range of 1 to 65535 when the value of protocol column is 3, 4, 5, or 7. 对于RIP、OSPF、ISIS、EIGRP协议，RedistName列的值必须为’all’ 或者1到65535之间的整数。
RedistName can't configure route to other processes while this protocol has redistributed all processes. 当该协议已经配置引入所有进程路由时，则不能再配置引入该协议其他进程路由。	RedistName can't configure route to other processes while this protocol has redistributed all processes. Set操作时，当该协议已经配置引入所有进程路由时，则不能再配置引入该协议其他进程路由。

The Cost attribute column cannot be specified when the InheritCost attribute column set to true. 当InheritCost属性值为true时，不能指定Cost属性列。	The Cost attribute column cannot be specified when the InheritCost attribute column set to true. 当InheritCost属性值为true时，不能指定Cost属性列。
The Cost attribute column cannot be specified with InheritCost attribute column at same time when unset configuration. 当下发unset操作时，InheritCost属性列和Cost属性列不允许被同时配置。	The Cost attribute column cannot be specified with InheritCost attribute column at same time when unset configuration. 当下发unset操作时，InheritCost属性列和Cost属性列不允许被同时配置。
RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2 , or 9 当Protocol属性值为1、2或9时，RedistName属性列必须为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1,2,or 9, when set configuration. Set操作时，direct/static/unr协议不能带RedistName参数。
The value of RedistName column must be empty or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is 6. 对于BGP协议，RedistName列的值必须为空或者1到4294967295之间的整数。	The value of RedistName column must be empty or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is 6. 对于BGP协议，RedistName列的值必须为空或者1到4294967295之间的整数。

OSPF/Areas

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
Can't remove the backbone area when virtual links exist in the backbone area. OSPF骨干区存在虚连接配置。	Virtual link exists in the backbone, backbone cannot be removed. 如果进程下区域存在vlink配置则不允许删除骨干区。
The area doesn't exist. 区域不存在。	No such area. 没有此区域。

The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
The area must be a stub area. 当前区域不是Stub区域。	The area must be a stub area. 区域不是stub，则不许配置。
B64分支： Can't configure the backbone area as a stub area or totally stub area. 骨干区域不能配置成Stub区域或Totally Stub区域。 其他分支： The stub option is invalid for the backbone area. 骨干区不允许配置stub区域。	Stub option invalid for backbone. 骨干区不允许配置stub。
The area is already configured with a virtual link. Remove the virtual link first. 当前区域配置了虚连接，请先删除虚连接。	The area which is already configured with a virtual link cannot configured stub. 配置vlink区域不允许配置stub。
The area is already configured as an NSSA area. 当前为NSSA区域，不支持配置stub区域。	The area which is already configured with nssa cannot configured stub. Nssa区域不能配置stub。
B64分支： Can't configure the backbone area as an NSSA area or totally NSSA area. 骨干区域不能配置成NSSA区域或Totally NSSA区域。 其他分支： The nssa option is invalid for the backbone area. 骨干区不允许配置nssa区域。	Nssa option invalid for backbone. 骨干区不允许配置nssa。
The area must be an nssa area. 当前区域不是nssa区域。	The area must be an nssa area. 区域不是nssa，则不许配置。
The area is already configured as a stub area. 当前为stub区域，不支持配置nssa区域。	The area which is already configured with stub cannot configured nssa. stub区域不能配置nssa。

OSPF/Interfaces

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Name attribute column is required. 需要补齐Name属性列。	Process name is required. 缺少进程名称参数。
AreaId attribute column is required. 需要补齐AreaId属性列。	Area ID is required. 缺少区域ID参数。
Name and AreaId attribute columns are required. 需要补齐Name和AreaId属性列。	The interface doesn’t enable ospf. 接口没有使能ospf。
Not support Segment Routing configurations.	Segment Routing doesn’t support.

不支持SR相关配置。	不支持SR相关配置。
SidName and SidType attribute columns are required. 需要补齐SidName和SidType属性列。	Wrong configuration. 配置错误。
SidType and Sid attribute columns are required. 需要补齐SidType和Sid属性列。	Wrong configuration. 配置错误。
SidName and Sid attribute columns are required. 需要补齐SidName和Sid属性列。	Wrong configuration. 配置错误。
SidType attribute column is required. 需要补齐SidType属性列。	Wrong configuration. 配置错误。
SidName attribute column is required. 需要补齐SidName属性列。	Wrong configuration. 配置错误。
Sid attribute column is required. 需要补齐Sid属性列。	Wrong configuration. 配置错误。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
Another process is enabled in the current interface. 该接口已经使能其他进程，不能进行配置。	Another process is enabled in the current interface. 该接口已经使能其他进程。
The Sid is out of the SRGB range. Sid配置不合法.它的值应该在SRGB范围内。	The Sid is out of the SRGB range. Sid配置的值在SRGB范围外。
The Sid already exists. Sid配置冲突, 该Sid已存在。	The Sid already exists. 该Sid已存在。
Can't set the OSPF cost of a non-loopback interface to 0. 非LoopBack接口不允许配置OSPF的开销值为0。	Can't set the OSPF cost of a non-loopback interface to 0. 非LoopBack接口不允许配置OSPF的开销值为0。
Not support BFD. 不支持BFD。	BFD is not supported. 不支持BFD。
SimpleAuth can't be specified when NullAuth is true. 不进行验证配置与认证配置不能共存。	SimpleAuth can't be specified when NullAuth is true. 不进行验证配置与认证配置不能共存。
ExplicitNull and PHP attribute column cannot be configured at the same time.	ExplicitNull and PHP attribute column cannot be configured at the same time.

ExplicitNull和PHP属性列不允许同时进行配置。	当进行set操作时，ExplicitNull和PHP属性列不允许同时进行配置。
The configuration is not supported. 不支持相关配置。	The configuration is not supported. 不支持相关配置。
The configuration is not allowed in current VSYS. Please try other interfaces or OSPF processes. 当前VSYS无法完成该配置，请尝试在其他接口或OSPF进程下执行该配置。	The specified OSPF does not belong to this VSYS, or the interface is allocated to other VSYS. 指定的OSPF进程或者接口不属于该VSYS。
Summary,SummaryAclNum, Ase,AseAclNum, Nssa,NssaAclNum cannot be configured with all. Merge时Ase,AseAclNum,Nssa,NssaAclNum,Summary,SummaryAclNum不能和All一起下发。	Summary,SummaryAclNum, Ase,AseAclNum, Nssa,NssaAclNum cannot be configured with all. Merge时Ase,AseAclNum,Nssa,NssaAclNum,Summary,SummaryAclNum不能和All一起下发。
Every attribute must exist in group database-filter when delete and remove. 对databasefilter组进行Delete或Remove时，必须指定全部属性列。	Every attribute must exist in group database-filter when delete and remove. 对databasefilter组进行Delete或Remove时，必须指定全部属性列。
Cannot issue conflicting configurations when merge. Merge不能下发冲突配置。	Cannot issue conflicting configurations when merge. Merge不能下发冲突配置。
Cannot configure AclNum separately. 不能单独下发AclNum。	Cannot configure AclNum separately. 不能单独下发AclNum。
When merge or create, all, ase, nssa, summary and disable must be configured to true. Merge和create时,all,ase,nssa,summary和disable只能赋值为true。	When merge or create, all, ase, nssa, summary and disable must be configured to true. Merge和create时,all,ase,nssa,summary和disable只能赋值为true。
HopsCount and Disable cannot be configured at the same time. HopsCount和Disable不能同时下发。	HopsCount and Disable cannot be configured at the same time. HopsCount和Disable不能同时下发。
PeerSubAddrEnable and PeerSubAddrSpecified cannot be configured at the same time. PeerSubAddrEnable和PeerSubAddrSpecified不能同时下发。	PeerSubAddrEnable and PeerSubAddrSpecified cannot be configured at the same time. PeerSubAddrEnable和PeerSubAddrSpecified不能同时下发。
CostAdjustTrack and CostAdjustOffset must be configured together. 必须同时配置CostAdjustTrack和CostAdjustOffset。	CostAdjustTrack and CostAdjustOffset must be configured together. 必须同时配置CostAdjustTrack和CostAdjustOffset。
Enable attribute column is required and must be true. 必须包含Enable属性列，且该属性列必须设置为true。	Enable attribute column is required and must be true. 必须包含Enable属性列，且该属性列必须设置为true。
RouterId attribute column is required. 必须包含RouterId属性列。	RouterId attribute column is required. 必须包含RouterId属性列。
Can't set RouterId when Enable attribute column configuration is false. 当Enable属性列设置为false时，不允许指定RouterId属性列。	Can't set RouterId when Enable attribute column configuration is false. 当Enable属性列设置为false时，不允许指定RouterId属性列。
Configuration failed. Virtual nodes created on	Configuration failed. Virtual nodes created on interfaces of the

interfaces of the same node cannot use the same router ID. 配置失败，与本节点上其他虚拟节点的Router ID冲突。	same node cannot use the same router ID. 配置失败，与本节点上其他虚拟节点的Router ID冲突。
OSPF Invalid router ID. 无效的Router ID。	OSPF Invalid router ID. 无效的Router ID。
SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time. 不能同时配置SimpleAuth, NullAuth, Keychain和IfMd5s。	SimpleAuth, NullAuth, Keychain and IfMd5s are mutually exclusive and cannot be set at the same time. 不能同时配置SimpleAuth, NullAuth, Keychain和IfMd5s。

OSPF/Networks

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
WildcardMask attribute column is required. 需要补齐WildcardMask属性列。	WildcardMask attribute column is required. 获取子网掩码，必须制定掩码。
The network mask isn't contiguous. 网络掩码不连续。	The network mask is wrong. 网络掩码不对。
Network mask doesn't match network address. 网络掩码和当前网络地址不匹配。	The network mask is wrong. 网络掩码不对。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The area doesn't exist. 区域不存在。	No such area. 没有此区域。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
Network addresses of Class D and Class E in the format of 127.*.*.* are not allowed.	The network address is invalid.

127.*.*.*形式的D类、E类地址不允许配置。	网段不合法。
The network is already set in this instance. 指定网段已在当前实例使能。	The network is already set. 已在本进程使能。
The network is already set in another instance. 指定网段已在其他实例使能。	The network is already set in another process. 已在其他进程使能。
The network overlaps with the previously configured network. 网段配置重叠。	Network is duplicated or is the subset of the previous entry. 不允许配置的网段出现重叠。
Operation not supported. 不支持该操作。	WildcardMask doesn’t support delete and remove. 子网掩码不支持delete、remove操作。

OSPF/IfMd5s

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Operation not supported. 不支持该操作。	Not support operate object without attribute. 不支持操作不带属性的对象。
The interface doesn't exist. 接口不存在。	The interface doesn't exist. 接口不存在。
Md5Type attribute column is required. 需要补齐Md5Type属性列。	Wrong configuration. 配置错误。
PasswordType attribute column is required. 需要补齐PasswordType属性列。	Wrong configuration. 配置错误。
Password attribute column is required. 需要补齐Password属性列	Wrong configuration. 配置错误。
Invalid OSPF authentication password. OSPF认证密码不合法。	Wrong configuration. 配置错误。
The specified authentication mode is not supported. 不支持指定的认证模式。	The specified authentication mode is not supported. 不支持指定的认证模式。
The specified key already exists. 指定的key已存在	The specified key already exists. 指定的key已存在

OSPF/Neighbours

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。

OSPF/Preferences

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。

OSPF/AsbrSummarys

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
Can't configure a summary route as a default route on an ASBR. 聚合路由不能配置为缺省路由。	Wrong configuration. 配置错误。
无效的聚合地址。 Invalid summary address.	Wrong configuration. 配置错误。
Invalid network mask.	Wrong configuration.

无效的网络掩码。	配置错误。
The network mask isn't contiguous. 网络掩码不连续。	Wrong configuration. 配置错误。

OSPF/StubRouters

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
ExternalLsa attribute column is required and must be set to true. ExternalLsa属性列需要赋值为true。	Wrong configuration. 配置错误。
SummaryLsa attribute column is required and must be set to true. SummaryLsa属性列需要赋值为true。	Wrong configuration. 配置错误。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。

OSPF/Nssas

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
DefaultRouteAdvertise attribute column is required and must be set to true. DefaultRouteAdvertise属性列需要赋值为true。	Wrong configuration. 配置错误。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。

The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
The area doesn’t exist. 区域不存在。	No such area. 没有此区域。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
The area is already configured as an NSSA area. 当前为NSSA区域，不支持配置stub区域。	The area which is already configured with nssa cannot configured stub. Nssa区域不能配置stub。
The nssa option is invalid for the backbone area. 骨干区不允许配置nssa区域。	Nssa option invalid for backbone. 骨干区不允许配置nssa。
The area must be an nssa area. 当前区域不是nssa区域。	The area must be an nssa area. 区域不是nssa，则不许配置。
The area is already configured as a stub area. 当前为stub区域，不支持配置nssa区域。	The area which is already configured with stub cannot configured nssa. stub区域不能配置nssa。

OSPF/SilentAllInterfaces

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover.	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。

路由器正在主备进程倒换不能进行配置。	
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。

OSPF/SilentInterfaces

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。

OSPF/SegmentRoutings

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Not support Segment Routing configurations. 不支持SR相关配置。	Segment Routing doesn't support. 不支持SR相关配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart.	The router is performing Graceful Restart or normal restart, when set configuration.

路由器正在平滑或正在重启。	配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
Opaque-Capability is not enabled. Opaque-Capability 未使能。	Opaque-Capability is not enabled. Opaque-Capability 未使能。
The maximum value must be greater than the minimum value. 最大值一定要大于最小值。	Wrong configuration. 配置错误。
The SRGB is invalid. It must contain the configured prefix SIDs. SRGB配置不合法.它的配置范围应该包含已配置的前缀标签值。	Wrong configuration. 配置错误。
Lowerbound attribute column is required. 需要补齐Lowerbound属性列。	Wrong configuration. 配置错误。
Upperbound attribute column is required. 需要补齐Lowerbound属性列。	Wrong configuration. 配置错误。
The value of Lowerbound is invalid.The value must be in %u to %u. Lowerbound的值非法，该值有效范围是%u - %u。	Wrong configuration. 配置错误。
The value of Upperbound is invalid.The value must be in %u to %u. Upperbound的值非法，该值有效范围是%u - %u。	Wrong configuration. 配置错误。
SrPreferEnable属性列需要赋值为true。 SrPreferEnable attribute column is required and must be set to true.	Wrong configuration. 配置错误。
Policy attribute column is required and must be set to 3. Policy属性列需要赋值为模式3。	Wrong configuration. 配置错误。
PrefixListName attribute column is required when Policy is permitted by a prefix list. 当Policy属性列被配置为模式3时,需要同时指定PrefixListName属性列。	PrefixListName attribute column is required when Policy is permitted by a prefix list. 当进行set操作时，Policy属性列若被配置为模式3时,需要同时指定PrefixListName属性列。

OSPF/DistributeBgplses

Message	Explanation
OSPF isn’t configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn’t exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。

The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can’t configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can’t configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。

OSPF/FilterPolicyExports

Message	Explanation
OSPF is not configured. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
InstanceNameExport attribute column must be empty when the value of ProtocolExport attribute column is 0, 1, 2, or 6. 当ProtocolExport属性值为0、1、2或6时，InstanceNameExport属性列必须为空。	InstanceNameExport attribute column must be empty when the value of ProtocolExport attribute column is 0, 1, 2, or 6. 当ProtocolExport属性值为0、1、2或6时，InstanceNameExport属性列必须为空。
InstanceNameExport attribute column is required when the value of ProtocolExport attribute column is 3, 4, 5, or 7. 当ProtocolExport属性值为3、4、5或7时，InstanceNameExport属性列不能为空。	InstanceNameExport attribute column is required when the value of ProtocolExport attribute column is 3, 4, 5, or 7. 当ProtocolExport属性值为3、4、5或7时，InstanceNameExport属性列不能为空。
The AclNum and PrefixListName attributes cannot coexist. AclNum属性不能与PrefixListName共存。	The AclNum and PrefixListName attributes cannot coexist. AclNum属性不能与PrefixListName共存。
You cannot filter routes redistributed by the current process. 不允许对当前进程引入的路由信息进行过滤。	You cannot filter routes redistributed by the current process. 不允许对当前进程引入的路由信息进行过滤。

OSPF/FilterPolicyImports

Message	Explanation
OSPF is not configured. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The AclNum and PrefixListName attributes cannot coexist. AclNum属性不能与PrefixListName共存。	The AclNum and PrefixListName attributes cannot coexist. AclNum属性不能与PrefixListName共存。
The AclNum, PrefixListName, or Gateway attribute cannot coexist with the RoutePolicyName attribute. AclNum、PrefixListName、Gateway属性不能与RoutePolicyName共存。	The AclNum, PrefixListName, or Gateway attribute cannot coexist with the RoutePolicyName attribute. AclNum、PrefixListName、Gateway属性不能与RoutePolicyName共存。

OSPF/FRRs

Message	Explanation
RoutePolicy attribute column cannot be configured at the same time when enable is true. Enable为true时不能同时配置RoutePolicy属性列。	RoutePolicy attribute column cannot be configured at the same time when enable is true. 当进行set操作时，Enable属性列为true时不能同时配置RoutePolicy属性列。
Enable attribute column is required and must be set to true. Enable属性列需要赋值为true。	Enable attribute column is required and must be set to true. 当进行set操作时，Enable属性列需要赋值为true。
RoutePolicy and Host attribute column cannot be configured at the same time. Host属性列和RoutePolicy属性列不能同时被配置。	RoutePolicy and Host attribute column cannot be configured at the same time. 当进行set操作时，Host属性列和RoutePolicy属性列不能同时被配置。
RoutePolicy attribute column of Lfa is required. 需要补齐RoutePolicy属性列。	Wrong configuration. 配置错误。

OSPF/AdjSids

Message	Explanation
SidType attribute column is required. 需要补齐SidType属性列。	Wrong configuration. 配置错误。
Sid attribute column is required. 需要补齐Sid属性列。	Wrong configuration. 配置错误。

Contents

OSPF event stream 1
OSPF peer state event 1
XML structure for event subscription 1
XML structure for event report 1

OSPF event stream

OSPF stream description.

OSPF peer state event

This event is used to report OSPF peer state information.

XML structure for event subscription

```
<OSPFPeerStateEvent>
</OSPFPeerStateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ospf_stream</stream>
    <filter type="subtree">
      <OSPFPeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/OSPF:1.0">
      </OSPFPeerStateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ospf_stream
Event name	OSPFPeerStateEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/OSPF:1.0
Support for extended query	No

XML structure for event report

```
<OSPFPeerStateEvent>
  <OSPFPeerState>
    <IfIndex></IfIndex>
    <NbrAddress></NbrAddress>
    <NbrRouterId></NbrRouterId>
    <ProcId></ProcId>
    <AreaId></AreaId>
    <DrPriority></DrPriority>
    <CurrentState></CurrentState>
    <LastState></LastState>
    <IfName></IfName>
    <Mode></Mode>
    <UpTime></UpTime>
```

```
    <NetType></NetType>
    <Sequence></Sequence>
  </OSPFPeerState>
</OSPFPeerStateEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-09-29T09:10:51</eventTime>
  <OSPFPeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/OSPF:1.0">
    <OSPFPeerState>
      <IfIndex>285</IfIndex>
      <NbrAddress>1.1.1.2</NbrAddress>
      <NbrRouterId>2.2.2.2</NbrRouterId>
      <ProcId>1</ProcId>
      <AreaId>0.0.0.0</AreaId>
      <DrPriority>1</DrPriority>
      <CurrentState>7</CurrentState>
      <LastState>6</LastState>
      <IfName>GigabitEthernet2/0/2</IfName>
      <Mode>0</Mode>
      <UpTime>1542</UpTime>
      <NetType>1</NetType>
      <Sequence>16</Sequence>
    </OSPFPeerState>
  </OSPFPeerStateEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfIndex	Interface index.	Unsigned integer.	N/A
NbrAddress	Neighbour IPv4 address.	String, dotted decimal notation.	N/A
NbrRouterId	Neighbour router identifier.	String, dotted decimal notation.	N/A
ProcId	Process ID.	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	String, dotted decimal notation.	N/A
DrPriority	Router priority.	Unsigned integer. Value range: 0 to 255.	N/A
CurrentState	Current neighbour state.	Enumeration: • 0—Down. • 1—Init. • 2—Attempt. • 3—2-way. • 4—Exstart. • 5—Exchange. • 6—Loading.	N/A

Column name	Column description	Data type and restrictions	Remarks
		• 7—Full.	
LastState	Last neighbour state.	Enumeration: • 0—Down. • 1—Init. • 2—Attempt. • 3—2-way. • 4—Exstart. • 5—Exchange. • 6—Loading. • 7—Full.	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Mode	Neighbour mode	Enumeration: • 0—Master. • 1—Slave. • 2—None.	N/A
UpTime	Neighbour up time in seconds	Unsigned integer.	N/A
NetType	Neighbor identification method	Enumeration: • 1—dynamic. • 2—permanent.	N/A
Sequence	Sequence	Unsigned integer. Value range: 1 to 4294967295.	N/A

Contents

OSPFv3 1

ietf_ospfv3 1
XML structure 1
Table description 6
Columns 6
ietf_ospfv3/areas 16
XML structure 16
Table description 17
Columns 17
ietf_ospfv3/areas/interfaces 18
XML structure 18
Table description 18
Columns 18
ietf_ospfv3/redistributes 24
XML structure 24
Table description 24
Columns 24
ietf_ospfv3/instance/srv6-locators 26
XML structure 26
Table description 26
Columns 26
ietf_ospfv3/instance/filter-policy-exports 26
XML structure 26
Table description 27
Columns 27
ietf_ospfv3/instance/filter-policy-import 28
XML structure 28
Table description 28
Columns 28
ietf_ospfv3/instance/asbr-summary-entries 28
XML structure 29
Table description 29
Columns 29
ietf_ospfv3/instance/flex-algos 29
XML structure 30
Table description 30
Columns 30
ietf_ospfv3/instance/affinity-maps 31
XML structure 31
Table description 32
Columns 32
ietf_ospfv3/instance/preferences 32
XML structure 32
Table description 32
Columns 33
ietf_ospfv3/areas/interfaces/database-filter-peers 33
XML structure 33
Table description 33
Columns 33
Example 35

OSPFv3

The namespace of ospfv3 is "urn:ietf:params:xml:ns:yang:ietf-ospfv3".

The Example on the end of the module sets an instance that the module can’t be under top node.

ietf_ospfv3

This table contains OSPFv3 configuration information.

XML structure

```
<ospfv3>
  <instance>
    <af></af>
    <explicit-router-id></explicit-router-id>
    <isolate></isolate>
    <shutdown></shutdown>
    <nsr>
      <enable></enable>
    </nsr>
    <srv6-policy-autoroute></srv6-policy-autoroute>
    <graceful-restart>
      <restarter-enable></restarter-enable>
      <restarter-global></restarter-global>
      <restarter-planned-only></restarter-planned-only>
      <restarter-interval></restarter-interval>
      <helper-enable></helper-enable>
      <helper-planned-only></helper-planned-only>
      <helper-strict-lsa-checking></helper-strict-lsa-checking>
    </graceful-restart>
    <fast-reroute>
      <lfa-enable></lfa-enable>
      <abr-only></abr-only>
      <ecmp-type></ecmp-type>
      <route-policy-name></route-policy-name>
    </fast-reroute>
    <FrrMicroloopAvoid>
      <Enable></Enable>
      <RibUpdateDelay></RibUpdateDelay
    </FrrMicroloopAvoid>
    <vpn-instance-capability></vpn-instance-capability>
    <description></description>
    <spf-schedule>
      <maximum></maximum>
      <minimum></minimum>
      <incremental></incremental>
```

```
  <conservative></conservative>
  <millisecond></millisecond>
</spf-schedule>
<metric-bandwidth-advertise></metric-bandwidth-advertise>
<metric-bandwidth-suppress-time></metric-bandwidth-suppress-time>
<metric-delay-advertise></metric-delay-advertise>
<metric-delay-suppress>
  <suppress-time></suppress-time>
  <suppress-threshold-percent></suppress-threshold-percent>
  <suppress-threshold-absolute></suppress-threshold-absolute>
</metric-delay-suppress>
<FrrMirror>
  <Enable></Enable>
  <DeleteDelayTime></DeleteDelayTime>
</FrrMirror>
<TiLfa>
  <Enable></Enable>
  <PerPrefix></PerPrefix>
  <Host></Host>
  <RoutePolicy></RoutePolicy>
</TiLfa>
<advertise-link-attributes-te></advertise-link-attributes-te>
<suppress-intra-te-link-attributes></suppress-intra-te-link-attributes>
<virtual-system></virtual-system>
<lsa-generation-interval>
  <maximum></maximum>
  <minimum></minimum>
  <incremental></incremental>
</lsa-generation-interval>
<lsa-arrival-interval>
  <maximum></maximum>
  <minimum></minimum>
  <incremental></incremental>
</lsa-arrival-interval>
<default-route-advertise>
  <cfg-type></cfg-type>
  <cost></cost>
  <route-policy-name></route-policy-name>
  <type></type>
</default-route-advertise>
<stub-router>
  <cfg-type></cfg-type>
  <on-startup></on-startup>
  <on-startup-timeout></on-startup-timeout>
  <include-stub></include-stub>
  <external-lsa></external-lsa>
  <external-metric></external-metric>
  <summary-lsa></summary-lsa>
```

```
  <summary-metric></summary-metric>
</stub-router>
<srv6-microloop-avoid>
  <enable></enable>
  <rib-update-delay></rib-update-delay
</srv6-microloop-avoid>
<areas>
  <area>
    <area-id></area-id>
    <area-type></area-type>
    <description></description>
    <keychain></keychain>
    <authentication>
      <mode></mode>
      <key-id></key-id>
      <password-type></password-type>
      <password></password>
    </authentication>
    <interfaces>
      <interface>
        <name></name>
        <instance-id></instance-id>
        <interface-type></interface-type>
        <hello-interval></hello-interval>
        <dead-interval></dead-interval>
        <cost></cost>
        <mtu-ignore></mtu-ignore>
        <bfd>
          <enable></enable>
        </bfd>
        <priority></priority>
        <prefix-suppression></prefix-suppression>
        <poll-interval></poll-interval>
        <retransmit-interval></retransmit-interval>
        <transmit-delay></transmit-delay>
        <keychain></keychain>
        <authentication>
          <mode></mode>
          <key-id></key-id>
          <password-type></password-type>
          <password></password>
        </authentication>
        <lfa-exclude></lfa-exclude>
        <primary-path-detect></primary-path-detect>
        <link-delay-average></link-delay-average>
        <link-delay-min></link-delay-min>
        <link-delay-max></link-delay-max>
        <link-delay-variation></link-delay-variation>
```

```
        <Frr>
          <TiLfaDisable></TiLfaDisable>
        </Frr>
        <affinity-name></affinity-name>
        <link-quality-adjust-cost></link-quality-adjust-cost>
        <cost-adjust-track></cost-adjust-track>
        <cost-adjust-offset></cost-adjust-offset>
        <virtual-system>
          <enable></enable>
          <router-id></router-id>
        </virtual-system>
        <silent></silent>
        <peer-hold-maxcost-duration></peer-hold-maxcost-duration>
        <database-filter>
          <all></all>
          <external></external>
          <external-acl></external-acl>
          <nssa></nssa>
          <nssa-acl></nssa-acl>
          <inter-prefix></inter-prefix>
          <inter-prefix-acl></inter-prefix-acl>
       </database-filter>
       <database-filter-peers>
         <database-filter-peer>
           <peer-address></peer-address>
           <all></all>
           <external></external>
           <external-acl></external-acl>
           <nssa></nssa>
           <nssa-acl></nssa-acl>
           <inter-prefix></inter-prefix>
           <inter-prefix-acl></inter-prefix-acl>
         </database-filter-peer>
       </database-filter-peers>
      </interface>
    </interfaces>
  </area>
</areas>
<redistributes>
  <redistribute>
    <protocol></protocol>
    <redist-name></redist-name>
    <allow-ibgp></allow-ibgp>
    <allow-direct></allow-direct>
    <metric></metric>
    <metric-type></metric-type>
    <inherit-cost></inherit-cost>
    <nssa-only></nssa-only>
```

```
    <route-policy-name></route-policy-name>
    <tag></tag>
  </redistribute>
</redistributes>
<srv6-locators>
  <locator>
    <name></name>
  </locator>
</srv6-locators>
<filter-policy-exports>
  <filter-policy-export>
    <protocol-export></protocol-export>
    <instance-name-export></instance-name-export>
    <ipv6-acl-num></ipv6-acl-num>
    <prefix-list-name></prefix-list-name>
  </filter-policy-export>
</filter-policy-exports>
<filter-policy-import>
  <ipv6-acl-num></ipv6-acl-num>
  <prefix-list-name></prefix-list-name>
  <gateway></gateway>
  <route-policy-name></route-policy-name>
</filter-policy-import>
<asbr-summary-entries>
  <asbr-summary>
    <prefix></prefix>
    <prefix-length></prefix-length>
    <cost></cost>
    <advertise></advertise>
    <nssa-only></nssa-only>
    <tag></tag>
  </asbr-summary>
</asbr-summary-entries>
<flex-algos>
  <flex-algo>
    <algorithm-id></algorithm-id>
    <advertise></advertise>
    <priority></priority>
    <frr-enable></frr-enable>
    <exclude-any></exclude-any>
    <include-any></include-any>
    <include-all></include-all>
    <metric-type></metric-type>
    <tilfa>
      <enable></enable>
      <per-prefix></per-prefix>
    </tilfa>
    <frr-tie-breaker>
```

```
        <lowest-cost-pref></lowest-cost-pref>
        <node-protect-pref></node-protect-pref>
      </frr-tie-breaker>
    </flex-algo>
  </flex-algos>
  <affinity-maps>
    <affinity-map>
      <attribute-name></attribute-name>
      <bit-position></bit-position>
    </affinity-map>
  </affinity-maps>
  <preferences>
    <preference>
      <route-type></route-type>
      <value></value>
      <route-policy-name></route-policy-name>
    </preference>
  </preferences>
 </instance>
</ospfv3>
```

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	ospfv3
Table type	Multi-instance table
Row name	instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
af	Address type	Index	String: case-sensitive: • ipv4. • ipv6.	N/A
explicit-router-id	Router identifier	N/A	String, dotted decimal notation.	You cannot modify this column after this column is created or merged. If you need to do this, you must delete the column and then create it again.
isolate	Whether to isolate OSPFv3 from	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	current network.		• **true**—Isolate OSPFv3 from current network. • **false**—Do not isolate OSPFv3 from current network.	
shutdown	Whether to shutdown the OSPFv3 process.	N/A	Boolean: • **true—**Shutdown the OSPFv3 process. • **false—**Do not shutdown the OSPFv3 process (default).	N/A
nsr	Nonstop routing	Data structure	Members include: • enable.	All the members must be specified.
srv6-policy-autoroute	Enable SRv6 policy autoroute for OSPFv3	N/A	Boolean: • true—Enable SRv6 policy autoroute for OSPFv3. • false—Disable SRv6 policy autoroute for OSPFv3(default)	N/A
enable	Enable nonstop routing	N/A	Boolean: • ture—Enable the nonstop routing feature. • false—Disable the nonstop routing feature.	N/A
graceful-restart	Graceful OSPF Restart.	Data structure	Members include: • restarter-enable. • restarter-global. • restarter-planned-only. • restarter-interval. • helper-enable. • helper-planned-only. • helper-strict-lsa-checking.	N/A
restarter-enable	Enable graceful restart.	N/A	Boolean: • true—Enable graceful restart. • false—Disable graceful restart (default).	N/A
restarter-global	Enables global GR.	N/A	Boolean: • true—Enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			global GR. • false—Disable global GR (default).	
restarter-planned-only	Enables planned GR only.	N/A	Boolean: • true—Enable global planned GR only. • false—Enable both planned GR and unplanned GR (default).	N/A
restarter-interval	Interval to attempt graceful restart prior to failing (seconds)	N/A	Unsigned short integer. Value range: 40 to 1800. Units: seconds. Default: 120.	N/A
helper-enable	Enable graceful restart helper support for restarting routers.	N/A	Boolean: • true—Enable graceful restart helper support (default). • false—Disable graceful restart helper support.	N/A
helper-planned-only	Enables only planned GR for the GR helper.	N/A	Boolean: • true—Enable planned GR for the GR helper only. • false—Enable both planned GR and unplanned GR for the GR helper (default).	N/A
helper-strict-lsa-checking	Terminate graceful restart when an LSA topology change is detected.	N/A	Boolean: • true—Enable graceful restart helper strict LSA checking support. • false—Disable graceful restart helper strict LSA checking support (default).	N/A
fast-reroute	OSPFv3 Loop-Free Alternate FRR	Data structure	Members include: • lfa-enable. • abr-only. • ecmp-type • router-policy-name	N/A
lfa-enable	Enable OSPFv3 Loop-Free Alternate FRR.	N/A	Boolean: • true—Enable FRR.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false—Does not enable FRR (default).	
abr-only	Uses the next hop of the route to the ABR as the backup next hop.	N/A	Boolean: • true—Only the next hops of the route to the ABR are used as the backup next hop. • false—All next hops can be used as the backup next hop (default).	The abr-only and ecmp-type attributes are mutually exclusive.
ecmp-type	Type of ecmp.	N/A	Enumeration: • default—Calculate the next hop by LFA algorithm.(default) • ecmp-shared—Select a shared backup next hop for ECMP routes.	The abr-only and ecmp-type attributes are mutually exclusive.
router-policy-name	Uses a routing policy to designate a backup next hop.	N/A	String: case sensitive. Length: 1 to 63 characters.	N/A
FrrMicroloopAvoid	Microloop avoidance FRR information for OSPFv3	Data structure	Members include: • Enable. RibUpdateDelay.	N/A
Enable	Whether to enable microloop avoidance for OSPFv3	N/A	Boolean: • true—Enable microloop avoidance for OSPFv3. false—Disable microloop avoidance for OSPFv3 **(default)**.	N/A
RibUpdateDelay	Microloop avoidance delay timer in milliseconds.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	The node updates its routing table after the specified delay timer expires.
vpn-instance-capability	Route loop check for the OSPFv3 process of the VPN instance.	N/A	Enumeration: • **0**—Normal, which indicates enabling route loop check. • **1**—Simple, which indicates disabling route loop check. Default: 0.	Only supported by an OSPFv3 process of a specific VPN instance.
description	The description information of OSPFv3 instance.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
spf-schedule	Time interval of OSPF route calculation.	Data structure	Members include: • maximum. • minimum. • incremental. • conservative. • millisecond.	N/A
maximum	Maximum time interval.	N/A	Unsigned integer. Value range:1 to 60.	When configuring minimum, incremental and conservative, maximum must be set; maximum cannot be set at the same time as millisecond.
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000.	When configuring incremental and conservative, minimum must be set; minimum cannot be set at the same time as millisecond.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000.	When configuring conservative, incremental must be set; minimum cannot be set at the same time as millisecond.
conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • ture—Enable route calculation is based on the maximum time interval. • false—Disable route calculation is based on the maximum time interval.	Conservative cannot be set at the same time as millisecond.
millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000.	Millisecond cannot be set at the same time as maximum ,minimum, incremental and conservative.
metric-bandwidth-advertise	Advertise link bandwidth metric information in LSAs	N/A	Boolean: • true—Enable OSPFv3 to advertise link bandwidth metric information in LSAs. • false—Disable OSPFv3 to advertise link bandwidth metric information in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			LSAs (default).	
metric-bandwidth-suppress-time	Suppress advertisement time of link bandwidth metric information	N/A	Unsigned integer. Value range: 0 to 600s. Default: 120s.	N/A
metric-delay-advertise	Advertise link delay metric information in LSAs	N/A	Boolean: • true—Enable OSPFv3 to advertise link delay metric information in LSAs. • false—Disable OSPFv3 to advertise link delay metric information in LSAs (default).	N/A
metric-delay-suppress	Suppress advertisement of link delay.	Data structure	Members include: • suppress-time. • suppress-threshold-percent. • suppress-threshold-absolute.	N/A
suppress-time	Suppress advertisement time of link delay metric information	N/A	Unsigned integer. Value range: 0 to 600s. Default: 120s.	The attribute columns of attribute group metric-delay-suppress must be configured at the same time.
suppress-threshold-percent	Specify the percentage delay variation threshold	N/A	Unsigned integer. Value range: 0 to 100. Default: 10.	The attribute columns of attribute group metric-delay-suppress must be configured at the same time.
suppress-threshold-absolute	Specify the absolute delay variation threshold	N/A	Unsigned integer. Value range: 0 to 10000us. Default: 1000us.	The attribute columns of attribute group metric-delay-suppress must be configured at the same time.
FrrMirror	Fast reroute mirror.	Data structure	Members include: • Enable. • DeleteDelayTime.	N/A
Enable	Enable SRv6 path egress protection.	N/A	Boolean: • true—Enable SRv6 path egress protection • false—Does not enable SRv6 path egress protection (default).	N/A
DeleteDelayTime	Specify a delay for deleting the mirror	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	FRR path		21845s. • Default: 60s.	
TiLfa	Topology-Independent Loop-Free Alternate FRR.	Data structure	Members include: • Enable. • PerPrefix. • Host. • RoutePolicy.	N/A
Enable	Enable OSPFv3 TI-LFA FRR.	N/A	Boolean: • true—Enable TI-LFA FRR. • false—Does not enable TI-LFA FRR (default).	N/A
PerPrefix	Per-prefix calculation.	N/A	Boolean: • true—Calculates backup information for each advertising source of a route. • false—Calculates backup information for each route (default).	N/A
Host	Enable TI-LFA for host routes.	N/A	Boolean: • true—Enable TI-LFA for host routes. • false—Does not enable TI-LFA for host routes (default).	N/A
RoutePolicy	Enable TI-LFA FRR for prefixes identified by the routing policy.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
advertise-link-attributes-te	Advertise TE information in application link attributes.	N/A	Boolean: • **true**—Advertise TE information in application link attributes. **false**—Do not advertise TE information in application link attributes (default).	N/A
suppress-intra-te-link-attributes	Suppress advertisement of TE information by intra-TE LSAs.	N/A	Boolean: • **true**—Suppress advertisement of TE information by intra-TE LSAs. **false**—Do not suppress advertisement of TE information by intra-TE	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			LSAs. (default).	
virtual-system	Whether to use virtual OSPFv3 nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPFv3 nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPFv3 nodes for neighbor relationship establishment (default).	N/A
lsa-generation-interval	Time interval of OSPFv3 lsa generation.	N/A	Members include: • maximum. • minimum. • incremental.	N/A
maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60 (seconds).	N/A
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPFv3 Minimum interval should not be greater than maximum interval.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000 (milliseconds).	OSPFv3 Incremental interval should not be greater than maximum interval.
lsa-arrival-interval	Time interval of OSPF route lsa arrival.	Data structure	Members include: • maximum. • Minimum • incremental.	N/A
maximum	Maximum time interval.	N/A	Unsigned integer. Value range:0 to 10000 (milliseconds).	
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 0～1000 (milliseconds).	When configuring minimum and incremental, must be less than maximum.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 1～5000 (milliseconds).	When configuring minimum and incremental, must be less than maximum.
default-route-advertise	Default route redistribtution information.	Data structure	Members include: • cfg-type. • cost. • route-policy-name • type.	N/A
cfg-type	Default route redistribtution	N/A	String: case-sensitive: • disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	method		• normal. • always. • permit-calculate-other.	
cost	Cost for the default route.	N/A	String. Length: 1 to 31 characters.	This column cannot be specified when the cfg-type column is “disable”. It must be “default” or an unsigned integer in the range of 0 to 16777214.
route-policy-name	Specifies a routing policy to filter default routes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	This column cannot be specified when the cfg-type column is “disable”.
type	Specifies a type for the Type-5 LSA.	N/A	String: case-sensitive: • default. • type1 • type2	This column cannot be specified when the cfg-type column is “disable”.
stub-router	Specifies the router as a stub router.	Data structure	Members include: • cfg-type. • on-startup • on-startup-timeout • include-stub. • external-lsa. • external-metric. • summary-lsa. • summary-metric.	N/A
cfg-type	Configures the type of stub-router.	N/A	String: case-sensitive: • r-bit. • max-metric.	N/A
on-startup	Specifies the router as a stub router during reboot.	N/A	String: case-sensitive: • disable(default). • enable. • wait-for-bgp.	N/A
on-startup-timeout	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	Cannot be specified when on-startup is disable. When wait-for-bgp is specified, the default value for on-startup-timeout is 600 seconds.
include-stub	Sets the cost of the stub links.	N/A	String: case-sensitive: • disable (default). • enable.	N/A
external-lsa	Configures the cost of external LSAs.	N/A	String: case-sensitive: • disable (default).	For the create and merge operations, if you both configure the

Column name	Column description	Column type	Data type and restrictions	Remarks
			• enable.	external-lsa and external-metric, you must specify the external-lsa as enable. For the replace operation, if you configure the external-metric, you must configure the external-lsa too, and specify the external-lsa as enable. For the delete and remove operations, if you configure the external-lsa, the external-metric value will be deleted.
external-metric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215. Default: 16711680.	N/A
summary-lsa	Configures the cost of the summary LSAs.	N/A	String: case-sensitive: • disable (default). • enable.	For the create and merge operations, if you both configure the summary-lsa and summary-metric, you must specify the summary-lsa as true. For the replace operation, if you configure the summary-metric, you must configure the summary-lsa too, and specify the summary-lsa as true. For the delete and remove operations, if you configure the summary-lsa, the summary-metric value will be deleted.
summary-metric	Cost of the summary LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215. Default: 16711680.	N/A
srv6-microloop-avoid	Microloop-avoidance information for OSPFv3 SRv6.	Data structure	Members include: • enable. • rib-update-delay	N/A
enable	Enable microloop-avoidance for OSPFv3	N/A	Boolean: • **false**—Disable microloop-avoidan	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SRv6		ce for OSPFv3 SRv6(default) • **true**—Enable microloop-avoidance for OSPFv3 SRv6	
rib-update-delay	The microloop-avoidance RIB-update-delay time for OSPFv3 SRv6	N/A	Unsigned integer. Value range 1 to 60000(milliseconds). Default: 5000(milliseconds)	N/A
areas	Information of the areas	Sublist	The details of the sublist refer to areas table.	N/A
redistributes	Information of the redistributed routes	Sublist	The details of the sublist refer to redistributed route table.	N/A
srv6-locators	Information of SRv6 locators	Sublist	The details of the sublist refer to srv6-locators table.	N/A
filter-policy-exports	Information of the filter policy exports	Sublist	The details of the sublist refer to filter-policy-exports table.	N/A
filter-policy-import	Information of the filter policy imports	Subtable	The details of the subtable refer to filter-policy-imports table.	N/A
asbr-summary-entries	Information of the ASBR summary entries	Sublist	The details of the sublist refer to asbr-summary-entries table.	N/A
flex-algos	Information of the flex-algos	Sublist	The details of the sublist refer to flex-algos table.	N/A
affinity-maps	Information of the affinity maps	Sublist	The details of the sublist refer to affinity-maps table.	N/A
preferences	Information of the preferences	Sublist	The details of the sublist refer to preferences table.	N/A

ietf_ospfv3/areas

This table contains area configuration information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	areas
Table type	Multi-instance table
Row name	area
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
area-id	Area ID	Index	String, dotted decimal notation.	N/A
area-type	Area type	N/A	Enumeration: • **0**—Normal. (default) • **1**—Stub. • **2**—NSSA.	If area-id is 0, area-type can only be set to 0.
description	The description information of OSPFv3 area.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
keychain	Specify a keychain for authentication.	N/A	String: case sensitive. Length: 1 to 63 characters.	Keychain cannot be set at the same time as authentication.
authentication	Area authentication	Data structure	Members include: • mode • key-id • password-type • password	All the members must be specified. Authentication cannot be set at the same time as keychain.
mode	Authentication mode	N/A	String, case-sensitive. Supported strings: • hmac-sha-256 • hmac-sm3	N/A
key-id	Authentication key ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
password-type	Password type	N/A	Enumeration: • 1—Cipher. • 2—Plain.	N/A
password	Password string	N/A	String, case-sensitive. Length: • 1 to 255 characters for plain password. • 33 to 373 characters for	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			cipher password.	
interfaces	Information of the interfaces	Sublist	The details of the sublist refer to interfaces table.	N/A

ietf_ospfv3/areas/interfaces

This table contains interface information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	This table supports only Layer 3 interfaces. You cannot modify the instance-id of the specified process on the interfaces after creating it. If you need do this, you must delete the row and then create it again.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
instance-id	Interface instance ID	N/A	Unsigned integer.	It must be an unsigned char in the range of 0 to 255.
interface-type	Specifies the network type	N/A	String: case-sensitive:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the interface.		• broadcast. • non-broadcast. • point-to-multipoint. • point-to-multipoint-unicast. • point-to-point.	
hello-interval	Hello interval.	N/A	Unsigned integer. Value range:1 to 65535.	N/A
dead-interval	Dead interval.	N/A	Unsigned integer. Value range:1 to 65535.	N/A
cost	Interface cost.	N/A	Unsigned integer. Value range: • Loopback interfaces: 0 to 65535. • Other interfaces: 1 to 65535. Default: • Loopback interfaces: 0. • Other interfaces: 1.	N/A
mtu-ignore	Whether or not to check the MTU when interface exchanges the DD packet.	N/A	Boolean: • ture—Ignore the MTU check when interface exchanges the DD packet. • false—Check the MTU when interface exchanges the DD packet (default).	N/A
bfd	Support for BFD detection of OSPF neighbor reachability	Data structure	Members include: • enable	N/A
enable	Enable bfd	N/A	Boolean: • true—enable bfd • false—disable bfd (default)	
priority	Configure OSPF router priority	N/A	Unsigned char. Value range:0 to 255 Default: 1.	N/A
prefix-suppression	Suppress advertisement of the prefixes associated with the interface.	N/A	Boolean: • true—enable suppress • false—disable suppress (default)	N/A
poll-interval	Poll interval	N/A	Unsigned short. Value range:1 to 65535	N/A
retransmit-interval	Retransmit interval	N/A	Unsigned short. Value range:1 to 3600 Default: 5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
transmit-delay	Transmit delay	N/A	Unsigned short. Value range:1 to 3600 Default: 1.	N/A
keychain	Specify a keychain for authentication.	N/A	String: case sensitive. Length: 1 to 63 characters.	Keychain cannot be set at the same time as authentication.
authentication	Interface authentication	Data structure	Members include: • mode • key-id • password-type • password	All the members must be specified. Authentication cannot be set at the same time as keychain.
mode	Authentication mode	N/A	String, case-sensitive. Supported strings: • hmac-sha-256 • hmac-sm3	N/A
key-id	Authentication key ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
password-type	Password type	N/A	Enumeration: • 1—Cipher. • 2—Plain.	N/A
password	Password string	N/A	String, case-sensitive. Length: • 1 to 255 characters for plain password. • 33 to 373 characters for cipher password.	N/A
lfa-exclude	Prohibit the interface from participating in LFA calculation.	N/A	Boolean: • true—Enabled lfa-exclude. • false—Disable lfa-exclude (default).	N/A
primary-path-detect	BFD session mode.	N/A	Enumeration: • **1**—ctrl. • **2**—echo.	N/A
link-delay-average	Specify the link delay value	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A
link-delay-min	Specify the minimum delay value	N/A	Unsigned integer. Value range:1 to 16777215us.	Link-delay-min and link-delay-min must be configured at the same time.
link-delay-max	Specify the maximum delay value	N/A	Unsigned integer. Value range:1 to 16777215us.	Link-delay-min and link-delay-min must be configured at the same time.
link-delay-variation	Specify the delay variation	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Frr	Fast reroute messages.	Data structure	Members include: • TiLfaDisable.	N/A
TiLfaDisable	Disable Ti-Lfa	N/A	Boolean: • true—Disable Ti-Lfa • false—Enable Ti-Lfa (default)	N/A
affinity-name	Set affinity attribute on the interface.	N/A	String, case-sensitive. Length: 1 to 32 characters.	Repeat supported for 32 times.
link-quality-adjust-cost	Set the value to be added to the interface cost when the link quality changes to LOW	N/A	Unsigned integer. Value range: 1 to 65535.	The value to be added to the interface cost is in the range of 1 to 65534. The maximum interface cost is 65535.
cost-adjust-track	Associate a track entry for interface cost adjustment	N/A	Unsigned integer. Value range: 1 to 1024.	cost-adjust-offset and cost-adjust-track must be set together.
cost-adjust-offset	Set the value to be added to the interface cost when the track status changes to Negative	N/A	Unsigned integer. Value range: 1 to 65535.	cost-adjust-offset and cost-adjust-track must be set together. The value to be added to the interface cost is in the range of 1 to 65534. If you set the value for cost-adjust-offset to 65535, the interface will use the maximum interface cost when the track status changes to Negative.
virtual-system	Information about virtual system configuration.	Data structure	Members include: • enable • router-id	N/A
enable	Whether to use virtual OSPFv3 nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPFv3 nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPFv3 nodes for neighbor relationship establishment (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
router-id	Set a virtual OSPFv3 router ID	N/A	String, dotted decimal notation.	N/A
silent	Suppress routing updates on the interface	N/A	Enumeration: • **0**—Do not suppress routing updates on the interface. • **1**—Suppress routing updates on the interface.	N/A
bfd-adjust-cost	Adjust the OSPFv3 interface cost according to the BFD session state.	N/A	Enumeration: • **1~65534**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 65534 when the BFD session goes down. • **none**—Do not adjust cost (default).	N/A
bfd-adjust-cost-suppress	Suppress OSPFv3 interface cost adjustment upon BFD session state changes.	Data structure	Members include: • resume-interval. • detect-interval. • threshold	N/A
resume-interval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds. Default: 0 seconds.	N/A
detect-interval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100. Default: 1.	N/A
peer-hold-maxcost-duration	Advertise the maximum link cost to neighbors within the specified period of time	N/A	Unsigned integer. Value range: 100 to1000000 (milliseconds)	N/A
database-filter	Filter outbound LSAs on the interface.	Data structure	Members include: • all	The set operation is subject to the last issuance.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• external • external-acl • nssa • nssa-acl • inter-prefix • inter-prefix-acl	
all	Filter all LSAs except the Grace LSAs	N/A	String: case-sensitive: • disable—Do not filter any LSA. (default) • enable—Filter all LSAs except the Grace LSAs	Cannot be configured simultaneously with external, external-acl, nssa, nssa-acl, inter-prefix or inter-prefix-acl attributes.
external	Filter type-5 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-5 LSAs. • enable—Filters type-5 LSAs.	Cannot be configured simultaneously with the all attribute.
external-acl	Filter type-5 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the external attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
nssa	Filter type-7 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-7 LSAs. • enable—Filters type-7 LSAs.	Cannot be configured simultaneously with the all attribute.
nssa-acl	Filter type-7 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the nssa attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
inter-prefix	Filters type-3 LSAs.	N/A	String: case-sensitive: • disable- Do not filters Filters type-3 LSAs. • enable- Filters Filters type-3 LSAs.	Cannot be configured simultaneously with the all attribute.

Column name	Column description	Column type	Data type and restrictions	Remarks
inter-prefix-acl	Filters type-3 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the inter-prefix attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
database-filter-peers	Information of the database-filter-peers on interface	Sublist	The details of the sublist refer to database-filter-peers table.	N/A

ietf_ospfv3/redistributes

This table contains redistributed route information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	redistributes
Table type	Multi-instance table
Row name	redistribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	Protocol.	Index	String: case-sensitive: • bgp. • direct. • isisv6. • ospfv3. • ripng.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• static. • unr.	
redist-name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static or Unr. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is isisv6, ospfv3, or ripng. It must be “all” or an unsigned integer in the range of 1 to 4294967295 if protocol is bgp. “all” means all the process of the protocol.
allow-ibgp	Allow IBGP routes when importing BGP routes.	N/A	Boolean: • true—Import IBGP routes when importing BGP routes. • false—Does not import IBGP routes when importing BGP routes.	This column can be specified only when the protocol is bgp.
allow-direct	Allow direct routes when importing ISISv6, OSPFv3 or RIPng routes.	N/A	Boolean: • true—Import direct routes when importing ISISv6, OSPFv3 or RIPng routes. • false—Does not import direct routes when importing ISISv6, OSPFv3 or RIPng routes.	This column can be specified only when the protocol is isisv6, ospfv3 or ripng.
metric	Interface cost.	N/A	Unsigned integer. Value range:0 to 16777214.	N/A
metric-type	Specifies a metric type for the Type-7 LSA.	N/A	Enumeration: • 1—Type 1. • 2—Type 2.	N/A
inherit-cost	Whether or not to inherit the cost of the routes	N/A	Boolean: • true—Inherit the cost from protocol. • false—Does not inherit the cost from protocol.	N/A
nssa-only	Limits routes to NSSA areas.	N/A	Boolean: • true—Limits routes to NSSA areas. • false—Does not limit routes to NSSA areas (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: refers to default tag	N/A

ietf_ospfv3/instance/srv6-locators

This table contains srv6 locator information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	srv6-locators
Table type	Multi-instance table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	SRv6 locator name.	Index	String. Length: 1 to 31 characters.	N/A

ietf_ospfv3/instance/filter-policy-exports

This table contains filter policy exports information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	filter-policy-exports
Table type	Multi-instance table
Row name	filter-policy-export
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-export	Protocol type.	Index	Enumeration: • 0—All. • 1—Direct. • 2—Static. • 3—RIPNG • 4—OSPFV3 • 5—ISISV6 • 6—BGP4+ • 9—UNR.	N/A
instance-name-export	Instance name.	Index	String. Length: 0 to 31 characters.	It must be empty when the protocol-export column is Direct, Static, BGP4+, UNR, or All.
ipv6-acl-num	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of ipv6-acl-num and prefix-list-name at the same time.
prefix-list-name	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	You can only set one of ipv6-acl-num and prefix-list-name at the same time.

ietf_ospfv3/instance/filter-policy-import

This table contains FilterPolicyImport information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	filter-policy-import
Table type	single-instance table
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-acl-num	IPV6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set one of ipv6-acl-num, prefix-lst-name and route-policy-name at the same time.
prefix-list-name	Name of the prefix list	N/A	String : case-sensitive: Length: 1 to 63 characters.	You can only set one of ipv6-acl-num, prefix-list-name and route-policy-name at the same time.
gateway	Name of the gateway prefix list	N/A	String : case-sensitive: Length: 1 to 63 characters.	You can only set one of gateway and route-policy-name at the same time.
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	You cannot set ipv6-acl-num, prefix-list-name, or gateway when setting route-policy-name.

ietf_ospfv3/instance/asbr-summary-entries

This table contains ASBR summary information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	asbr-summary-entries
Table type	Multi-instance table
Row name	asbr-summary-entrys
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
prefix-length	Mask length of prefix.	Index	Unsigned integer. Value range: 1 to 128.	No more than 128.
cost	Summary route cost.	N/A	Unsigned integer. Value range: 1 to 16777214.	N/A
advertise	Advertise summary route.	N/A	Boolean: • true—Advertise summary route (default). • false—Dose Not advertises summary route.	N/A
nssa-only	Limits summary routes to NSSA areas.	N/A	Boolean: • true—Limits summary routes to NSSA areas. • false—Does not limit summary routes to NSSA areas (default).	N/A
tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ietf_ospfv3/instance/flex-algos

This table contains flex-algos information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	Flex-algos
Table type	Multi-instance table
Row name	Flex-algo
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
algorithm-id	Flexible algorithm id	Index	Unsigned integer. Value range: 128 to 255.	N/A
advertise	Whether to advertise local algorithm.	N/A	Boolean: • true—Advertise local algorithm. • false—Does not advertise local algorithm (default).	N/A
priority	Priority value.	N/A	Unsigned integer. Value range: 0 to 255. Default: 128.	N/A
frr-enable	Whether to enable fast-reroute.	N/A	Boolean: • true—Enable fast-reroute(default). • false—Does not enable fast-reroute.	N/A
exclude-any	Exclude-all affinity rules on the algorithm calculation.	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times. The members of AttributeName must be specified on the instance.
include-any	Include-any affinity rules on the algorithm calculation.	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times. The members of AttributeName must be specified on the instance.
include-all	Include-all affinity rules on the	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm calculation.			The members of AttributeName must be specified on the instance.
metric-type	Type of metric to be used during the algorithm calculation.	N/A	Enumeration: • **0**—IGP metric (default). • **1**—Minimum unidirectional link delay. • **2**—TE default metric.	N/A
tilfa	TILFA for flexible algorithm.	Data structure	Members include: • enable. • per-prefix.	N/A
enable	Enable TILFA for flexible algorithm.	N/A	Boolean: • true—Enable TILFA for flexible algorithm. • false—Does not enable TILFA for flexible algorithm. (default).	N/A
per-prefix	Calculate TILFA per-prefix.	N/A	Boolean: • true—Calculate TILFA per-prefix. • false—Does not calculate TILFA per-prefix (default).	N/A
frr-tie-breaker	Priority of an FRR backup path selection policy for a flexible algorithm.	Data structure	Members include: • lowest-cost-pref. • node-protect-pref.	N/A
lowest-cost-pref	Preference of link protection.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	N/A
node-protect-pref	Preference of node protection.	N/A	Unsigned integer. Value range: 1 to 255. Default: 40.	N/A

ietf_ospfv3/instance/affinity-maps

This table contains affinity-maps information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	affinity-maps
Table type	Multi-instance table
Row name	affinity-map
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
attribute-name	Name of attribute.	Index	String : case-sensitive: Length: 1 to 32 characters.	N/A
bit-position	Bit position of attribute.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

ietf_ospfv3/instance/preferences

This table contains preferences information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	preferences
Table type	Multi-instance table
Row name	preference
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
route-type	Route type	Index	String: case-sensitive: • non-ase. • ase.	
value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255. Default: 10 for non-ase, 150 for ase.	N/A
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A

ietf_ospfv3/areas/interfaces/database-filter-peers

This table contains database filter peer information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	database-filter-peers
Table type	Multi-instance table
Row name	database-filter-peer
Restrictions	This table supports only Layer 3 interfaces. You cannot modify the instance-id of the specified process on the interfaces after creating it. If you need do this, you must delete the row and then create it again.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-address	Neighbor IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
all	Filter all LSAs except the Grace LSAs	N/A	String: case-sensitive: • disable—Do not filter any LSA. (default)	Cannot be configured simultaneously with external,

Column name	Column description	Column type	Data type and restrictions	Remarks
			• enable—Filter all LSAs except the Grace LSAs	external-acl, nssa, nssa-acl, inter-prefix or inter-prefix-acl attributes.
external	Filter type-5 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-5 LSAs. • enable—Filters type-5 LSAs.	Cannot be configured simultaneously with the all attribute.
external-acl	Filter type-5 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the external attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
nssa	Filter type-7 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-7 LSAs. • enable—Filters type-7 LSAs.	Cannot be configured simultaneously with the all attribute.
nssa-acl	Filter type-7 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the nssa attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
inter-prefix	Filters type-3 LSAs.	N/A	String: case-sensitive: • disable- Do not filters Filters type-3 LSAs. • enable- Filters Filters type-3 LSAs.	Cannot be configured simultaneously with the all attribute.
inter-prefix-acl	Filters type-3 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the inter-prefix attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".

Example

配置一个 ospfv3 实例，使能 nsr 功能，并在接口上使能

```
<v:routing xc:operation="replace" xmlns:v="urn:ietf:params:xml:ns:yang:ietf-routing"
xmlns:xc="xc">
  <v:control-plane-protocols>
    <v:control-plane-protocol>
      <v:type>ospfv3</v:type>
      <v:name>21</v:name>
      <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
        <b:instance>
          <b:af>ipv6</b:af>
          <b:nsr>
            <b:enable>true</b:enable>
          </b:nsr>
         <b:srv6-policy-autoroute>true</b:srv6-policy-autoroute>
          <b:graceful-restart>
            <b:restarter-enable>true</b:restarter-enable>
            <b:restarter-global>true</b:restarter-global>
            <b:restarter-planned-only>false</b:restarter-planned-only>
            <b:restarter-interval>120</b:restarter-interval>
            <b:helper-enable>true</b:helper-enable>
            <b:helper-planned-only>false</b:helper-planned-only>
            <b:helper-strict-lsa-checking>true</b:helper-strict-lsa-checking>
          </b:graceful-restart>
          <b:fast-reroute>
            <b:lfa-enable>false</b:lfa-enable>
            <b:abr-only>false</b:abr-only>
            <b:ecmp-type>default</b:ecmp-type>
            <b:route-policy-name>abc</b:route-policy-name>
          </b:fast-reroute>
         <b:FrrMicroloopAvoid >
            <b:Enable>false</b:Enable>
            <b:RibUpdateDelay>60000</b:RibUpdateDelay>
          </b:FrrMicroloopAvoid >
          <b:description>abcdef</b:description>
          <b:metric-bandwidth-advertise>true</b:metric-bandwidth-advertise>
          <b:metric-bandwidth-suppress-time>180</b:metric-bandwidth-suppress-time>
          <b:metric-delay-advertise>true</b:metric-delay-advertise>
          <b:metric-delay-suppress>
            <b:suppress-time>180</b:suppress-time>
            <b:suppress-threshold-percent>10</b:suppress-threshold-percent>
            <b:suppress-threshold-absolute>1000</b:suppress-threshold-absolute>
          </b:metric-delay-suppress>
          <b:FrrMirror>
            < b:Enable>true</b:Enable>
            < b:DeleteDelayTime>100</b:DeleteDelayTime>
          </b:FrrMirror>
```

```
      <b:TiLfa>
         <b:Enable>true</b:Enable>
         <b:PerPrefix>true</b:PerPrefix>
         <b:Host>true</b:Host>
      </b:TiLfa>
      <b:advertise-link-attributes-te>true</b:advertise-link-attributes-te>
<b:suppress-intra-te-link-attributes>true</b:suppress-intra-te-link-attributes>
      <b:virtual-system>true</b:virtual-system>
      <b:default-route-advertise>
        <b:cfg-type>always</b:cfg-type>
        <b:cost>10</b:cost>
        <b:route-policy-name>aaa</b:route-policy-name>
        < b:type>type1</b:type>
      </b:default-route-advertise>
       <b:stub-router>
         <b:cfg-type>r-bit</b:cfg-type>
         <b:on-startup>wait-for-bgp</b:on-startup>
         <b:on-startup-timeout>100</b:on-startup-timeout>
         <b:include-stub>enable</b:include-stub>
         <b:external-lsa>enable</b:external-lsa>
         <b:external-metric>200</b:external-metric>
         <b:summary-lsa>enable</b:summary-lsa>
         <b:summary-metric>100</b:summary-lsa>
      </b:stub-router>
      <b:srv6-microloop-avoid>
         <b:enable>true</b:enable>
         <b:rib-update-delay>1000</b:rib-update-delay
      </b:srv6-microloop-avoid>
      <b:areas>
         <b:area>
            <b:area-id>0.0.0.1</b:area-id>
            <b:area-type>2</b:area-type>
            <b:keychain>another</b:keychain>
            <b:interfaces>
               <b:interface>
                  <b:name>g0/0/1</b:name>
                  <b:instance-id>21</b:instance-id>
                  <b:interface-type>broadcast</b:interface-type>
                  <b:hello-interval>50</b:hello-interval>
                  <b:dead-interval>200</b:dead-interval>
                  <b:bfd>
                    <b:enable>true</b:enable>
                  </b:bfd>
                  <b:priority>8</b:priority>
                  <b:prefix-suppression>true</b:prefix-suppression>
                  <b:poll-interval>120</b:poll-interval>
                  <b:retransmit-interval>10</b:retransmit-interval>
                  <b:transmit-delay>3</b:transmit-delay>
```

```
                        <b:keychain>abc</b:keychain>
                        <b:lfa-exclude>true</b:lfa-exclude>
                        <b:primary-path-detect>1</b:primary-path-detect>
                        <b:link-delay-average>60</b:link-delay-average>
                        <b:link-delay-min>10</b:link-delay-min>
                        <b:link-delay-max>460</b:link-delay-max>
                        <b:link-delay-variation>50</b:link-delay-variation>
                        <b:Frr>
                          <b:TiLfaDisable>true</b:TiLfaDisable>
                        </b:Frr>
                        <b:affinity-name>red</b:affinity-name>
                        <b:affinity-name>blue</b:affinity-name>
                        <b:virtual-system>
                          <b:enable>true</b:enable>
                          <b:router-id>1.1.1.1</b:router-id>
                        </b:virtual-system>

<b:peer-hold-maxcost-duration>300</b:peer-hold-maxcost-duration>
                        <b:database-filter>
                          <b:all>enable</b:all>
                        </b:database-filter>
                        <b:database-filter-peers>
                          <b:database-filter-peer>
                          <b:peer-address>fe80::1</b:peer-address>
                          <b:all>enable</b:all>
                        </b:database-filter-peer>
                      </b:database-filter-peers>
                    </b:interface>
                  </b:interfaces>
                </b:area>
              </b:areas>
              <b:redistributes>
                <b:redistribute>
                  <b:protocol>ospfv3</b:protocol>
                  <b:redist-name>1</b:redist-name>
                  <b:allow-direct>1</b:allow-direct>
                  <b:metric>2</b:metric>
                  <b:metric-type>1</b:metric-type>
                  <b:inherit-cost>false</b:inherit-cost>
                  <b:nssa-only>false</b:nssa-only>
                  <b:route-policy-name>abc</b:route-policy-name>
                  <b:tag>1</b:tag>
                </b:redistribute>
              </b:redistributes>
              <b:srv6-locators>
                <b:locator>
                  <b:name>abc</b:name>
                </b:locator>
              </b:srv6-locators>
```

```
<b:filter-policy-exports>
   <b:filter-policy-export>
      <b:protocol-export>4</b:protocol-export>
      <b:instance-name-export>2</b:instance-name-export>
      <b:ipv6-acl-num>2100</b:ipv6-acl-num>
   </b:filter-policy-export>
</b:filter-policy-exports>
<b:filter-policy-import>
   <b:ipv6-acl-num>3000</b:ipv6-acl-num>
   <b:gateway>abc</b:gateway>
</b:filter-policy-import>
<b:asbr-summary-entries>
  <b:asbr-summary>
    <b:prefix>100::1</b:prefix>
    <b:prefix-length>64</b:prefix-length>
    <b:cost>20</b:cost>
    <b:advertise>true</b:advertise>
    <b:nssa-only>false</b:nssa-only>
    <b:tag>50</b:tag>
  </b:asbr-summary>
</b:asbr-summary-entries>
<b:flex-algos>
  <b:flex-algo>
    <b:algorithm-id>129</b:algorithm-id>
    <b:advertise>true</b:advertise>
    <b:priority>10</b:priority>
    <b:frr-enable>true</b:frr-enable>
    <b:exclude-any>red</b:exclude-any>
    <b:exclude-any>aa</b:exclude-any>
    <b:include-any>a1</b:include-any>
    <b:include-any>10</b:include-any>
    <b:include-all>yellow</b:include-all>
    <b:include-all>blue</b:include-all>
    <b:metric-type>1</b:metric-type>
    <b:tilfa>
      <b:enable>true</b:enable>
      <b:per-prefix>false</b:per-prefix>
    </b:tilfa>
    <b:frr-tie-breaker>
      <b:lowest-cost-pref>100</b:lowest-cost-pref>
      <b:node-protect-pref>80</b:node-protect-pref>
    </b:frr-tie-breaker>
  </b:flex-algo>
</b:flex-algos>
<b:affinity-maps>
  <b:affinity-map>
    <b:attribute-name>red</b:attribute-name>
    <b:bit-position>10</b:bit-position>
```

```
            </b:affinity-map>
          </b:affinity-maps>
          <b:preferences>
            <b:preference>
              <b:route-type>ase</b:route-type>
              <b:value>10</b:value>
              <b:route-policy-name>aa</b:route-policy-name>
            </b:preference>
          </b:preferences>
        </b:instance>
      </b:ospfv3>
    </v:control-plane-protocol>
  </v:control-plane-protocols>
</v:routing>
```

Contents

OSPFv3 1

ietf_ospfv3 1
XML structure 1
Table description 6
Columns 7
ietf_ospfv3/areas 16
XML structure 16
Table description 16
Columns 17
ietf_ospfv3/areas/interfaces 18
XML structure 18
Table description 18
Columns 18
ietf-ospfv3/areas/interfaces/neighbors 24
XML structure 24
Table description 24
Columns 24
ietf_ospfv3/redistributes 25
XML structure 25
Table description 25
Columns 25
ietf_ospfv3/instance/srv6-locators 26
XML structure 27
Table description 27
Columns 27
ietf_ospfv3/instance/filter-policy-exports 27
XML structure 27
Table description 27
Columns 28
ietf_ospfv3/instance/filter-policy-import 28
XML structure 28
Table description 28
Columns 29
ietf_ospfv3/instance/asbr-summary-entries 29
XML structure 29
Table description 29
Columns 29
ietf_ospfv3/instance/flex-algos 30
XML structure 30
Table description 30
Columns 31
ietf_ospfv3/instance/affinity-maps 32
XML structure 32
Table description 32
Columns 32
ietf_ospfv3/instance/preferences 33
XML structure 33
Table description 33
Columns 33
ietf_ospfv3/areas/interfaces/database-filter-peers 33
XML structure 33
Table description 33
Columns 34
Example 35

OSPFv3

The namespace of ospfv3 is "urn:ietf:params:xml:ns:yang:ietf-ospfv3".

The Example on the end of the module sets an instance that the module can’t be under top node.

ietf_ospfv3

This table contains OSPFv3 configuration information.

XML structure

```
<ospfv3>
  <instance>
    <af></af>
    <explicit-router-id></explicit-router-id>
    <isolate></isolate>
    <shutdown></shutdown>
    <nsr>
      <enable></enable>
    </nsr>
    <srv6-policy-autoroute></srv6-policy-autoroute>
    <graceful-restart>
      <restarter-enable></restarter-enable>
      <restarter-global></restarter-global>
      <restarter-planned-only></restarter-planned-only>
      <restarter-interval></restarter-interval>
      <helper-enable></helper-enable>
      <helper-planned-only></helper-planned-only>
      <helper-strict-lsa-checking></helper-strict-lsa-checking>
    </graceful-restart>
    <fast-reroute>
      <lfa-enable></lfa-enable>
      <abr-only></abr-only>
      <ecmp-type></ecmp-type>
      <route-policy-name></route-policy-name>
    </fast-reroute>
    <FrrMicroloopAvoid>
      <Enable></Enable>
      <RibUpdateDelay></RibUpdateDelay>
    </FrrMicroloopAvoid>
    <vpn-instance-capability></vpn-instance-capability>
    <description></description>
    <spf-schedule>
      <maximum></maximum>
      <minimum></minimum>
      <incremental></incremental>
```

```
  <conservative></conservative>
  <millisecond></millisecond>
</spf-schedule>
<metric-bandwidth-advertise></metric-bandwidth-advertise>
<metric-bandwidth-suppress-time></metric-bandwidth-suppress-time>
<metric-delay-advertise></metric-delay-advertise>
<metric-delay-suppress>
  <suppress-time></suppress-time>
  <suppress-threshold-percent></suppress-threshold-percent>
  <suppress-threshold-absolute></suppress-threshold-absolute>
</metric-delay-suppress>
<FrrMirror>
  <Enable></Enable>
  <DeleteDelayTime></DeleteDelayTime>
</FrrMirror>
<TiLfa>
  <Enable></Enable>
  <PerPrefix></PerPrefix>
  <Host></Host>
  <RoutePolicy></RoutePolicy>
</TiLfa>
<advertise-link-attributes-te></advertise-link-attributes-te>
<suppress-intra-te-link-attributes></suppress-intra-te-link-attributes>
<virtual-system></virtual-system>
<lsa-generation-interval>
  <maximum></maximum>
  <minimum></minimum>
  <incremental></incremental>
</lsa-generation-interval>
<lsa-arrival-interval>
  <maximum></maximum>
  <minimum></minimum>
  <incremental></incremental>
</lsa-arrival-interval>
<default-route-advertise>
  <cfg-type></cfg-type>
  <cost></cost>
  <route-policy-name></route-policy-name>
  <type></type>
</default-route-advertise>
<stub-router>
  <cfg-type></cfg-type>
  <on-startup></on-startup>
  <on-startup-timeout></on-startup-timeout>
  <include-stub></include-stub>
  <external-lsa></external-lsa>
  <external-metric></external-metric>
  <summary-lsa></summary-lsa>
```

```
    <summary-metric></summary-metric>
  </stub-router>
  <srv6-microloop-avoid>
    <enable></enable>
    <rib-update-delay></rib-update-delay
</srv6-microloop-avoid>
  <areas>
    <area>
      <area-id></area-id>
      <area-type></area-type>
      <description></description>
      <keychain></keychain>
      <authentication>
        <mode></mode>
        <key-id></key-id>
        <password-type></password-type>
        <password></password>
      </authentication>
      <interfaces>
        <interface>
          <name></name>
          <instance-id></instance-id>
          <interface-type></interface-type>
          <hello-interval></hello-interval>
          <dead-interval></dead-interval>
          <cost></cost>
          <mtu-ignore></mtu-ignore>
          <bfd>
            <enable></enable>
          </bfd>
          <priority></priority>
          <prefix-suppression></prefix-suppression>
          <poll-interval></poll-interval>
          <retransmit-interval></retransmit-interval>
          <transmit-delay></transmit-delay>
          <keychain></keychain>
          <authentication>
            <mode></mode>
            <key-id></key-id>
            <password-type></password-type>
            <password></password>
          </authentication>
          <lfa-exclude></lfa-exclude>
          <primary-path-detect></primary-path-detect>
          <if-name></if-name>
          <link-delay-average></link-delay-average>
          <link-delay-min></link-delay-min>
          <link-delay-max></link-delay-max>
```

```
    <link-delay-variation></link-delay-variation>
    <Frr>
      <TiLfaDisable></TiLfaDisable>
    </Frr>
    <neighbors>
      <neighbor>
        <neighbor-router-id></neighbor-router-id >
        <address></address>
        <state></state>
        <priority></priority>
       <state-change-count></state-change-count>
       <Type></Type>
       <global-unicast-address></global-unicast-address>
      </neighbor>
    </neighbors>
    <affinity-name></affinity-name>
    <link-quality-adjust-cost></link-quality-adjust-cost>
    <cost-adjust-track></cost-adjust-track>
    <cost-adjust-offset></cost-adjust-offset>
    <virtual-system>
      <enable></enable>
      <router-id></router-id>
    </virtual-system>
    <silent></silent>
   <peer-hold-maxcost-duration></peer-hold-maxcost-duration>
    <database-filter>
      <all></all>
      <external></external>
      <external-acl></external-acl>
      <nssa></nssa>
      <nssa-acl></nssa-acl>
      <inter-prefix></inter-prefix>
      <inter-prefix-acl></inter-prefix-acl>
    </database-filter>
    <database-filter-peers>
      <database-filter-peer>
        <peer-address></peer-address>
        <all></all>
        <external></external>
        <external-acl></external-acl>
        <nssa></nssa>
        <nssa-acl></nssa-acl>
        <inter-prefix></inter-prefix>
        <inter-prefix-acl></inter-prefix-acl>
      </database-filter-peer>
    </database-filter-peers>
  </interface>
</interfaces>
```

```
  </area>
</areas>
<redistributes>
  <redistribute>
    <protocol></protocol>
    <redist-name></redist-name>
    <allow-ibgp></allow-ibgp>
    <allow-direct></allow-direct>
    <metric></metric>
    <metric-type></metric-type>
    <inherit-cost></inherit-cost>
    <nssa-only></nssa-only>
    <route-policy-name></route-policy-name>
    <tag></tag>
  </redistribute>
</redistributes>
<srv6-locators>
  <locator>
    <name></name>
  </locator>
</srv6-locators>
<filter-policy-exports>
  <filter-policy-export>
    <protocol-export></protocol-export>
    <instance-name-export></instance-name-export>
    <ipv6-acl-num></ipv6-acl-num>
    <prefix-list-name></prefix-list-name>
  </filter-policy-export>
</filter-policy-exports>
<filter-policy-import>
  <ipv6-acl-num></ipv6-acl-num>
  <prefix-list-name></prefix-list-name>
  <gateway></gateway>
  <route-policy-name></route-policy-name>
</filter-policy-import>
<asbr-summary-entries>
  <asbr-summary>
    <prefix></prefix>
    <prefix-length></prefix-length>
    <cost></cost>
    <advertise></advertise>
    <nssa-only></nssa-only>
    <tag></tag>
  </asbr-summary>
</asbr-summary-entries>
<flex-algos>
  <flex-algo>
    <algorithm-id></algorithm-id>
```

```
        <advertise></advertise>
        <priority></priority>
        <frr-enable></frr-enable>
        <exclude-any></exclude-any>
        <include-any></include-any>
        <include-all></include-all>
        <metric-type></metric-type>
        <tilfa>
          <enable></enable>
          <per-prefix></per-prefix>
        </tilfa>
        <frr-tie-breaker>
          <lowest-cost-pref></lowest-cost-pref>
          <node-protect-pref></node-protect-pref>
        </frr-tie-breaker>
      </flex-algo>
    </flex-algos>
    <affinity-maps>
      <affinity-map>
        <attribute-name></attribute-name>
        <bit-position></bit-position>
      </affinity-map>
    </affinity-maps>
    <preferences>
      <preference>
        <route-type></route-type>
        <value></value>
        <route-policy-name></route-policy-name>
      </preference>
    </preferences>
  </instance>
</ospfv3>
```

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	ospfv3
Table type	Multi-instance table
Row name	instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
af	Address type	Index	String: case-sensitive: • ipv4. • ipv6.	N/A
explicit-router-id	Router identifier	N/A	String, dotted decimal notation.	N/A
isolate	Whether to isolate OSPFv3 from current network.	N/A	Boolean: • **true**—Isolate OSPFv3 from current network. • **false**—Do not isolate OSPFv3 from current network.	N/A
shutdown	Whether to shutdown the OSPFv3 process.	N/A	Boolean: • **true—**Shutdown the OSPFv3 process. • **false—**Do not shutdown the OSPFv3 process.	N/A
nsr	Nonstop routing	Data structure	Members include: • enable.	All the members must be specified.
srv6-policy-autoroute	Enable SRv6 policy autoroute for OSPFv3	N/A	Boolean: • true—Enable SRv6 policy autoroute for OSPFv3. • false—Disable SRv6 policy autoroute for OSPFv3(default)	N/A
enable	Enable nonstop routing	N/A	Boolean: • ture—Enable the nonstop routing feature. • false—Disable the nonstop routing feature.	N/A
graceful-restart	Graceful OSPF Restart	Data structure	Members include: • restarter-enable. • restarter-global. • restarter-planned-only. • restarter-interval. • helper-enable. • helper-planned-only. • helper-strict-lsa-checking.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
restarter-enable	Enable graceful restart.	N/A	Boolean: • true—Enable graceful restart. • false—Disable graceful restart.	N/A
restarter-global	Enables global GR.	N/A	Boolean: • true—Enable global GR. • false—Disable global GR.	N/A
restarter-planned-only	Enables planned GR only.	N/A	Boolean: • true—Enable global planned GR only. • false—Enable both planned GR and unplanned GR.	N/A
restarter-interval	Interval to attempt graceful restart prior to failing (seconds)	N/A	Unsigned short integer. Value range: 40 to 1800.	N/A
helper-enable	Enable graceful restart helper support for restarting routers.	N/A	Boolean: • true—Enable graceful restart helper support. • false—Disable graceful restart helper support.	N/A
helper-planned-only	Enables only planned GR for the GR helper.	N/A	Boolean: • true—Enable planned GR for the GR helper only. • false—Enable both planned GR and unplanned GR for the GR helper.	N/A
helper-strict-lsa-checking	Terminate graceful restart when an LSA topology change is detected.	N/A	Boolean: • true—Enable graceful restart helper strict LSA checking support. • false—Disable graceful restart helper strict LSA checking support.	N/A
fast-reroute	OSPFv3 Loop-Free Alternate FRR	Data structure	Members include: • lfa-enable. • abr-only. • ecmp-type • router-policy-name	N/A
lfa-enable	Enable OSPFv3	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Loop-Free Alternate FRR.		• true—Enable FRR. • false—Does not enable FRR.	
abr-only	Uses the next hop of the route to the ABR as the backup next hop.	N/A	Boolean: • true—Only the next hops of the route to the ABR are used as the backup next hop. • false—All next hops can be used as the backup next hop.	The abr-only and ecmp-type attributes are mutually exclusive.
ecmp-type	Type of ecmp.	N/A	Enumeration: • default—Calculate the next hop by LFA algorithm. • ecmp-shared—Select a shared backup next hop for ECMP routes.	The abr-only and ecmp-type attributes are mutually exclusive.
router-policy-name	Uses a routing policy to designate a backup next hop.	N/A	String: case sensitive. Length: 1 to 63 characters.	N/A
FrrMicroloopAvoid	Microloop avoidance FRR information for OSPFv3.	Data structure	Members include: • Enable. RibUpdateDelay.	N/A
Enable	Whether to enable microloop avoidance for OSPFv3	N/A	Boolean: • true—Enable microloop avoidance for OSPFv3. false—Disable microloop avoidance for OSPFv3 **(default)**.	N/A
RibUpdateDelay	Microloop avoidance delay timer in milliseconds.	N/A	Unsigned integer. Value range 1 to 60000. Default: 5000.	The node updates its routing table after the specified delay timer expires.
vpn-instance-capability	Route loop check for the OSPFv3 process of the VPN instance.	N/A	Enumeration: • **0**—Normal, which indicates enabling route loop check. • **1**—Simple, which indicates disabling route loop check.	Only supported by an OSPFv3 process of a specific VPN instance.
description	The description information of OSPFv3 instance.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
spf-schedule	Time interval of	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	OSPF route calculation.	structure	• maximum. • minimum. • incremental. • conservative. • millisecond.	
maximum	Maximum time interval.	N/A	Unsigned integer. Value range:1 to 60.	When configuring minimum, incremental and conservative, maximum must be set; maximum cannot be set at the same time as millisecond.
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000.	When configuring incremental and conservative, minimum must be set; minimum cannot be set at the same time as millisecond.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000.	When configuring conservative, incremental must be set; minimum cannot be set at the same time as millisecond.
conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • ture—Enable route calculation is based on the maximum time interval. • false—Disable route calculation is based on the maximum time interval.	Conservative cannot be set at the same time as millisecond.
millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000.	Millisecond cannot be set at the same time as maximum ,minimum, incremental and conservative.
metric-bandwidth-advertise	Advertise link bandwidth metric information in LSAs	N/A	Boolean: • true—Enable OSPFv3 to advertise link bandwidth metric information in LSAs. • false—Disable OSPFv3 to advertise link bandwidth metric information in LSAs (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
metric-bandwidth-suppress-time	Suppress advertisement time of link bandwidth metric information	N/A	Unsigned integer. Value range: 0 to 600s. Default: 120s.	NA
metric-delay-advertise	Advertise link delay metric information in LSAs	N/A	Boolean: • true—Enable OSPFv3 to advertise link delay metric information in LSAs. • false—Disable OSPFv3 to advertise link delay metric information in LSAs (default).	N/A
metric-delay-suppress	Suppress advertisement of link delay.	Data structure	Members include: • suppress-time. • suppress-threshold-percent. • suppress-threshold-absolute.	N/A
suppress-time	Suppress advertisement time of link delay metric information	N/A	Unsigned integer. Value range: 0 to 600s. Default: 120s.	N/A
suppress-threshold-percent	Specify the percentage delay variation threshold	N/A	Unsigned integer. Value range: 0 to 100. Default: 10.	N/A
suppress-threshold-absolute	Specify the absolute delay variation threshold	N/A	Unsigned integer. Value range: 0 to 10000us. Default: 1000us.	N/A
FrrMirror	Fast reroute mirror.	Data structure	Members include: • Enable. • DeleteDelayTime.	
Enable	Enable SRv6 path egress protection.	N/A	Boolean: • true—Enable SRv6 path egress protection • false—Does not enable SRv6 path egress protection.	N/A
DeleteDelayTime	Specify a delay for deleting the mirror FRR path	N/A	Unsigned integer. Value range: 1 to 21845s. Default: 60s.	N/A
TiLfa	Topology-Independent Loop-Free	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Alternate FRR.		• Enable. • PerPrefix. • Host. • RoutePolicy.	
Enable	Enable OSPFv3 TI-LFA FRR.	N/A	Boolean: • true—Enable TI-LFA FRR. • false—Does not enable TI-LFA FRR.	N/A
PerPrefix	Per-prefix calculation.	N/A	Boolean: • true—Calculates backup information for each advertising source of a route. • false—Calculates backup information for each route.	N/A
Host	Enable TI-LFA for host routes.	N/A	Boolean: • true—Enable TI-LFA for host routes. • false—Does not enable TI-LFA for host routes.	
RoutePolicy	Enable TI-LFA FRR for prefixes identified by the routing policy.	N/A	String, case-sensitive. Length: 1 to 63 characters.	
advertise-link-attributes-te	Advertise TE information in application link attributes.	N/A	Boolean: • **true**—Advertise TE information in application link attributes. • **false**—Do not advertise TE information in application link attributes.	N/A
suppress-intra-te-link-attributes	Suppress advertisement of TE information by intra-TE LSAs.	N/A	Boolean: • **true**—Suppress advertisement of TE information by intra-TE LSAs. • **false**—Do not suppress advertisement of TE information by intra-TE LSAs.	N/A
virtual-system	Whether to use virtual OSPFv3 nodes for	N/A	Boolean: • **true**—Use virtual OSPFv3 nodes for	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	neighbor relationship establishment		neighbor relationship establishment. • **false—**Do not use virtual OSPFv3 nodes for neighbor relationship establishment.	
lsa-generation-interval	Time interval of OSPFv3 lsa generation.	N/A	Members include: • maximum. • minimum. • incremental.	N/A
maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60(seconds).	
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000(milliseconds).	OSPFv3 Minimum interval should not be greater than maximum interval.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000(milliseconds).	OSPFv3 Incremental interval should not be greater than maximum interval.
lsa-arrival-interval	Time interval of OSPF route lsa arrival.	Data structure	Members include: • maximum. • minimum. • incremental.	N/A
maximum	Maximum time interval.	N/A	Unsigned integer. Value range:0 to 10000 (milliseconds).	
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 0～1000 (milliseconds).	When configuring minimum and incremental, must be less than maximum.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 1～5000 (milliseconds).	When configuring minimum and incremental, must be less than maximum.
default-route-advertise	Default route redistribtution information.	Data structure	Members include: • cfg-type. • cost. • route-policy-name • type.	N/A
cfg-type	Default route redistribtution method	N/A	String: case-sensitive: • disable. • normal. • always. • permit-calculate-other.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
cost	Cost for the default route.	N/A	String. Length: 1 to 31 characters.	This column cannot be specified when the cfg-type column is “disable”. It must be “default” or an unsigned integer in the range of 0 to 16777214.
route-policy-name	Specifies a routing policy to filter default routes.	N/A	String, case-sensitive. Length: 1 to 63 characters.	This column cannot be specified when the cfg-type column is “disable”.
type	Specifies a type for the Type-5 LSA.	N/A	String: case-sensitive: • default. • type1 • type2	This column cannot be specified when the cfg-type column is “disable”.
stub-router	Specifies the router as a stub router.	Data structure	Members include: • cfg-type. • on-startup • on-startup-timeout • include-stub. • external-lsa. • external-metric. • summary-lsa. • summary-metric.	N/A
cfg-type	Configures the type of stub-router.	N/A	String: case-sensitive: • r-bit. • max-metric.	N/A
on-startup	Specifies the router as a stub router during reboot.	N/A	String: case-sensitive: • disable. • enable. • wait-for-bgp.	N/A
on-startup-timeout	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400, in seconds.	Cannot be specified when on-startup is disable. When wait-for-bgp is specified, the default value for on-startup-timeout is 600 seconds.
include-stub	Sets the cost of the stub links.	N/A	String: case-sensitive: • disable • enable.	N/A
external-lsa	Configures the cost of external LSAs.	N/A	String: case-sensitive: • disable. • enable.	For the create and merge operations, if you both configure the external-lsa and external-metric, you must specify the external-lsa as enable.

Column name	Column description	Column type	Data type and restrictions	Remarks
				For the replace operation, if you configure the external-metric, you must configure the external-lsa too, and specify the external-lsa as enable. For the delete and remove operations, if you configure the external-lsa, the external-metric value will be deleted.
external-metric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
summary-lsa	Configures the cost of the summary LSAs.	N/A	String: case-sensitive: • disable. • enable.	For the create and merge operations, if you both configure the summary-lsa and summary-metric, you must specify the summary-lsa as true. For the replace operation, if you configure the summary-metric, you must configure the summary-lsa too, and specify the summary-lsa as true. For the delete and remove operations, if you configure the summary-lsa, the summary-metric value will be deleted.
summary-metric	Cost of the summary LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
srv6-microloop-avoid	Microloop-avoidance information for OSPFv3 SRv6.	Data structure	Members include: • enable. • rib-update-delay	N/A
enable	Enable microloop-avoidance for OSPFv3 SRv6	N/A	Boolean: • **false**—Disable microloop-avoidance for OSPFv3 SRv6 • **true**—Enable microloop-avoidance for OSPFv3 SRv6	N/A
rib-update-delay	The	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	microloop-avoidance RIB-update-delay time for OSPFv3 SRv6		Value range 1 to 60000(milliseconds).	
areas	Information of the areas	Sublist	The details of the sublist refer to areas table.	N/A
redistributes	Information of the redistributed routes	Sublist	The details of the sublist refer to redistributed route table.	N/A
srv6-locators	Information of the srv6 locators	Sublist	The details of the sublist refer to srv6-locators table.	N/A
filter-policy-exports	Information of the filter policy exports	Sublist	The details of the sublist refer to filter-policy-exports table.	N/A
filter-policy-import	Information of the filter policy imports	Subtable	The details of the subtable refer to filter-policy-imports table.	N/A
asbr-summary-entries	Information of the ASBR summary entries	Sublist	The details of the sublist refer to asbr-summary-entries table.	N/A
flex-algos	Information of the flex-algos	Sublist	The details of the sublist refer to flex-algos table.	N/A
affinity-maps	Information of the affinity maps	Sublist	The details of the sublist refer to affinity-maps table.	N/A
preferences	Information of the preferences	Sublist	The details of the sublist refer to preferences table.	N/A

ietf_ospfv3/areas

This table contains area configuration information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3

Item	Description
Table name	areas
Table type	Multi-instance table
Row name	area
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
area-id	Area ID	Index	String, dotted decimal notation.	N/A
area-type	Area type	N/A	Enumeration: • **0**—Normal. • **1**—Stub. • **2**—NSSA.	N/A
description	The description information of OSPFv3 area.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
keychain	Specify a keychain for authentication.	N/A	String: case sensitive. Length: 1 to 63 characters.	Keychain cannot be set at the same time as authentication.
authentication	Area authentication	Data structure	Members include: • mode • key-id • password-type • password	Authentication cannot be set at the same time as keychain.
mode	Authentication mode	N/A	String, case-sensitive. Supported strings: • hmac-sha-256 • hmac-sm3	N/A
key-id	Authentication key ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
password-type	Password type	N/A	Enumeration: • 1—Cipher. • 2—Plain.	N/A
password	Password string	N/A	String, case-sensitive. Length: • 1 to 255 characters for plain password. • 33 to 373 characters for cipher password.	N/A
interfaces	Information of the interfaces	Sublist	The details of the sublist refer to interfaces table.	N/A

ietf_ospfv3/areas/interfaces

This table contains interface information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
instance-id	Interface instance ID	N/A	Unsigned integer.	It must be an unsigned char in the range of 0 to 255.
interface-type	Specifies the network type of the interface.	N/A	String: case-sensitive: • broadcast. • non-broadcast. • point-to-multipoint. • point-to-multipoint-unicast. • point-to-point.	N/A
hello-interval	Hello interval.	N/A	Unsigned integer. Value range:1 to 65535.	N/A
dead-interval	Dead interval.	N/A	Unsigned integer. Value range:1 to 65535.	N/A
cost	Interface cost.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: • Loopback interfaces: 0 to 65535. • Other interfaces: 1 to 65535.	
mtu-ignore	Whether or not to check the MTU when interface exchanges the DD packet.	N/A	Boolean: • ture—Ignore the MTU check when interface exchanges the DD packet. • false—Check the MTU when interface exchanges the DD packet.	N/A
neighbors	Information of the neighbors	Sublist	The details of the sublist refer to neighbors table.	N/A
bfd	Support for BFD detection of OSPF neighbor reachability	Data structure	Members include: • enable.	N/A
enable	Enable bfd	N/A	Boolean: • true—enable bfd • false—disable bfd	
priority	Configure OSPF router priority	N/A	Unsigned char. Value range:0 to 255	N/A
prefix-suppression	Suppress advertisement of the prefixes associated with the interface.	N/A	Boolean: • true—enable suppress • false—disable suppress	N/A
poll-interval	Poll interval	N/A	Unsigned short. Value range:1 to 65535	N/A
retransmit-interval	Retransmit interval	N/A	Unsigned short. Value range:1 to 3600	N/A
transmit-delay	Transmit delay	N/A	Unsigned short. Value range:1 to 3600	N/A
keychain	Specify a keychain for authentication.	N/A	String: case sensitive. Length: 1 to 63 characters.	Keychain cannot be set at the same time as authentication.
authentication	Interface authentication	Data structure	Members include: • mode • key-id • password-type • password	Authentication cannot be set at the same time as keychain.
mode	Authentication mode	N/A	String, case-sensitive. Supported strings: • hmac-sha-256	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• hmac-sm3	
key-id	Authentication key ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
password-type	Password type	N/A	Enumeration: • 1—Cipher. • 2—Plain.	N/A
password	Password string	N/A	String, case-sensitive. Length: • 1 to 255 characters for plain password. • 33 to 373 characters for cipher password.	N/A
lfa-exclude	Prohibit the interface from participating in LFA calculation.	N/A	Boolean: • true—enable lfa-exclude. • false—disable lfa-exclude.	N/A
primary-path-detect	BFD session mode.	N/A	Enumeration: • 1—ctrl. • 2—echo.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
link-delay-average	Specify the link delay values	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A
link-delay-min	Specify the minimum delay value	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A
link-delay-max	Specify the maximum delay value	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A
link-delay-variation	Specify the delay variation	N/A	Unsigned integer. Value range:1 to 16777215us.	N/A
Frr	Fast reroute messages.	Data structure	Members include: • TiLfaDisable.	N/A
TiLfaDisable	Disable Ti-Lfa	N/A	Boolean: • true—Disable Ti-Lfa • false—Enable Ti-Lfa	N/A
neighbors	Information of the neighbors	Sublist	The details of the sublist refer to neighbors table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
affinity-name	Set affinity attribute on the interface.	N/A	String, case-sensitive. Length: 1 to 32 characters.	Repeat supported for 32 times.
link-quality-adjust-cost	Set the value to be added to the interface cost when the link quality changes to LOW	N/A	Unsigned integer. Value range: 1 to 65535.	The value to be added to the interface cost is in the range of 1 to 65534. The maximum interface cost is 65535.
cost-adjust-track	Associate a track entry for interface cost adjustment	N/A	Unsigned integer. Value range: 1 to 1024.	cost-adjust-offset and cost-adjust-track must be set together.
cost-adjust-offset	Set the value to be added to the interface cost when the track status changes to Negative	N/A	Unsigned integer. Value range: 1 to 65535.	cost-adjust-offset and cost-adjust-track must be set together. The value to be added to the interface cost is in the range of 1 to 65534. If you set the value for cost-adjust-offset to 65535, the interface will use the maximum interface cost when the track status changes to Negative.
virtual-system	Information about virtual system configuration.	Data structure	Members include: • enable • router-id	N/A
enable	Whether to use virtual OSPFv3 nodes for neighbor relationship establishment	N/A	Boolean: • **true**—Use virtual OSPFv3 nodes for neighbor relationship establishment. • **false—**Do not use virtual OSPFv3 nodes for neighbor relationship establishment.	N/A
router-id	Set a virtual OSPFv3 router ID	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
silent	Suppress routing updates on the interface	N/A	Enumeration: • **0**—Do not suppress routing updates on the interface. • **1**—Suppress routing updates on the interface.	N/A
bfd-adjust-cost	Adjust the OSPFv3 interface cost according to the BFD session state.	N/A	Enumeration: • **1~65534**—Value to be added to the interface cost when the BFD session goes down. • **max**—Set the interface cost to the maximum value 65534 when the BFD session goes down. • **none**—Do not adjust cost (default).	N/A
bfd-adjust-cost-suppress	Suppress OSPFv3 interface cost adjustment upon BFD session state changes.	Data structure	Members include: • resume-interval. • detect-interval. • threshold	N/A
resume-interval	Specify the resume interval to delay restoring the interface cost.	N/A	Unsigned integer. Value range: 0 to 600 seconds.	N/A
detect-interval	Specify the detect interval for collecting statistics of BFD session down events.	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
threshold	Specify the number of BFD session down events that triggers an interface cost adjustment.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
peer-hold-maxcost-duration	Advertise the maximum link cost to neighbors within the specified period of time	N/A	Unsigned integer. Value range: 100 to1000000 (milliseconds)	N/A
database-filter	Filter outbound LSAs on the interface.	Data structure	Members include: • all • external • external-acl • nssa	The set operation is subject to the last issuance.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• nssa-acl • inter-prefix • inter-prefix-acl	
all	Filter all LSAs except the Grace LSAs	N/A	String: case-sensitive: • disable—Do not filter any LSA. • enable—Filter all LSAs except the Grace LSAs	Cannot be configured simultaneously with external, external-acl, nssa, nssa-acl, inter-prefix or inter-prefix-acl attributes.
external	Filter type-5 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-5 LSAs. • enable—Filters type-5 LSAs.	Cannot be configured simultaneously with the all attribute.
external-acl	Filter type-5 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the external attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
nssa	Filter type-7 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-7 LSAs. • enable—Filters type-7 LSAs.	Cannot be configured simultaneously with the all attribute.
nssa-acl	Filter type-7 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the nssa attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
inter-prefix	Filters type-3 LSAs.	N/A	String: case-sensitive: • disable- Do not filters Filters type-3 LSAs. • enable- Filters Filters type-3 LSAs.	Cannot be configured simultaneously with the all attribute.
inter-prefix-acl	Filters type-3 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String.	Must be configured with the inter-prefix attibute. If this attribute is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
database-filter-peers	Information of the database-filter-peers on interface	Sublist	The details of the sublist refer to database-filter-peers table.	N/A

ietf-ospfv3/areas/interfaces/neighbors

This table contains neighbors information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	neighbors
Table type	Multi-instance table
Row name	neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-router-id	Neighbor router ID	Index	String, dotted decimal notation.	N/A
address	Neighbor IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
state	Neighbor state type	N/A	Enumeration: • **1**—Neighbor down state. • **2**—Neighbor attempt state. • **3**—Neighbor init state • **4**—Neighbor 2-Way state • **5**—Neighbor exchange	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			start state • **6**—Neighbor exchange state • **7**—Neighbor loading state • **8**—Neighbor full state	
priority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
state-change-count	Count of neighbor state changes.	N/A	Unsigned integer.	N/A
type	Neighbor identification method	N/A	Enumeration: • **1**—dynamic. **2**—permanent.	N/A
global-unicast-address	global-unicast-address	N/A	Hexadecimal string, colon-separated.	N/A

ietf_ospfv3/redistributes

This table contains redistributed route information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	redistributes
Table type	Multi-instance table
Row name	redistribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	Protocol.	Index	String: case-sensitive: • bgp. • direct. • isisv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ospfv3. • ripng. • static. • unr.	
redist-name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
allow-ibgp	Allow IBGP routes when importing BGP routes.	N/A	Boolean: • true—Import IBGP routes when importing BGP routes. • false—Does not import IBGP routes when importing BGP routes.	N/A
allow-direct	Allow direct routes when importing ISISv6, OSPFv3 or RIPng routes.	N/A	Boolean: • true—Import direct routes when importing ISISv6, OSPFv3 or RIPng routes. • false—Does not import direct routes when importing ISISv6, OSPFv3 or RIPng routes.	N/A
metric	Interface cost.	N/A	Unsigned integer. Value range:0 to 16777214.	N/A
metric-type	Specifies a metric type for the Type-7 LSA.	N/A	Enumeration: • 1—Type 1. • 2—Type 2.	N/A
inherit-cost	Whether or not to inherit the cost of the routes	N/A	Boolean: • true—Inherit the cost from protocol. • false—Does not inherit the cost from protocol.	N/A
nssa-only	Limits routes to NSSA areas.	N/A	Boolean: • true—Limits routes to NSSA areas. • false—Does not limit routes to NSSA areas.	N/A
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ietf_ospfv3/instance/srv6-locators

This table contains srv6 locator information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	srv6-locators
Table type	Multi-instance table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	SRv6 locator name.	Index	String. Length: 1 to 31 characters.	N/A

ietf_ospfv3/instance/filter-policy-exports

This table contains filter policy exports information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	filter-policy-exports
Table type	Multi-instance table
Row name	filter-policy-export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-export	Protocol type.	Index	Enumeration: • 0—All. • 1—Direct. • 2—Static. • 3—RIPNG • 4—OSPFV3 • 5—ISISV6 • 6—BGP4+ • 9—UNR.	N/A
instance-name-export	Instance name.	Index	String. Length: 0 to 31 characters.	It will be empty when the protocol-export column is Direct, Static, BGP4+, UNR, or All.
ipv6-acl-num	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	N/A
prefix-list-name	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	N/A

ietf_ospfv3/instance/filter-policy-import

This table contains filter plicy import information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	filter-policy-import
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-acl-num	IPV6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	N/A
prefix-list-name	Name of the prefix list	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
gateway	Name of the gateway prefix list	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A

ietf_ospfv3/instance/asbr-summary-entries

This table contains ASBR summary information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	asbr-summary-entries
Table type	Multi-instance table
Row name	asbr-summary-entrys
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
prefix-length	Mask length of prefix.	Index	Unsigned integer. Value range: 1 to 128.	No more than 128.
cost	Summary route cost.	N/A	Unsigned integer. Value range: 1 to 16777214.	If it is not configured, the largest cost among

Column name	Column description	Column type	Data type and restrictions	Remarks
				the summarized routes applies. If the routes in Type-5 LSAs translated from Type-7 LSAs are Type-2 external routes, the largest cost among the summarized routes plus 1 applies.
advertise	Advertise summary route.	N/A	Boolean: • true—Advertise summary route. • false—Dose Not advertises summary route.	N/A
nssa-only	Limits summary routes to NSSA areas.	N/A	Boolean: • true—Limits summary routes to NSSA areas. • false—Does not limit summary routes to NSSA areas.	N/A
tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

ietf_ospfv3/instance/flex-algos

This table contains flex-algos information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	Flex-algos
Table type	Multi-instance table
Row name	Flex-algo
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
algorithm-id	Flexible algorithm id	Index	Unsigned integer. Value range: 128 to 255.	N/A
advertise	Whether to advertise local algorithm.	N/A	Boolean: • true—Advertise local algorithm. • false—Does not advertise local algorithm.	N/A
priority	Priority value.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
frr-enable	Whether to enable fast-reroute.	N/A	Boolean: • true—Enable fast-reroute. • false—Does not enable fast-reroute.	N/A
exclude-any	Exclude-all affinity rules on the algorithm calculation.	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times. The members of AttributeName must be specified on the instance.
include-any	Include-any affinity rules on the algorithm calculation.	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times. The members of AttributeName must be specified on the instance.
include-all	Include-all affinity rules on the algorithm calculation.	N/A	String : case-sensitive: Length: 1 to 32 characters.	Repeat supported for 32 times. The members of AttributeName must be specified on the instance.
metric-type	Type of metric to be used during algorithm calculation.	N/A	Enumeration: • **0**—IGP metric. • **1**—Minimum unidirectional link delay. • **2**—TE default metric.	N/A
tilfa	TILFA for flexible algorithm.	Data structure	Members include: • enable. • per-prefix.	N/A
enable	Enable TILFA for flexible algorithm.	N/A	Boolean: • true—Enable TILFA for flexible algorithm. • false—Does not enable TILFA for flexible algorithm.	N/A
per-prefix	Calculate TILFA	N/A	Boolean: • true—Calculate TILFA	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	per-prefix.		per-prefix. • false—Does not calculate TILFA per-prefix.	
frr-tie-breaker	Priority of an FRR backup path selection policy for a flexible algorithm.	Data structure	Members include: • lowest-cost-pref. • node-protect-pref.	N/A
lowest-cost-pref	Preference of link protection.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	N/A
node-protect-pref	Preference of node protection.	N/A	Unsigned integer. Value range: 1 to 255. Default: 40.	N/A

ietf_ospfv3/instance/affinity-maps

This table contains affinity-maps information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	affinity-maps
Table type	Multi-instance table
Row name	affinity-map
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
attribute-name	Name of attribute.	Index	String : case-sensitive: Length: 1 to 32 characters.	N/A
bit-position	Bit position of attribute.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

ietf_ospfv3/instance/preferences

This table contains preferences information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3
Table name	preferences
Table type	Multi-instance table
Row name	preference
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
route-type	Route type	Index	String: case-sensitive: • non-ase. • ase.	
value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
route-policy-name	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A

ietf_ospfv3/areas/interfaces/database-filter-peers

This table contains database filter peer information of ietf-ospfv3.

XML structure

Please refer to the XML Structure of ietf-ospfv3/ospfv3.

Table description

Item	Description
Feature name	ietf_ospfv3

Item	Description
Table name	database-filter-peers
Table type	Multi-instance table
Row name	database-filter-peer
Restrictions	This table supports only Layer 3 interfaces. You cannot modify the instance-id of the specified process on the interfaces after creating it. If you need do this, you must delete the row and then create it again.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-address	Neighbor IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
all	Filter all LSAs except the Grace LSAs	N/A	String: case-sensitive: • disable—Do not filter any LSA. • enable—Filter all LSAs except the Grace LSAs	Cannot be configured simultaneously with external, external-acl, nssa, nssa-acl, inter-prefix or inter-prefix-acl attributes.
external	Filter type-5 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-5 LSAs. • enable—Filters type-5 LSAs.	Cannot be configured simultaneously with the all attribute.
external-acl	Filter type-5 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the external attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
nssa	Filter type-7 LSAs.	N/A	String: case-sensitive: • disable—Do not filter type-7 LSAs. • enable—Filters type-7 LSAs.	Cannot be configured simultaneously with the all attribute.
nssa-acl	Filter type-7 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the nssa attibute. If this attribute is ACL number,it must be in the range of

Column name	Column description	Column type	Data type and restrictions	Remarks
				2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".
inter-prefix	Filters type-3 LSAs.	N/A	String: case-sensitive: • disable- Do not filters Filters type-3 LSAs. • enable- Filters Filters type-3 LSAs.	Cannot be configured simultaneously with the all attribute.
inter-prefix-acl	Filters type-3 LSAs with ACL.	N/A	Unsigned integer. Value range: 2000 to 3999. String. Length: 1 to 63 characters.	Must be configured with the inter-prefix attibute. If this attribute is ACL number,it must be in the range of 2000~3999. If this attribute is ACL name, it must start with [a-z,A-Z] and cannot be "all".

Example

获取 ospfv3 实例信息

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get-bulk>
    <filter type="subtree">
      <v:routing xmlns:v="urn:ietf:params:xml:ns:yang:ietf-routing">
        <v:control-plane-protocols>
          <v:control-plane-protocol>
            <v:type>ospfv3</v:type>
            <v:name>30</v:name>
            <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
              <b:instance>
                <b:af>ipv6</b:af>
                <b:explicit-router-id/>
                <b:nsr>
                  <b:enable>true</b:enable>
                </b:nsr>
              <b:srv6-policy-autoroute></b:srv6-policy-autoroute>
              <b:metric-bandwidth-advertise>true</b:metric-bandwidth-advertise>
              <b:metric-bandwidth-suppress-time>180
              </b:metric-bandwidth-suppress-time>
              <b:metric-delay-advertise>true</b:metric-delay-advertise>
              <b:metric-delay-suppress>
                <b:suppress-time>180</b:suppress-time>
                <b:suppress-threshold-percent>10</b:suppress-threshold-percent>
```

```
                <b:suppress-threshold-absolute>1000
                </b:suppress-threshold-absolute>
              </b:metric-delay-suppress>
              <b:FrrMirror>
                <b:Enable>true</b:Enable>
                <b:DeleteDelayTime>100</b:DeleteDelayTime>
              </b:FrrMirror>
              <b:TiLfa>
                <b:Enable>true</b:Enable>
                <b:PerPrefix>true</b:PerPrefix>
                <b:Host>false</b:Host>
                < b:RoutePolicy >aaa</b:RoutePolicy >
              </b:TiLfa>
      <b:advertise-link-attributes-te>true</b:advertise-link-attributes-te>
<b:suppress-intra-te-link-attributes>true</b:suppress-intra-te-link-attributes>
              <b:virtual-system>true</b:virtual-system>
              <b:default-route-advertise>
                <b:cfg-type>always</b:cfg-type>
                <b:cost>10</b:cost>
                <b:route-policy-name>aaa</b:route-policy-name>
                < b:type>type1</b:type>
              </b:default-route-advertise>
              <b:stub-router>
                <b:cfg-type>r-bit</b:cfg-type>
                <b:on-startup>wait-for-bgp</b:on-startup>
                <b:on-startup-timeout>100</b:on-startup-timeout>
                <b:include-stub>enable</b:include-stub>
                <b:external-lsa>enable</b:external-lsa>
                <b:external-metric>200</b:external-metric>
                <b:summary-lsa>enable</b:summary-lsa>
                <b:summary-metric>100</b:summary-lsa>
              </b:stub-router>
               <b:srv6-microloop-avoid>
                 <b:enable>true</b:enable>
                 <b:rib-update-delay>1000</b:rib-update-delay
              </b:srv6-microloop-avoid>
              <b:areas>
                 <b:area>
                    <b:area-id>0.0.0.30</b:area-id>
                    <b:area-type/>
                    <b:interfaces>
                       <b:interface>
                          <b:name>5</b:name>
                          <b:instance-id/>
                          <b:interface-type>broadcast</b:interface-type>
                          <b:hello-interval>50</b:hello-interval>
                          <b:dead-interval>200</b:dead-interval>
                          <b:cost>100</b:cost>
```

```
                              <b:mtu-ignore>true</b:mtu-ignore>
                              <b:link-delay-average>60</b:link-delay-average>
                              <b:link-delay-min>10</b:link-delay-min>
                              <b:link-delay-max>460</b:link-delay-max>
                              <b:link-delay-variation>50</b:link-delay-variation>
                              <b:Frr>
                                <b:TiLfaDisable>true</b:TiLfaDisable>
                              </b:Frr>
                              <b:affinity-name>red</b:affinity-name>
                              <b:affinity-name>blue</b:affinity-name>
                              <b:virtual-system>
                                <b:enable>true</b:enable>
                                <b:router-id>1.1.1.1</b:router-id>
                              </b:virtual-system>

<b:peer-hold-maxcost-duration>300</b:peer-hold-maxcost-duration>
                              <b:database-filter>
                                <b:all>enable</b:all>
                               </b:database-filter>
                                <b:database-filter-peers>
                                  <b:database-filter-peer>
                                    <b:peer-address>fe80::1</b:peer-address>
                                    <b:all>enable</b:all>
                                  </b:database-filter-peer>
                               </b:database-filter-peers>
                            </b:interface>
                          </b:interfaces>
                        </b:area>
                      </b:areas>
                      <b:redistributes>
                        <b:redistribute>
                          <b:protocol>ospfv3</b:protocol>
                          <b:redist-name>1</b:redist-name>
                          <b:allow-direct>1</b:allow-direct>
                          <b:metric>2</b:metric>
                          <b:metric-type>1</b:metric-type>
                          <b:inherit-cost>false</b:inherit-cost>
                          <b:nssa-only>false</b:nssa-only>
                          <b:route-policy-name>abc</b:route-policy-name>
                          <b:tag>1</b:tag>
                        </b:redistribute>
                      </b:redistributes>
                      <b:srv6-locators>
                        <b:locator>
                          <b:name>abc</b:name>
                        </b:locator>
                      </b:srv6-locators>
                      <b:asbr-summary-entries>
                        <b:asbr-summary>
```

```
              <b:prefix>100::1</b:prefix>
              <b:prefix-length>64</b:prefix-length>
              <b:cost>20</b:cost>
              <b:advertise>true</b:advertise>
              <b:nssa-only>false</b:nssa-only>
              <b:tag>50</b:tag>
            </b:asbr-summary>
          </b:asbr-summary-entries>
          <b:flex-algos>
            <b:flex-algo>
              <b:algorithm-id>129</b:algorithm-id>
              <b:advertise>true</b:advertise>
              <b:priority>10</b:priority>
              <b:frr-enable>true</b:frr-enable>
              <b:exclude-any>red</b:exclude-any>
              <b:exclude-any>aa</b:exclude-any>
              <b:include-any>a1</b:include-any>
              <b:include-any>10</b:include-any>
              <b:include-all>yellow</b:include-all>
              <b:include-all>blue</b:include-all>
              <b:metric-type>1</b:metric-type>
              <b:tilfa>
                <b:enable>true</b:enable>
                <b:per-prefix>false</b:per-prefix>
              </b:tilfa>
              <b:frr-tie-breaker>
                <b:lowest-cost-pref>100</b:lowest-cost-pref>
                <b:node-protect-pref>80</b:node-protect-pref>
              </b:frr-tie-breaker>
            </b:flex-algo>
          </b:flex-algos>
          <b:affinity-maps>
            <b:affinity-map>
              <b:attribute-name>red</b:attribute-name>
              <b:bit-position>10</b:bit-position>
            </b:affinity-map>
          </b:affinity-maps>
          <b:preferences>
            <b:preference>
            <b:route-type>ase</b:route-type>
            <b:value>10</b:value>
            <b:route-policy-name>aa</b:route-policy-name>
          </b:preference>
          </b:preferences>
        </b:instance>
      </b:ospfv3>
    </v:control-plane-protocol>
  </v:control-plane-protocols>
```

```
        </v:routing>
      </filter>
    </get-bulk>
  </rpc>
```

Contents

OSPFv3 1

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols 1
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance 2
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/areas 4
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/areas/interfaces 5
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/redistributes 8
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/srv6-locators 8
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/asbr-summary-entries 9
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/ flex-algos 9
ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/ affinity-maps 10

OSPFv3

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols

Message	Explanation
Cannot delete the backbone area. The backbone area has a virtual link settings. 骨干区域存在虚连接配置，不允许删除骨干区域。	Delete virtual link settings before you delete the backbone area.
The area is a transit area. Please delete the virtual link first. 当前区域为传输区，请先删除虚连接。	Delete virtual link settings before you delete the area.
The OSPFv3 interface is being deleted. Please try again later. OSPFv3接口正在被删除，请稍后重试。	Please try again later
Insufficient memory resources. 内存资源不足。	Insufficient memory resources.
The specified OSPFv3 area does not exist. 指定的OSPFv3区域不存在。	Please create the ospfv3 area first.
The OSPFv3 process will enter or is in GR process. Please try again later. OSPFv3进程即将进入或正在进行平滑重启，请稍后重试。	Please try again later
The OSPFv3 process is in GR process. Please try again later. OSFPv3进程正在平滑，请稍后重试。	Please try again later
The specified VPN instance does not exist. 指定的VRF实例不存在。	Please config the VPN instance before you config an ospfv3 process with VPN instance.
The process ID already exists in another VPN instance. 进程ID已经存在于另一个VRF实例下。	Please delete the ospfv3 process and config it again if you want to change the VPN instance.
The specified VPN instance is being deleted. 指定VRF实例正在被删除。	Please try again later.
The interface must be in same VPN instance with the current process. 接口与关联的OSPFv3进程必须属于相同的VRF。	Please bind the same VPN instance to the interface with current process.
The number of OSPFv3 processes exceeds the limit. OSPFv3进程数超过最大限制。	The max number of ospfv3 processes is 65535.
The system is disabling the OSPFv3 process or clearing the OSPFv3 process data. Please try again later. 正在关闭OSPFv3进程或清除OSPFv3进程数据，请	Please try again later.

稍后重试。	
Lite OSPFv3 process cannot be modified to a normal OSPFv3 process. 轻量级OSPFv3进程不能修改为普通OSPFv3进程。	The lite OSPFv3 process already exists，the process cannot be modified to a normal OSPFv3 process. 轻量级进程已存在，不能配置为普通进程。
普通OSPFv3进程不能修改为轻量级OSPF进程。 Normal OSPFv3 process cannot be modified to a lite OSPF process.	The normal process ID already exists，the process cannot be modified to a lite OSPFv3 process. 普通进程已存在，不能重复配置轻量级进程。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance

Message	Explanation
Invalid Router ID. 无效的Router ID。	The router ID can not be all zero.
The router ID already exists. Router ID已存在。	Can not change router ID, please delete it first.
The router ID already exists in another process. Router ID已配置在另一个进程。	The router ID already exists in another process.
OSPFv3 isn't configured. 没有配置OSPFv3。	OSPFv3 service has not been started.
The configuration is not allowed in current VSYS. Please try other interfaces or OSPFv3 processes. 当前VSYS下无法完成该配置，请尝试在其他接口或OSPFv3进程下执行该配置。	The specified OSPFv3 does not belong to this VSYS, or the interface is allocated to other VSYS.
The command applies only to an OSPFv3 process of the specified VPN instance. 只有VPN实例下的OSPFv3进程才允许执行本操作。	The command is applicable only to VPN OSPFv3 processes.
The lfa-enable and route-policy-name attributes are mutually exclusive. 属性列lfa-enable与route-policy-name是冲突列，不能同时存在。	The lfa-enable and route-policy-name attributes are mutually exclusive.
The abr-only and ecmp-type attributes are mutually exclusive. 属性列abr-only与ecmp-type是冲突列，不能同时存在。	The abr-only and ecmp-type attributes are mutually exclusive. 属性列abr-only与ecmp-type是冲突列，不能同时存在。
To configure this attribute, you must also configure the lfa-enable attribute. 配置当前属性列时需同时配置lfa-enable属性列。	To configure this attribute, you must also configure the lfa-enable attribute.
To configure this attribute, you must set the value of the lfa-enable attribute to true. 配置当前属性列时需同时配置lfa-enable属性列为TRUE。	To configure this attribute, you must set the value of the lfa-enable attribute to true.

The maximum time interval should not be less than the minimum time interval. 最大时间间隔应当不小于最小时间间隔。	OSPF Minimum interval should be not greater than maximum interval. OSPF协议最小时间不应当大于最大时间。
The maximum time interval should not be less than the penalty time interval. 最大时间间隔应当不小于惩罚时间间隔。	OSPF Incremental interval should be not greater than maximum interval. OSPF协议惩罚时间不应当大于最大时间。
The fixed time interval cannot be configured at the same time as the maximum time interval, minimum time interval, penalty time, and whether to configure according to the maximum time interval. 固定时间间隔不能和最大时间间隔，最小时间间隔，惩罚时间，及是否按最大时间间隔配置同时配置。	Msecintvl and maximum, minimum, incremental, bconservative are mutually exclusive. 固定时间间隔和最大时间间隔，最小时间间隔，惩罚时间，及是否按最大时间间隔配置不能同时配置。
Conservite can be delivered only when the maximum time interval, minimum time interval, and penalty time interval are all set. Conservite只有在最大时间间隔，最小时间间隔和惩罚时间间隔都设置时才能下发。	Conservite can be set only when the maximum time interval, minimum time interval and penalty time interval are all set. 当最大时间间隔，最小时间间隔和惩罚时间间隔都设置时才能下发Conservite。
The attribute columns of Spf-schedule need to be configured in sequence. Spf-schedule的属性列需要依次配置。	Need to be configured in the order of maximum, minimum, incremental, conservative. 需要依照maximum，minimum，incremental，conservative顺序配置。
不能单独删除Spf-schedule的属性列。 Cannot delete the attribute column of Spf-schedule alone.	The attribute columns of attribute group Spf-schedule must be deleted at the same time. 属性组Spf-schedule的属性列必须同时删除。
The attribute columns of attribute group metric-delay-suppress must be configured at the same time. 必须同时配置metric-delay-suppress属性组中的所有属性列。	Suppress-time, suppress-threshold-percent and suppress-threshold-absolute must be configured at the same time. 必须同时配置suppress-time、suppress-threshold-percent和suppress-threshold-absolute。
Other attribute column in this group cannot be configured at the same time when enable column is set as false. 当Enable为false时不能同时配置其他属性列。	Other attribute column in this group cannot be configured at the same time when enable column is set as false. 当Enable为false时不能同时配置其他属性列。
RoutePolicy and host attribute column cannot be configured at the same time. Host和RoutePolicy不能同时被配置。	RoutePolicy and host attribute column cannot be configured at the same time. Host和RoutePolicy不能同时被配置。
Lite OSPFv3 process cannot be modified to a normal OSPFv3 process. 轻量级OSPFv3进程不能修改为普通OSPFv3进程。	The lite OSPFv3 process already exists，the process cannot be modified to a normal OSPFv3 process.轻量级进程已存在，不能配置为普通进程。
Normal OSPFv3 process cannot be modified to a lite OSPF process. 普通OSPFv3进程不能修改为轻量级OSPF进程。	The normal process ID already exists，the process cannot be modified to a lite OSPFv3 process. 普通进程已存在，不能重复配置轻量级进程。
The column is only supported in non-default vSystem. 只有在非缺省vSystem下支持该配置。	The attribute columns is only supported in non-default vSystem. 该属性列只有在非缺省vSystem下支持操作。
maximum attribute column is required.	maximum attribute column is required.

需要补齐maximum属性列。	需要补齐maximum属性列。
minimum attribute column is required. 需要补齐minimum属性列。	minimum attribute column is required. 需要补齐minimum属性列。
incremental attribute column is required. 需要补齐incremental属性列。	incremental attribute column is required. 需要补齐incremental属性列。
Minimum interval should be not greater than maximum interval. minimum 属性列值不应该大于maximum 属性列值。	Minimum interval should be not greater than maximum interval. minimum 属性列值不应该大于maximum 属性列值。
Incremental interval should be not greater than maximum interval. incremental 属性列值不应该大于maximum 属性列值。	Incremental interval should be not greater than maximum interval. incremental 属性列值不应该大于maximum 属性列值。
The external-lsa attribute column is required and must be set to enable. external-lsa属性列需要赋值为true。	The external-lsa attribute column is required and must be set to enable. external-lsa属性列需要赋值为true。
The summary-lsa attribute column is required and must be set to enable. summary-lsa属性列需要赋值为true。	The summary-lsa attribute column is required and must be set to enable. summary-lsa属性列需要赋值为true。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/areas

Message	Explanation
The OSPFv3 area is being deleted or reset. Please try again later. 正在删除或重置OSPFv3区域，请稍后重试	Please try again later.
The interface already runs an instance with the same instance ID in another OSPFv3 process. 接口运行不同的OSPFv3进程时，不能为其指定相同的实例ID。	Please change the instance-id.
The interface already runs another instance of the specified OSPFv3 process. 将接口使能到同一OSPFv3进程时，不能为其指定不同的实例ID。	Please delete the row and then create it again.
The interface already runs the instance of the specified OSPFv3 process in another area. 将接口使能到同一OSPFv3进程的不同区域时，不能为其指定相同的实例ID。	Please change the instance-id.
Cannot configure the backbone area as a stub area. 不允许将骨干区域配置为Stub区域。	Cannot configure the backbone area as a stub area.
The area is a transit area. Please delete the virtual	The area is a transit area. Please delete the virtual link first.

link first. 当前区域通过虚连接作为传输区，请先删除虚连接。	
The area is a stub area and cannot be configured as an NSSA area. 当前区域类型为Stub区域，不支持配置为NSSA区域。	The area is a stub area and cannot be configured as an NSSA area.
The area is an NSSA area and cannot be configured as a stub area. 当前区域类型为NSSA区域，不支持配置为Stub区域。	The area is an NSSA area and cannot be configured as a stub area.
Cannot configure the backbone area as an NSSA area. 不允许将骨干区域配置为NSSA区域。	Cannot configure the backbone area as an NSSA area.
The specified interface does not exist. 指定的接口不存在。	The specified interface does not exist.
The specified interface is being deleted. 指定的接口正在被删除。	Please try again later.
The specified OSPFv3 process does not exist. 指定的OSPFv3进程不存在。	Please create the ospfv3 process first.
Keychain and authentication cannot be configured at the same time. 不能同时配置keychain和authentication。	Keychain and authentication cannot be configured at the same time.
Mode attribute column is required. 需要补齐mode属性列。	mode attribute column is required.
Key-id attribute column is required. 需要补齐key-id属性列。	key-id attribute column is required.
Password-type attribute column is required. 需要补齐password-type属性列。	password-type attribute column is required.
Password attribute column is required. 需要补齐password属性列。	password attribute column is required.
The specified authentication mode is not supported. 不支持指定的认证模式。	The specified authentication mode is not supported. 不支持指定的认证模式。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/areas/interfaces

Message	Explanation
Cannot modify the instance-id of the specified	You cannot modify the instance-id of the process on the

OSPFv3 process on the interfaces. 不能修改接口上的OSPFv3进程绑定的接口实例ID。	interfaces after creating it.
The column is not allowed on LoopBack interfaces. LOOPBACK口不允许配置该属性。	The LoopBack interface can not configure the network-type，hellotime,deadtime and mtu-ignore.
The value 0 of column cost is only allowed on LoopBack interfaces. 只有LOOPBACK接口允许将cost配置为0。	The cost can not be configured as zero on this interface.
Cannot configure the attribute column of link-delay-min alone. 不能单独配置接口的最小时延。	Link-delay-min and link-delay-min must be configured at the same time. 接口的最小时延和最大时延必须同时配置。
Cannot configure the attribute column of link-delay-max alone. 不能单独配置接口的最大时延。	Link-delay-min and link-delay-min must be configured at the same time. 接口的最小时延和最大时延必须同时配置。
The link-delay-max should not be less than the link-delay-min. 接口的最大时延必须大于接口的最小时延。	The link-delay-min should be not greater than The link-delay-max. 接口的最小时延必须小于接口的最大时延。
Cannot configure the attribute column of link-delay-min alone. 不能单独配置接口的最小时延。	Link-delay-min and link-delay-min must be configured at the same time. 接口的最小时延和最大时延必须同时配置。
Cannot configure keychain with authentication at the same time. 不能同时配置keychain和authentication。	Cannot configure keychain with authentication at the same time. 不能同时配置keychain和authentication。
Mode attribute column is required. 需要补齐mode属性列。	Mode attribute column is required. 需要补齐mode属性列。
Key-id attribute column is required. 需要补齐key-id属性列。	Key-id attribute column is required. 需要补齐key-id属性列。
Password-type attribute column is required. 需要补齐password-type属性列。	Password-type attribute column is required. 需要补齐password-type属性列。
Password attribute column is required. 需要补齐password属性列。	Password attribute column is required. 需要补齐password属性列。
Number of affinity-names over limit. Affinity-name 的数量超过了限制。	Number of affinity-names over limit. Affinity-name 的数量超过了限制。
Duplicate affinity-name. 重复的Affinity-name。	Duplicate affinity-name. 重复的Affinity-name。
Interface cost adjustment based on link quality is not supported. 当前接口不允许配置误码倒换功能。	The interface does not support interface cost adjustment based on link quality.当前接口不允许配置误码倒换功能。
cost-adjust-track and cost-adjust-offset must be configured together. 必须同时配置cost-adjust-track和cost-adjust-offset。	cost-adjust-track and cost-adjust-offset must be configured together. 必须同时配置cost-adjust-track和cost-adjust-offset。
The specified authentication mode is not supported.	The specified authentication mode is not supported. 不支持指定的认证模式。

不支持指定的认证模式。	
You cannot configure the Enable column alone. 不能单独配置虚拟节点使能属性。	You cannot configure the Enable column alone. 不能单独配置虚拟节点使能属性。
You cannot configure the RouterId column alone. 不能单独配置虚拟节点的Router ID。	You cannot configure the RouterId column alone. 不能单独配置虚拟节点的Router ID。
Configuration failed. The specified router ID has been used by another virtual node on the same node. 配置失败。与同节点的其他虚拟节点的Router ID冲突。	Configuration failed. The specified router ID has been used by another virtual node on the same node. 配置失败。与同节点的其他虚拟节点的Router ID冲突。
Can't set router-id when enable attribute column configuration is false. 当enable为false时，不允许指定router-Id属性列。	Can't set router-id when enable attribute column configuration is false. 当enable为false时，不允许指定router-Id属性列。
Invalid Router ID. 无效的Router ID。	Invalid Router ID. 无效的Router ID。
The external,external-acl,nssa,nssa-acl, inter-prefix,inter-prefix-acl cannot be configured with all. external,external-acl,nssa,nssa-acl,inter-prefix,inter-prefix-acl不能和all一起下发。	The external,external-acl,nssa,nssa-acl, inter-prefix,inter-prefix-acl cannot be configured with all. external,external-acl,nssa,nssa-acl,inter-prefix,inter-prefix-acl不能和all一起下发。
Cannot issue conflicting configurations when merge. Merge不能下发冲突配置。	Cannot issue conflicting configurations when merge. Merge不能下发冲突配置。
When configuring Acl, the corresponding LSA filter option must be configured as enable at the same time. 下发Acl时，对应的Lsa过滤选项必须同时配置为enable。	When configuring Acl, the corresponding LSA filter option must be configured as enable at the same time. 下发Acl时，对应的Lsa过滤选项必须同时配置为enable。
When merge or create, all, external, nssa, inter-prefix can only be configured to enable. Merge和create时,all,external,nssa,inter-prefix只能赋值为enable。	When merge or create, all, external, nssa, inter-prefix can only be configured to enable. Merge和create时,all,external,nssa,inter-prefix只能赋值为enable。
The Invalid address. 无效的邻居地址。	The Invalid address. 无效的邻居地址。
The Invalid AclNum. 无效的AclNum。	The Invalid AclNum. 无效的AclNum。
This table does not allow delete attribute columns individually. 此表不允许单独删除属性列。	This table does not allow delete attribute columns individually. 此表不允许单独删除属性列。
Every attribute must exist in group database-filter when delete and remove. 对databasefilter组进行Delete或Remove时，必须指定全部属性列。	Every attribute must exist in group database-filter when delete and remove. 对databasefilter组进行Delete或Remove时，必须指定全部属性列。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/redistributes

Message	Explanation
The value does not match the enumeration. 输入的值与枚举不匹配。	The specified protocol is invalid
The value of redist –name column must be ‘all’ or an unsigned integer in the range of 1 to 65535 when the value of protocol column is isisv6, ospfv3 or riping. 当protocol的值为isisv6、ospfv3、或者ripng时，redist-name列的值必须为‘all’或者一个范围为1到65535的整数。	The specified redist-name is invalid.
The value of redist –name column must be an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is bgp. 当protocol的值为bgp时，redist-name列的值必须是一个范围为1到4294967295的整数。	The specified redist-name is invalid.
The redist-name column must be empty when the value of protocol column is direct, static, or unr. 当protocol的值为direct、static或者unr时，redist-name列必须为空。	The redist-name column must be empty.
The redist-name column is required when the value of protocol column is bgp, isisv6, ospfv3 or riping. 当protocol的值为isisv6、ospfv3、或者ripng时，redist-name列不能为空。	The redist-name column is required.
The column is not allowed in current redistribute protocol. 当前引入的类型不支持该属性列。	When the protocol is not bgp, the column allow-ibgp can not be configured.
Cannot redistribute routes from the same OSPFv3 process. 不能从相同的OSPFv3进程引入路由。	Please redistribute routes from another OSPFv3 process.
Can not enable inherit-cost and config metric at the same time. 不能同时使能inherit-cost并配置metric。	Metric and inherit-cost can not be configure at the same time.

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/srv6-locators

Message	Explanation
Maximum number(8) of Locators already reached.	Maximum number(8) of Locators already reached.

最大支持8个locator name。	最大支持8个locator name。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/asbr-summary-entries

Message	Explanation
Invalid summary address. 无效的聚合路由地址。	Invalid summary address. 无效的聚合路由地址。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/flex-algos

Message	Explanation
Number of affinity-names over limit. Affinity-name 的数量超过了限制。	Number of affinity-names over limit. Affinity-name 的数量超过了限制。
Duplicate affinity-name. 重复的Affinity-name。	Duplicate affinity-name. 重复的 Affinity-name。
The affinity attribute does not exist. 指定的affinity属性不存在。	The affinity attribute does not exist. 指定的 affinity 属性不存在。
When the value for the enable column is false, the values for other columns in this group cannot be set to true. 当enable为false时不能同时配置其他属性列为true。	When the value for the enable column is false, the values for other columns in this group cannot be set to true. 当enable为false时不能同时配置其他属性列为true。
When the enable column is not configured, other columns in this group cannot be configured. 不指定enable时，不能指定其他配置项。	When the enable column is not configured, other columns in this group cannot be configured. 不指定enable时，不能指定其他配置项。
Link protection and node protection cannot be configured together. 链路保护和节点保护不能同时配置。	Link protection and node protection cannot be configured together. 链路保护和节点保护不能同时配置。

ietf-network-instance/network-instances/vrf-root/routing/control-plane-protocols/ospfv3/instance/affinity-maps

Message	Explanation
Can't delete Affinity-map when it is configured for flex-algo. Flex-algo下使用了Affinity-map，不能删除。	Can't delete Affinity-map when it is configured for flex-algo. Flex-algo下使用了Affinity-map，不能删除。
Can't delete Affinity-map when it is configured for interface. 接口下使用了Affinity-map，不能删除。	Can't delete Affinity-map when it is configured for interface. 接口下使用了 Affinity-map，不能删除。
Different affinity attribute names cannot be mapped to the same bit position. Affinity-map 比特映射冲突。	Different affinity attribute names cannot be mapped to the same bit position. Affinity-map 比特映射冲突。
BitPosition attribute column is required. 需要补齐BitPosition属性列。	BitPosition attribute column is required. 需要补齐BitPosition属性列。

Contents

OSPFv3 event stream 1
OSPFv3-peer-state-event 1
XML structure for event subscription 1
XML structure for event report 1

OSPFv3 event stream

OSPFv3 stream description.

OSPFv3-peer-state-event

This event is used to report OSPFv3 neighbor state information.

XML structure for event subscription

```
<OSPFv3PeerStateEvent>
</OSPFv3PeerStateEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>OSPFv3</stream>
    <filter type="subtree">
      <OSPFv3PeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/OSPFv3:1.0">
      </OSPFv3PeerStateEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	OSPFv3
Event name	OSPFv3PeerStateEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/OSPFv3:1.0
Support for extended query	No

XML structure for event report

```
<OSPFv3PeerStateEvent>
  <OSPFv3PeerState>
    <ProcId></ProcId>
    <AreaId></AreaId>
    <IfIndex></IfIndex>
    <NbrRouterId></NbrRouterId>
    <NbrAddress></NbrAddress>
    <DrPriority></DrPriority>
    <CurrentState></CurrentState>
    <LastState></LastState>
    <IfName></IfName>
    <Mode></Mode>
    <NetType></NetType>
```

```
    <UpTime></UpTime>
    <GlobalUnicastAddress></GlobalUnicastAddress>
    <Sequence></Sequence>
  </OSPFv3PeerState>
</OSPFv3PeerStateEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-09-29T09:10:51</eventTime>
  <OSPFv3PeerStateEvent xmlns="http://www.h3c.com/netconf/event:1.0/OSPFv3:1.0">
    <OSPFv3PeerState>
      <ProcId>1</ProcId>
      <AreaId>0.0.0.0</AreaId>
      <IfIndex>285</IfIndex>
      <NbrRouterId>2.2.2.2</NbrRouterId>
      <NbrAddress>1.1.1.2</NbrAddress>
      <DrPriority>1</DrPriority>
      <CurrentState>7</CurrentState>
      <LastState>8</LastState>
      <IfName>GigabitEthernet2/0/2</IfName>
      <Mode>0</Mode>
      <NetType>1</NetType>
      <UpTime>1542</UpTime>
      <GlobalUnicastAddress>1::1</GlobalUnicastAddress>
      <Sequence>1</Sequence>
    </OSPFv3PeerState>
  </OSPFv3PeerStateEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
ProcId	Process ID	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID	String, dotted decimal notation.	N/A
IfIndex	Interface index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
NbrRouterId	Neighbour router identifier	String, dotted decimal notation.	N/A
NbrAddress	Neighbor IPv6 address	Hexadecimal string, colon-separated.	N/A
DrPriority	Router priority	Unsigned integer. Value range: 0 to 255.	N/A

CurrentState	Current neighbour state	Enumeration: • **0**—Neighbor down state. • **1**—Neighbor attempt state. • **2**—Neighbor init state • **3**—Neighbor 2-Way state • **4**—Neighbor exchange start state • **5**—Neighbor exchange state • **6**—Neighbor loading state • **7**—Neighbor full state	N/A
LastState	Last neighbour state	Enumeration: • **0**—Neighbor down state. • **1**—Neighbor attempt state. • **2**—Neighbor init state • **3**—Neighbor 2-Way state • **4**—Neighbor exchange start state • **5**—Neighbor exchange state • **6**—Neighbor loading state • **7**—Neighbor full state	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Mode	Neighbour mode	Enumeration: • **0**—Master. • **1**—Slave. • **2**—None.	N/A
NetType	Neighbor identification method	Enumeration: • 1—dynamic. • 2—permanent.	N/A
UpTime	Neighbor up time in seconds	Unsigned integer.	N/A
GlobalUnicastAddress	Global unicast IPv6 address	Hexadecimal string, colon-separated.	N/A
Sequence	Sequence	Unsigned integer. Value range: 1 to 4294967295.	N/A

Package 1
Package/SetBootImage 1
XML structure 1
Table description 1
Columns 2
Package/SetExtendImage 3
XML structure 3
Table description 3
Columns 4
Package/InstallImage 5
XML structure 5
Table description 5
Columns 6
Package/SetIssuMPUFile 6
XML structure 6
Table description 7
Columns 7
Package/SetIssuExtendFile 8
XML structure 8
Table description 8
Columns 9
Package/IssuUpgrade 10
XML structure 10
Table description 10
Columns 10
Package/AddIPE 11
XML structure 11
Table description 11
Columns 12
Package/ClearBootIPEResult 12
XML structure 12
Table description 12
Columns 13
Package/PublishEvent 13
XML structure 13
Table description 13
Columns 14

Package

Package/SetBootImage

This table contains information to specify startup software image files for special node.

XML structure

```
<Package>
  <SetBootImage>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <ImageFiles>
        <Boot></Boot>
        <System></System>
        <Feature></Feature>
      </ImageFiles>
      <IPEFileName></IPEFileName>
      <Type></Type>
      <OverwriteLocalFile></OverwriteLocalFile>
      <DeleteIPEFile></DeleteIPEFile>
      <Undecompressed/>
   </SetBootImage>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetBootImage
Table type	Single-instance
Row name	None
Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Specify a target node of the system.	Data structure	Members include: • Chassis. • Slot. • CPUID.	Optional column, specify a target node which to set all this image files as the startup software image files, if not specify, all suitable nodes will be set.
Chassis	Chassis of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
ImageFiles	.bin image file list to set as the startup image files.	Data structure	Members include: • Boot. • System. • Feature.	Column of Feature is optional, but both Boot and System must be included.
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specifie several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either IPEFileName or ImageFiles to speicify the startup software image files.
Type	Startup type to set.	N/A	Enumeration: • 1—main. • 2—backup.	Backup images are used only when main images are not available.
OverwriteLocalFile	Whether overwrite image files when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after setting it as the next startup image.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Uncompressed	Decompress the IPE file when the device starts up instead of when the IPE file is specified as the startup file.	N/A	N/A	This column should be ignored when bin files are specified as startup files or the device does not support this function.

Package/SetExtendImage

This table contains information to specify startup software image files stored on the device for security engines or PEXs.

XML structure

```
<Package>
  <SetExtendImage>
    <ExtendImage>
      <Model></Model>
      <ImageFiles>
        <Boot></Boot>
        <System></System>
        <Feature></Feature>
      </ImageFiles>
      <IPEFileName></IPEFileName>
      <Type></Type>
      <OverwriteLocalFile></OverwriteLocalFile>
      <DeleteIPEFile></DeleteIPEFile>
    </ExtendImage>
  </SetExtendImage>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetExtendImage
Table type	Multi-instance
Row name	ExtendImage

Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	Specifies the PEX model or the security engine model.	Index	String. Length: 1 to 63 characters.	N/A
ImageFiles	.bin image files list to set as the model startup image files.	Data structure	Members include: • Boot. • System. • Feature.	Column of Feature is optional, but both Boot and System must be included.
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specifies several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either IPEFileName or ImageFiles to speicify the startup software image files.
Type	Model startup type.	N/A	Enumeration: • 1—main. • 2—backup.	Backup images are used only when main images are not available.
OverwriteLocalFile	Whether overwrite image file when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after setting it as the model startup imge file.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/InstallImage

This table contains information to activate or deactivate feature image files or patch file on special node.

XML structure

```
<Package>
  <InstallImage>
    <Action></Action>
    <ImageFiles>
      <Feature></Feature>
    </ImageFiles>
    <PatchFile></PatchFile>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeviceNode>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </DeviceNode>
  </InstallImage>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	InstallImage
Table type	Single-instance
Row name	None
Restrictions	This table only support patch image file and feature image file, only support fileupgrade and service upgrade for feature image file. Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify which action to handle all this image files.	N/A	Enumeration: • 1—activate. • 2—deactivate.	N/A
ImageFiles	Feature image files list to handle.	Data structure	Members include: • Feature.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specify several feature image files of up to 30.
PatchFile	Specifies the file path of a .bin patch image file.	N/A	String. Length: 1 to 127 characters.	You could choose either ImageFiles or PatchFile to do the specify action.
OverwriteLocalFile	Whether overwrite image file when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeviceNode	Specify a target node of the system.	Data structure	Members include: • Chassis. • Slot. • CPUID.	Optional column, specify a target node which to activate or deactivate all images files, if not specify, all suitable nodes will do the action.
Chassis	Chassis of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A

Package/SetIssuMPUFile

This table contains information to set issu image files for MPUs to update the system.

XML structure

```
<Package>
  <SetIssuMPUFile>
    <ImageFiles>
      <Boot></Boot>
      <System></System>
```

```
      <Feature></Feature>
      <Patch></Patch>
    </ImageFiles>
    <IPEFileName></IPEFileName>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </SetIssuMPUFile>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetIssuMPUFile
Table type	Single-instance
Row name	None
Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. An image file path must in the format of storage-medium:/base-filename.bin or storage-medium:/base-filename.ipe, should not include the IRF member ID or slot number information in front of the storage medium segment.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImageFiles	.bin image file list to set as the MPUs issu image files.	Data structure	Members include: • Boot. • System. • Feature.	N/A
Boot	Specifies the file path of a .bin boot image file	N/A	String. Length: 1 to 63 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 63 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 63 characters.	This column can repeat to specify several feature image files of up to 30.
Patch	Specifies the file path of a .bin patch image file.	N/A	String. Length: 1 to 63 characters.	This column can repeat to specify several patch image files of up to 30.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 63 characters.	You could choose either ImageFiles or IPEFileName to specify issu image files for MPUs .
OverwriteLocalFile	Whether overwrite images files when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/SetIssuExtendFile

This table contains information to set issu image files for security engines or PEXs to update the system.

XML structure

```
<Package>
  <SetIssuExtendFile>
    <IssuExtendFile>
      <Model></Model>
      <ImageFiles>
        <Boot></Boot>
        <System></System>
        <Feature></Feature>
      </ImageFiles>
      <IPEFileName></IPEFileName>
      <OverwriteLocalFile></OverwriteLocalFile>
      <AutoDeleteFile></AutoDeleteFile>
    </IssuExtendFile>
  </SetIssuExtendFile>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetIssuExtendFile
Table type	Multi-instance
Row name	IssuExtendFile

Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	Specifies the PEX model or the security engine model	Index	String. Length: 1 to 63 characters.	N/A
ImageFiles	.bin image file list to set as the issu image files for security engines or PEXs.	Data structure	Members include: • Boot. • System. • Feature.	N/A
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specify several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either ImageFiles or IPEFileName to specify issu image files for security engines or PEXs.
OverwriteLocalFile	Whether overwrite images files when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
`DeleteIPEFile`	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/IssuUpgrade

This table contains information to update system step by step. To update the system you can following steps below: firstly make sure the "Status" and the "Action" is all "none" in the table IssuUpgrade(See Comware V7 Package NETCONF XML API Data Reference.docx); secondly specify the ISSU image files for MPUs(see table SetIssuMPUFile), additionally you can also specify ISSU image files for security engines and PEXs if you want to update these devices(see table SetIssuExtendFile); thirdly test all the image files you set, then install after test successfully, after that you can wait until the updating all done or you can roll back to cancel all the updating.

XML structure

```
<Package>
  <IssuUpgrade>
    <Action></Action>
    <Timeout></Timeout>
    <Delay></Delay>
  </IssuUpgrade>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IssuUpgrade
Table type	Single-instance
Row name	None
Restrictions	Mostly Action should following step test->install->done, "done" can only set after the previous action have finished successfully or failure.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify step to update the system, action of test must be done before install begin.	N/A	Enumeration: • 1—none • 2—test • 3—install • 4—rollback • 5—done	Action of "none" will be simply be ignored, "test" can collect all information about which way the system will be updated, "install" will start to update the system, "rollback" will cancel all the updating and roll back to the original software versions, "done" will clear all update information and

Column name	Column description	Column type	Data type and restrictions	Remarks
				set “Action” and “Status” to “none”.
Timeout	Specify the timeout time for an ISSU operation.		Unsigned integer. Value range: 0 to 120. Unit: minute.	Setting this field to 0 disables automatic rollback. The value for this field takes effect only on one ISSU operation. If this field is not set for an ISSU operation, the automatic rollback timer set by using the **issu rollback-timer** command (45 minutes by default) is used.
Delay	Time that the system waits before starting the ISSU.		Unsigned integer. Value range: 0 to 1440. Unit: minute.	N/A

Package/AddIPE

This table contains information to decompress a .ipe image file to several .bin image files.

XML structure

```
<Package>
  <AddIPE>
    <IPEFileName></IPEFileName>
    <StorageCard></StorageCard>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </AddIPE>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	AddIPE
Table type	Single-instance
Row name	None
Restrictions	An .ipe image file must already exist in the root directory of storage medium. Mostly an image file path is in the format of storage-medium:/base-filename.ipe, you can also include the IRF member ID or slot number information in front of the storage

	medium segment to specify the node where the .ipe image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	N/A
StorageCard	Target storage medium to store the .bin image files.	N/A	String. Length: 1 to 63 characters.	You can include the IRF member ID or slot number information in front of the storage medium segment.
OverwriteLocalFile	Whether overwrite image file if Target storage medium already exist the .bin image file.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/ClearBootIPEResult

This table contains information to clear the upgrade result for an IPE file upgrade.

XML structure

```
<Package>
  <ClearBootIPEResult>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
    <ClearResult/>
  </ClearBootIPEResult>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	ClearBootIPEResult

Table type	Single-instance
Row name	None
Restrictions	If the device does not support IPE file decompression upon device startup, this table should be ignored.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Specify a target node of the system.	Data structure	Members include: • Chassis. • Slot. • CPUID.	Optional column, specify a target node which to set all this image files as the startup software image files, if not specify, all suitable nodes will be set.
Chassis	Chassis of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned short. Value range: 0 to 65535.	N/A
ClearResult	Clear the upgrade result	N/A	N/A	This column must be empty.

Package/PublishEvent

This table publish upgrade event to bras-vm/fwd-vm.

XML structure

```
<Package>
  <PublishEvent>
    <Event></Event>
    <Sequence></Sequence>
    <VmType></VmType>
    <Slot></Slot>
  </PublishEvent>
</Package>
```

Table description

Item	Description
Feature name	Package

Table name	PublishEvent
Table type	Single-instance
Row name	None
Restrictions	If the device does not support IPE file decompression upon device startup, this table should be ignored.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Event	Upgrade event.	N/A	Enumeration: • 0—can upgrade • 1—cancel upgrade • 2—can patch • 3—cancel patch • 4—before patch • 5—after patch • 6—before switchover • 7—after upgrade	N/A
Sequence	Msg sequence	N/A	Unsigned int.	N/A
VmType	Vm type	N/A	Unsigned int.	N/A
Slot	Vm Slot	N/A	Unsigned short. Value range: 0 to 65535.	This column must be empty.

Package 1
Package/BootLoaderList 1
XML structure 1
Table description 1
Columns 1
Package/ExtendStartupList 2
XML structure 2
Table description 2
Columns 3
Package/IssuOpResult 3
XML structure 3
Table description 4
Columns 4
Package/IssuMPUFileList 5
XML structure 5
Table description 5
Columns 6
Package/IssuExtendFileList 6
XML structure 6
Table description 6
Columns 7
Package/IssuUpgrade 7
XML structure 7
Table description 7
Columns 8
Package/IPEInfo 8
XML structure 9
Table description 9
Columns 9
Package/ImageLists 10
XML structure 10
Table description 10
Columns 11
Package/BootIpeResult 11
XML structure 11
Table description 12
Columns 12

Package

Package/BootLoaderList

This table contains information of startup software image files for special node.

XML structure

```
<Package>
  <BootLoaderList>
    <BootList>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <BootType></BootType>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </BootList>
  </BootLoaderList>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	BootLoaderList
Table type	Muti-instance
Row name	BootList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Specify a node of the system.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
BootType	Specify the startup type	Index	Enumeration: • 0—current running list • 1—main next startup list. • 2—backup next startup list.	Backup images are used only when main images are not available.
ImageFiles	List of startup image files.	Data structure	Members include: • FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 0 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/ExtendStartupList

This table contains information about startup software image files stored on the device for security engines or PEXs

XML structure

```
<Package>
  <ExtendStartupList>
    <ExtendList>
      <Model></Model>
      <BootType></BootType>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </ExtendList>
  </ExtendStartupList>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	ExtendStartupList

Table type	Muti-instance
Row name	ExtendList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	PEX model or the security engine model.	Index	String. Length: 0 to 63 characters.	N/A
BootType	Specify the startup type	Index	Enumeration: • 1—main next startup list. • 2—backup next startup list.	Backup images are used only when main images are not available.
ImageFiles	List of startup image files.	Data structure	Members include: • FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/IssuOpResult

This table contains information of the upgrading status of special node.

XML structure

```
<Package>
  <IssuOpResult>
    <OpResult>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <UpgradeType></UpgradeType>
      <DevStatus></DevStatus>
      <UpgradeStatus></UpgradeStatus>
      <FailedReason></FailedReason>
    </OpResult>
  </IssuOpResult>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IssuOpResult
Table type	Muti-instance
Row name	OpResult
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Indicate a node of the system.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	Chassis of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	Index	Unsigned short. Value range: 0 to 65535.	N/A
UpgradeType	Issu upgrde type of this node.	N/A	Enumeration: • 1—none,indicate this node will not be updated. • 2—reboot, indicate the upgrade type of this node is reboot. • 3—sequenceReboot, indicate the upgrade type of this node is sequenceReboot. • 4—issuReboot, indicate the upgrade type of this node is issuReboot. • 5—serviceUpgrade, indicate the upgrade type of this node is serviceUpgrade. • 6—fileUpgrade, indicate the upgrade type of this node is fileUpgrade. • 7—incompatibleUpgrade, indicate the upgrade type of this node is incompatibleUpgrade.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DevStatus	Device status of this node.	N/A	Enumeration: • 1—waiting,this node is wating to upgrade. • 2—inProcess, this node is updating. • 3—success, this node have sucessfully updated. • 4—failed, failed to update this node.	N/A
UpgradeStatus	Issu status of this node.	N/A	Enumeration: • 1—init • 2—loading • 3—loaded • 4—switching • 5—switchover • 6—committing • 7—committed • 8—rollbacking • 9—rollbacked	N/A
FailedReason	Failed reason of this node.	N/A	String. Length: 0 to 6144 characters.	Usefully only in failure.

Package/IssuMPUFileList

This table contains information of issu image files for MPUs .

XML structure

```
<Package>
  <IssuMPUFileList>
    <ImageFiles>
      <FileName></FileName>
    </ImageFiles>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </IssuMPUFileList>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IssuMPUFileList
Table type	Single-instance

Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImageFiles	List of issu image files for MPUs.	Data structure	Members include: • FileName.	N/A
FileName	Name of a .bin or .ipe image file.	N/A	String. Length: 0 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.
OverwriteLocalFile	Whether overwrite image files when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/IssuExtendFileList

This table contains information of issu image files for security engines or PEXs.

XML structure

```
<Package>
  <IssuExtendFileList>
    <IssuExtendFile>
      <Model></Model>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </IssuExtendFile>
  </IssuExtendFileList>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IssuExtendFileList

Table type	Muti-instance
Row name	IssuExtendFile
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	PEX model or the security engine model.	Index	String. Length: 1 to 63 characters.	N/A
ImageFiles	List of issu image files for security engines or PEXs.	Data structure	Members include: • FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/IssuUpgrade

This table contains information of the ISSU operating status. After starting to update the system, you can obtain ISSU operating status from this table, you can also get detain information of the upgrading status of each node from the table IssuOpResult.

XML structure

```
<Package>
  <IssuUpgrade>
    <Action></Action>
    <Timeout></Timeout>
    <Status></Status>
    <FailedReason></FailedReason>
    <Delay></Delay>
  </IssuUpgrade>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IssuUpgrade
Table type	Single-instance

Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify step to update the system, action of test must be done before install begin.	N/A	Enumeration: • 1—none • 2—test • 3—install • 4—rollback	The Action “none” indicate the system has no did any ISSU operation, “test” means the system is testing all ISSU image files, “install” indicate the system is updating, “rollback” means the system is trying to roll back to the original software versions.
Timeout	Remaining time of the rollback timer for an ISSU operation.	N/A	Unsigned integer. Value range: 0 to 120.	If no ISSU operation is in progress, this field displays the value set by using the **issu rollback-timer** command.
Status	Upgrading status of the system.	N/A	Enumeration: • 1—none, system have not started to update. • 2—failed, Action is failure. • 3—inProgress, Action is in progress. • 4—success, Action have successfully done. • 5—rollbacking, roll back is in process. • 6—rollbacked, successfully roll back to the original software versions.	N/A
FailedReason	Failed reason of the ISSU operation.	N/A	String. Length: 0 to 6144 characters.	Usefully only in failure.For relevant information, see the XSD document of your product
Delay	Time that the system waits before starting the ISSU.	N/A	Unsigned integer. Value range: 0 to 1440. Unit: minute.	N/A

Package/IPEInfo

This table contains information of all .ipe image package files in the system.

XML structure

```
<Package>
  <IPEInfo>
    <InfoList>
      <IPEFileName></IPEFileName>
        <FileName></FileName>
      <Model></Model>
      <Type></Type>
      <Service></Service>
      <FilePlatVersion></FilePlatVersion>
      <FileProductVersion></FileProductVersion>
    </InfoList>
  </IPEInfo>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	IPEInfo
Table type	Muti-instance
Row name	InfoList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPEFileName	.ipe image pckage file in the system.	Index	String. Length: 0 to 127 characters.	File name may include the IRF member ID or slot number information in front of the storage medium segment.
FileName	.bin image file which the .ipe image package file contained.	Index	String. Length: 0 to 63 characters.	N/A
Model	The PEX model or the security engine model, if the .bin image file blond to a PEX or security engine.	N/A	String. Length: 0 to 63 characters.	This column will not occur if the .bin image file belongs to MPUs.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Specify the type of this .bin image file.	N/A	Enumeration: • 0—bin • 1—patch	“bin” means this is a normal .bin image file, “patch” means this is a patch image file.
Service	Specify the attribute of this .bin image file.	N/A	Enumeration: • 1—boot • 2—system • 3—feature	N/A
FilePlatVersion	Platform version of this .bin image file.	N/A	String. Length: 0 to 63 characters.	N/A
FileProductVersion	Product version of this .bin image file.	N/A	String. Length: 0 to 63 characters.	N/A

Package/ImageLists

This table contains information of all the .bin image files in the system.

XML structure

```
<Package>
  <ImageLists>
    <ImageList>
      <FileName></FileName>
      <Model></Model>
      <Type></Type>
      <Service></Service>
      <FilePlatVersion></FilePlatVersion>
      <FileProductVersion></FileProductVersion>
    </ImageList>
  </ImageLists>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	ImageLists
Table type	Muti-instance
Row name	ImageList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	.bin image file in the system.	Index	String. Length: 0 to 127 characters.	File name may include the IRF member ID or slot number information in front of the storage medium segment.
Model	The PEX model or the security engine model, if the .bin image file blonds to a PEX or security engine.	N/A	String. Length: 0 to 63 characters.	This column will not occur if the .bin image file belongs to MPUs.
Type	Specify the type of this .bin image file.	N/A	Enumeration: • 0—bin • 1—patch	“bin” means this is a normal .bin image file, “patch” means this is a patch image file.
Service	Specify the attribute of this .bin image file.	N/A	Enumeration: • 1—boot • 2—system • 3—feature	N/A
FilePlatVersion	Platform version of this .bin image file.	N/A	String. Length: 0 to 63 characters.	N/A
FileProductVersion	Product version of this .bin image file.	N/A	String. Length: 0 to 63 characters.	N/A

Package/BootIpeResult

This table contains information of the upgrade result for an IPE file upgrade.

XML structure

```
<Package>
  <BootIpeResult>
    <IpeResult>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IpeName></IpeName>
      <Result></Result>
    </IpeResult>
  </BootIpeResult>
```

```
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	BootIpeResult
Table type	Muti-instance
Row name	IpeResult
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Indicate a device.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	Chassis of the device.	Index	Unsigned short. Value range: 0 to 65535.	N/A
Slot	Slot of the device.	Index	Unsigned short. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned short. Value range: 0 to 65535.	N/A
IpeName	.IPE file image.	N/A	String. Length: 0 to 63 characters.	IPE file decompressed when the device starts up.
Result	Upgrade result.	N/A	Enumeration: • 0-Did not use the delaying decompression function. • 1-Success. • 2-Verifying IPE file failed. • 3-Checking file system space failed. • 4-Unknown. • 5-Reading IPE file from file system failed. • 6-Deleting IPE file failed. • 7-Decompressing IPE file failed. • 8 Setting main image as backup image failed. • 9-Setting main image failed.	N/A

Contents

Package 2
Device/boot-loader 2

Package

Device/boot-loader

Message	Explanation
%s isn't the ipe file for the device. %s不适用于本设备。	
File corrupted. 文件损坏。	
The file doesn't exist. 文件不存在。	
Image file %s is incompatible with hardware. %s与硬件不兼容。	
Not enough storage space. 磁盘空间不足。	
One or more feature images are not compliant with the system image. 特性包与system包不兼容。	
This system image is not compliant with the boot image. system包与boot包不兼容。	
The patch image is not compliant with the image to be patched.	
Failed to decompress AP.ipe. 解压AP.ipe失败。	对于AC设备，在配置主控备板下次启动软件时， 用包含AP版本的IPE，出现AP解压失败时，提示“解压AP失败”。

Contents

Package event stream ····· 1
SyncCPUpgradeEvent event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
CPUpgradeResultEvent event ····· 3
XML structure for event subscription ····· 4
XML structure for event report ····· 5

Package event stream

SyncCPUpgradeEvent event

This event is used to report cp upgrade sync event information.

XML structure for event subscription

```
<SyncCPUpgradeEvent>
  <CPUpgradeSyncEventResult>
    <Chassis></Chassis>
    <Slot></Slot>
    <Event></Event>
    <Sequence></Sequence>
    <Result></Result>
  </CPUpgradeSyncEventResult>
</SyncCPUpgradeEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Package</stream>
    <filter type="subtree">
      <SyncCPUpgradeEvent xmlns="http://www.h3c.com/netconf/event:1.0/Package:1.0">
        <CPUpgradeSyncEventResult>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <Event>1</Event>
          <Sequence>1</Sequence>
          <Result>0</Result>
        </CPUpgradeSyncEventResult>
      </SyncCPUpgradeEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Package
Event name	SyncCPUpgradeEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Package:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
Event	Sync event type.	Enumeration: • 0—can upgrade • 1—cancel upgrade • 2—can patch • 3—cancel patch • 4—before patch • 5—after patch • 6—before switchover • 7—after upgrade	No	N/A
Sequence	Sequence of event	Unsigned integer. Value range: 0 to 65535.	No	N/A
Result	Event result	Unsigned integer. 0:success	No	N/A

XML structure for event report

```
<SyncCPUpgradeEvent>
  <CPUpgradeSyncEventResult>
    <Chassis></Chassis>
    <Slot></Slot>
    <Event></Event>
    <Sequence></Sequence>
    <Result></Result>
  </CPUpgradeSyncEventResult>
</SyncCPUpgradeEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-07-21T09:10:51</eventTime>
  <SyncCPUpgradeEvent xmlns="http://www.h3c.com/netconf/event:1.0/Package:1.0">
    <CPUpgradeSyncEventResult>
      <Chassis>0</Chassis>
      <Slot><1/Slot>
      <Event>0</Event>
       <Sequence>1</Sequence>
      <Result>0</Result>
    </CPUpgradeSyncEventResult>
  </SyncCPUpgradeEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
Event	Sync event type.	Enumeration: • 0—can upgrade • 1—cancel upgrade • 2—can patch • 3—cancel patch • 4—before patch • 5—after patch • 6—before switchover • 7—after upgrade	No	N/A
Sequence	Sequence of event	Unsigned integer. Value range: 0 to 65535.	No	N/A
Result	Event result	Unsigned integer. 0:success	No	N/A

CPUpgradeResultEvent event

This event is used to report cp upgrade result event information.

XML structure for event subscription

```
<CPUpgradeResultEvent>
  <CPUpgradeResultEvent>
    <Chassis></Chassis>
    <Slot></Slot>
    <Result></Result>
  </CPUpgradeResultEvent>
</CPUpgradeResultEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Package</stream>
    <filter type="subtree">
      <CPUpgradeResultEvent xmlns="http://www.h3c.com/netconf/event:1.0/Package:1.0">
        <CPUpgradeResultEvent>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <Result>0</Result>
        </CPUpgradeResultEvent>
      </CPUpgradeResultEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Package
Event name	SyncCPUpgradeEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Package:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
Result	Cp upgrade result	Unsigned integer. 0:success	No	N/A

XML structure for event report

```
<CPUpgradeResultEvent>
  <CPUpgradeResultEvent>
    <Chassis></Chassis>
    <Slot></Slot>
    <Result></Result>
  </CPUpgradeResultEvent>
</CPUpgradeResultEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-07-21T09:10:51</eventTime>
  <CPUpgradeResultEvent xmlns="http://www.h3c.com/netconf/event:1.0/Package:1.0">
    <CPUpgradeResultEvent>
      <Chassis>0</Chassis>
      <Slot><1/Slot>
      <Result>0</Result>
    </CPUpgradeResultEvent>
  </CPUpgradeResultEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
Result	Cp upgrade result	Unsigned integer. 0:success	No	N/A

Contents

PacketTrace 1
PacketTrace/ExecuteProfile 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 1
Responsed columns 2

PacketTrace

PacketTrace/ExecuteProfile

This table is used to execute a packet trace operation.

XML structure

```
<PacketTrace>
  <ExecuteProfile>
    <ProfileName></ProfileName>
    <Interface></Interface>
  </ExecuteProfile>
</PacketTrace>
```

Responsed XML structure

```
<PacketTrace>
  <ExecuteResults>
    <ExecuteResult>
      <ProfileName></ProfileName>
      <Interface></Interface>
      <Result></Result>
    </ExecuteResult>
  </ExecuteResults>
</PacketTrace>
```

Table description

Item	Description
Feature name	PacketTrace
Table name	ExecuteProfile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Traced packet profile name.	Index	String. Length: 1 to 31 characters.	N/A
Interface	Ingress interface	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
	for traced packets		Length: 32 bits.	interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Traced packet profile name	Index	String. Length: 1 to 31 characters.	N/A
Interface	Ingress interface for traced packets	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Result	Packet trace result	N/A	String.	N/A

Contents

PacketTrace 1

PacketTrace/Profiles 1
XML structure 1
Table description 2
Columns 2
PacketTrace/Profiles/RawPacket 3
XML structure 3
Table description 3
Columns 3
PacketTrace/Profiles/L2 3
XML structure 3
Table description 3
Columns 4
PacketTrace/Profiles/L3 4
XML structure 4
Table description 4
Columns 5
PacketTrace/Profiles/Port 5
XML structure 5
Table description 5
Columns 5
PacketTrace/Profiles/ICMP 6
XML structure 6
Table description 6
Columns 6
PacketTrace/Profiles/Payload 6
XML structure 6
Table description 6
Columns 7

PacketTrace

PacketTrace/Profiles

This table contains configuration parameters about traced packet profiles.

XML structure

```
<PacketTrace>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <RawPacket>
        <HexStream></HexStream>
      </RawPacket>
      <L2>
        <SourceMac></SourceMac>
        <DestinationMac></DestinationMac>
        <VLANID></VLANID>
        <DOT1P></DOT1P>
        <CVLANID></CVLANID>
        <CDOT1P></CDOT1P>
      </L2>
      <L3>
        <SourceIP></SourceIP>
        <DestinationIP></DestinationIP>
        <DSCP></DSCP>
        <TTL></TTL>
      </L3>
      <Port>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
      </Port>
      <ICMP>
        <ICMPType></ICMPType>
        <ICMPCode></ICMPCode>
      </ICMP>
      <Payload>
        <HexStream></HexStream>
      </Payload>
    </Profile>
  </Profiles>
</PacketTrace>
```

Table description

Item	Description
Feature name	PacketTrace
Table name	Profiles
Table type	Multi-instance table
Row name	Packet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String. Length: 1 to 31 characters.	Different types of profiles cannot have the same name.
ProfileType	Profile type	Column	Enumeration: • **1**—RAW. • **2**—TCP. • **3**—UDP. • **4**—ICMP.	N/A
RawPacket	Configuration table of the raw packet content	Subtable	N/A	N/A
L2	Configuration table for the Layer 2 settings of traced packets	Subtable	N/A	N/A
L3	Configuration table for the Layer 3 settings of traced packets	Subtable	N/A	N/A
Port	Configuration table for the port settings of traced packets	Subtable	N/A	N/A
ICMP	Configuration table for the ICMP settings of traced packets	Subtable	N/A	N/A
Payload	Configuration table of the payload content	Subtable	• N/A	N/A

PacketTrace/Profiles/RawPacket

This table contains the raw packet content of a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	RawPacket
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HexStream	Raw packet content	N/A	String. Length: 128 to 3036 characters.	The string must contain an even number of hexadecimal characters.

PacketTrace/Profiles/L2

This table contains Layer 2 settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	L2
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceMac	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DestinationMac	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	VLAN ID or service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
DOT1P	802.1p priority value for the VLAN ID or service VLAN ID	N/A	Unsigned integer. Value range: 0 to 7. Default:0	N/A
CVLANID	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CDOT1P	802.1p priority value for the customer VLAN ID	N/A	Unsigned integer. Value range: 0 to 7. Default:0	N/A

PacketTrace/Profiles/L3

This table contains Layer 3 settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	L3
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestinationIP	Destination IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DSCP	DiffServ CodePoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
TTL	Packet TTL	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	N/A

PacketTrace/Profiles/Port

This table contains the port settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	Port
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.

PacketTrace/Profiles/ICMP

This table contains the ICMP settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	ICMP
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
ICMPType	ICMP type	N/A	Unsigned integer. Value range: 0 to 255.
ICMPCode	ICMP code	N/A	Unsigned integer. Value range: 0 to 255.

PacketTrace/Profiles/Payload

This table contains the payload settings of traced packets for a traced packet profile..

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	Payload
Table type	Single -instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HexStream	Payload content	Column	String. Length: • **TCP**—20 to 2928 characters. • **UDP**—44 to 2952 characters. • **ICMP**—52 to 2960 characters.	The payload string must contain an even number of hexadecimal characters.

Contents

PacketTrace 1

PacketTrace/Profiles 1
XML structure 1
Table description 2
Columns 2
PacketTrace/Profiles/RawPacket 3
XML structure 3
Table description 3
Columns 3
PacketTrace/Profiles/L2 3
XML structure 3
Table description 3
Columns 4
PacketTrace/Profiles/L3 4
XML structure 4
Table description 4
Columns 4
PacketTrace/Profiles/Port 5
XML structure 5
Table description 5
Columns 5
PacketTrace/Profiles/ICMP 5
XML structure 5
Table description 6
Columns 6
PacketTrace/Profiles/Payload 6
XML structure 6
Table description 6
Columns 6
PacketTrace/HistoryResults 7
XML structure 7
Table description 7
Columns 7
PacketTrace/HistoryResults/Results 8
XML structure 8
Table description 8
Columns 8

PacketTrace

PacketTrace/Profiles

This table contains traced packet profile configuration information.

XML structure

```
<PacketTrace>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <RawPacket>
        <HexStream></HexStream>
      </RawPacket>
      <L2>
        <SourceMac></SourceMac>
        <DestinationMac></DestinationMac>
        <VLANID></VLANID>
        <DOT1P></DOT1P>
        <CVLANID></CVLANID>
        <CDOT1P></CDOT1P>
      </L2>
      <L3>
        <SourceIP></SourceIP>
        <DestinationIP></DestinationIP>
        <DSCP></DSCP>
        <TTL></TTL>
      </L3>
      <Port>
        <SourcePort></SourcePort>
        <DestinationPort></DestinationPort>
      </Port>
      <ICMP>
        <ICMPType></ICMPType>
        <ICMPCode></ICMPCode>
      </ICMP>
      <Payload>
        <HexStream></HexStream>
      </Payload>
    </Profile>
  </Profiles>
</PacketTrace>
```

Table description

Item	Description
Feature name	PacketTrace
Table name	Profiles
Table type	Multi-instance table
Row name	Packet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String. Length: 1 to 31 characters.	Different types of profiles cannot have the same name.
ProfileType	Profile type	Column	Enumeration: • **1**—RAW. • **2**—TCP. • **3**—UDP. • **4**—ICMP.	N/A
RawPacket	Configuration table of the raw packet content	Subtable	N/A	N/A
L2	Configuration table for the Layer 2 settings of traced packets	Subtable	N/A	N/A
L3	Configuration table for the Layer 3 settings of traced packets	Subtable	N/A	N/A
Port	Configuration table for the port settings of traced packets	Subtable	N/A	N/A
ICMP	Configuration table for the ICMP settings of traced packets	Subtable	N/A	N/A
Payload	Packet payload	Column	String. Length: • **TCP**—20 to 2928 characters. • **UDP**—44 to 2952 characters. • **ICMP**—52 to 2960 characters.	The payload string must contain an even number of hexadecimal characters.

PacketTrace/Profiles/RawPacket

This table contains the raw packet content of a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	RawPacket
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HexStream	Raw packet content	N/A	String. Length: 128 to 3036 characters.	The string must contain an even number of hexadecimal characters.

PacketTrace/Profiles/L2

This table contains Layer 2 settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	L2
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceMac	Source MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DestinationMac	Destination MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
VLANID	VLAN ID or service VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
DOT1P	802.1p priority value for the VLAN ID or Service VLAN ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
CVLANID	Customer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CDOT1P	802.1p priority value for the customer VLAN ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A

PacketTrace/Profiles/L3

This table contains Layer 3 settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	L3
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
DestinationIP	Destination IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DSCP	DiffServ CodePoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
TTL	Packet TTL	N/A	Unsigned integer. Value range: 1 to 255.	N/A

PacketTrace/Profiles/Port

This table contains the port settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	Port
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SourcePort	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.
DestinationPort	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.

PacketTrace/Profiles/ICMP

This table contains the ICMP settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	ICMP
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ICMPType	ICMP type	N/A	Unsigned integer. Value range: 0 to 255.
ICMPCode	ICMP code	N/A	Unsigned integer. Value range: 0 to 255.

PacketTrace/Profiles/Payload

This table contains the payload settings of traced packets for a traced packet profile.

XML structure

Please refer to the XML structure of PacketTrace/Profiles.

Table description

Item	Description
Feature name	PacketTrace
Table name	Payload
Table type	Single -instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HexStream	Payload content	Column	String. Length: • **TCP**—20 to 2928	The payload string must contain an even number of hexadecimal

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. • **UDP**—44 to 2952 characters. • **ICMP**—52 to 2960 characters.	characters.

PacketTrace/HistoryResults

This table contains history packet trace results.

XML structure

```
<PacketTrace>
  <HistoryResults>
    <HistoryResult>
      <ProfileName></ProfileName>
      <Interface></Interface>
      <Results>
        <Result>
          <Index></Index>
          <ExecuteResult></ExecuteResult>
        </Result>
      </Results>
    </HistoryResult>
  </HistoryResults>
</PacketTrace>
```

Table description

Item	Description
Feature name	PacketTrace
Table name	HistoryResults
Table type	Multi-instance table
Row name	HistoryResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String. Length: 1 to 31 characters.	N/A
Interface	Ingress interface	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
	for traced packets		Length: 32 bits.	interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Results	Table of history packet trace results	Sublist	N/A	N/A

PacketTrace/HistoryResults/Results

This table contains history packet trace results.

XML structure

Please refer to the XML structure of PacketTrace/HistoryResults.

Table description

Item	Description
Feature name	PacketTrace
Table name	Results
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Result index	Index	Unsigned integer.
ExecuteResult	Packet trace result	N/A	String.

Contents

PacketTrace/Profiles 2
PacketTrace/HistoryResults 2
PacketTrace/ExecuteProfile 2
PacketTrace/Profiles/L2 2
PacketTrace/Profiles/L3 3
PacketTrace/Profiles/Port 3
PacketTrace/Profiles/ICMP 3

PacketTrace/Profiles

Message	Explanation
Maximum number of profiles already reached. “创建的模板数已超过最大值。”	The number of traced packet profiles has reached the upper limit. 配置的模板数量超过最大值了。
The profile doesn’t exist. “模板不存在”	The obtained profile name does not exist. 获取的模板名不存在
The string must contain an even number of hex characters. 该字符串必须包含偶数个十六进制字符	The string must contain an even number of hexadecimal characters. 字符串必须包含偶数个十六进制字符
The profile name has been used. 该模板名已经被使用	The profile name must be unique. PacketTrace模板名必须唯一，即便是不同类型的PacketTrace模板，名称也不能相同
Configuration not supported of type raw RAW不支持此配置	Configuration not supported of type raw 此配置不支持RAW类型
The profile name cannot contain "-". 模板名不能包含“-”	The specified profile name cannot contain "-". 指定的模板名不能包含“-”

PacketTrace/HistoryResults

Message	Explanation
The profile doesn’t exist. “模板不存在”	The specified profile name does not exist. 指定的模板名不存在

PacketTrace/ExecuteProfile

Message	Explanation
The profile doesn’t exist. “模板不存在”	The specified profile name does not exist. 指定的模板名不存在
The profile lacks required parameters to construct traced packets. “配置文件缺少必需的参数”	The specified profile lacks required parameters to construct traced packets. 指定的模板缺失必要的配置参数
The current state of the specified interface has been down. 指定的接口当前状态已关闭	The current state of the specified interface has been down. 指定的接口当前状态已关闭

PacketTrace/Profiles/L2

Message	Explanation
The source and destination MAC addresses must	The source and destination MAC addresses must be configured

be configured together. “配置此命令时src-mac和dst-mac必须同时下发”	together. 创建表时源地址和目的地址必须绑定下发

PacketTrace/Profiles/L3

Message	Explanation
The source and destination IP addresses must be configured together. “配置源ip地址和目的ip地址必须同时下发”	The source and destination IP addresses must be configured together. 源ip地址和目的ip地址必须绑定下发

PacketTrace/Profiles/Port

Message	Explanation
The source and destination ports must be configured together. “配置端口和目的端口必须同时下发”	The source and destination ports must be configured together. 源端口和目的端口必须绑定下发

PacketTrace/Profiles/ICMP

Message	Explanation
The ICMP type and ICMP code must be configured together. “配置Icmp消息类型和消息码必须同时下发”	The ICMP type and ICMP code must be configured together. Icmp消息类型和消息码必须绑定下发

Contents

PasswordControl 1

PasswordControl/ClearAllBlackLists 1
- XML structure 1
- Table description 1
- Columns 1

PasswordControl/BlackLists 1
- XML structure 1
- Table description 2
- Columns 2

PasswordControl/ClearAllHistoryRecords 2
- XML structure 2
- Table description 2
- Columns 3

PasswordControl/LocalUserHistoryRecords 3
- XML structure 3
- Table description 3
- Columns 4

PasswordControl/NetworkUserHistoryRecords 4
- XML structure 4
- Table description 4
- Columns 4

PasswordControl/SuperRoleHistoryRecords 5
- XML structure 5
- Table description 5
- Columns 5

PasswordControl

PasswordControl/ClearAllBlackLists

Clear all users in the password control blacklist.

XML structure

```
<PasswordControl>
  <ClearAllBlackLists>
    <Clear></Clear>
  </ClearAllBlackLists>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	ClearAllBlackLists
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears all users in the blacklist.	N/A	This column must be empty.

PasswordControl/BlackLists

Clear a specific user from the blacklist.

XML structure

```
<PasswordControl>
  <BlackLists>
    <BlackList>
      <UserName></UserName>
      <Clear></Clear>
```

```
    </BlackList>
  </BlackLists>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	BlackLists
Table type	Multi-instance table
Row name	BlackList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserName	Username.	Index	String, case-sensitive. Length: 1 to 80 characters.
Clear	Clears the specified user from the blacklist.	N/A	This column must be empty.

PasswordControl/ClearAllHistoryRecords

Clear history password records for all local users or super roles.

XML structure

```
<PasswordControl>
  <ClearAllHistoryRecord>
    <Type></Type>
    <Clear></Clear>
  </ClearAllHistoryRecord>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	ClearAllHistoryRecord
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	History password record type.	N/A	Enumeration: • **0**—History password records for all device management users. • **1**—History password records for all super roles. • **2**—History password records for all network access users.
Clear	Clears history password records.	N/A	This column must be empty.

PasswordControl/LocalUserHistoryRecords

Clear history password records for a local user.

XML structure

```
<PasswordControl>
  <LocalUserHistoryRecords>
    <LocalUserHistoryRecord>
      <UserName></UserName>
      <Clear></Clear>
    </LocalUserHistoryRecord>
  </LocalUserHistoryRecords>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	LocalUserHistoryRecords
Table type	Multi-instance table
Row name	LocalUserHistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserName	Username.	Index	String, case-sensitive. Length: 1 to 80 characters.
Clear	Clears history password records for the specified local user.	N/A	This column must be empty.

PasswordControl/NetworkUserHistoryRecords

Clear history password records for a network access user.

XML structure

```
<PasswordControl>
  <NetworkUserHistoryRecords>
    <NetworkUserHistoryRecord>
      <UserName></UserName>
      <Clear></Clear>
    </NetworkUserHistoryRecord>
  </NetworkUserHistoryRecords>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	NetworkUserHistoryRecords
Table type	Multi-instance table
Row name	NetworkUserHistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserName	Username	Index	String, case-sensitive. Length: 1 to 80 characters.
Clear	Clears history password records for the specified network access user	N/A	This column must be empty.

PasswordControl/SuperRoleHistoryRecords

Clear password history records for a super role.

XML structure

```
<PasswordControl>
  <SuperRoleHistoryRecords>
    <SuperRoleHistoryRecord>
      <RoleName></RoleName>
      <Clear></Clear>
    </SuperRoleHistoryRecord>
  </SuperRoleHistoryRecords>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	SuperRoleHistoryRecords
Table type	Multi-instance table
Row name	SuperRoleHistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Role name.	Index	String, case-sensitive. Length: 1 to 63 characters.
Clear	Clears history password records for the specified user role.	N/A	This column must be empty.

Contents

PasswordControl 1
PasswordControl/GlobalConfig 1
XML structure 1
Table description 2
Columns 2
PasswordControl/UserGroups 5
XML structure 6
Table description 6
Columns 6
PasswordControl/Users 8
XML structure 8
Table description 9
Columns 9
PasswordControl/NetworkUsers 11
XML structure 11
Table description 11
Columns 12
PasswordControl/Super 12
XML structure 13
Table description 13
Columns 13
PasswordControl/Trap 14
XML structure 14
Table description 14
Columns 14

PasswordControl

PasswordControl/GlobalConfig

Global password control configuration information table.

XML structure

```
<PasswordControl>
  <GlobalConfig>
    <GlobalEnableState></GlobalEnableState>
    <GlobalNetworkEnableState></GlobalNetworkEnableState>
    <Length>
      <State></State>
      <MinLength></MinLength>
    </Length>
    <Composition>
      <State></State>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
    <Aging>
      <State></State>
      <AgingTime></AgingTime>
    </Aging>
    <History>
      <State></State>
      <MaxHistoryNumber></MaxHistoryNumber>
    </History>
    <CheckSameChar></CheckSameChar>
    <CheckUserName></CheckUserName>
    <AlertTime></AlertTime>
    <IdleTime></IdleTime>
    <UpdateInterval></UpdateInterval>
    <Expired>
      <DelayTime></DelayTime>
      <TryTimes></TryTimes>
    </Expired>
    <Attempt>
      <FailTimes></FailTimes>
      <Action></Action>
      <LockTime></LockTime>
      <LockTimeMode></LockTimeMode>
      <MaxLockTime></MaxLockTime>
    </Attempt>
    <WeakPwdForceChange></WeakPwdForceChange>
```

```
    <BlackListUserInfo></BlackListUserInfo>
    <BlacklistLimit></BlacklistLimit>
  </GlobalConfig>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEnableState	Whether to enable password control for device management users.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default is false. In FIPS mode, the default is true.
GlobalNetworkEnableState	Whether to enable password control for network access users.	N/A	Boolean: • true. • false.	The default is false, no matter in FIPS mode or in non-FIPS mode.
Length	Minimum password length restriction policy.	Data structure	Members include: • State. • MinLength.	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: • true. • false.	Default: true.
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, a password is a string of 4 to 32 characters. • In FIPS mode, a password is a string of 15 to 32 characters.	In non-FIPS mode, the default value is 10. In FIPS mode, the default value is 15.
Composition	Password composition policy.	Data structure	Members include: • State.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• TypeNumber. • PerTypeLen.	
State	Whether to enable the password composition restriction feature.	N/A	Boolean: • true. • false.	Default: true.
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	In non-FIPS mode, the default value is 2. In FIPS mode, the default value is 4.
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column must be set together with the TypeNumber column.
Aging	Password expiration policy.	Data structure	Members include: • State. • AgingTime.	It applies to device management users only.
State	Whether a password expires.	N/A	Boolean: • true. • false.	Default: true.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
History	Password history record policy.	Data structure	Members include: • State. • MaxHistoryNumber.	N/A
State	Whether the device records previous passwords.	N/A	Boolean: • true. • false.	N/A
MaxHistoryNumber	Maximum number of history password records for each user.	N/A	Unsigned integer. Value range: 2 to 15.	Default: 4.
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	Default: false.
CheckUserName	Whether to refuse a password that	N/A	Boolean: • true.	In non-FIPS mode, the default value is true. In FIPS mode, the

Column name	Column description	Column type	Data type and restrictions	Remarks
	contains the username or the reverse of the username.		• false.	default value is false.
AlertTime	Number of days before a user password expires during which the user is notified of the pending password expiration.	N/A	Unsigned integer. Value range: 1 to 30, in days.	Default: 7 days. It applies to device management users only.
IdleTime	Maximum account idle time.	N/A	Unsigned integer. Value range: 0 to 365, in days. The value 0 indicates that there is no restriction for the account idle time.	Default: 90 days. It applies to device management users only.
UpdateInterval	Minimum password update interval.	N/A	Unsigned integer. Value range: 0 to 168, in hours.	Default: 24 hours.
Expired	Maximum number of days and maximum number of times that a user can log in after the password expires.	Data structure	Members include: • DelayTime. • TryTimes.	It applies to device management users only.
DelayTime	Maximum number of days that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 1 to 90, in days. This column must be set together with the TryTimes column.	Default: 30 days.
TryTimes	Maximum number of times that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 0 to 10. The value 0 indicates that a user can't log in after the password expires. This column must be set together with the DelayTime column.	Default: 3.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	It applies to device management users only.
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	Default: 3.
Action	An action to be taken for the	N/A	Enumeration:	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	user who fails to log in after making the maximum number of attempts.		• **0**—lock. • **1**—lock-time. • **2**—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	
WeakPwdForceChange	Whether to force the management user to change the weak password when the management user logs in.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is false. In FIPS mode, the defa ultvalue is true.
BlackListUserInfo	Attributes of user credentials to be added to the password blacklist	N/A	Enumeration: • **0**—UserName and IP address. • **1**—UserName.	Default: 0
BlacklistLimit	Maximum number of the blacklists entries for each user.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default: 32. The default value supports customization.

PasswordControl/UserGroups

Password control configuration information table for user groups.

XML structure

```
<PasswordControl>
  <UserGroups>
    <UserGroup>
      <UserGroupName></UserGroupName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <AgingState></AgingState>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
        <LockTimeMode></LockTimeMode>
        <MaxLockTime></MaxLockTime>
      </Attempt>
    </UserGroup>
  </UserGroups>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	UserGroups
Table type	Multi-instance table
Row name	UserGroup
Restrictions	The UserGroupName column must be from the table UserAccounts/UserGroups.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
CheckSameChar	Whether to refuse a	N/A	Boolean:	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	password that contains three or more consecutive identical characters.		• true. • false.	
CheckUserName	Whether to refuse a password that contains the username or the reverse of the username.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is true. In FIPS mode, the default value is false.
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
AgingState	Whether a password expires.	N/A	Boolean: • true. • false.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after	N/A	Enumeration: • **0**—lock. • **1**—lock-time.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	making the maximum number of attempts.		• **2**—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	

PasswordControl/Users

Password control configuration information table for users.

XML structure

```
<PasswordControl>
  <Users>
    <User>
      <UserName></UserName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <AgingState></AgingState>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
```

```
      <FailTimes></FailTimes>
      <Action></Action>
      <LockTime></LockTime>
      <LockTimeMode></LockTimeMode>
      <MaxLockTime></MaxLockTime>
    </Attempt>
  </User>
 </Users>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The UserName column must be from the table UserAccounts/Management/Accounts.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 80 characters.	Only support device management users.
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	Default: false.
CheckUserName	Whether to refuse a password that contains the username or the reverse of the username.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is true. In FIPS mode, the default value is false.
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
AgingState	Whether a password expires.	N/A	Boolean: • true. • false.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: • **0**—lock. • **1**—lock-time. • **2**—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime	

Column name	Column description	Column type	Data type and restrictions	Remarks
			column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	

PasswordControl/NetworkUsers

Password control configuration information table for network access users.

XML structure

```
<PasswordControl>
  <NetworkUsers>
    <NetworkUser>
      <UserName></UserName>
      <EnableState></EnableState>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
    </NetworkUser>
  </NetworkUsers>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	NetworkUsers
Table type	Multi-instance table
Row name	NetworkUser
Restrictions	The UserName column must be from the table UserAccounts/Network/Accounts.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	Index	String, case-sensitive. Length: 1 to 80 characters.	Only support network access users.
EnableState	Whether to enable password control.	N/A	Boolean: • true. • false.	Default: true.
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	Default: false.
CheckUserName	Whether to refuse a password that contains the username or the reverse of the username.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is true. In FIPS mode, the default value is false.
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32 characters.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.

PasswordControl/Super

Password control configuration information table for temporary user role authorization.

XML structure

```
<PasswordControl>
  <Super>
    <MinLength></MinLength>
    <AgingTime></AgingTime>
    <Composition>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
  </Super>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Super
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 63 characters. • In FIPS mode, the value range is 15 to 63 characters.	• In non-FIPS mode, the default value is 10. • In FIPS mode, the default value is 15.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
Composition	Password composition restriction policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	• In non-FIPS mode, the default value is 2. • In FIPS mode, the default value is 4.
PerTypeLen	Minimum	N/A	Unsigned integer.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of characters from each character type in a password.		• In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	This column takes effect only when the TypeNumber column is set.

PasswordControl/Trap

This table contains information about SNMP notifications for password control.

XML structure

```
<PasswordControl>
  <Trap>
    <Switchs>
      <BlacklistLock></BlacklistLock>
      <BlacklistUnlock></BlacklistUnlock>
    </Switchs>
  </Trap>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switchs	Whether to enable each type of SNMP notification for password control	Data structure	Members include: • BlacklistLock. • BlacklistUnlock.	N/A
BlacklistLock	Whether to send a notification after a user is	N/A	Boolean: • true • false	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	added to the blacklist			
BlacklistUnlock	Whether to send a notification after a user is removed from the blacklist	N/A	Boolean: • true • false	Default: false.

Contents

PasswordControl 1

PasswordControl/GlobalConfig 1
- XML structure 1
- Table description 2
- Columns 2

PasswordControl/UserGroups 5
- XML structure 5
- Table description 6
- Columns 6

PasswordControl/Users 8
- XML structure 8
- Table description 9
- Columns 9

PasswordControl/NetworkUsers 11
- XML structure 11
- Table description 11
- Columns 11

PasswordControl/Super 12
- XML structure 12
- Table description 13
- Columns 13

PasswordControl/Trap 13
- XML structure 14
- Table description 14
- Columns 14

PasswordControl/BlackLists 14
- XML structure 15
- Table description 15
- Columns 15

PasswordControl/Specification 16
- XML structure 16
- Table description 16
- Columns 16

PasswordControl

PasswordControl/GlobalConfig

Global password control configuration information table.

XML structure

```
<PasswordControl>
  <GlobalConfig>
    <GlobalEnableState></GlobalEnableState>
    <GlobalNetworkEnableState></GlobalNetworkEnableState>
    <Length>
      <State></State>
      <MinLength></MinLength>
    </Length>
    <Composition>
      <State></State>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
    <Aging>
      <State></State>
      <AgingTime></AgingTime>
    </Aging>
    <History>
      <State></State>
      <MaxHistoryNumber></MaxHistoryNumber>
    </History>
    <CheckSameChar></CheckSameChar>
    <CheckUserName></CheckUserName>
    <AlertTime></AlertTime>
    <IdleTime></IdleTime>
    <UpdateInterval></UpdateInterval>
    <Expired>
      <DelayTime></DelayTime>
      <TryTimes></TryTimes>
    </Expired>
    <Attempt>
      <FailTimes></FailTimes>
      <Action></Action>
      <LockTime></LockTime>
      <LockTimeMode></LockTimeMode>
      <MaxLockTime></MaxLockTime>
    </Attempt>
    <WeakPwdForceChange></WeakPwdForceChange>
```

```
    <BlackListUserInfo></BlackListUserInfo>
    <BlacklistLimit></BlacklistLimit>
  </GlobalConfig>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEnableState	Whether to enable password control for device management users.	N/A	Boolean: • true. • false.	N/A
GlobalNetworkEnableState	Whether to enable password control for network access users.	N/A	Boolean: • true. • false.	The default is false, no matter in FIPS mode or in non-FIPS mode.
Length	Minimum password length policy.	Data structure	Members include: • State. • MinLength.	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: • true. • false.	N/A
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, a password is a string of 4 to 32 characters. • In FIPS mode, a password is a string of 15 to 32 characters.	N/A
Composition	Password composition policy.	Data structure	Members include: • State. • TypeNumber. • PerTypeLen.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Whether to enable the password composition restriction feature.	N/A	Boolean: • true. • false.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	N/A
Aging	Password expiration policy.	Data structure	Members include: • State. • AgingTime.	It applies to device management users only.
State	Whether a password expires.	N/A	Boolean: • true. • false.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
History	Password history record policy.	Data structure	Members include: • State. • MaxHistoryNumber.	N/A
State	Whether the device records previous passwords.	N/A	Boolean: • true. • false.	N/A
MaxHistoryNumber	Maximum number of history password records for each user.	N/A	Unsigned integer. Value range: 2 to 15.	N/A
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	N/A
CheckUserName	Whether to refuse a password that contains the username or the reverse of the	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	username.			
AlertTime	Number of days before a user password expires during which the user is notified of the pending password expiration.	N/A	Unsigned integer. Value range: 1 to 30, in days.	It applies to device management users only.
IdleTime	Maximum account idle time.	N/A	Unsigned integer. Value range: 0 to 365, in days. The value 0 indicates that there is no restriction for the account idle time.	It applies to device management users only.
UpdateInterval	Minimum password update interval.	N/A	Unsigned integer. Value range: 0 to 168, in hours.	N/A
Expired	Maximum number of days and maximum number of times that a user can log in after the password expires.	Data structure	Members include: • DelayTime. • TryTimes.	It applies to device management users only.
DelayTime	Maximum number of days that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 1 to 90, in days. This column must be set together with the TryTimes column.	N/A
TryTimes	Maximum number of times that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 0 to 10. The value 0 indicates that a user can't log in after the password expires. This column must be set together with the DelayTime column.	N/A
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	It applies to device management users only.
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the	N/A	Enumeration: • **0**—lock. • **1**—lock-time. • **2**—unlock.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	maximum number of attempts.		This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	N/A
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	
WeakPwdForceChange	Whether to force the management user to change the weak password when the management user logs in.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is false.In FIPS mode, the default value is true.
BlackListUserInfo	Attributes of user credentials to be added to the password blacklist	N/A	Enumeration: • **0**—UserName and IP address. • **1**—UserName.	N/A
Blacklist-Limit	Maximum number of the blacklists entries for each user.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default: 32. The default value supports customization.

PasswordControl/UserGroups

Password control configuration information table for user groups.

XML structure

```
<PasswordControl>
  <UserGroups>
```

```
    <UserGroup>
      <UserGroupName></UserGroupName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <AgingState></AgingState>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
        <LockTimeMode></LockTimeMode>
        <MaxLockTime></MaxLockTime>
      </Attempt>
    </UserGroup>
  </UserGroups>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	UserGroups
Table type	Multi-instance table
Row name	UserGroup
Restrictions	The UserGroupName column must be from the table UserAccounts/UserGroups.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	N/A
CheckUserName	Whether to refuse a	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	password that contains the username or the reverse of the username.		• true. • false.	
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
AgingState	Whether a password expires.	N/A	Boolean: • true. • false.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: • **0**—lock. • **1**—lock-time. • **2**—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user	N/A	Unsigned integer.	Default: 1 minute.

Column name	Column description	Column type	Data type and restrictions	Remarks
	account.		Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	

PasswordControl/Users

Password control configuration information table for users.

XML structure

```
<PasswordControl>
  <Users>
    <User>
      <UserName></UserName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <AgingState></AgingState>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
        <LockTimeMode></LockTimeMode>
        <MaxLockTime></MaxLockTime>
      </Attempt>
```

```
    </User>
  </Users>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The UserName column must be from the table UserAccounts/Management/Accounts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	Index	String, case-sensitive. Length: 1 to 80 characters.	Only support device management users.
CheckSameChar	Whether to refuse a password that contains three or more consecutive identical characters.	N/A	Boolean: • true. • false.	N/A
CheckUserName	Whether to refuse a password that cintains the username or the reverse of the username.	N/A	Boolean: • true. • false.	N/A
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
AgingState	Whether a password expires.	N/A	Boolean: • true. • false.	N/A
Composition	Password composition	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		• TypeNumber. • PerTypeLen.	
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: • **0**—lock. • **1**—lock-time. • **2**—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.
LockTimeMode	Mode of locking time	N/A	Enumeration: • **0**—fixed mode • **1**—addition mode. This column must be set together with the LockTime column. If the value is 1, the MaxLockTime column must also be set.	
MaxLockTime	Maximum lock time	N/A	Unsigned integer. Value range: 1 to 360, in minutes.	

PasswordControl/NetworkUsers

Password control configuration information table for network access users.

XML structure

```
<PasswordControl>
  <NetworkUsers>
    <NetworkUser>
      <UserName></UserName>
      <EnableState></EnableState>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
    </NetworkUser>
  </NetworkUsers>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	NetworkUsers
Table type	Multi-instance table
Row name	NetworkUser
Restrictions	The UserName column must be from the table UserAccounts/Network/Accounts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	Index	String, case-sensitive. Length: 1 to 80 characters.	Only support network access users.
EnableState	Whether to enable password control.	N/A	Boolean: • true. • false.	Default: true.
CheckSameChar	Whether to refuse a	N/A	Boolean:	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	password that contains three or more consecutive identical characters.		• true. • false.	
CheckUserName	Whether to refuse a password that contains the username or the reverse of the username.	N/A	Boolean: • true. • false.	In non-FIPS mode, the default value is true.In FIPS mode, the default value is false.
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 32 characters. • In FIPS mode, the value range is 15 to 32 characters.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.

PasswordControl/Super

Password control configuration information table for temporary user role authorization.

XML structure

```
<PasswordControl>
  <Super>
    <MinLength></MinLength>
    <AgingTime></AgingTime>
    <Composition>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
```

```
  </Super>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Super
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum password length.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 4 to 63 characters. • In FIPS mode, the value range is 15 to 63 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
Composition	Password composition policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	N/A

PasswordControl/Trap

This table contains information about SNMP notifications for password control.

XML structure

```
<PasswordControl>
  <Trap>
    <Switchs>
      <BlacklistLock></BlacklistLock>
      <BlacklistUnlock></BlacklistUnlock>
    </Switchs>
  </Trap>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switchs	Whether to enable each type of SNMP notification for password control	Data structure	Members include: • BlacklistLock. • BlacklistUnlock.	N/A
BlacklistLock	Whether to send a notification after a user is added to the blacklist	N/A	Boolean: • true • false	Default: false.
BlacklistUnlock	Whether to send a notification after a user is removed from the blacklist	N/A	Boolean: • true • false	Default: false.

PasswordControl/BlackLists

Password control blacklist information table.

XML structure

```
<PasswordControl>
  <BlackLists>
    <BlackList>
      <UserName></UserName>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <LoginFailures></LoginFailures>
      <LockState></LockState>
    </BlackList>
  </BlackLists>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	BlackLists
Table type	Multi-instance table
Row name	BlackList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 80 characters.	Only support device management users.
IpType	IP address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
LoginFailures	Login failure times.	N/A	Unsigned integer.	N/A
LockState	Whether the user account is disabled for the user.	N/A	Enumeration: • **0**—unlock. The user is allowed to continue using this account to perform login attempts. • **1**—lock. The user account is disabled temporarily or permanently, depending on the value of the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Attempt column in the table PasswordControl/GlobalConfig, PasswordControl/UserGroups, or PasswordControl/Users.	

PasswordControl/Specification

The value range change information table for password control configuration items. The value ranges for these items are different in FIPS and non-FIPS modes.

XML structure

```
<PasswordControl>
  <Specification>
    <MinLength></MinLength>
    <MinTypeNumber></MinTypeNumber>
    <MaxPerTypeLen></MaxPerTypeLen>
    <WeakPwdPolicyActive></WeakPwdPolicyActive>
  </Specification>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum value for the MinLength column in the tables PasswordControl/GlobalConfig,	N/A	Unsigned integer. • In FIPS mode, the value is 15. • In non-FIPS mode, the value is 4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PasswordControl/UserGroups, PasswordControl/Users, and PasswordControl/Super.			
MinTypeNumber	Minimum value for the TypeNumber column in the tables PasswordControl/GlobalConfig, PasswordControl/UserGroups, PasswordControl/Users, and PasswordControl/Super.	N/A	Unsigned integer. • In FIPS mode, the value is 4. • In non-FIPS mode, the value is 1.	N/A
MaxPerTypeLen	Maximum value for the PerTypeLen column in the tables PasswordControl/GlobalConfig, PasswordControl/UserGroups, PasswordControl/Users, and PasswordControl/Super.	N/A	Unsigned integer. • In FIPS mode, the value is 15. • In non-FIPS mode, the value is 63.	N/A
WeakPwdPolicyActive	Whether weak password check policy is enabled	N/A	Boolean: • true. • false.	N/A

Contents

PasswordControl 1
PasswordControl/GlobalConfig 1
PasswordControl/UserGroups 1
PasswordControl/Users 1

PasswordControl

PasswordControl/GlobalConfig

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value. 密码元素的最少组合类型数以及每种元素的最小个数的乘积应该小于允许的最大密码长度。	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.
Failed to enable password control. 开启密码管理失败。	Failed to enable password control.
This feature can't be disabled when system is in FIPS mode. FIPS模式下不能关闭密码管理功能。	This feature can't be disabled when system is in FIPS mode.

PasswordControl/UserGroups

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value. 密码元素的最少组合类型数以及每种元素的最小个数的乘积应该小于允许的最大密码长度。	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.

PasswordControl/Users

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value. 密码元素的最少组合类型数以及每种元素的最小个数的乘积应该小于允许的最大密码长度。	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.

Contents

PBR 3

PBR/PBRPolicyNode 3
XML structure 3
Table description 4
Columns 4
PBR/PBRIfPolicy 7
XML structure 7
Table description 8
Columns 8
PBR/PBRApplyNexthop 9
XML structure 9
Table description 9
Columns 10
PBR/PBRApplyOutInterface 11
XML structure 11
Table description 11
Columns 11
PBR/PBRApplyAccessVPN 12
XML structure 12
Table description 13
Columns 13
PBR/PBRLocalPolicy 13
XML structure 13
Table description 14
Columns 14
PBR/PBRApplicationGroup 14
XML structure 14
Table description 15
Columns 15
PBR/PBRObjectGroup 15
XML structure 15
Table description 16
Columns 16
PBR/PBREgressIfPolicy 16
XML structure 16
Table description 17
Columns 17
PBR/PBRMatchServiceChain 17
XML structure 17
Table description 18
Columns 18
PBR/PBRApplyServiceChain 18
XML structure 18
Table description 19
Columns 19
PBR/PBRApplyFailActionDrop 19
XML structure 20
Table description 20
Columns 20
PBR/PBRVlanInterfacesPolicy 21
XML structure 21
Table description 21
Columns 21
PBR/PBRGlobalPolicy 22
XML structure 22
Table description 22
Columns 22

PBR/PBRApplyMirrorDestinationIp ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
PBR/PBRApplySRv6Policy ····· 24
XML structure ····· 24
Table description ····· 25
Columns ····· 25
PBR/PBRApplySRPolicy ····· 25
XML structure ····· 26
Table description ····· 26
Columns ····· 26
PBR/PBRApplySRv6BE ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27

PBR

PBR/PBRPolicyNode

This table contains policy node information.

XML structure

```
<PBR>
  <PBRPolicyNode>
    <PolicyNode>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Description></Description>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <QoSLocalID></QoSLocalID>
      <QoSLocalIDMode></QoSLocalIDMode>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <MatchSourceIP>
        <MatchSourceAddrVrfIndex></MatchSourceAddrVrfIndex>
        <MatchSourceAddress></MatchSourceAddress>
      </MatchSourceIP>
      <MatchSourceAddrInterface></MatchSourceAddrInterface>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyRemarkVPN></ApplyRemarkVPN>
      <ApplyContinue></ApplyContinue>
      <ApplyLoadShareNexthop></ApplyLoadShareNexthop>
      <ApplyLoadShareDefNexthop></ApplyLoadShareDefNexthop>
      <ApplyLoadShareInterface></ApplyLoadShareInterface>
      <ApplyLoadShareDefInterface></ApplyLoadShareDefInterface>
      <ApplyLoadShareSRv6Policy></ApplyLoadShareSRv6Policy>
      <ApplyLoadShareDefSRv6Policy></ApplyLoadShareDefSRv6Policy>
      <ApplyStatistics></ApplyStatistics>
      <ACLVersion></ACLVersion>
    </PolicyNode>
  </PBRPolicyNode>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRPolicyNode
Table type	Multi-instance table
Row name	PolicyNode
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	A smaller number has a higher priority. The value range for the node-number argument depends on the device model.
Mode	Match mode.	N/A	Enumeration: • **1**—Permit (default). • **2**—Deny.	N/A
Description	Description of the policy node	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
ACLNumber	ACL match criterion by number.	N/A	Unsigned integer. Value range: 2000 to 3999.	To delete an ACL match criterion, you must configure the ACLNumber together with the ACLName column.
ACLName	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter *a* to *z* or *A* to *Z*. The ACL name cannot be **all** in any combination of upper- and lower-case letters. To delete an ACL match criterion, you

Column name	Column description	Column type	Data type and restrictions	Remarks
				must configure the ACLName together with the ACLNumber column.
QoSLocalID	QoSLocalID	N/A	Unsigned integer. Value range: 1 to 4095 .	N/A
QoSLocalIDMode	Specify QPPB mode	N/A	Enumeration: • **0**—Normal (default). • **1**—QPPB	To delete QoSLocalIDMode column, you must configure the QosLocalID together with the QoSLocalIDMode column.
MatchVxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
MatchPacketLenMin	Minimum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	It must be configured together with the MatchPacketLenMax column. The packet length range includes boundary values. Support for this function depends on the device model.
MatchPacketLenMax	Maximum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	It must be configured together with the MatchPacketLenMin column. The value of MatchPacketLenMax must be no less than the value of MatchPacketLenMin. Support for this function depends on the device model.
MatchSourceIP	Source IP address match criterion	Data structure	Members include: • MatchSourceAddrVrfIndex. • MatchSourceAddress.	Support for this function depends on the device model. To delete a source IP address match criterion, you must configure the MatchSourceIP together with the MatchSourceAddrInterface column.
MatchSourceAddrVrfIndex	Index of the VPN instance.	N/A	Unsigned integer.	Some versions support VPN instance name. For relevant information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				XSD document of your product . Support for this function depends on the device model. The value of 0 specifies the public network.
MatchSourceAddress	Source IP address	N/A	String, case insensitive. Length: 1 to 45 characters.	Support for this function depends on the device model.
MatchSourceAddrInterface	Specify an interface	N/A	Unsigned integer.	Support for this function depends on the device model. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. To delete a source IP address match criterion, you must configure the MatchSourceAddrInterface together with the MatchSourceIP column.
ApplyPrecedence	Sets an IP precedence for matching packets.	N/A	Enumeration: • **0**—Routine. • **1**—Priority. • **2**—Immediate. • **3**—Flash. • **4**—Flash-override. • **5**—Critical. • **6**—Internet. • **7**—Network.	Support for this function depends on the device model.
ApplyIPDF	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Enumeration: • **0**—Allows packet fragmentation. • **1**—Prohibits packet fragmentation.	Support for this function depends on the device model.
ApplyRemarkVPN	Remarks the VPN instance for packets	N/A	Boolean: **true** **false** (default).	This function takes effects only when apply access-vpn is configured. Support for this

Column name	Column description	Column type	Data type and restrictions	Remarks
				function depends on the device model.
ApplyContinue	Compares packets with the next node upon failure on the current node.	N/A	Boolean: • **true** • **false** (default).	This function takes effect only when the match mode of the node is permit. Support for this function depends on the device model.
ApplyLoadShareNexthop	Apply load sharing mode to multiple next hops.	N/A	Boolean: • **true** • **false** (default).	Support for this function depends on the device model.
ApplyLoadShareDefNexthop	Apply load sharing mode to multiple default next hops.	N/A	Boolean: • **true** • **false** (default).	Support for this function depends on the device model.
ApplyLoadShareInterface	Apply load sharing mode to multiple output interfaces.	N/A	Boolean: • **true** • **false** (default).	Support for this function depends on the device model.
ApplyLoadShareDefInterface	Apply load sharing mode to multiple default output interfaces.	N/A	Boolean: • **true** • **false** (default).	Support for this function depends on the device model.
ApplyLoadShareSRv6Policy	Apply load sharing mode to multiple SRv6 Policy.	N/A	Boolean: • **true** • **false (default).**	Support for this function depends on the device model.
ApplyLoadShareDefSRv6Policy	Apply load sharing mode to multiple default SRv6 Policy.	N/A	Boolean: • **true** • **false (default).**	Support for this function depends on the device model.
ApplyStatistics	Whether PBR statistics is enabled	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	Support for this function depends on the device model.
ACLVersion	ACL type.	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6. • **4**—User-defined.	Support for this function depends on the device model.

PBR/PBRIfPolicy

This table contains interface PBR information.

XML structure

```
<PBR>
  <PBRIfPolicy>
```

```
    <IfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <ShareMode></ShareMode>
    </IfPolicy>
  </PBRIfPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRIfPolicy
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist. The delete and remove operations do not support this column.
ShareMode	Whether or not to apply the policy in resource sharing mode.	N/A	Boolean: • **true** • **false** (default).	In this mode, all interfaces on an interface card with the same policy applied share one hardware resource. Support for this function

Column name	Column description	Column type	Data type and restrictions	Remarks
				depends on the device model. The delete and remove operations do not support this column.

PBR/PBRApplyNexthop

This table contains PBR next hop information.

XML structure

```
<PBR>
  <PBRApplyNexthop>
    <ApplyNexthop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <VrfIndex></VrfIndex>
      <IpAddress></IpAddress>
      <TrackID></TrackID>
      <NexthopDirect></NexthopDirect>
      <PathID></PathID>
      <PathIndex></PathIndex>
    </ApplyNexthop>
  </PBRApplyNexthop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyNexthop
Table type	Multi-instance table
Row name	ApplyNexthop
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: • **0**—Next hop. • **1**—Default next hop. • **2**—Mirroring next hop.	Mirroring next hop not support NexthopDirect column.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. The value of 0 specifies the public network. The value of 65535 specifies the VPN instance where the inbound interface belongs. Support for setting 65535 depends on the device model.
IpAddress	IP address of the next hop.	Index	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.
TrackID	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.
NexthopDirect	Specifies whether the next hop must be directly connected.	N/A	Boolean: • **true** • **false** (default).	N/A
PathID	Service chain path ID	N/A	Unsigned integer. • Value range: 1 to 16777215.	N/A
PathIndex	Service chain path index	N/A	Unsigned integer. • Value range: 1 to 255.	This column must be configured together with the **PathID** column.

PBR/PBRApplyOutInterface

This table contains PBR output interface information.

XML structure

```
<PBR>
  <PBRApplyOutInterface>
    <ApplyOutInterface>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
    </ApplyOutInterface>
  </PBRApplyOutInterface>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyOutInterface
Table type	Multi-instance table
Row name	ApplyOutInterface
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Output interface mode.	Index	Enumeration: • **0**—Output interface. • **1**—Default output interface.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The output interface must be P2P type. Using a non-P2P output interface can result in forwarding failures when the interface has multiple next hops. Non-P2P interfaces include broadcast and NBMA interfaces such as Ethernet and virtual-template interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No track entry number as default.

PBR/PBRApplyAccessVPN

This table contains PBR access VPN instance information.

XML structure

```
<PBR>
  <PBRApplyAccessVPN>
    <ApplyAccessVPN>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
    </ApplyAccessVPN>
  </PBRApplyAccessVPN>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyAccessVPN
Table type	Multi-instance table
Row name	ApplyAccessVPN
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product.

PBR/PBRLocalPolicy

This table contains local PBR information.

XML structure

```
<PBR>
  <PBRLocalPolicy>
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
    <DualStackPolicyName></DualStackPolicyName>
  </PBRLocalPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRLocalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
Ipv6PolicyName	Name of the policy used by IPv6 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
DualStackPolicyName	Name of the policy used by dual-stack local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplicationGroup

This table contains PBR application group information.

XML structure

```
<PBR>
  <PBRApplicationGroup>
    <ApplicationGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <AppGroupName></AppGroupName>
    </ApplicationGroup>
  </PBRApplicationGroup>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplicationGroup
Table type	Multi-instance table
Row name	ApplicationGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
AppGroupName	Application group name.	Index	String, case insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The name cannot be **invalid** or **other** in any combination of upper- and lower-case letters.

PBR/PBRObjectGroup

This table contains PBR object group information.

XML structure

```
<PBR>
  <PBRObjectGroup>
    <ObjectGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <ObjectGroupName></ObjectGroupName>
    </ObjectGroup>
  </PBRObjectGroup>
```

```
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRObjectGroup
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
ObjectGroupName	Object group name.	Index	String, case insensitive. Length: 1 to 63 characters.	The specified object group must be a service object group type.

PBR/PBREgressIfPolicy

This table contains egress interface PBR information.

XML structure

```
<PBR>
  <PBREgressIfPolicy>
    <EgressIfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </EgressIfPolicy>
  </PBREgressIfPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBREgressIfPolicy
Table type	Multi-instance table
Row name	EgressIfPolicy
Restrictions	This table supports only VXLAN mode tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist. The delete and remove operations do not support this column.

PBR/PBRMatchServiceChain

This table contains PBR object match service chain information.

XML structure

```
<PBR>
  <PBRMatchServiceChain>
    <MatchServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
```

```
      <PathIndex></PathIndex>
    </MatchServiceChain>
  </PBRMatchServiceChain>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRMatchServiceChain
Table type	Multi-instance table
Row name	MatchServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

PBR/PBRApplyServiceChain

This table contains PBR object apply service chain information.

XML structure

```
<PBR>
  <PBRApplyServiceChain>
    <ApplyServiceChain>
```

```
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
      <PathIndex></PathIndex>
    </ApplyServiceChain>
  </PBRApplyServiceChain>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyServiceChain
Table type	Multi-instance table
Row name	ApplyServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

PBR/PBRApplyFailActionDrop

This table contains PBR failure action drop information.

XML structure

```
<PBR>
  <PBRApplyFailActionDrop>
    <ApplyFailActionDrop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Drop></Drop>
    </ApplyFailActionDrop>
  </PBRApplyFailActionDrop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyFailActionDrop
Table type	Multi-instance table
Row name	ApplyFailActionDrop
Restrictions	Support for this table depends on the device model
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: • **0**—Next hop**.**	N/A
Drop	Whether to drop matching packets when all next hops specified by column Mode become unreachable.	N/A	Boolean**:** • true. • false(default).	N/A

PBR/PBRVlanInterfacesPolicy

This table contains VLAN interface PBR information.

XML structure

```
<PBR>
  <PBRVlanInterfacesPolicy>
    <VlanInterfacesPolicy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <VlanInterfaceNumberList></VlanInterfaceNumberList>
    </VlanInterfacesPolicy>
  </PBRVlanInterfacesPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRVlanInterfacesPolicy
Table type	Multi-instance table
Row name	VlanInterfacesPolicy
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
VlanInterfaceNumberList	List of VLAN interface numbers.	N/A	Number string. It is a comma-separated list of VLAN interface number items. An item can be an individual VLAN interface number or a VLAN interface number range. Use a hyphen (-) to separate the start and end VLAN	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<VlanInterfaceNumberList h3c:incremental="true">”. If the value is true, the VLAN interface number list will be added or

Column name	Column description	Column type	Data type and restrictions	Remarks
			interface numbers of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	removed. Otherwise, it is the final result.

PBR/PBRGlobalPolicy

This table contains global PBR information.

XML structure

```
<PBR>
  <PBRGlobalPolicy>
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
    <DualStackPolicyName></DualStackPolicyName>
  </PBRGlobalPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRGlobalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
Ipv6PolicyName	Name of the policy used by IPv6 global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
DualStackPolicyName	Name of the policy used by dual-stack global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplyMirrorDestinationIp

This table contains PBR mirroring destination IP information.

XML structure

```
<PBR>
  <PBRApplyMirrorDestinationIp>
    <ApplyMirrorDestinationIp>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
      <DestIpAddress></DestIpAddress>
      <SourceIpAddress></SourceIpAddress>
      <Dscp></Dscp>
      <EncapType></EncapType>
    </ApplyMirrorDestinationIp>
  </PBRApplyMirrorDestinationIp>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyMirrorDestinationIp
Table type	Multi-instance table
Row name	ApplyMirrorDestinationIp
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Dual-stack.	
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. The value of 0 specifies the public network.
DestIpAddress	IP address of the destination IP address.	Index	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
SourceIpAddress	IP address of the source IP address.	N/A	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	The default DSCP value is 63.
EncapType	Encapsulation type	N/A	Enumeration: • **0**—GRE. • **1**—VXLAN.	VXLAN is not supported.

PBR/PBRApplySRv6Policy

This table contains PBR SRv6 policy information.

XML structure

```
<PBR>
  <PBRApplySRv6Policy>
    <ApplySRv6Policy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Color></Color>
      <Endpoint></Endpoint>
      <SID></SID>
      <VpnSID></VpnSID>
    </ApplySRv6Policy>
  </PBRApplySRv6Policy>
```

```
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRv6Policy
Table type	Multi-instance table
Row name	ApplySRv6Policy
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SRv6 policy mode	Index	Enumeration: • **0**—SRv6-policy • **1**—Default-SRv6-policy.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295	N/A
Endpoint	IPv6 address of the policy endpoint	Index	Hexadecimal string, colon-separated.	N/A
SID	Public network SID	N/A	Hexadecimal string, colon-separated.	This column and VpnSID cannot be specified together.
VpnSID	Private network SID	N/A	Hexadecimal string, colon-separated.	This column and SID cannot be specified together.

PBR/PBRApplySRPolicy

This table contains PBR SR policy information.

XML structure

```
<PBR>
  <PBRApplySRPolicy>
    <ApplySRPolicy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Color></Color>
      <Endpoint></Endpoint>
   </ApplySRPolicy>
  </PBRApplySRPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRPolicy
Table type	Multi-instance table
Row name	ApplySRPolicy
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	PBR Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	PBR Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SR policy mode	Index	Enumeration: • **0**—SR-policy • **1**—Default-SR-policy.	N/A
Color	Color associated with the SR	Index	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy		4294967295	
Endpoint	IPv4 address of the SR policy endpoint	Index	IPv4: String, dotted decimal notation.	N/A

PBR/PBRApplySRv6BE

This table contains PBR SRv6 BE information.

XML structure

```
<PBR>
  <PBRApplySRv6BE>
    <ApplySRv6BE>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <RemoteSID></RemoteSID>
      <LocatorPrefixLen></LocatorPrefixLen>
    </ApplySRv6BE>
  </PBRApplySRv6BE>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRv6BE
Table type	Multi-instance table
Row name	ApplySRv6BE
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive.	The specified policy must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 19 characters.	
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SRv6 BE mode	Index	Enumeration: • **0**—SRv6-BE • **1**—Default-SRv6-BE.	N/A
RemoteSID	Prefix of the IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
LocatorPrefixLen	Length of the IPv6 prefix.	Index	Unsigned integer. Value range: 32 to 120.	N/A

Contents

PBR 1

PBR/PBRPolicyNode 1
XML structure 1
Table description 2
Columns 2
PBR/PBRIfPolicy 5
XML structure 5
Table description 5
Columns 5
PBR/PBRApplyNexthop 6
XML structure 6
Table description 6
Columns 7
PBR/PBRApplyOutInterface 8
XML structure 8
Table description 8
Columns 8
PBR/PBRApplyAccessVPN 9
XML structure 9
Table description 10
Columns 10
PBR/PBRLocalPolicy 10
XML structure 10
Table description 11
Columns 11
PBR/PBRApplicationGroup 11
XML structure 11
Table description 12
Columns 12
PBR/PBRObjectGroup 12
XML structure 12
Table description 13
Columns 13
PBR/PBRSpecification 13
XML structure 13
Table description 15
Columns 15
PBR/PBREgressIfPolicy 20
XML structure 20
Table description 20
Columns 21
PBR/PBRMatchServiceChain 21
XML structure 21
Table description 22
Columns 22
PBR/PBRApplyServiceChain 22
XML structure 22
Table description 23
Columns 23
PBR/PBRApplyFailActionDrop 23
XML structure 23
Table description 24
Columns 24
PBR/PBRVlanInterfacesPolicy 24
XML structure 25
Table description 25
Columns 25

PBR/PBRGlobalPolicy ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
PBR/PBRApplyMirrorDestinationIp ····· 26
XML structure ····· 27
Table description ····· 27
Columns ····· 27
PBR/PBRIfPolicyStatistics ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
PBR/PBRLocalPolicyStatistics ····· 29
XML structure ····· 29
Table description ····· 30
Columns ····· 30
PBR/PBREgressIfPolicyStatistics ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
PBR/PBRVlanInterfacesPolicyStatistics ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 32
PBR/PBRGlobalPolicyStatistics ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 34
PBR/PBRApplySRv6Policy ····· 34
XML structure ····· 34
Table description ····· 35
Columns ····· 35
PBR/PBRApplySRPolicy ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
PBR/PBRApplySRv6BE ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38

PBR

PBR/PBRPolicyNode

This table contains policy node information.

XML structure

```
<PBR>
  <PBRPolicyNode>
    <PolicyNode>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Description></Description>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <QoSLocalID></QoSLocalID>
      <QoSLocalIDMode></QoSLocalIDMode>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <MatchSourceIP>
        <MatchSourceAddrVrfIndex></MatchSourceAddrVrfIndex>
        <MatchSourceAddress></MatchSourceAddress>
      </MatchSourceIP>
      <MatchSourceAddrInterface></MatchSourceAddrInterface>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyRemarkVPN></ApplyRemarkVPN>
      <ApplyContinue></ApplyContinue>
      <ApplyLoadShareNexthop></ApplyLoadShareNexthop>
      <ApplyLoadShareDefNexthop></ApplyLoadShareDefNexthop>
      <ApplyLoadShareInterface></ApplyLoadShareInterface>
      <ApplyLoadShareDefInterface></ApplyLoadShareDefInterface>
      <ApplyLoadShareSRv6Policy></ApplyLoadShareSRv6Policy>
      <ApplyLoadShareDefSRv6Policy></ApplyLoadShareDefSRv6Policy>
      <ApplyStatistics></ApplyStatistics>
      <ACLVersion></ACLVersion>
    </PolicyNode>
  </PBRPolicyNode>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRPolicyNode
Table type	Multi-instance table
Row name	PolicyNode
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2—**Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	A smaller number has a higher priority. The value range for the node-number argument depends on the device model.
Mode	Match mode.	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Description	Description of the policy node	N/A	String, case sensitive. Length: 1 to 127 characters.	N/A
ACLNumber	ACL match criterion by number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter *a* to *z* or *A* to *Z*. The ACL name cannot be **all** in any combination of upper- and lower-case letters.
QoSLocalID	QoSLocalID	N/A	Unsigned integer. Value range: 1 to 4095 .	N/A
QoSLocalIDMode	Specify QPPB mode	N/A	Enumeration: • **0**—Normal (default). • **1**—QPPB	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchVxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
MatchPacketLenMin	Minimum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	The packet length range includes boundary values. Support for this function depends on the device model.
MatchPacketLenMax	Maximum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	The value of MatchPacketLenMax must be no less than the value of MatchPacketLenMin. Support for this function depends on the device model.
MatchSourceIP	Source IP address match criterion	Data structure	Members include: • MatchSourceAddrVrfIndex. • MatchSourceAddress.	Support for this function depends on the device model.
MatchSourceAddrVrfIndex	Index of the VPN instance.	N/A	Unsigned integer.	Some versions support VPN instance name. For relevant information, see the XSD document of your product. The value of 0 specifies the public network. Support for this function depends on the device model.
MatchSourceAddress	Source IP address match criterion	N/A	String, case insensitive. Length: 1 to 45 characters.	Support for this function depends on the device model.
MatchSourceAddrInterface	Specify an interface	N/A	Unsigned integer.	Support for this function depends on the device model. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
ApplyPrecedence	Sets an IP precedence for matching packets.	N/A	Enumeration: • **0**—Routine. • **1**—Priority. • **2**—Immediate.	Support for this function depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Flash. • **4**—Flash-override. • **5**—Critical. • **6**—Internet. • **7**—Network.	
ApplyIPDF	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Enumeration: • **0**—Allows packet fragmentation. • **1**—Prohibits packet fragmentation. • **2**—DF bit is not set.	Support for this function depends on the device model.
ApplyRemarkVPN	Remarks the VPN instance for packets	N/A	Boolean: **true**—Apply. **false**—Not apply.	This function takes effects only when apply access-vpn is configured. Support for this function depends on the device model.
ApplyContinue	Compares packets with the next node upon failure on the current node.	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	This function takes effect only when the match mode of the node is permit. Support for this function depends on the device model.
ApplyLoadShareNexthop	Apply load sharing mode to multiple next hops.	N/A	Boolean: • **true—**Apply. • **false—**Not apply.	Support for this function depends on the device model.
ApplyLoadShareDefNexthop	Apply load sharing mode to multiple default next hops.	N/A	Boolean: • **true—**Apply. • **false**—Not apply.	Support for this function depends on the device model.
ApplyLoadShareInterface	Apply load sharing mode to multiple output interfaces.	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	Support for this function depends on the device model.
ApplyLoadShareDefInterface	Apply load sharing mode to multiple default output interfaces.	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	Support for this function depends on the device model.
ApplyLoadShareSRv6Policy	Apply load sharing mode to multiple SRv6 Policy.	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	Support for this function depends on the device model.
ApplyLoadShareDefSRv6Policy	Apply load sharing mode to multiple default SRv6 Policy.	N/A	Boolean: • **true**—Apply. • **false**—Not apply**.**	Support for this function depends on the device model.
ApplyStatistics	Whether PBR statistics is enabled	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	Support for this function depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLVersion	ACL type.	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6. • **4**—User-defined.	Support for this function depends on the device model.

PBR/PBRIfPolicy

This table contains interface PBR information.

XML structure

```
<PBR>
  <PBRIfPolicy>
    <IfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PolicyName></PolicyName>
      <ShareMode></ShareMode>
    </IfPolicy>
  </PBRIfPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRIfPolicy
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.	N/A
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
ShareMode	Whether or not to apply the policy in resource sharing mode.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	In this mode, all interfaces on an interface card with the same policy applied share one hardware resource. Support for this function depends on the device model.

PBR/PBRApplyNexthop

This table contains PBR next hop information.

XML structure

```
<PBR>
  <PBRApplyNexthop>
    <ApplyNexthop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <VrfIndex></VrfIndex>
      <IpAddress></IpAddress>
      <Priority></Priority>
      <TrackID></TrackID>
      <NexthopDirect></NexthopDirect>
      <PathID></PathID>
      <PathIndex></PathIndex>
    </ApplyNexthop>
  </PBRApplyNexthop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyNexthop
Table type	Multi-instance table

Row name	ApplyNexthop
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: • **0**—Next hop. • **1**—Default next hop. • **2**—Mirroring next hop.	Mirroring next hop not support NexthopDirect column.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. The value of 0 specifies the public network. The value of 65535 specifies the VPN instance where the inbound interface belongs. Support for setting 65535 depends on the device model.
IpAddress	IP address of the next hop.	Index	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.
Priority	Priority of the next hop.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.
NexthopDirect	Specifies whether the next hop must be directly	N/A	Boolean: • **true**—Apply. • **false**—Not apply.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	connected.			
PathID	Service chain path ID	N/A	Unsigned integer. • Value range: 1 to 16777215.	N/A
PathIndex	Service chain path index	N/A	Unsigned integer. • Value range: 1 to 255.	N/A

PBR/PBRApplyOutInterface

This table contains PBR output interface information.

XML structure

```
<PBR>
  <PBRApplyOutInterface>
    <ApplyOutInterface>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Priority></Priority>
      <TrackID></TrackID>
    </ApplyOutInterface>
  </PBRApplyOutInterface>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyOutInterface
Table type	Multi-instance table
Row name	ApplyOutInterface
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Output interface mode.	Index	Enumeration: • **0**—Output interface. • **1**—Default output interface.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The output interface must be P2P type. Using a non-P2P output interface can result in forwarding failures when the interface has multiple next hops. Non-P2P interfaces include broadcast and NBMA interfaces such as Ethernet and virtual-template interfaces.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.	N/A
Priority	Priority of the output interface.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.

PBR/PBRApplyAccessVPN

This table contains PBR access VPN instance information.

XML structure

```
<PBR>
  <PBRApplyAccessVPN>
    <ApplyAccessVPN>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
```

```
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
      <Priority></Priority>
    </ApplyAccessVPN>
  </PBRApplyAccessVPN>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyAccessVPN
Table type	Multi-instance table
Row name	ApplyAccessVPN
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product.
Priority	Priority of the VPN instance.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRLocalPolicy

This table contains local PBR information.

XML structure

```
<PBR>
  <PBRLocalPolicy>
```

```
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
    <DualStackPolicyName></DualStackPolicyName>
  </PBRLocalPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRLocalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
Ipv6PolicyName	Name of the policy used by IPv6 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
DualStackPolicyName	Name of the policy used by dual-stack local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplicationGroup

This table contains PBR application group information.

XML structure

```
<PBR>
  <PBRApplicationGroup>
    <ApplicationGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <AppGroupName></AppGroupName>
      <Priority></Priority>
    </ApplicationGroup>
  </PBRApplicationGroup>
```

```
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplicationGroup
Table type	Multi-instance table
Row name	ApplicationGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
AppGroupName	Application group name.	Index	String, case insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The name cannot be **invalid** or **other** in any combination of upper- and lower-case letters.
Priority	Priority of the application group.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRObjectGroup

This table contains PBR object group information.

XML structure

```
<PBR>
  <PBRObjectGroup>
    <ObjectGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
```

```
      <NodeID></NodeID>
      <ObjectGroupName></ObjectGroupName>
      <Priority></Priority>
    </ObjectGroup>
  </PBRObjectGroup>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRObjectGroup
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
ObjectGroupName	Object group name.	Index	String, case insensitive. Length: 1 to 63 characters.	The specified object group must be a service object group.
Priority	Priority of the object group.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRSpecification

This table contains PBR specification information.

XML structure

```
<PBR>
  <PBRSpecification>
    <SupportInboundVPNIpv4></SupportInboundVPNIpv4>
```

```
<SupportOnlyNull0Ipv4></SupportOnlyNull0Ipv4>
<SupportIPDFIpv4></SupportIPDFIpv4>
<SupportPacketLenIpv4></SupportPacketLenIpv4>
<SupportPrecedenceIpv4></SupportPrecedenceIpv4>
<SupportContinueIpv4></SupportContinueIpv4>
<SupportNextHopIpv4></SupportNextHopIpv4>
<SupportDefNextHopIpv4></SupportDefNextHopIpv4>
<SupportInterfaceIpv4></SupportInterfaceIpv4>
<SupportDefInterfaceIpv4></SupportDefInterfaceIpv4>
<SupportAccessVPNIpv4></SupportAccessVPNIpv4>
<SupportMirrorDestinationIpv4></SupportMirrorDestinationIpv4>
<SupportStatisticIpv4></SupportStatisticIpv4>
<SupportInboundVPNIpv6></SupportInboundVPNIpv6>
<SupportOnlyNull0Ipv6></SupportOnlyNull0Ipv6>
<SupportPacketLenIpv6></SupportPacketLenIpv6>
<SupportPrecedenceIpv6></SupportPrecedenceIpv6>
<SupportContinueIpv6></SupportContinueIpv6>
<SupportNextHopIpv6></SupportNextHopIpv6>
<SupportDefNextHopIpv6></SupportDefNextHopIpv6>
<SupportInterfaceIpv6></SupportInterfaceIpv6>
<SupportDefInterfaceIpv6></SupportDefInterfaceIpv6>
<SupportAccessVPNIpv6></SupportAccessVPNIpv6>
<MaxNodeIDIpv4></MaxNodeIDIpv4>
<MaxNodeIDIpv6></MaxNodeIDIpv6>
<MaxNextHopIpv4></MaxNextHopIpv4>
<MaxInterfaceIpv4></MaxInterfaceIpv4>
<MaxAccessVPNIpv4></MaxAccessVPNIpv4>
<MaxNextHopIpv6></MaxNextHopIpv6>
<MaxInterfaceIpv6></MaxInterfaceIpv6>
<MaxAccessVPNIpv6></MaxAccessVPNIpv6>
<SupportMirrorDestinationIpv6></SupportMirrorDestinationIpv6>
<SupportStatisticIpv6></SupportStatisticIpv6>
<SupportAppGroupIpv4></SupportAppGroupIpv4>
<SupportObjectGroupIpv4></SupportObjectGroupIpv4>
<MaxAppGroupIpv4></MaxAppGroupIpv4>
<MaxObjectGroupIpv4></MaxObjectGroupIpv4>
<SupportShareModeIpv4></SupportShareModeIpv4>
<SupportShareModeIpv6></SupportShareModeIpv6>
<SupportSRv6PolicyIpv4></SupportSRv6PolicyIpv4>
<SupportDefSRv6PolicyIpv4></SupportDefSRv6PolicyIpv4>
<MaxSRv6PolicyIpv4></MaxSRv6PolicyIpv4>
<SupportSRv6PolicyIpv6></SupportSRv6PolicyIpv6>
<SupportDefSRv6PolicyIpv6></SupportDefSRv6PolicyIpv6>
<MaxSRv6PolicyIpv6></MaxSRv6PolicyIpv6>
<SupportInboundVPNDualStack></SupportInboundVPNDualStack>
<SupportOnlyNull0DualStack></SupportOnlyNull0DualStack>
<SupportPrecedenceDualStack></SupportPrecedenceDualStack>
<SupportNextHopDualStack></SupportNextHopDualStack>
```

```
    <SupportDefNextHopDualStack></SupportDefNextHopDualStack>
    <SupportInterfaceDualStack></SupportInterfaceDualStack>
    <SupportDefInterfaceDualStack></SupportDefInterfaceDualStack>
    <SupportMirrorDestinationDualStack></SupportMirrorDestinationDualStack>
    <SupportStatisticDualStack></SupportStatisticDualStack>
    <MaxNodeIDDualStack></MaxNodeIDDualStack>
    <MaxNextHopDualStack></MaxNextHopDualStack>
    <MaxInterfaceDualStack></MaxInterfaceDualStack>
    <IfAclVPNCapability></IfAclVPNCapability>
    <SupportSRPolicyIpv4></SupportSRPolicyIpv4>
    <SupportDefSRPolicyIpv4></SupportDefSRPolicyIpv4>
    <MaxSRPolicyIpv4></MaxSRPolicyIpv4>
    <SupportSRPolicyIpv6></SupportSRPolicyIpv6>
    <SupportDefSRPolicyIpv6></SupportDefSRPolicyIpv6>
    <MaxSRPolicyIpv6></MaxSRPolicyIpv6>
  </PBRSpecification>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportInboundVPNIpv4	Support for specifying the IPv4 VPN instance where the inbound interface belongs.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportOnlyNull0Ipv4	Supports only the NULL 0 interface as the IPv4 output interface.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportIPDFIpv4	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportPacketLenIpv4	Support for IPv4 packet length match criteria.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A

SupportPrecedenceIpv4	Support for setting the precedence for IPv4 packets.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportContinueIpv4	Support for comparing IPv4 packets with the next node upon failure on the current node.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportNextHopIpv4	Support for IPv4 next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefNextHopIpv4	Support for IPv4 default next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportInterfaceIpv4	Support for IPv4 output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefInterfaceIpv4	Support for IPv4 default output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportAccessVPNIpv4	Support for IPv4 VPN instances.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportMirrorDestinationIpv4	Support for mirroring destination IPv4.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportStatisticIpv4	Support for IPv4 Statistics.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportInboundVPNIpv6	Support for specifying the IPv6 VPN instance where the inbound interface belongs.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportOnlyNull0Ipv6	Supports only the NULL 0 interface as the IPv6 output interface.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportPacketLenIpv6	Support for IPv6 packet length match criteria.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportPrecedenceIpv6	Support for setting the precedence for IPv6 packets.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportContinueIpv6	Support for comparing IPv6 packets against the next node	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A

	upon failure on the current node.			
SupportNextHopIpv6	Support for IPv6 next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefNextHopIpv6	Support for IPv6 default next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportInterfaceIpv6	Support for IPv6 output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefInterfaceIpv6	Support for IPv6 default output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportAccessVPNIpv6	Support for IPv6 VPN instances.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
MaxNodeIDIpv4	Maximum number of IPv4 nodes.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxNodeIDIpv6	Maximum number of IPv6 nodes.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxNextHopIpv4	Maximum number of IPv4 next hops or default next hops.	N/A	Unsigned integer.	N/A
MaxInterfaceIpv4	Maximum number of IPv4 output interfaces or default output interfaces.	N/A	Unsigned integer.	N/A
MaxAccessVPNIpv4	Maximum number of IPv4 VPN instances.	N/A	Unsigned integer.	N/A
MaxNextHopIpv6	Maximum number of IPv6 next hops or default next hops.	N/A	Unsigned integer.	N/A
MaxInterfaceIpv6	Maximum number of IPv6 output interfaces or default output interfaces.	N/A	Unsigned integer.	N/A
MaxAccessVPNIpv6	Maximum number of IPv6 VPN instances.	N/A	Unsigned integer.	N/A
SupportMirrorDestinationIpv6	Support for mirroring destination IPv6.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportStatisticIpv6	Support for IPv6 Statistics.	N/A	Boolean: • **true**—Support.	N/A

			• **false**—Not support.	
SupportAppGroupIpv4	Support for IPv4 application group.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportObjectGroupIpv4	Support for IPv4 object group.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
MaxAppGroupIpv4	Maximum number of IPv4 application group.	N/A	Unsigned integer.	N/A
MaxObjectGroupIpv4	Maximum number of IPv4 object group.	N/A	Unsigned integer.	N/A
IfAclVPNCapability	VPN instance support of ACL rules	N/A	Unsigned integer: • **0x00000001**—Support. If the interface is in the VPN, the VPN instance must be carried. • **0x00000002**—Not support. • **0x00000004**—Supported in microsegment rules. If the interface is in the VPN, the VPN instance must be carried. • **0x00000008**—Supported in IP rules. If the interface is in the VPN, the VPN instance must be carried.	Value 0x00000001 or 0x00000002 cannot be used in bitwise OR operation with other values. The default value for the column is 0x00000001.
SupportShareModeIpv4	Support for enabling IPv4 policy sharemode on the interface.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportShareModeIpv6	Support for enabling IPv6 policy sharemode on the interface.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportSRv6PolicyIpv4	Support for enabling IPv4 SRv6 policy.	N/A	Boolean: • **true**—Support. • **false**—Not support	N/A
SupportDefSRv6PolicyIpv4	Support for enabling IPv4 default SRv6 policy.	N/A	Boolean: • **true**—Support. • **false**—Not support	N/A
MaxSRv6PolicyIpv4	Maximum number of IPv4 SRv6 policies or default SRv6 policies.	N/A	Unsigned integer.	N/A
SupportSRv6PolicyIpv6	Support for enabling IPv6	N/A	Boolean: • **true**—Support.	N/A

	SRv6 policy.		• **false**—Not support	
SupportDefSRv6PolicyIpv6	Support for enabling IPv6 default SRv6 policy.	N/A	Boolean: • **true**—Support. • **false**—Not support	N/A
MaxSRv6PolicyIpv6	Maximum number of IPv6 SRv6 policies or default SRv6 policies.	N/A	Unsigned integer.	N/A
SupportInboundVPNDualStack	Support for specifying the Dual-stack VPN instance where the inbound interface belongs.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportOnlyNull0DualStack	Supports only the NULL 0 interface as the Dual-stack output interface.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportPrecedenceDualStack	Support for setting the precedence for Dual-stack packets.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportNextHopDualStack	Support for Dual-stack next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefNextHopDualStack	Support for Dual-stack default next hops.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportInterfaceDualStack	Support for Dual-stack output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportDefInterfaceDualStack	Support for Dual-stack default output interfaces.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportMirrorDestinationDualStack	Support for mirroring destination Dual-stack.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
SupportStatisticDualStack	Support for Dual-stack Statistics.	N/A	Boolean: • **true**—Support. • **false**—Not support.	N/A
MaxNodeIDDualStack	Maximum number of Dual-stack nodes.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxNextHopDualStack	Maximum number of Dual-stack next hops or default next hops.	N/A	Unsigned integer.	N/A
MaxInterfaceDualStack	Maximum number of Dual-stack output interfaces or default output	N/A	Unsigned integer.	N/A

	interfaces.			
SupportSRPolicyIpv4	Support for enabling IPv4 SR policy.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportDefSRPolicyIpv4	Support for enabling IPv4 default SR policy.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
MaxSRPolicyIpv4	Maximum number of IPv4 SR policies or default SR policies.	N/A	Unsigned integer.	N/A
SupportSRPolicyIpv6	Support for enabling IPv6 SR policy.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
SupportDefSRPolicyIpv6	Support for enabling IPv6 default SR policy.	N/A	Boolean: • **true**—Supported. • **false**—Not supported.	N/A
MaxSRPolicyIpv6	Maximum number of IPv6 SR policies or default SR policies.	N/A	Unsigned integer.	N/A

PBR/PBREgressIfPolicy

This table contains egress interface PBR information.

XML structure

```
<PBR>
  <PBREgressIfPolicy>
    <EgressIfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PolicyName></PolicyName>
    </EgressIfPolicy>
  </PBREgressIfPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBREgressIfPolicy
Table type	Multi-instance table
Row name	EgressIfPolicy

Restrictions	This table supports only VXLAN mode tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.	N/A
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRMatchServiceChain

This table contains PBR object match service chain information.

XML structure

```
<PBR>
  <PBRMatchServiceChain>
    <MatchServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
      <PathIndex></PathIndex>
      <Priority></Priority>
    </MatchServiceChain>
  </PBRMatchServiceChain>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRMatchServiceChain
Table type	Multi-instance table
Row name	MatchServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the service chain.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRApplyServiceChain

This table contains PBR object apply service chain information.

XML structure

```
<PBR>
  <PBRApplyServiceChain>
    <ApplyServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
```

```
      <PathID></PathID>
      <PathIndex></PathIndex>
    </ApplyServiceChain>
  </PBRApplyServiceChain>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyServiceChain
Table type	Multi-instance table
Row name	ApplyServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

PBR/PBRApplyFailActionDrop

This table contains PBR failure action drop information.

XML structure

```
<PBR>
  <PBRApplyFailActionDrop>
```

```
    <ApplyFailActionDrop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Drop></Drop>
    </ApplyFailActionDrop>
  </PBRApplyFailActionDrop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyFailActionDrop
Table type	Multi-instance table
Row name	ApplyFailActionDrop
Restrictions	Support for this table depends on the device model

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: • **0**—Next hop.	N/A
Drop	Whether to drop matching packets when all next hops specified by column Mode become unreachable.	N/A	Boolean: • true. • false.	N/A

PBR/PBRVlanInterfacesPolicy

This table contains VLAN interface PBR information.

XML structure

```
<PBR>
  <PBRVlanInterfacesPolicy>
    <VlanInterfacesPolicy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <VlanInterfaceNumberList></VlanInterfaceNumberList>
    </VlanInterfacesPolicy>
  </PBRVlanInterfacesPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRVlanInterfacesPolicy
Table type	Multi-instance table
Row name	VlanInterfacesPolicy
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
VlanInterfaceNumberList	List of VLAN interface numbers.	N/A	Number string. It is a comma-separated list of VLAN interface number items. An item can be an individual VLAN interface number or a VLAN interface number range. Use a hyphen (-) to separate the start and end VLAN interface numbers of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<VlanInterfaceNumberList h3c:incremental="true">”. If the value is true, the VLAN interface number list will be added or removed. Otherwise, it is the final result.

PBR/PBRGlobalPolicy

This table contains global PBR information.

XML structure

```
<PBR>
  <PBRGlobalPolicy>
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
    <DualStackPolicyName></DualStackPolicyName>
  </PBRGlobalPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRGlobalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
Ipv6PolicyName	Name of the policy used by IPv6 global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
DualStackPolicyName	Name of the policy used by dual-stack global PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplyMirrorDestinationIp

This table contains PBR mirroring destination IP information.

XML structure

```
<PBR>
  <PBRApplyMirrorDestinationIp>
    <ApplyMirrorDestinationIp>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
      <DestIpAddress></DestIpAddress>
      <Priority></Priority>
      <SourceIpAddress></SourceIpAddress>
      <Dscp></Dscp>
      <EncapType></EncapType>
    </ApplyMirrorDestinationIp>
  </PBRApplyMirrorDestinationIp>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyMirrorDestinationIp
Table type	Multi-instance table
Row name	ApplyMirrorDestinationIp
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	IPv6 is not supported.
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The value of 0 specifies the public network.
DestIpAddress	IP address of the destination IP address.	Index	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
Priority	Priority of the next hop.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.
SourceIpAddress	IP address of the source IP address.	N/A	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	The default DSCP value is 63.
EncapType	Encapsulation type	N/A	Enumeration: • **0**—GRE. • **1**—VXLAN.	VXLAN is not supported.

PBR/PBRIfPolicyStatistics

This table contains interface PBR statistics information.

XML structure

```
<PBR>
  <PBRIfPolicyStatistics>
    <IfPolicyStatistics>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <IfName></IfName>
      <Matches></Matches>
      <Bytes></Bytes>
    </IfPolicyStatistics>
  </PBRIfPolicyStatistics>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRIfPolicyStatistics

Table type	Multi-instance table
Row name	IfPolicyStatistics
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.	N/A
Matches	Number of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.
Bytes	Number of bytes of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.

PBR/PBRLocalPolicyStatistics

This table contains local PBR statistics information.

XML structure

```
<PBR>
  <PBRLocalPolicyStatistics>
    <LocalPolicyStatistics>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Matches></Matches>
      <Bytes></Bytes>
    </LocalPolicyStatistics>
```

```
  </PBRLocalPolicyStatistics>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRLocalPolicyStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Matches	Number of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.
Bytes	Number of bytes of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.

PBR/PBREgressIfPolicyStatistics

This table contains egress interface PBR statistics information.

XML structure

```
<PBR>
  <PBREgressIfPolicyStatistics>
    <EgressIfPolicyStatistics>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
```

```
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <IfName></IfName>
      <Matches></Matches>
      <Bytes></Bytes>
    </EgressIfPolicyStatistics>
  </PBREgressIfPolicyStatistics>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBREgressIfPolicyStatistics
Table type	Multi-instance table
Row name	EgressIfPolicyStatistics
Restrictions	This table supports only VXLAN mode tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	IPv6 is not supported.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
IfName	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Matches	Number of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.
Bytes	Number of bytes of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.

PBR/PBRVlanInterfacesPolicyStatistics

This table contains VLAN interface PBR statistics information.

XML structure

```
<PBR>
  <PBRVlanInterfacesPolicyStatistics>
    <VlanInterfacesPolicyStatistics>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <VlanInterfaceNumber></VlanInterfaceNumber>
      <NodeID></NodeID>
      <Matches></Matches>
      <Bytes></Bytes>
    </VlanInterfacesPolicyStatistics>
  </PBRVlanInterfacesPolicyStatistics>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRVlanInterfacesPolicyStatistics
Table type	Multi-instance table
Row name	VlanInterfacesPolicyStatistics
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
VlanInterfaceNumber	VLAN interface number.	Index	Number of VLAN interface number items.	Example: 1,2,3
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Matches	Number of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.
Bytes	Number of bytes of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.

PBR/PBRGlobalPolicyStatistics

This table contains global PBR statistics information.

XML structure

```
<PBR>
  <PBRGlobalPolicyStatistics>
    <GlobalPolicyStatistics>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Matches></Matches>
      <Bytes></Bytes>
    </GlobalPolicyStatistics>
  </PBRGlobalPolicyStatistics>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRGlobalPolicyStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—Dual-stack.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Matches	Number of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.
Bytes	Number of bytes of successful matches on the node.	N/A	N/A	Unsigned integer. Value range: 0 to 2^{64} - 2.

PBR/PBRApplySRv6Policy

This table contains PBR SRv6 policy information.

XML structure

```
<PBR>
  <PBRApplySRv6Policy>
    <ApplySRv6Policy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Color></Color>
      <Endpoint></Endpoint>
      <Priority></Priority>
      <SID></SID>
      <VpnSID></VpnSID>
    </ApplySRv6Policy>
  </PBRApplySRv6Policy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRv6Policy
Table type	Multi-instance table
Row name	ApplySRv6Policy
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SRv6 policy mode	Index	Enumeration: • **0**—SRv6-policy • **1**—Default-SRv6-policy.	N/A
Color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295	N/A
Endpoint	IPv6 address of the policy endpoint	Index	Hexadecimal string, colon-separated.	N/A
Priority	Priority of the SRv6 policy	N/A	Unsigned integer. Value range: 1 to 65535.	The smaller the value, the higher the priority.
SID	Public network SID	N/A	Hexadecimal string, colon-separated.	This column and VpnSID cannot be specified together.
VpnSID	Private network SID	N/A	Hexadecimal string, colon-separated.	This column and SID cannot be specified together.

PBR/PBRApplySRPolicy

This table contains PBR SR policy information.

XML structure

```
<PBR>
  <PBRApplySRPolicy>
    <ApplySRPolicy>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Color></Color>
      <Endpoint></Endpoint>
      <Priority></Priority>
    </ApplySRPolicy>
  </PBRApplySRPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRPolicy
Table type	Multi-instance table
Row name	ApplySRPolicy
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	PBR Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	PBR Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SR policy	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	mode		• **0**—SR-policy • **1**—Default-SR-policy.	
Color	Color associated with the SR policy	Index	Unsigned integer. Value range: 0 to 4294967295	N/A
Endpoint	IPv4 address of the SR policy endpoint	Index	IPv4: String, dotted decimal notation.	N/A
Priority	Priority of the SR policy	N/A	Unsigned integer. Value range: 1 to 65535.	The smaller the value, the higher the priority.

PBR/PBRApplySRv6BE

This table contains PBR SRv6 BE information.

XML structure

```
<PBR>
  <PBRApplySRv6BE>
    <ApplySRv6BE>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <RemoteSID></RemoteSID>
      <LocatorPrefixLen></LocatorPrefixLen>
    </ApplySRv6BE>
  </PBRApplySRv6BE>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplySRv6BE
Table type	Multi-instance table
Row name	ApplySRv6BE
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	SRv6 BE mode	Index	Enumeration: • **0**—SRv6-BE • **1**—Default-SRv6-BE.	N/A
RemoteSID	Prefix of the IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
LocatorPrefixLen	Length of the IPv6 prefix.	Index	Unsigned integer. Value range: 32 to 120.	N/A

Contents

PBR 1
PBR/PBRPolicyNode 1
PBR/PBRIfPolicy 1
PBR/PBREgressIfPolicy 4
PBR/PBRLocalPolicy 5
PBR/PBRApplyAccessVPN 6
PBR/PBRApplyNexthop 6
PBR/PBRApplyOutInterface 7
PBR/PBRApplicationGroup 7
PBR/PBRObjectGroup 7
PBR/PBRMatchServiceChain 8
PBR/PBRApplyServiceChain 8
PBR/PBRApplyFailActionDrop 8
PBR/PBRGlobalPolicy 9
PBR/PBRApplyMirrorDestinationIp 9
PBR/PBRApplySRv6Policy 10
PBR/PBRApplySRPolicy 10
PBR/PBRApplySRv6BE 10

PBR

PBR/PBRPolicyNode

Message	Explanation
Maximum number of policies already reached. 可配策略个数超过上限。	Maximum number of policies already reached. 可配策略个数超过上限。
Maximum number of nodes in a policy already reached. 一个策略中可配最大节点个数超过上限。	Maximum number of nodes in a policy already reached. 一个策略中可配最大节点个数超过上限。
The policy doesn't exist. 该策略不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
The policy has been referenced, and can't be deleted. 此策略已经被引用，不能删除。	The policy has been referenced, and can't be deleted. 此策略已经被引用，不能删除。
Configuration items don't meet the requirements. 不符合配置要求。	Configuration items don't meet the requirements, please check the configuration of packet length or ACL is valid. 不符合配置要求，请检查配置的需要匹配的报文长度或者配置的AC是否合理。
The minimum packet length must be less than or equal to the maximum packet length. 配置的最短IP报文长度必须小于或等于最长IP报文长度。	The minimum packet length must be less than or equal to the maximum packet length. 配置的最短IP报文长度必须小于或等于最长IP报文长度。
IPv6 PBR doesn't support packet fragmentation. IPv6策略路由不支持报文分片。	IPv6 PBR doesn't support packet fragmentation. IPv6策略路由不支持报文分片。
The policy node doesn't exist. 该策略节点不存在。	The policy node doesn't exist. 该策略节点不存在。
Invalid ACL name. 非法的ACL名称。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRIfPolicy

Message	Explanation
The operation is not supported in chassis %s slot %u. 在框号%s板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in chassis %s slot %u. 在框号%s板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u.	The operation is not supported.

在板号%u的设备上不支持此操作。	此操作不支持。
Not enough resources to complete the operation in slot %u. 在板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation. 没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
Not enough resources to complete the operation in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in chassis %u slot %u cpu %s. 在框号%s板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in slot %u cpu %u. 在板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u cpu %u. 在板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
PBR is not ready in chassis %s slot %u. 在框号%s板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u. 在板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
Failed to apply the PBR policy to chassis %s slot %u. 在框号%s板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u. 在板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy.	Failed to apply the PBR policy.

应用策略路由失败。	应用策略路由失败。
The operation is not ready in chassis %s slot %u. 在框号%s板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u. 在板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready. 驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
Configuration items don't meet the requirements. 不符合配置要求。	During executing configuration operation(create、merge、replace、delete or remove) or get operation, policy name must be configured. The specified configuration must be empty, when deleting or removing. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，策略名称必须配置；删除时指定配置必须为空。
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
The maximum number of share-mode PBR policies has been reached. 资源共享模式策略路由配置到达上限。	Failed to apply the PBR policy in resource sharing mode. 应用资源共享模式策略路由失败。
Failed to apply the PBR policy in resource sharing mode because a QoS policy has been applied in resource sharing mode to the same direction of the interface. 由于接口相同方向上已经应用了QoS策略，应用资源共享模式策略路由失败。	Failed to apply the PBR policy in resource sharing mode. 应用资源共享模式策略路由失败。
Failed to apply the PBR policy in resource sharing mode because an ACL has been applied in resource sharing mode to the same direction of the interface. 由于接口相同方向上已经应用了ACL规则，应用资源共享模式策略路由失败。	Failed to apply the PBR policy in resource sharing mode. 应用资源共享模式策略路由失败。
A share-mode IPv4 PBR policy and a share-mode IPv6 PBR policy have been applied to the same interface. 同一接口上同时应用IPv4和IPv6的资源共享模式策略路由。	Failed to apply the PBR policy in resource sharing mode. 应用资源共享模式策略路由失败。

PBR/PBREgressIfPolicy

Message	Explanation
The operation is not supported in chassis %s slot %u. 在框号%s板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in chassis %s slot %u. 在框号%s板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u. 在板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in slot %u. 在板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation. 没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
Not enough resources to complete the operation in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in chassis %u slot %u cpu %s. 在框号%s板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in slot %u cpu %u. 在板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u cpu %u. 在板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
PBR is not ready in chassis %s slot %u. 在框号%s板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u. 在板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
Failed to apply the PBR policy to chassis %s	Failed to apply the PBR policy.

slot %u. 在框号%s板号%u的设备上应用策略路由失败。	应用策略路由失败。
Failed to apply the PBR policy to slot %u. 在板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy. 应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
The operation is not ready in chassis %s slot %u. 在框号%s板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u. 在板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready. 驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
Configuration items don't meet the requirements. 不符合配置要求。	During executing configuration operation(create、merge、replace、delete or remove) or get operation, policy name must be configured. The specified configuration must be empty, when deleting or removing. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，策略名必须配置；删除时指定配置必须为空。
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRLocalPolicy

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Failed to apply the PBR policy to chassis %s slot %u.	Failed to apply the PBR policy. 应用策略路由失败。

在框号%s板号%u的设备上应用策略路由失败。	
Failed to apply the PBR policy to slot %u. 在板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy. 应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRApplyAccessVPN

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Configuration items don't meet the requirements. 不符合配置要求。	Configuration items don't meet the requirements, public network of vpn can’t be configured, please modify configuration. 不符合配置要求，公网 VPN 不可配置，请修改配置
Maximum number of VRFs already reached. VRF个数超过上限。	Maximum number of VRFs already reached. VRF个数超过上限。
The VRF doesn't exist. 该VRF不存在。	The specified VRF is not existed. 该VRF不存在。

PBR/PBRApplyNexthop

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
The VRF doesn't exist. 该VRF不存在。	The VRF doesn't exist. 该VRF不存在。
Invalid IPv4 address. 非法的IPv4地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Maximum number of next hops already reached.	Maximum number of next hops already reached.

下一跳个数超过上限。	下一跳个数超过上限。
Maximum number of default next hops already reached. 缺省下一跳个数超过上限。	Maximum number of default next hops already reached. 缺省下一跳个数超过上限。
The next hop mode does not support specifying service chains. 该下一跳模式不支持指定服务链。	The next hop mode does not support specifying service chains. 该下一跳模式不支持指定服务链。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Cannot apply both a service chain and a next hop with service chain parameter for a node. 节点下不支持同时配置带有服务链和带有服务链下一跳。	Cannot apply both a service chain and a next hop with service chain parameter for a node. Please modify configuration under the guidance. 节点下不支持同时配置带有服务链和带有服务链下一跳，请在指导下修改配置

PBR/PBRApplyOutInterface

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Maximum number of output interfaces already reached. 出接口个数超过上限。	Maximum number of output interfaces already reached. 出接口个数超过上限。
Maximum number of default output interfaces already reached. 缺省出接口个数超过上限。	Maximum number of default output interfaces already reached. 缺省出接口个数超过上限。

PBR/PBRApplicationGroup

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Number of application groups exceeded the limit. 应用组个数超过上限。	Number of application groups exceeded the limit. 应用组个数超过上限。
Invalid application group name. 非法的应用组名称。	Invalid application group name. 非法的应用组名称。

PBR/PBRObjectGroup

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

Number of object groups exceeded the limit. 服务对象组个数超过上限。	Number of object groups exceeded the limit. 服务对象组个数超过上限。
The object group is not a service object group. 对象组不是服务对象组。	The object group is not a service object group. 对象组不是服务对象组。

PBR/PBRMatchServiceChain

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

PBR/PBRApplyServiceChain

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Cannot apply both a service chain and a next hop with service chain parameter for a node. 节点下不支持同时配置带有服务链和带有服务链下一跳。	Cannot apply both a service chain and a next hop with service chain parameter for a node. Please modify configuration under the guidance. 节点下不支持同时配置带有服务链和带有服务链下一跳，请在指导下修改配置

PBR/PBRApplyFailActionDrop

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

PBR/PBRGlobalPolicy

Message	Explanation
The policy doesn't exist. 该策略不存在。	The policy doesn't exist. Please create the policy first. 该策略不存在，请先创建。
Failed to apply the global PBR policy to slot %u. 在板号%u的设备上应用全局策略路由失败。	Failed to apply the global PBR policy. 应用全局策略路由失败。
Failed to apply the global PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用全局策略路由失败。	Failed to apply the global PBR policy. 应用全局策略路由失败。
Failed to apply the global PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用全局策略路由失败。	Failed to apply the global PBR policy. 应用全局策略路由失败。
Failed to apply the global PBR policy. 应用全局策略路由失败。	Failed to apply the global PBR policy. 应用策略路由失败。
Another global policy has been applied. Please remove the current global policy first. 已经应用了另一个全局策略，请先取消已经应用的策略。	Invalid configuration. Please modify the configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRApplyMirrorDestinationIp

Message	Explanation
The policy doesn't exist. 该策略不存在。	The policy doesn't exist. Please create the policy first. 该策略不存在，请先创建。
The VRF doesn't exist. 该VRF不存在。	The VRF doesn't exist. 该VRF不存在。
Invalid IPv4 address. 非法的IPv4地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Maximum number of mirroring destination IP addresses reached. 配置镜像报文目的地址数量超出上限	Maximum number of mirroring destination IP addresses reached. 配置镜像报文目的地址数量超出上限

PBR/PBRApplySRv6Policy

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Maximum number of SRv6 policies already reached. SRv6策略个数达到上限。	Maximum number of SRv6 policies already reached. SRv6策略个数达到上限。
Maximum number of default SRv6 policies already reached. 缺省SRv6策略个数达到上限。	Maximum number of default SRv6 policies already reached. 缺省SRv6策略个数达到上限。
You can specify only one public network or VPN SID for the end node of an SRv6-TE policy.. 单个SRv6-TE Policy 尾节点一次只能指定一个SID或私网SID。	You can specify only one public network or VPN SID for the end node of an SRv6-TE policy.. Please modify configuration under the guidance. 单个SRv6-TE Policy 尾节点一次只能指定一个SID或私网SID，请在指导下修改配置。

PBR/PBRApplySRPolicy

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist. Please create the policy first. 该策略不存在，请先创建。
Invalid IPv4address. 非法的IPv4地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Maximum number of SR policies already reached. SR策略个数达到上限。	The number of SR policies has reached the maximum. SR策略个数达到上限。
Maximum number of default SR policies already reached. 缺省SR策略个数达到上限。	The number of default SR policies has reached the maximum. 缺省SR策略个数达到上限。

PBR/PBRApplySRv6BE

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Maximum number of SRv6 BE already reached.	Maximum number of SRv6 BE already reached.

SRv6 BE个数达到上限。	SRv6 BE个数达到上限。
Maximum number of default SRv6 BE already reached. 缺省SRv6 BE个数达到上限。	Maximum number of default SRv6 BE already reached. 缺省SRv6 BE个数达到上限。
Duplicate SRv6-BE. SRv6 BE重复配置。	Duplicate configuration.Please modify configuration under the guidance. 重复配置，请在指导下修改配置。

Contents

PBR event stream 1
PBRNexthopUnreachable event 1
XML structure for event subscription 1
XML structure for event report 2
PBRHardwareNoResource event 3
XML structure for event subscription 3
XML structure for event report 3

PBR event stream

PBRNexthopUnreachable event

This event is used to report nexthop unreachable information.

XML structure for event subscription

```
<PBRNexthopUnreachableEvent>
  <PBRNexthopUnreachable>
    <AddressType></AddressType>
  </PBRNexthopUnreachable>
</PBRNexthopUnreachableEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PBR</stream>
    <filter type="subtree">
      <PBRNexthopUnreachableEvent xmlns="http://www.h3c.com/netconf/event:1.0/PBR:1.0">
        <PBRNexthopUnreachable>
          <AddressType>0</AddressType>
        </PBRNexthopUnreachable>
      </PBRNexthopUnreachableEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PBR
Event name	PBRNexthopUnreachableEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/PBR:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
AddressType	Address type.	Enumeration: • **0**—IPv4. • **1**—IPv6.	No

XML structure for event report

```
<PBRNexthopUnreachableEvent>
  <PBRNexthopUnreachable>
    <AddressType></AddressType>
    <PolicyName></PolicyName>
    <NodeID></NodeID>
    <VrfIndex></VrfIndex>
    <VrfName></VrfName>
    <IpAddress></IpAddress>
  </PBRNexthopUnreachable>
</PBRNexthopUnreachableEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <PBRNexthopUnreachableEvent xmlns="http://www.h3c.com/netconf/event:1.0/PBR:1.0">
    <PBRNexthopUnreachable>
      <AddressType>0</AddressType>
      <PolicyName>aaa</PolicyName>
      <NodeID>0</NodeID>
      <VrfIndex>0</VrfIndex>
       <VrfName>vpna</VrfName>
      <IpAddress>1.1.1.1</IpAddress>
    </PBRNexthopUnreachable>
  </PBRNexthopUnreachableEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
AddressType	Address type	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number	Unsigned integer. Value range: 0 to 65535.	N/A
VrfIndex	Index of the VPN instance	Unsigned integer.	0 means public network.
VrfName	The name of Vpn Instance.	String. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the next hop	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.

PBRHardwareNoResource event

This event is used to report insufficient acl resource information for interface.

XML structure for event subscription

```
<PBRHardwareNoResourceEvent>
  <PBRHardwareNoResource>
    <AddressType></AddressType>
  </PBRHardwareNoResource>
</PBRHardwareNoResourceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PBR</stream>
    <filter type="subtree">
      <PBRHardwareNoResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/PBR:1.0">
        <PBRHardwareNoResource>
          <AddressType>0</AddressType>
        </PBRHardwareNoResource>
      </PBRHardwareNoResourceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PBR
Event name	PBRHardwareNoResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/PBR:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
AddressType	Address type.	Enumeration: • **0**—IPv4. • **1**—IPv6.	No

XML structure for event report

```
<PBRHardwareNoResourceEvent>
  <PBRHardwareNoResource>
    <EventType></EventType>
```

```
<AddressType></AddressType>
<PolicyName></PolicyName>
<NodeID></NodeID>
<Chassis></Chassis>
<Slot></Slot>
<HardwareNoResourceOld>
  <VlanInterfaceNumberList></VlanInterfaceNumberList>
  <IfIndex></IfIndex>
  <IfName></IfName>
  <ACLName></ACLName>
  <ACLNumber></ACLNumber>
  <QoSLocalID></QoSLocalID>
  <QoSLocalIDMode></QoSLocalIDMode>
  <PathID></PathID>
  <PathIndex></PathIndex>
  <LoadShareType></LoadShareType>
  <NexthopIpAddress></NexthopIpAddress>
  <VrfIndex></VrfIndex>
  <VrfName></VrfName>
  <TrackID></TrackID>
  <NexthopDirect></NexthopDirect>
  <DestIpAddress></DestIpAddress>
  <SourceIpAddress></SourceIpAddress>
  <Dscp></Dscp>
  <EncapType></EncapType>
  <ACLRuleID></ACLRuleID>
</HardwareNoResourceOld>
<HardwareNoResourceNew>
  <VlanInterfaceNumberList></VlanInterfaceNumberList>
  <IfIndex></IfIndex>
  <IfName></IfName>
  <ACLName></ACLName>
  <ACLNumber></ACLNumber>
  <QoSLocalID></QoSLocalID>
  <QoSLocalIDMode></QoSLocalIDMode>
  <PathID></PathID>
  <PathIndex></PathIndex>
  <LoadShareType></LoadShareType>
  <NexthopIpAddress></NexthopIpAddress>
  <VrfIndex></VrfIndex>
  <VrfName></VrfName>
  <Weight></Weight>
  <Priority></Priority>
  <TrackID></TrackID>
  <NexthopDirect></NexthopDirect>
  <DestIpAddress></DestIpAddress>
  <SourceIpAddress></SourceIpAddress>
  <Dscp></Dscp>
```

```
      <EncapType></EncapType>
      <ACLRuleID></ACLRuleID>
    </HardwareNoResourceNew>
  </PBRHardwareNoResource>
</PBRHardwareNoResourceEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <PBRHardwareNoResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/PBR:1.0">
    <PBRHardwareNoResource>
      <EventType>0</EventType>
      <AddressType>0</AddressType>
      <PolicyName>aaa</PolicyName>
      <Chassis>1</Chassis>
      <Slot>2</Slot>
      <HardwareNoResourceNew>
        <IfIndex>2</IfIndex>
      </HardwareNoResourceNew>
    </PBRHardwareNoResource>
  </PBRHardwareNoResourceEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration: • **0**—PBR_XMLEVTMSG_NORES_NORMAL • **1**—PBR_XMLEVTMSG_NORES_SHAREMODE • **2**—PBR_XMLEVTMSG_NORES_EGRESS • **3**—PBR_XMLEVTMSG_NORES_VLANRANGE • **4**—PBR_XMLEVTMSG_NORES_GLOBAL • **5**—PBR_XMLEVTMSG_NORES_NODE • **6**—PBR_XMLEVTMSG_NORES_MATCHACL • **7**—PBR_XMLEVTMSG_NORES_MATCHLOCALID • **8**—PBR_XMLEVTMSG_NORES_MATCHSERVICECHAIN • **9**—PBR_XMLEVTMSG_NORES_MATCHVXLANID • **10**—PBR_XMLEVTMSG_NORES_APPLYACCESSVPN • **11**—PBR_XMLEVTMSG_NORES_APPLYDEFAULTOUTIF • **12**—PBR_XMLEVTMSG_NORES_APPLYFAILDROP • **13**—PBR_XMLEVTMSG_NORES_APPLYDF	N/A

Column name	Column description	Data type and restrictions	Remarks
		• **14**—PBR_XMLEVTMSG_NORES_APPLYLOADSHARE • **15**—PBR_XMLEVTMSG_NORES_APPLYOUTIF • **16**—PBR_XMLEVTMSG_NORES_APPLYPRECEDENCE • **17**—PBR_XMLEVTMSG_NORES_APPLYSERVICECHAIN • **18**—PBR_XMLEVTMSG_NORES_APPLYSTATISTIC • **19**—PBR_XMLEVTMSG_NORES_APPLYNEXTHOP • **20**—PBR_XMLEVTMSG_NORES_APPLYDEFAULTNEXTHOP • **21**—PBR_XMLEVTMSG_NORES_APPLYMIRRORNEXTHOP • **22**—PBR_XMLEVTMSG_NORES_APPLYMIRRORDESTIP • **23**—PBR_XMLEVTMSG_NORES_ACLEVENTRULE • **24**—PBR_XMLEVTMSG_NORES_VXLANMODE	
AddressType	Address type	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
PolicyName	Policy name	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number	Unsigned integer. Value range: 0 to 65535.	N/A
Chassis	Member ID of the member device where the entity	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
HardwareNoResourceOld	The old infomation of no enough hardware resource	Members include: • VlanInterfaceNumberList • IfIndex • IfName • ACLName • ACLNumber • QoSLocalID • QoSLocalIDMode • PathID • PathIndex • LoadShareType	

Column name	Column description	Data type and restrictions	Remarks
		• NexthopIpAddress • VrfIndex • VrfName • TrackID • NexthopDirect • DestIpAddress • SourceIpAddress • Dscp • EncapType • ACLRuleNum	
VlanInterfaceNumberList	List of VLAN interface numbers.	Number string. It is a comma-separated list of VLAN interface number items. An item can be an individual VLAN interface number or a VLAN interface number range. Use a hyphen (-) to separate the start and end VLAN interface numbers of a range.	Example: 1,2,3,5-8,10-20.
IfIndex	Interface index.	Unsigned integer.	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters.	Example: GigabitEthernet 2/0/2
ACLName	ACL name.	String, case insensitive. Length: 1 to 63 characters.	N/A
ACLNumber	ACL number	Unsigned integer. Value range: 2000 to 3999.	N/A
QoSLocalID	QoSLocalID	Unsigned integer. Value range: 1 to 4095 .	N/A
QoSLocalIDMode	Specify QPPB mode	Enumeration: • **0**—Normal (default). • **1**—QPPB	N/A
PathID	Service-Chain Path-ID	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	Unsigned integer. Value range: 1 to 255.	N/A
LoadShareType	Setsharing mode device node	Enumeration: • **1**—next hops. • **2**—output interfaces. • **4**—default next hops. • **8**—default output interfaces.	Support common settings. Example: 3 meams next hops and default next hops.
NexthopIpAddress	IP address of the next hop	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on

Column name	Column description	Data type and restrictions	Remarks
			AddressType.
VrfIndex	Index of the VPN instance.	Unsigned integer.	0 means public network.
VrfName	The name of Vpn Instance.	String. Length: 1 to 31 characters.	N/A
TrackID	Track entry number	Unsigned integer. Value range: 1 to 1024.	N/A
NexthopDirect	Specifies whether the next hop must be directly connected.	Boolean: • **True** • **false** (default).	N/A
DestIpAddress	IP address of the destination IP address.	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
SourceIpAddress	IP address of the source IP address.	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
Dscp	DSCP value	Unsigned integer. Value range: 0 to 63.	The default DSCP value is 63.
EncapType	Encapsulation type	Enumeration: • **0**—GRE. • **1**—VXLAN.	VXLAN is not supported.
ACLRuleID	ACL rule ID	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	N/A
HardwareNoResourceNew	The new infomation of no enough hardware resource	Members include: • VlanInterfaceNumberList • IfIndex • ACLName • ACLNumber • QoSLocalID • QoSLocalIDMode • PathID • PathIndex • LoadShareType • NexthopIpAddress • VrfIndex • VrfName	N/A

Column name	Column description	Data type and restrictions	Remarks
		• TrackID • NexthopDirect • DestIpAddress • SourceIpAddress • Dscp • EncapType • ACLRuleNum	
VlanInterfaceNumberList	List of VLAN interface numbers.	Number string. It is a comma-separated list of VLAN interface number items. An item can be an individual VLAN interface number or a VLAN interface number range. Use a hyphen (-) to separate the start and end VLAN interface numbers of a range.	Example: 1,2,3,5-8,10-20.
IfIndex	Interface index.	Unsigned integer.	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters.	Example: GigabitEthernet 2/0/2
ACLName	ACL name.	String, case insensitive. Length: 1 to 63 characters.	N/A
ACLNumber	ACL number	Unsigned integer. Value range: 2000 to 3999.	N/A
QoSLocalID	QoSLocalID	Unsigned integer. Value range: 1 to 4095 .	N/A
QoSLocalIDMode	Specify QPPB mode	Enumeration: • **0**—Normal (default). • **1**—QPPB	N/A
PathID	Service-Chain Path-ID	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	Unsigned integer. Value range: 1 to 255.	N/A
LoadShareType	Setsharing mode device node	Enumeration: • **1**—next hops. • **2**—output interfaces. • **4**—default next hops. • **8**—default output interfaces.	Support common settings. Example: 3 meams next hops and default next hops.
NexthopIpAddress	IP address of the next hop	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.
VrfIndex	Index of the VPN	Unsigned integer.	0 means public network.

Column name	Column description	Data type and restrictions	Remarks
	instance.		
VrfName	The name of Vpn Instance.	String. Length: 1 to 31 characters.	N/A
TrackID	Track entry number	Unsigned integer. Value range: 1 to 1024.	N/A
NexthopDirect	Specifies whether the next hop must be directly connected.	Boolean: • **True** • **false** (default).	N/A
DestIpAddress	IP address of the destination IP address.	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
SourceIpAddress	IP address of the source IP address.	String, dotted decimal notation or colon hexadecimal notation.	Specify an IPv4 address or IPv6 address depending on AddressType.
Dscp	DSCP value	Unsigned integer. Value range: 0 to 63.	The default DSCP value is 63.
EncapType	Encapsulation type	Enumeration: • **0**—GRE. • **1**—VXLAN.	VXLAN is not supported.
ACLRuleID	ACL rule ID	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	N/A

Contents

PCAPWARE 1
PCAPWARE/StartCapture 1
XML structure 1
Table description 1
Columns 1
PCAPWARE/StopCapture 2
XML structure 2
Table description 2
Columns 2
PCAPWARE/DelCapFiles 2
XML structure 2
Table description 3
Columns 3
PCAPWARE/DelAllCapFile 3
XML structure 3
Table description 3
Columns 3

PCAPWARE

PCAPWARE/StartCapture

This table contains information about starting the packet capture.

XML structure

```
<PCAPWARE>
  <StartCapture>
    <ACL>
      <ACLType></ACLType>
      <ACLNumber></ACLNumber>
    </ACL>
    <Interface></Interface>
  </StartCapture>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	StartCapture
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ACL	Capture packets that match the specified ACL.	Data structure	Members include: • ACLType. • ACLNumber.
ACLType	ACL type.	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.
ACLNumber	ACL number.	N/A	Unsigned integer.
Interface	Capture packets on the specified interface.	N/A	String. Length: 2 to 47 characters.

PCAPWARE/StopCapture

This table contains information about stopping the packet capture.

XML structure

```
<PCAPWARE>
  <StopCapture>
    <Stop><Stop/>
  </StopCapture>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	StopCapture
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stop	Stop the capture	N/A	Enumeration: • **0**—Stops the packet capture normally. • **1**—Stops the packet capture immediately.	If this column is empty, packet capture is stopped normally.

PCAPWARE/DelCapFiles

This table contains information about deleting specific .cap files.

XML structure

```
<PCAPWARE>
  <DelCapFiles>
    <DelCapFile>
      <FileName></FileName>
    </DelCapFile>
  </DelCapFiles>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	DelCapFiles
Table type	Multi-instance table
Row name	DelCapFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Name of the .cap file to be deleted.	Index	String. Length: 1 to 253 characters.

PCAPWARE/DelAllCapFile

This table contains information about deleting all .cap files.

XML structure

```
<PCAPWARE>
  <DelAllCapFile>
    <Delete/>
  </DelAllCapFile>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	DelAllCapFile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Delete	Delete all .cap	N/A	This column must be empty.

Column name	Column description	Column type	Data type and restrictions
	files.		

Contents

PCAPWARE 1
PCAPWARE /GlobalConf 1
XML structure 1
Table description 1
Columns 1

PCAPWARE

PCAPWARE /GlobalConf

This table contains pcapware global configuration information.

XML structure

```
<PCAPWARE>
  <GlobalConf>
    <MaxBytes></MaxBytes>
    <MaxPktsPerFile></MaxPktsPerFile>
    <Storage>
      <Type></Type>
      <LocalSpaceLimit></LocalSpaceLimit>
      <Path></Path>
      <Username></Username>
      <Password></Password>
      <PassType></PassType>
    </Storage>
  </GlobalConf>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBytes	Maximum number of bytes per packet.	N/A	Unsigned integer. Value range: 512 to 4096. Default: 512.	N/A
MaxPktsPerFile	Maximum number of packets per file.	N/A	Unsigned integer. Value range: 100 to 1000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 100.	
Storage	Storage information of the .cap file.	Data structure	Members include: • Type. • Path. • User. • Password. • LocalPacketLimit.	N/A
Type	Storage type of the .cap file.	N/A	Enumeration: • **1**—Local(Default). • **2**—Remote.	N/A
LocalSpaceLimit	Maximum space available for local packets, in KB.	N/A	Unsigned integer. Value range: 1024 to 10240. Default: 4096.	This column is empty if storage type is remote.
Path	Storage path of the .cap file.	N/A	String. Length: 1 to 253 characters.	This column is empty if storage type is local.
Username	Authentication username.	N/A	String. Length: 1 to 255 characters.	This column is empty if no authentication is required.
Password	Authentication password.	N/A	String. Length: 1 to 373 characters.	This column is empty if no authentication is required.
PassType	The type of authentication password.	N/A	Enumeration: • **1**—Simple. • **2**—Cipher.	

Contents

PCAPWARE 1
PCAPWARE/GlobalConf 1
XML structure 1
Table description 1
Columns 1
PCAPWARE/UploadFiles 2
XML structure 2
Table description 2
Columns 3
PCAPWARE/LocalFiles 3
XML structure 3
Table description 3
Columns 3
PCAPWARE/CaptureState 4
XML structure 4
Table description 4
Columns 4
PCAPWARE/CaptureProgress 4
XML structure 5
Table description 5
Columns 5
PCAPWARE/LocalFileCount 5
XML structure 5
Table description 5
Columns 6

PCAPWARE

PCAPWARE/GlobalConf

This table contains pcapware global information.

XML structure

```
<PCAPWARE>
  <GlobalConf>
    <MaxBytes></MaxBytes>
    <MaxPktsPerFile></MaxPktsPerFile>
    <Storage>
      <Type></Type>
      <LocalSpaceLimit></LocalSpaceLimit>
      <Path></Path>
      <Username></Username>
      <Password></Password>
      <PassType></PassType>
    </Storage>
  </GlobalConf>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBytes	Maximum number of bytes per packet.	N/A	Unsigned integer. Value range: 512 to 4096.	N/A
MaxPktsPerFile	Maximum number of packets per file.	N/A	Unsigned integer. Value range: 100 to 1000.	N/A
Storage	Storage information of the .cap file.	Data structure	Members include: • Type.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Path. • User. • Password. • LocalPacketLimit.	
Type	Storage type of the .cap file.	N/A	Enumeration: • **1**—Local. • **2**—Remote.	N/A
LocalSpaceLimit	Maximum space available for local packets, in KB.	N/A	Unsigned integer. Value range: 1024 to 10240.	This column is empty if storage type is remote.
Path	Storage path of the .cap file.	N/A	String. Length: 1 to 253 characters.	This column is empty if storage type is local.
Username	Authentication username.	N/A	String. Length: 1 to 255 characters.	This column is empty if no authentication is required.
Password	Authentication password.	N/A	String. Length: 1 to 373 characters.	This column is empty if no authentication is required.
PassType	The type of authentication password.	N/A	Enumeration: • **1**—Simple. • **2**—Cipher.	

PCAPWARE/UploadFiles

This table contains information about uploaded .cap files.

XML structure

```
<PCAPWARE>
  <UploadFiles>
    <UploadFile>
      <Sequence></Sequence>
      <UploadState></UploadState>
      <FileName></FileName>
    </UploadFile>
  </UploadFiles>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	UploadFiles
Table type	Multi-instance table
Row name	UploadFile

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Sequence	Sequence number of the .cap file.	Index	Unsigned integer.
UploadState	Whether the .cap file has been saved successfully.	N/A	Enumeration: • **1**—Succeeded. • **2**—Failed.
FileName	Name of the .cap file.	N/A	String. Length: 1 to 253 characters.

PCAPWARE/LocalFiles

This table contains information about local .cap files.

XML structure

```
<PCAPWARE>
  <LocalFiles>
    <LocalFile>
      <FileName></FileName>
      <FileSize></FileSize>
    </LocalFile>
  </LocalFiles>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	LocalFiles
Table type	Multi-instance table
Row name	LocalFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Name of the .cap	Index	String.

Column name	Column description	Column type	Data type and restrictions
	file.		Length: 1 to 253 characters.
FileSize	Size of the .cap file, in bytes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.

PCAPWARE/CaptureState

This table contains packet capture status information.

XML structure

```
<PCAPWARE>
  <CaptureState>
    <State></State>
    <StateDetail></StateDetail>
  </CaptureState>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	CaptureState
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Packet capture status.	N/A	Boolean: • **true**—Started. • **false**—Stopped.
StateDetail	Detailed packet capture status.	N/A	Enumeration: • **0**—Stopped. • **1**—Started. • **2**—Saving captured packets.

PCAPWARE/CaptureProgress

This table contains information about the packet capture progress.

XML structure

```
<PCAPWARE>
  <CaptureProgress>
    <Percent></Percent>
  </CaptureProgress>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	CaptureProgress
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Percent	Percent of captured packets that have been saved.	N/A	Unsigned integer.

PCAPWARE/LocalFileCount

This table contains the number of local .cap files.

XML structure

```
<PCAPWARE>
  <LocalFileCount>
    <Count></Count>
  </LocalFileCount>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	LocalFileCount
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Count	Number of local .cap files	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.

Contents

PCAPWARE 1
PCAPWARE/StartCapture 1
PCAPWARE/StopCapture 1
PCAPWARE/GlobalConf 1

PCAPWARE

PCAPWARE/StartCapture

Message	Explanation
Failed to start packet capture. Reason: Packet capture is not supported on a shared interface. 不支持共享口，开启报文捕获失败。	A user tried to start packet capture on a shared interface. Packet capture is not supported on a shared interface. 尝试在共享口进行报文捕获导致报文捕获失败，目前报文捕获不支持共享口抓包。
Saving captured packets to file… Please wait for a while or stop the ongoing packet capture process by force. 正在读取缓存报文，如果想继续操作请执行强制停止。	The system was writing the captured packets in memory to a file. You can wait for a while or stop the ongoing packet capture process by force to start packet capture again immediately. 缓存中还有报文没有读出，如果想继续操作请执行强制停止报文捕获。
Failed to start packet capture. Reason: Not enough memory. 内存达到一级告警门限，开启报文捕获失败。	Not enough memory. Please release enough memory space. 内存达到一级告警门限，请预留足够的内存。
Failed to start packet capture. Reason: The specified file server is unreachable. 外部存储服务器不可达，开启报文捕获失败。	The specified file server is unreachable. Verify that the file server IP address is correctly configured on the device and the file server is reachable. 外部存储服务器不可达，请检查外部服务器地址配置是否正确，路由是否可达。
A two-way packet capture process is already started. To start another packet capture process, stop the existing process first. 报文捕获已经开始，若要重新开始抓包，请先停止当前报文捕获。	A two-way packet capture process is already started. To start another packet capture process, stop the existing process first. 报文捕获已经开始，又尝试开始捕获报文，如果想重新开始抓包，请先停止当前报文捕获。

PCAPWARE/StopCapture

Message	Explanation
Packet capture already stopped. 报文捕获已经停止。	The capture is already stopped. 报文捕获已经停止，又尝试停止报文捕获。
Saving captured packets to file… Please wait for a while or stop the ongoing packet capture process by force. 正在读取缓存报文，如果想继续操作请执行强制停止。	The system was writing the captured packets in memory to a file. You can wait for a while or stop the ongoing packet capture process by force. 缓存中还有报文没有读出，如果想继续操作请执行强制停止报文捕获。

PCAPWARE/GlobalConf

Message	Explanation
A two-way packet capture process is already started. To change relevant settings, stop the	It is not permit to change relevant settings when a two-way packet capture process is already started. To change relevant settings,

process first. 报文捕获已经开始，若要修改相关配置，请先停止当前报文捕获。	stop the process first. 报文捕获开始时不允许修改配置，若要修改相关配置，请先停止当前报文捕获。

Contents

PCE 1
PCE/Base 1
XML structure 1
Table description 1
Columns 1
PCE/Base/PceStaticAddresses 3
XML structure 3
Table description 3
Columns 3
PCE/Base/PcePeers 3
XML structure 3
Table description 4
Columns 5

PCE

PCE/Base

This table contains global PCE information.

XML structure

```
<PCE>
  <Base>
    <PceType></PceType>
    <PceCapabilitySR></PceCapabilitySR>
    <PceCapabilityIpv6></PceCapabilityIpv6>
    <PceReDelegationTimeout></PceReDelegationTimeout>
    <PceStateTimeout></PceStateTimeout>
    <PceStaticAddresses></PceStaticAddresses>
    <PceRetainLSPState></PceRetainLSPState>
    <PceRetainInitiatedLSP></PceRetainInitiatedLSP>
    <PceMultiDelegate></PceMultiDelegate>
    <DeadTime></DeadTime>
    <KeepAlive></KeepAlive>
    <ToleranceMinKeepAlive></ToleranceMinKeepAlive>
    <ToleranceMaxUnknown></ToleranceMaxUnknown>
  </Base>
</PCE>
```

Table description

Item	Description
Feature name	PCE
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PceType	PCE type.	N/A	Enumeration: • 0—Stateless (default). • 1—Active stateful. • 2—Passive stateful.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PceCapabilitySR	SR capability of the PCEP session	N/A	Boolean: • true. • false (default).	N/A
PceCapabilityIpv6	IPv6 capability of the PCEP session	N/A	Boolean: • true. • false (default).	N/A
PceReDelegationTimeout	Redelegation timeout interval	N/A	Unsigned integer. The range is 0 to 600 seconds. The default value is 30 seconds.	N/A
PceStateTimeout	LSP state timeout interval	N/A	Unsigned integer. The range is 0 to 600 seconds. The default value is 60 seconds.	N/A
PceStaticAddresses	Static PCE peer address	Sublist	N/A	N/A
PceRetainLSPState	PCC retains LSPs' Updated parameters from PCE	N/A	Boolean: • true. • false (default).	N/A
PceRetainInitiatedLSP	PCC retains Initiated-LSPs created by PCE.	N/A	Boolean: • true. • false (default).	N/A
PceMultiDelegate	Delegate to each available PCE	N/A	Boolean: • true. • false (default).	N/A
DeadTime	Dead timer for PCEP sessions	N/A	Unsigned integer. The value range is 0 to 255 seconds. The default value is 120 seconds. Value 0 means to disable the function.	N/A
KeepAlive	Interval for sending keepalive packets to PCEP peers	N/A	Unsigned integer. The value range is 0 to 255 seconds. The default value is 30 seconds. Value 0 means that the device will not send keepalive packets.	N/A
ToleranceMinKeepAlive	Minimum interval for receiving keepalive packets	N/A	Unsigned integer. The value range is 0 to 255 seconds. The default value is 10 seconds. Value 0 means not to limit the keepalive receiving interval.	N/A
ToleranceMaxUnknown	Maximum number of unknown	N/A	Unsigned integer. The value range is 0 to 16384.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	messages that can be received per minute.		The default value is 5. Value 0 means not to limit the receiving rate of unknown messages.	

PCE/Base/PceStaticAddresses

This table contains information about static address settings for PCE peers. The table is a sublist of PCE base.

XML structure

```
<PceStaticAddresses>
  <PceStaticAddress>
    <Address></Address>
  </PceStaticAddress>
</PceStaticAddresses>
```

Table description

Item	Description
Feature name	PCE
Table name	PceStaticAddresses
Table type	Multi-instance table
Row name	PceStaticAddress
Restrictions	Maximum support 10 rows

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the static PCE peer	index	String, dotted decimal notation.	N/A

PCE/Base/PcePeers

This table contains configurations for PCE peers. The table is a sublist of PCE base.

XML structure

```
<PcePeers>
  <PcePeer>
```

```
    <PceAddress></PceAddress>
    <AuthenticationType></AuthenticationType>
    <Keychain></Keychain>
    <MD5PlainPassword></MD5PlainPassword>
    <MD5CipherPassword></MD5CipherPassword>
    <DelegationPriority></DelegationPriority>
    <SourceIfIndex></SourceIfIndex>
    <SourceAddress></SourceAddress>
  </PcePeer>
</PcePeers>
```

Table description

Item	Description
Feature name	PCE
Table name	PcePeers
Table type	Multi-instance table
Row name	PcePeer
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PceAddress	Address of the PCE peer	Index	String, dotted decimal notation.	N/A
AuthenticationType	Authentication type configured	N/A	Enumeration. • 0—None. • 1—MD5, Plaintext • 2—MD5, Ciphertext • 3—Keychain	N/A
Keychain	Configure keychain authentication when a BGP peer or peer group establishes a TCP connection	N/A	String. Length: 1 to 63 characters.	N/A
MD5PlainPassword	Plaintext password string	N/A	String Length:1 to 32 characters	N/A
MD5CipherPassword	Ciphertext password string	N/A	String Length:1 to 73 characters	N/A
Delegation Priority	PCEP peer's priority of stateful delegation	N/A	Unsigned integer. The range is 1 to 65535. The default value is 65535. Lower value means higher priority.	N/A
SourceIfIndex	Index of the interface of which the IP address is used by PCEP as the source address.	N/A	Unsigned integer.	This setting takes effect when the device acts as a PCC. **Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference**
SourceAddress	IP address used by PCEP as the source address.	N/A	String, dotted decimal notation.	This setting takes effect when the device acts as a PCC.

Contents

PCE 1
PCE/Base 1
XML structure 1
Table description 1
Columns 1
PCE/Base/PceStaticAddresses 3
XML structure 3
Table description 3
Columns 3
PCE/Base/PcePeers 3
XML structure 3
Table description 4
Columns 5

PCE

PCE/Base

This table contains global PCE information.

XML structure

```
<PCE>
  <Base>
    <PceType></PceType>
    <PceCapabilitySR></PceCapabilitySR>
    <PceCapabilityIpv6></PceCapabilityIpv6>
    <PceReDelegationTimeout></PceReDelegationTimeout>
    <PceStateTimeout></PceStateTimeout>
    <PceStaticAddresses></PceStaticAddresses>
    <PceRetainLSPState></PceRetainLSPState>
    <PceRetainInitiatedLSP></PceRetainInitiatedLSP>
    <PceMultiDelegate></PceMultiDelegate>
    <DeadTime></DeadTime>
    <KeepAlive></KeepAlive>
    <ToleranceMinKeepAlive></ToleranceMinKeepAlive>
    <ToleranceMaxUnknown></ToleranceMaxUnknown>
  </Base>
</PCE>
```

Table description

Item	Description
Feature name	PCE
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PceType	PCE type.	N/A	Enumeration: • 0—Stateless. • 1—Active stateful. • 2—Passive stateful.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PceCapabilitySR	SR capability of the PCEP session	N/A	Boolean: • true. • false.	N/A
PceCapabilityIpv6	IPv6 capability of the PCEP session	N/A	Boolean: • **true.** • **False.**	N/A
PceReDelegationTimeout	Redelegation timeout interval	N/A	Unsigned integer. The range is 0 to 600 seconds.	N/A
PceStateTimeout	LSP state timeout interval	N/A	Unsigned integer. The range is 0 to 600 seconds.	N/A
PceStaticAddresses	Static PCE peer address	Sublist	N/A	N/A
PceRetainLSPState	PCC retains LSPs' Updated parameters from PCE	N/A	Boolean: • **true.** • **false.**	N/A
PceRetainInitiatedLSP	PCC retains Initiated-LSPs created by PCE	N/A	Boolean: • **true.** • **false.**	N/A
PceMultiDelegate	Delegate to each available PCE	N/A	Boolean: • **true.** • **false.**	N/A
DeadTime	Dead timer for PCEP sessions	N/A	Unsigned integer. The range is 0 to 255 seconds. The default value is 120 seconds. Value 0 means to disable the function.	N/A
KeepAlive	Interval for sending keepalive packets to PCEP peers	N/A	Unsigned integer. The range is 0 to 255 seconds. The default value is 30 seconds. Value 0 means that the device will not send keepalive packets.	N/A
ToleranceMinKeepAlive	Minimum interval for receiving keepalive packets	N/A	unsigned integer. The range is 0 to 255 seconds. The default value is 10 seconds. Value 0 means not to limit the keepalive receiving interval.	N/A
ToleranceMaxUnknown	Maximum number of unknown messages that can be received per minute.	N/A	Unsigned integer. The range is 0 to 16384. The default value is 5. Value 0 means not to limit the receiving rate of unknown messages.	N/A

PCE/Base/PceStaticAddresses

This table contains information about static address settings for PCE peers. The table is a sublist of PCE base.

XML structure

```
<PceStaticAddresses>
  <PceStaticAddress>
    <Address></Address>
  </PceStaticAddress>
</PceStaticAddresses>
```

Table description

Item	Description
Feature name	PCE
Table name	PceStaticAddresses
Table type	Multi-instance table
Row name	PceStaticAddress
Restrictions	Maximum support 10 rows

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the static PCE peer	index	String, dotted decimal notation.	N/A

PCE/Base/PcePeers

This table contains configurations about PCE peers. The table is a sublist of PCE base.

XML structure

```
<PcePeers>
  <PcePeer>
    <PceAddress></PceAddress>
    <AuthenticationType></AuthenticationType>
    <Keychain></Keychain>
    <MD5PlainPassword></MD5PlainPassword>
    <MD5CipherPassword></MD5CipherPassword>
    <DelegationPriority></DelegationPriority>
    <SourceIfIndex></SourceIfIndex>
    <SourceIfName></SourceIfName>
```

```
    <SourceAddress></SourceAddress>
  </PcePeer>
</PcePeers>
```

Table description

Item	Description
Feature name	PCE
Table name	PcePeers
Table type	Multi-instance table
Row name	PcePeer
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PceAddress	Address of the PCE peer	Index	String, dotted decimal notation.	N/A
AuthenticationType	Authentication type configured	N/A	Enumeration. • 0—None. • 1—MD5, Plaintext • 2—MD5, Ciphertext • 3—Keychain	N/A
Keychain	Configure keychain authentication when a PCE peer establishes a TCP connection	N/A	String. Length: 1 to 63 characters.	N/A
MD5PlainPassword	Plaintext password string	N/A	String Length:1 to 32 characters	N/A
MD5CipherPassword	Ciphertext password string	N/A	String Length:1 to 73 characters	N/A
Delegation Priority	**PCEP peer's prioriy of stateful delegation**	N/A	Unsigned integer. The range is 1 to 65535. The default value is 65535. Lower value means higher priority.	N/A
SourceIfIndex	Index of the interface of which the IP address is used by PCEP as the source address.	N/A	Unsigned integer.	This setting takes effect when the device acts as a PCC. **Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference**
SourceIfName	Name of the interface which the ip-address used by PCEP as source address belongs to.	N/A	String	Taking effect when device acts as a PCC only.
SourceAdd	IP address used	N/A	String, dotted decimal notation.	This setting takes effect

Column name	Column description	Column type	Data type and restrictions	Remarks
ress	by PCEP as the source address.			when the device acts as a PCC.

Contents

PEX 1
PEX/PEXPorts 1
XML structure 1
Table description 1
Columns 1

PEX

PEX/PEXPorts

This table contains configuration of PEX ports.

Also available in stand-alone mode.

XML structure

```
<PEX>
  <PEXPorts>
    <PEXPort>
      <Port></Port>
      <Description></Description>
      <Interface>
        <IfName></IfName>
      </Interface>
      <Associate></Associate>
    </PEXPort>
  </PEXPorts>
</PEX>
```

Table description

Item	Description
Feature name	PEX
Table name	PEXPorts
Table type	Multi-instance table
Row name	PEXPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	PEX port number.	Index	Unsigned integer. Value range: MinPEXPortID to MaxPEXPortID	MinPEXPortID and MaxPEXPortID specification: Please reference to Comware V7 PEX NETCONF XML API Data Reference

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	PEX port description.	N/A	String. Length: 1 to 79.	Optional
Interface	Physical port of an PEX port.	Data structure	Members: • IfName	Mult-instance
IfName	Interface name.	N/A	String. Length: 2 to 47 characters.	Physical port of an PEX port
Associate	Associated chassis ID or slot ID of the PEX port.	N/A	Unsigned integer. Value range: MinAssociateID to MaxAssociateID	IRF (distributed): chassis ID Other: slot ID MinAssociateID and MaxAssociateID specification: Please reference to Comware V7 PEX NETCONF XML API Data Reference. Caution: PEX will reboot when the associated ID is modified.

Contents

PEX 1
PEX/Capability 1
XML structure 1
Table description 1
Columns 1
PEX/PEXPorts 2
XML structure 2
Table description 3
Columns 3

PEX

PEX/Capability

This table contains capabilities of PEX.

Also available in stand-alone mode.

XML structure

```
<PEX>
  <Capability>
    <MinPEXPortID></MinPEXPortID>
    <MaxPEXPortID></MaxPEXPortID>
    <MinAssociateID></MinAssociateID>
    <MaxAssociateID></MaxAssociateID>
    <MaxIfNumPerPEXPort></MaxIfNumPerPEXPort>
    <SupportedIfTypes>
       <ifTypeExt></ifTypeExt>
    </SupportedIfTypes>
  </Capability>
</PEX>
```

Table description

Item	Description
Feature name	PEX
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinPEXPortID	Minimum PEX port number	N/A	Unsigned integer.	N/A
MaxPEXPortID	Maximum PEX port number	N/A	Unsigned integer.	N/A
MinAssociateID	Minimum associate ID	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxAssociateID	Maximum associate ID	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID
MaxIfNumPerPEXPort	Maximum interface count in a PEX port	N/A	Unsigned integer.	N/A
SupportedIfTypes	Indicates which physical interface type can be added to PEX port.	Data structure	Members: • ifTypeExt	Multi-instance.
ifTypeExt	The physical interface type.	N/A	Unsigned integer.	ifTypeExt is referenced from Interfaces table in Ifmgr NETCONF XML API, XPath is Ifmgr/Interfaces/Interface/ifTypeExt. Please reference to *Comware V7 Ifmgr NETCONF XML API Data Reference.*

PEX/PEXPorts

This table contains configuration of PEX ports.

Also available in stand-alone mode.

XML structure

```
<PEX>
  <PEXPorts>
    <PEXPort>
      <Port></Port>
      <Description></Description>
      <State></State>
      <Interface>
        <IfName></IfName>
        <State></State>
        <PeerIfName></PeerIfName>
      </Interface>
      <Associate></Associate>
    </PEXPort>
  </PEXPorts>
</PEX>
```

Table description

Item	Description
Feature name	IRF
Table name	PEXPorts
Table type	Multi-instance table
Row name	PEXPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	PEX port number.	index	Unsigned integer.	N/A
Description	PEX port description.	N/A	String. Length: 1 to 79	N/A
State	State of a PEX port.	N/A	Enumeration. • 1—Offline • 2—Loading • 3—Online	N/A
Interface	Physical port of a PEX port.	Data structure	Members: • IfName • PeerIfName • State	Mult-instance
IfName	Interface name.	N/A	String. Length: 2 to 47 characters.	Physical port of an PEX port
State	State of the interface.	N/A	Enumeration. • 1—Forwarding • 2—Blocked • 3—Down • 4—ADM	Forwarding: Link is up and is forwarding. Blocked: Link is up and flow is blocked. Down: Link is down. ADM: The port has been manually shut down with the shutdown command.
PeerIfName	Peer interface name.	N/A	String. Length: 2 to 47 characters.	Peer interface name of the Physical port of an PEX port
Associate	Associated chassis ID or slot ID of the PEX port.	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID

Contents

PEX 1
PEX/PEXPorts 1

PEX

PEX/PEXPorts

Message	Explanation
Operation failed. The PEX port ID is out of range. 操作失败。PEX端口编号超出取值范围。	The PEX port ID is out of range. 指定的 PEX 端口编号超出取值范围。
The PEX port doesn't exist. 该PEX端口不存在。	The PEX port does not configuration. 指定的PEX端口还没有配置。
Operation failed. The number of PEX port's associated physical interfaces reached the upper limit. PEX端口的成员接口个数已达到最大值。	The number of PEX port's associated physical interfaces reached the upper limit. PEX端口的成员接口个数已经达到上限。
The virtual chassis ID or virtual slot number is already used. 该虚拟框号/虚拟槽位号已经被使用。	The virtual chassis ID or virtual slot number is already used. 指定的虚拟框号/虚拟槽位号已经被使用。
Interface *Ten-Gigabitethernet1/0/7* has been bound to another PEX port. 接口*Ten-Gigabitethernet1/0/7*已与另一PEX端口绑定。	The interface has been bound to another PEX port. 指定的接口已经与另外的PEX绑定。
The type of interface *Ten-Gigabitethernet1/0/7* is not supported. 不支持接口*Ten-Gigabitethernet1/0/7*的接口类型。	The interface type is not supported to bind to PEX port. 不支持指定的接口所属的接口类型绑定到PEX端口。
Interface *Ten-Gigabitethernet1/0/7* is already used exclusively by another feature and can't be bound to a PEX port. 接口*Ten-Gigabitethernet1/0/7*已被其他特性独占，不能配置为PEX端口的成员接口。	The interface is already used exclusively by another feature and can't be bound to a PEX port. 指定的接口已经被其它特性占用，不能配置为PEX端口的成员。
Configuration synchronization timed out. 同步配置超时。	Configuration synchronization timed out. 同步配置超时。
Configuration synchronization failed. 同步配置失败。	Configuration synchronization failed. 同步配置失败。
Interface *Ten-Gigabitethernet1/0/7* has been bound to the PEX port. 接口*Ten-Gigabitethernet1/0/7*已经与该PEX端口绑定。	The interface has been bound to the PEX port. 指定的接口已经绑定到指定的PEX端口。
Interface *Ten-Gigabitethernet1/0/7* switching failed. 接口*Ten-Gigabitethernet1/0/7*转换失败。	The interface binding to PEX port is failed. 指定的端口绑定到PEX端口失败。
Can't perform the operation when the PEX is loading. PEX加载时不能执行该操作。	Can't perform the operation when the PEX is loading. PEX加载时不能执行该操作。
The PEX port ID is already used in another MDC. PEX端口编号已经在其他MDC中使用。	The PEX port ID is already used in another MDC. 指定的PEX端口号已经在别的MDC内使用。

Physical interface *Ten-Gigabitethernet100/0/7* on PEXs can't be bound to a PEX port. PE板上的物理接口*Ten-Gigabitethernet100/0/7*不能绑定到PEX端口。	The physical interface on PEXs can't be bound to a PEX port. PE板上的物理口不能绑定到PEX端口
The virtual chassis ID or virtual slot number is not in range. 虚拟框号/虚拟槽位号超出了范围。	The virtual chassis ID or virtual slot number is not in range. 虚拟框号/虚拟槽位号超出了范围。
Interface *Ten-Gigabitethernet1/0/7* doesn't exist. 该接口不存在。	The interface does not exist. 指定的接口不存在。

Contents

PFC 1
PFC/IfDeadLock 1
XML structure 1
Table description 1
Columns 1

PFC

PFC/IfDeadLock

This table is used to recover from PFC deadlock.

XML structure

```
<PFC>
  <IfDeadLock>
    <Interface>
      <IfIndex></IfIndex>
      <Recover></Recover>
    </Interface>
  </IfDeadLock>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	IfRecover
Table type	Multi-instance table
Row name	DeadLock
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Recover	Recover from PFC deadlock.	N/A	This column must be empty.	N/A

Contents

PFC 1
PFC/GlobalCfg 1
XML structure 1
Table description 1
Columns 1
PFC/DeadLockIntervals 1
XML structure 1
Table description 2
Columns 2
PFC/DeadLockPrecisions 3
XML structure 3
Table description 3
Columns 3
PFC/PortDeadLocks 4
XML structure 4
Table description 4
Columns 4
PFC/PortPktWarningThresholds 5
XML structure 5
Table description 5
Columns 5
PFC/GlobalPFCPools 6
XML structure 6
Table description 6
Columns 6
PFC/PFCPorts 6
XML structure 7
Table description 7
Columns 7
PFC/PFCPorts/PortNoDrops 8
XML structure 8
Table description 8
Columns 8
PFC/PFCPorts/PortDscpMappings 9
XML structure 9
Table description 9
Columns 9

PFC

PFC/GlobalCfg

This table contains the global PFC configuration.

XML structure

```
<PFC>
  <GlobalCfg>
    <State></State>
  </GlobalCfg>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Global PFC state.	N/A	Enumeration: • enable.(default) • disable.	N/A

PFC/DeadLockIntervals

This table contains the detection interval information of the specified CoS.

XML structure

```
<PFC>
  <DeadLockIntervals>
    <DeadLockInterval>
```

```
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Cos></Cos>
      <Interval></Interval>
      <PauseRecover></PauseRecover>
    </DeadLockInterval>
   </DeadLockIntervals>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockIntervals
Table type	Multi-instance table
Row name	DeadLockInterval
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Interval	Detection interval configuration	N/A	Unsigned integer. Value range: 1 to 15	N/A
PauseRecover	Automatically recover PFC configuration based on PFC pause frames	N/A	Boolean: • **true**—Enable • **false**—Disable	The function is disabled by default.

PFC/DeadLockPrecisions

This table contains the timer precision configuration.

XML structure

```
<PFC>
  <DeadLockPrecisions>
    <DeadLockPrecision>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Precision></Precision>
    </DeadLockPrecision>
  </DeadLockPrecisions>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockPrecisions
Table type	Multi-instance table
Row name	DeadLockPrecision
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Precision	Timer precision configuration	N/A	Enumeration: • **1**—High. • **2**—Normal(default) • **3**—Low	N/A

PFC/PortDeadLocks

This table contains the deadlock and manual recovery mode configuration.

XML structure

```
<PFC>
  <PortDeadLocks>
    <PortDeadLock>
      <IfIndex></IfIndex>
      <State></State>
      <RecoverMode></RecoverMode>
    </PortDeadLock>
  </PortDeadLocks>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortDeadLocks
Table type	Multi-instance table
Row name	PortDeadLock
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
State	Enable PFC deadlock	N/A	Enumeration: • enable. • disable(default)	N/A
RecoverMode	RecoverMode Configuration	N/A	Enumeration: • **1**—Manual. • **2**—Auto(default)	N/A

PFC/PortPktWarningThresholds

This table contains the input and output early warning information.

XML structure

```
<PFC>
  <PortPktWarningThresholds>
    <PortPktWarningThreshold>
      <IfIndex></IfIndex>
     <Cos></Cos>
     <Inpps></Inpps>
     <Outpps></Outpps>
    </PortPktWarningThreshold>
  </PortPktWarningThresholds>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortPktWarningThresholds
Table type	Multi-instance table
Row name	PortPktWarningThreshold
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Inpps	Input early warning information	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A
Outpps	Output early	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	warning information		The value range is from 1 to 159783010.	

PFC/GlobalPFCPools

This table contains the global PFC pool configuration.

XML structure

```
<PFC>
  <GlobalPFCPools>
    <PFCPool>
      <PoolID></PoolID>
      <Headroom></Headroom>
    </PFCPool>
  </GlobalPFCPools>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalPFCPools
Table type	Multi-instance table
Row name	PFCPool
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolID	PFC pool ID	Index	Unsigned integer.	N/A
Headroom	Headroom buffer usage limit	N/A	Unsigned integer.	N/A

PFC/PFCPorts

This table contains the ports' PFC configuration.

XML structure

```
<PFC>
  <PFCPorts>
    <Port>
      <IfIndex></IfIndex>
      <State></State>
      <PortNoDrops>
        <PortNoDrop>
          <Dot1p></Dot1p>
          <ThresholdUnit></ThresholdUnit>
          <ThresholdValue></ThresholdValue>
          <Headroom></Headroom>
          <ThresholdOffset></ThresholdOffset>
          <ReservedBuffer></ReservedBuffer>
        </PortNoDrop>
      </PortNoDrops>
      <PortDscpMappings>
        <PortDscpMapping>
          <OriginalDscp></OriginalDscp>
          <MapDscp></MapDscp>
          <MapPriority></MapPriority>
        </PortDscpMapping>
      </PortDscpMappings>
    </Port>
  </PFCPorts>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PFCPorts
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
State	PFC state	N/A	Enumeration: • 1—enable • 2—disable.(default) • 3—auto	N/A
PortNoDrops	PortNoDrops information table	Subtable	N/A	For more information, see the PFC/PFCPorts/PortNoDrops table.

PFC/PFCPorts/PortNoDrops

This table contains the PFC nodrop configuration of PFC ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	PortNoDrops
Table type	Multi-instance table
Row name	PortNoDrop
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1p	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
ThresholdUnit	Unit of the buffer threshold	N/A	Enumeration: • 0--Absolute • 1--Percentage	N/A
ThresholdValue	Buffer threshold	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Headroom	Headroom threshold	N/A	Unsigned integer.	N/A
ThresholdOffSet	Threshold offset from XOFF to XON	N/A	Unsigned integer.	N/A
ReservedBuffer	Reserved buffer threshold	N/A	Unsigned integer.	N/A

PFC/PFCPorts/PortDscpMappings

This table contains the PFC DSCP mappings information of ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	PortDscpMappings
Table type	Multi-instance table
Row name	PortDscpMapping
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OriginalDscp	DSCP value of the message to be adjusted	Index	Unsigned integer. Value range: 0 to 63.	N/A
MapDscp	DSCP value of the mapped message	N/A	Unsigned integer. Value range: 0 to 63.	N/A
MapPriority	Dot1p priority of the message	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Contents

PFC 1

PFC/GlobalCfg 1
XML structure 1
Table description 1
Columns 1
PFC/DeadLockIntervals 1
XML structure 1
Table description 2
Columns 2
PFC/DeadLockPrecisions 2
XML structure 3
Table description 3
Columns 3
PFC/PortDeadLocks 3
XML structure 4
Table description 4
Columns 4
PFC/PortPktWarningThresholds 4
XML structure 5
Table description 5
Columns 5
PFC/GlobalPFCPools 6
XML structure 6
Table description 6
Columns 6
PFC/PFCPorts 6
XML structure 6
Table description 7
Columns 7
PFC/PFCPorts/PortNoDrops 8
XML structure 8
Table description 8
Columns 8
PFC/PFCPorts/PortDscpMappings 9
XML structure 9
Table description 9
Columns 9
PFC/PortDscpMappingStatistics 9
XML structure 10
Table description 10
Columns 10
PFC/PortDscpMappingStatistics/MappingStatistics 11
XML structure 11
Table description 11
Columns 11
PFC/PortDscpMappingStatistics/MappingStatistics/MappingDatas 12
XML structure 12
Table description 12
Columns 12

PFC

PFC/GlobalCfg

This table contains the global PFC configuration.

XML structure

```
<PFC>
  <GlobalCfg>
    <State></State>
  </GlobalCfg>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Global PFC state.	N/A	Enumeration: • enable. • disable.	N/A

PFC/DeadLockIntervals

This table contains the detection interval information of the specified CoS.

XML structure

```
<PFC>
  <DeadLockIntervals>
    <DeadLockInterval>
      <Chassis></Chassis>
      <Slot></Slot>
```

```
      <CPUID></CPUID>
      <Cos></Cos>
      <Interval></Interval>
      <PauseRecover></PauseRecover>
    </DeadLockInterval>
   </DeadLockIntervals>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockIntervals
Table type	Multi-instance table
Row name	DeadLockInterval
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Interval	Detection interval configuration	N/A	Unsigned integer. Value range: 1 to 15	N/A
PauseRecover	Automatically recover PFC configuration based on PFC pause frames	N/A	Boolean: • **true**—Enable • **false**—Disable	The function is disabled by default.

PFC/DeadLockPrecisions

This table contains the timer precision configuration.

XML structure

```
<PFC>
  <DeadLockPrecisions>
    <DeadLockPrecision>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Precision></Precision>
    </DeadLockPrecision>
  </DeadLockPrecisions>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockPrecisions
Table type	Multi-instance table
Row name	DeadLockPrecision
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Precision	Timer precision configuration	N/A	Enumeration: • **1**—High. • **2**—Normal • **3**—Low	N/A

PFC/PortDeadLocks

This table contains setting deadlock enable and recover-mode manual.

XML structure

```
<PFC>
  <PortDeadLocks>
    <PortDeadLock>
      <IfIndex></IfIndex>
      <State></State>
      <RecoverMode></RecoverMode>
    </PortDeadLock>
  </PortDeadLocks>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortDeadLocks
Table type	Multi-instance table
Row name	PortDeadLock
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
State	Enable PFC deadlock function.	N/A	Enumeration: • enable. • disable	N/A
RecoverMode	RecoverMode configuration	N/A	Enumeration: • **1**—Manual. • **2**—Auto	N/A

PFC/PortPktWarningThresholds

This table contains the input and output early warning information.

XML structure

```
<PFC>
  <PortPktWarningThresholds>
    <PortPktWarningThreshold>
      <IfIndex></IfIndex>
      <Cos></Cos>
      <Inpps></Inpps>
      <Outpps></Outpps>
    </PortPktWarningThreshold>
  </PortPktWarningThresholds>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortPktWarningThresholds
Table type	Multi-instance table
Row name	PortPktWarningThreshold
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Inpps	Input early warning information.	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A
Outpps	Output early warning information.	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A

PFC/GlobalPFCPools

This table contains the global PFC pool information.

XML structure

```
<PFC>
  <GlobalPFCPools>
    <PFCPool>
      <PoolID></PoolID>
      <Headroom></Headroom>
    </PFCPool>
  </GlobalPFCPools>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalPFCPools
Table type	Multi-instance table
Row name	PFCPool
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolID	PFC pool ID	Index	Unsigned integer.	N/A
Headroom	Headroom buffer usage limit	N/A	Unsigned integer.	N/A

PFC/PFCPorts

This table contains the ports' PFC information

XML structure

```
<PFC>
  <PFCPorts>
    <Port>
      <IfIndex></IfIndex>
      <State></State>
```

```
      <PortNoDrops>
        <PortNoDrop>
          <Dot1p></Dot1p>
          <ThresholdUnit></ThresholdUnit>
          <ThresholdValue></ThresholdValue>
          <Headroom></Headroom>
          <ThresholdOffset></ThresholdOffset>
          <ReservedBuffer></ReservedBuffer>
        </PortNoDrop>
      </PortNoDrops>
      <PortDscpMappings>
        <PortDscpMapping>
          <OriginalDscp></OriginalDscp>
          <MapDscp></MapDscp>
          <MapPriority></MapPriority>
        </PortDscpMapping>
      </PortDscpMappings>
    </Port>
  </PFCPorts>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PFCPorts
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
State	PFC state	N/A	Enumeration: • 1—enable • 2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—auto	
PortNoDrops	PortNoDrops information table	Subtable	N/A	For more information, see the PFC/PFCPorts/PortNoDrops table.
PortDscpMappings	PortDscpMappings information table	Subtable	N/A	For more information, see the PFC/PFCPorts/PortDscpMappings table.

PFC/PFCPorts/PortNoDrops

This table contains the PFC nodrop information of ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	PortNoDrops
Table type	Multi-instance table
Row name	PortNoDrop
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1p	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
ThresholdUnit	Unit of threshold value	N/A	Enumeration: • 0--Absolute • 1--Percentage	N/A
ThresholdValue	Buffer threshold	N/A	Unsigned integer.	N/A
Headroom	Headroom threshold	N/A	Unsigned integer.	N/A
ThresholdOffset	Set buffer offset threshold	N/A	Unsigned integer.	N/A

	from XOFF to XON			
ReservedBuffer	Reserved buffer threshold	N/A	Unsigned integer.	N/A

PFC/PFCPorts/PortDscpMappings

This table contains the PFC DSCP mapping information of ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	PortDscpMappings
Table type	Multi-instance table
Row name	PortDscpMapping
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OriginalDscp	DSCP value of the message to be adjusted	Index	Unsigned integer. Value range: 0 to 63.	N/A
MapDscp	DSCP value of the mapped message	N/A	Unsigned integer. Value range: 0 to 63.	N/A
MapPriority	Dot1p priority of the message	N/A	Unsigned integer. Value range: 0 to 7.	N/A

PFC/PortDscpMappingStatistics

This table contains the ports' PFC DSCP mapping statistics information

XML structure

```
<PFC>
  <PortDscpMappingStatistics>
    <PortDscpMappingStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MappingStatistics>
        <MappingStatistic>
          <IfIndex></IfIndex>
          <MappingDatas>
            <MappingData>
             <OriginalDscp></OriginalDscp>
             <MapDscp></MapDscp>
             <OriginalPriority></OriginalPriority>
             <MapPriority></MapPriority>
             <MapPktCount></MapPktCount>
             <LastMappingTime></LastMappingTime>
            <MappingData>
          </MappingDatas>
        </MappingStatistic>
      </MappingStatistics>
    </PortDscpMappingStatistic>
  </PortDscpMappingStatistics>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortDscpMappingStatistics
Table type	Multi-instance table
Row name	PortDscpMappingStatistic
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
MappingStatistics	Mapping statistics information	Subtable	N/A	For more information, see the PFC/PortDscpMappingStatistics/MappingStatistics table.

PFC/PortDscpMappingStatistics/MappingStatistics

This table contains the PFC mapping statistics information of ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	MappingStatistics
Table type	Multi-instance table
Row name	MappingStatistic
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MappingDatas	Mapping data information	Subtable	N/A	For more information, see the PFC/PortDscpMappingStatistics/MappingStatistics/MappingData table.

PFC/PortDscpMappingStatistics/MappingStatistics/MappingDatas

This table contains the PFC mapping data information of ports.

XML structure

Please refer to the XML Structure of PFC/PFCPorts.

Table description

Item	Description
Feature name	PFC
Table name	MappingDatas
Table type	Multi-instance table
Row name	MappingData
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OriginalDscp	DSCP value of the message to be adjusted	Index	Unsigned integer. Value range: 0 to 63.	N/A
MapDscp	DSCP value of the mapped message	N/A	Unsigned integer. Value range: 0 to 63.	N/A
OriginalPriority	Dot1p priority of the message to be adjusted	N/A	Unsigned integer. Value range: 0 to 7.	N/A

MapPriority	Dot1p priority of the mapped message	N/A	Unsigned integer. Value range: 0 to 7.	N/A
MapPktCount	Number of messages for mapping conversion	N/A	Unsigned integer.	N/A
LastMappingTime	Time of last hit mapping conversion	N/A	String Length: 1 to 64 characters.	N/A

Contents

PFC 2
PFC/GlobalPFCPools 2
PFC/PFCPorts/PortNoDrops 2
PFC/PFCPorts/PortDscpMappings 2

PFC

PFC/GlobalPFCPools

Message	Explanation
The Headroom range is %u to %u.. Headroom取值范围为 %u-%u。	The Headroom parameter value cannot exceed the value range. 用户设置 Headroom 大小不能超出取值范围。
The PoolID range is %u to %u.. PoolID 取值范围为 %u-%u。	The PoolID parameter value cannot exceed the value range. 用户设置 PoolID 不能超出取值范围。

PFC/PFCPorts/PortNoDrops

Message	Explanation
The Headroom range is %u to %u.. Headroom取值范围为%u-%u。	The Headroom parameter value cannot exceed the value range. 用户设置 Headroom 大小不能超出取值范围。
The ThresholdValue range is %u to %u.. ThresholdValue取值范围为%u-%u。	The ThresholdValue parameter value cannot exceed the value range. 用户设置 ThresholdValue 大小不能超出取值范围。
The ThresholdValue range is %u to %u in percentage.. ThresholdValue 百分比取值范围为%u-%u。	The ThresholdValue parameter value cannot exceed the value range. 用户设置 ThresholdValue 大小不能超出取值范围。
The ThresholdOffset range is %u to %u.. ThresholdOffset取值范围为%u-%u。	The ThresholdOffset parameter value cannot exceed the value range. 用户设置 ThresholdOffset 大小不能超出取值范围。
The ReservedBuffer range is %u to %u.. ReservedBuffer取值范围为%u-%u。	The ReservedBuffer parameter value cannot exceed the value range. 用户设置 ReservedBuffer 大小不能超出取值范围。
Please configure the 'priority-flow-control no-drop dot1p' command first!. 请先开启指定802.1p优先级的PFC功能。	The user did not configure the command line and the operation failed. 用户未配置该命令行而导致操作失败

PFC/PFCPorts/PortDscpMappings

Message	Explanation
Cannot configure the same original DSCP value for different mappings. 不能为不同的映射关系配置相同的源DSCP值。	Cannot configure the same original DSCP value for the different mappings. 不能为不同映射关系配置的相同的 DSCP 值。
Up to % d PFC DSCP mappings can be configured. 最多个可以配置xx个DSCP映射关系。	The user cannot configure more than the maximum number of DSCP mappings. 用户设置的 DSCP 映射关系不能超过最大个数。

Contents

PIM 1

PIM/Ipv4Instances 1
XML structure 1
Table description 1
Columns 1
PIM/Ipv4Interfaces 3
XML structure 3
Table description 4
Columns 4
PIM/Ipv4CBsrs 6
XML structure 6
Table description 6
Columns 7
PIM/Ipv4CRps 8
XML structure 8
Table description 8
Columns 8
PIM/Ipv4StaticRps 9
XML structure 9
Table description 9
Columns 10
PIM/Ipv6Instances 10
XML structure 10
Table description 11
Columns 11
PIM/Ipv6Interfaces 13
XML structure 13
Table description 13
Columns 14
PIM/Ipv6CBsrs 16
XML structure 16
Table description 16
Columns 16
PIM/Ipv6CRps 17
XML structure 17
Table description 17
Columns 18
PIM/Ipv6StaticRps 18
XML structure 18
Table description 19
Columns 19
PIM/Ipv4Globals 20
XML structure 20
Table description 20
Columns 20
PIM/Ipv6Globals 20
XML structure 20
Table description 21
Columns 21
PIM/Ipv4AnycastRps 21
XML structure 21
Table description 21
Columns 22
PIM/Ipv6AnycastRps 22
XML structure 22
Table description 22
Columns 23

PIM

PIM/Ipv4Instances

This table contains IPv4 PIM instance information.

XML structure

```
<PIM>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
      <RegisterPolicy></RegisterPolicy>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <SourcePolicy></SourcePolicy>
      <RpfFrrEnable></RpfFrrEnable>
      <RpfFrrAcl></RpfFrrAcl>
    </Instance>
  </Ipv4Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance	Index	String.	An empty string

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 0 to 31 characters	indicates the public network
RegWholeChks	Checksum calculating rule for PIM register messages	N/A	Boolean: • **true**—Calculates the checksum based on an entire register message. • **false**—Calculates the checksum based on the header of a register message (default)	N/A
SsmPolicy	ACL number or ACL name	N/A	ACL number: • Unsigned integer Value range: • 2000 to 2999. ACL name: • String. • Length: 1 to 63 characters.	N/A
RegisterPolicy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 3000 to 3999. ACL name: • String. Length: 1 to 63 characters.	N/A
HelloInterval	Interval of sending Hello message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 30.	N/A
JoinPruneInterval	Interval for sending join / prune message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 60.	N/A
HelloHoldTime	Time of keep the reachable state of PIM neighbors in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 105.	N/A
HelloLanDelay	Transmission delay of PIM message in shared network segment in PIM view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds. Default: 500.	N/A
HelloOverrideInterval	Time of pruning veto in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds. Default: 2500.	N/A
JoinPruneHoldTime	Hold time of joining / pruning state in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 210.	
SourcePolicy	Source policy	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	N/A
RpfFrrEnable	Enabling status of PIM FRR.	N/A	Boolean. • **true**—Enabled. • **false—**Disabled (default).	N/A
RpfFrrAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	This column can be specified only when the RpfFrrEnable column is true.

PIM/Ipv4Interfaces

This table contains IPv4 PIM interface information.

XML structure

```
<PIM>
  <Ipv4Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <DistributedDr></DistributedDr>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <Passive></Passive>
      <NeighborPolicy></NeighborPolicy>
      <JoinPolicy>
        <GeneralAcl></GeneralAcl>
        <AsmAcl></AsmAcl>
        <SsmAcl></SsmAcl>
      </JoinPolicy>
      <BsrBoundary></BsrBoundary>
      <TriggeredHelloPortDown></TriggeredHelloPortDown>
      <TriggeredHelloPortUp></TriggeredHelloPortUp>
```

```
      <TriggeredHelloDelay></TriggeredHelloDelay>
    </Interface>
  </Ipv4Interfaces>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	PIM Mode	N/A	Enumeration: • **1**—PIM-SM • **2**—PIM-DM	N/A
Distributed Dr	Whether to configure this VSI interface as a distributed DR interface	N/A	Boolean: • **true**—Configures the VSI interface as a distributed DR interface. • **false**—Not to configure the VSI interface as a distributed DR interface (default).	N/A
HelloInterval	Interval of sending Hello message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 30.	N/A
JoinPruneInterval	Interval for sending join/prune message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 60.	N/A
HelloHold Time	Time of keep the reachable	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	state of PIM neighbors in interface view		Value range: 1 to 65535, in seconds. Default: 105.	
HelloLanDelay	Transmission delay of PIM message in shared network segment in interface view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds. Default: 500.	N/A
HelloOverrideInterval	Time of pruning veto in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds. Default: 2500.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 210.	N/A
Passive	PIM passive mode	N/A	Boolean. • **true**—Enabled. **false**—Disabled (default).	PIM-DM PIM-SM
NeighborPolicy	ACL to filter Hello messages by source address	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. Length: 1 to 63 characters.	N/A
JoinPolicy	Filtering rules for adding information to PIM join/prune message.	Data structure	Members include: • GeneralAcl. • AsmAcl. SsmAcl.	N/A
GeneralAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on PIM-DM
AsmAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on PIM-DM
SsmAcl	ACL number or ACL name	N/A	ACL number: Unsigned integer. Value range: 2000 to 3999.	This command does not take effect on PIM-DM

Column name	Column description	Column type	Data type and restrictions	Remarks
			ACL name: String. Length: 1 to 63 characters.	
BsrBoundary	Configure a PIM-SM domain border (a bootstrap message boundary).	N/A	Boolean. • true—Enabled. • false—Disabled (default).	N/A
TriggeredHelloPortDown	PIM hello triggered by port-down events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloPortUp	PIM hello triggered by port-up events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloDelay	Time of PIM triggered hello Delay	N/A	Unsigned integer. Value range: 1 to 60, in seconds. Default: 5.	N/A

PIM/Ipv4CBsrs

This table contains IPv4 PIM C-BSR information.

XML structure

```
<PIM>
  <Ipv4CBsrs>
    <Ipv4CBsr>
      <VRF></VRF>
      <SpecifyScope></SpecifyScope>
      <Scope></Scope>
      <MaskLen></MaskLen>
      <IpAddr></IpAddr>
      <HashLen></HashLen>
      <Priority></Priority>
    </Ipv4CBsr>
  </Ipv4CBsrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4CBsrs

Item	Description
Table type	Multi-instance table
Row name	Ipv4CBsr
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	Empty string indicates the public network.
SpecifyScope	Whether to specify a multicast group address	Index	Boolean. • **true**—Enabled. • **false**—Disabled (default).	If scope wasn't specified, it will work on the scope of 224.0.0.0/4.
Scope	Admin-scoped zone	Index	String, dotted decimal notation. Value range: 239.0.0.0 to 239.255.255.255.	N/A
MaskLen	Mask length	Index	Unsigned integer. Value range: 8 to 32.	N/A
IpAddr	IP address of a C-BSR	N/A	String, dotted decimal notation.	During a create or merge operation, you must specify an IP address. If you specify an IP address during a delete or remove operation, the corresponding configuration is deleted. If you do not specify an IP address during a replace operation, the corresponding configuration is deleted.
HashLen	Hash mask length	N/A	Unsigned integer. Value range: 0 to 32. Default: 30.	N/A
Priority	Priority of the C-BSR	N/A	Unsigned integer. Value range: 0 to 255. Default: 64.	N/A

PIM/Ipv4CRps

This table contains IPv4 PIM C-RP information.

XML structure

```
<PIM>
  <Ipv4CRps>
    <Ipv4CRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <AdvInterval></AdvInterval>
      <GroupPolicy></GroupPolicy>
      <HoldTime></HoldTime>
      <Priority></Priority>
      <BidirPim></BidirPim>
    </Ipv4CRp>
  </Ipv4CRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4CRps
Table type	Multi-instance table
Row name	Ipv4CRp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
AdvInterval	Interval of sending advertisement message	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 60.	N/A
GroupPolicy	ACL number	N/A	ACL number: • Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63 characters.	
HoldTime	Hold timer of the IPv4 PIM C-RP	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 150.	N/A
Priority	Priority of the IPv4 PIM C-RP	N/A	Unsigned integer. Value range: 0 to 255. Default: 192.	N/A
BidirPim	Whether to use the IPv4 PIM C-RP for BIDIR-PIM	N/A	Boolean. • **true**—Uses the IPv4 PIM C-RP for BIDIR-PIM. • **false**—Uses the IPv4 PIM C-RP for PIM-SM (default).	N/A

PIM/Ipv4StaticRps

This table contains IPv4 PIM static RP information.

XML structure

```
<PIM>
  <Ipv4StaticRps>
    <Ipv4StaticRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <GroupPolicy></GroupPolicy>
      <Preferred></Preferred>
      <BidirPim></BidirPim>
    </Ipv4StaticRp>
  </Ipv4StaticRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4StaticRps

Item	Description
Table type	Multi-instance table
Row name	Ipv4StaticRp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
GroupPolicy	ACL number	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. Length: 1 to 63.	N/A
Preferred	Whether to select the static RP preferentially	N/A	Boolean: • **true**—The static RP is preferred. • **false**—The dynamic RP is preferred (default).	N/A
BidirPim	Whether to use the static RP for BIDIR-PIM	N/A	Boolean: • **true**—Uses the static RP for BIDIR-PIM. • **false**—Uses the static RP for PIM-SM (default).	N/A

PIM/Ipv6Instances

This table contains IPv6 PIM instance information.

XML structure

```
<PIM>
  <Ipv6Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
      <RegisterPolicy></RegisterPolicy>
```

```
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <SourcePolicy></SourcePolicy>
      <RpfFrrEnable></RpfFrrEnable>
      <RpfFrrAcl></RpfFrrAcl>
    </Instance>
  </Ipv6Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RegWholeChks	Checksum calculating rule for IPv6 PIM register messages.	N/A	Boolean: • **true**—Calculates the checksum based on an entire register message. • **false**—Calculates the checksum based on the header of a register message (default).	N/A
SsmPolicy	ACL number or ACL name	N/A	ACL number: • Unsigned integer. Value range: 2000 to 2999. ACL name: • String.Length: 1 to 63 characters.	N/A
RegisterPolicy	Register policy	N/A	ACL number: • Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Value range: 3000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	
HelloInterval	Interval of sending Hello message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
JoinPruneInterval	Interval for sending join/prune message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
HelloHoldTime	Time of keep the reachable state of PIM neighbors in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
HelloLanDelay	Transmission delay of PIM message in shared network segment in PIM view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds.	N/A
HelloOverrideInterval	Time of pruning veto in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
SourcePolicy	Source policy	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	N/A
RpfFrrEnable	Enabling status of IPv6 PIM FRR	N/A	Boolean. • **true**—Enabled. • **false—**Disabled (default).	N/A
RpfFrrAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	This column can be specified only when the RpfFrrEnable column is true.

PIM/Ipv6Interfaces

This table contains IPv6 PIM interface information.

XML structure

```
<PIM>
  <Ipv6Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <DistributedDr></DistributedDr>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <Passive></Passive>
      <NeighborPolicy></NeighborPolicy>
      <JoinPolicy>
        <GeneralAcl></GeneralAcl>
        <AsmAcl></AsmAcl>
        <SsmAcl></SsmAcl>
      </JoinPolicy>
      <BsrBoundary></BsrBoundary>
      <TriggeredHelloPortDown></TriggeredHelloPortDown>
      <TriggeredHelloPortUp></TriggeredHelloPortUp>
      <TriggeredHelloDelay></TriggeredHelloDelay>
    </Interface>
  </Ipv6Interfaces>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	IPv6 PIM mode	N/A	Enumeration: • **1**—IPv6 PIM-SM • **2**—IPv6 PIM-DM	N/A
Distributed Dr	Whether to configure this VSI interface as a distributed DR interface	N/A	Boolean: • **true**—Configures the VSI interface as a distributed DR interface. • **false**—Not to configure the VSI interface as a distributed DR interface (default).	N/A
HelloInterval	Interval of sending Hello message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 30.	N/A
JoinPruneInterval	Interval for sending join/prune message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 60.	N/A
HelloHoldTime	Time of keep the reachable state of IPv6 PIM neighbors in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 105.	N/A
HelloLanDelay	Transmission delay of IPv6 PIM message in shared network segment in interface view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds. Default: 500.	N/A
HelloOverrideInterval	Time of pruning veto in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds. Default: 2500.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 210.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Passive	IPv6 PIM passive mode	N/A	Boolean. • **true**—Enabled. **false**—Disabled (default).	N/A
NeighborPolicy	ACL to filter Hello messages by source address	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. Length: 1 to 63 characters.	N/A
JoinPolicy	Filtering rules for adding information to IPv6 PIM join/prune message.	Data structure	Members include: • GeneralAcl. • AsmAcl. SsmAcl.	N/A
GeneralAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
AsmAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
SsmAcl	ACL number or ACL name	N/A	ACL number: Unsigned integer. Value range: 2000 to 3999. ACL name: String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
BsrBoundary	Configure a IPv6 PIM-SM domain border (a bootstrap message boundary).	N/A	Boolean. • true—Enabled. • false—Disabled (default).	N/A
TriggeredHelloPortDown	IPv6 PIM hello triggered by port-down events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloPortUp	IPv6 PIM hello triggered by port-up events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloDelay	Time of IPv6 PIM triggered	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	hello delay		Value range: 1 to 60, in seconds. Default: 5.	

PIM/Ipv6CBsrs

This table contains IPv6 PIM C-BSR information.

XML structure

```
<PIM>
  <Ipv6CBsrs>
    <Ipv6CBsr>
      <VRF></VRF>
      <ScopeId></ScopeId>
      <IpAddr></IpAddr>
      <HashLen></HashLen>
      <Priority></Priority>
    </Ipv6CBsr>
  </Ipv6CBsrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6CBsrs
Table type	Multi-instance table
Row name	Ipv6CBsr
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicatesthe public network.
ScopeId	ID of an admin-scoped zone	Index	Unsigned integer. Value range: 0,3 to 15.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddr	IPv6 address of the C-BSR	N/A	Hexadecimal string, colon-separated.	N/A
HashLen	Hash mask length	N/A	Unsigned integer. Value range: 0 to 128. Default: 126.	N/A
Priority	Priority of the C-BSR	N/A	Unsigned integer. Value range: 0 to 255. Default: 64.	N/A

PIM/Ipv6CRps

This table contains IPv6 PIM C-RP information.

XML structure

```
<PIM>
  <Ipv6CRps>
    <Ipv6CRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <AdvInterval></AdvInterval>
      <GroupPolicy></GroupPolicy>
      <HoldTime></HoldTime>
      <Priority></Priority>
      <BidirPim></BidirPim>
      <ScopeId></ScopeId>
    </Ipv6CRp>
  </Ipv6CRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6CRps
Table type	Multi-instance table
Row name	Ipv6CRp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1111::11.
AdvInterval	Interval of sending advertisement messages	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 60.	N/A
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
HoldTime	Hold timer of the IPv6 PIM C-RP	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 150.	N/A
Priority	Priority of the IPv6 PIM C-RP	N/A	Unsigned integer. Value range: 0 to 255. Default: 192.	N/A
BidirPim	Whether to use the IPv6 PIM C-RP for BIDIR-PIM	N/A	Boolean. • **true**—Use the C-RP for BIDIR-PIM. • **false**—Uses the C-RP for PIM-SM(default).	N/A
ScopeId	ID of admin-scope zone	N/A	Unsigned integer. Value range: 3 to 15.	N/A

PIM/Ipv6StaticRps

This table contains IPv6 PIM static RP information.

XML structure

```
<PIM>
  <Ipv6StaticRps>
    <Ipv6StaticRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
```

```
      <GroupPolicy></GroupPolicy>
      <Preferred></Preferred>
      <BidirPim></BidirPim>
    </Ipv6StaticRp>
  </Ipv6StaticRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6StaticRps
Table type	Multi-instance table
Row name	Ipv6StaticRp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1111::11.
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
Preferred	Whether to select the static RP preferentially	N/A	Boolean: • **true**—The static RP is preferred. • **false**—The dynamic RP is preferred(default).	N/A
BidirPim	Whether to use the static RP for BIDIR-PIM	N/A	Boolean: • **true**—Uses the static RP for BIDIR-PIM. • **false**—Uses the static RP for PIM-SM(default).	N/A

PIM/Ipv4Globals

This table contains global IPv4 PIM configtion information.

XML structure

```
<PIM>
  <Ipv4Globals>
    <Ipv4Global>
      <NsrEnable></NsrEnable>
    </Ipv4Global>
  </Ipv4Globals>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Globals
Table type	Single-instance table
Row name	Ipv4Global
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NsrEnable	Whether to enable the PIM NSR	N/A	Boolean: • **true**—Enable PIM NSR. • **false**—Disnable PIM NSR (default).	N/A

PIM/Ipv6Globals

This table contains global IPv6 PIM configtion information.

XML structure

```
<PIM>
  <Ipv6Globals>
    <Ipv6Global>
      <NsrEnable></NsrEnable>
```

```
    </Ipv6Global>
  </Ipv6Globals>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Globals
Table type	Single-instance table
Row name	Ipv6Global
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NsrEnable	Whether to enable the IPv6 PIM NSR	N/A	Boolean: • **true**—Enable PIM NSR. • **false**—Disnable PIM NSR (default).	N/A

PIM/Ipv4AnycastRps

This table contains IPv4 PIM anycast-RP information.

XML structure

```
<PIM>
  <Ipv4AnycastRps>
    <Ipv4AnycastRp>
      <VRF></VRF>
      <RpAddr></RpAddr>
      <MemberAddr></MemberAddr>
    </Ipv4AnycastRp>
  </Ipv4AnycastRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM

Item	Description
Table name	Ipv4AnycastRps
Table type	Multi-instance table
Row name	Ipv4AnycastRps
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RpAddr	IPv4 address	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1.
MemberAddr	IPv4 address	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1.

PIM/Ipv6AnycastRps

This table contains IPv6 PIM Anycast-RP information.

XML structure

```
<PIM>
  <Ipv6AnycastRps>
    <Ipv6AnycastRp>
      <VRF></VRF>
      <RpAddr></RpAddr>
      <MemberAddr></MemberAddr>
    </Ipv6AnycastRp>
  </Ipv6AnycastRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6AnycastRps
Table type	Multi-instance table
Row name	Ipv6AnycastRps
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RpAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 100::1
MemberAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 100::2

Contents

PIM 1

PIM/Ipv4Instances 1
XML structure 1
Table description 1
Columns 1
PIM/Ipv4Interfaces 3
XML structure 3
Table description 4
Columns 4
PIM/Ipv4Nbrs 5
XML structure 5
Table description 6
Columns 6
PIM/Ipv4CBsrs 7
XML structure 7
Table description 7
Columns 7
PIM/Ipv4CRps 8
XML structure 8
Table description 8
Columns 9
PIM/Ipv4StaticRps 9
XML structure 10
Table description 10
Columns 10
PIM/Ipv6Instances 11
XML structure 11
Table description 11
Columns 12
PIM/Ipv6Interfaces 13
XML structure 13
Table description 14
Columns 14
PIM/Ipv6Nbrs 16
XML structure 17
Table description 17
Columns 17
PIM/Ipv6CBsrs 18
XML structure 18
Table description 18
Columns 18
PIM/Ipv6CRps 19
XML structure 19
Table description 19
Columns 19
PIM/Ipv6StaticRps 20
XML structure 20
Table description 21
Columns 21
PIM/Ipv4Globals 21
XML structure 21
Table description 22
Columns 22
PIM/Ipv6Globals 22
XML structure 22
Table description 23
Columns 23

PIM/Ipv4AnycastRps 23
XML structure 23
Table description 23
Columns 24
PIM/Ipv6AnycastRps 24
XML structure 24
Table description 24
Columns 25

PIM

PIM/Ipv4Instances

This table contains IPv4 PIM instance information.

XML structure

```
<PIM>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
      <RegisterPolicy></RegisterPolicy>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <SourcePolicy></SourcePolicy>
      <RpfFrrEnable></RpfFrrEnable>
      <RpfFrrAcl></RpfFrrAcl>
    </Instance>
  </Ipv4Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegWholeChks	Checksum calculating rule for PIM register message	N/A	Boolean: • **true**—Calculates the checksum based on an entire register message. • **false**—Calculates the checksum based on the header of a register message .	N/A
SsmPolicy	SSM group range	N/A	• ACL number: • Unsigned integer. • Value range: 2000 to 2999. • ACL name: • String. • Length: 1 to 63 characters.	N/A
RegisterPolicy	Register policy	N/A	ACL number: • Unsigned integer. • Value range: 3000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	N/A
HelloInterval	Interval of sending Hello message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
JoinPruneInterval	Interval for sending join/prune message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
HelloHoldTime	Time of keep the reachable state of PIM neighbors in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
HelloLanDelay	Transmission delay of PIM message in shared network segment in PIM view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds.	N/A
HelloOverrideInterval	Time of pruning veto in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds.	N/A
JoinPruneHoldTime	Hold time of joining / pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
SourcePolicy	Source policy	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Length: 1 to 63 characters.	
RpfFrrEnable	Enabling statue of PIM FRR	N/A	Boolean. • **true**—Enabled. • **false**—Disabled.	N/A
RpfFrrAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	This column can be specified only when the RpfFrrEnable column is true.

PIM/Ipv4Interfaces

This table contains IPv4 PIM interface information.

XML structure

```
<PIM>
  <Ipv4Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <DistributedDr></DistributedDr>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <Passive></Passive>
      <NeighborPolicy></NeighborPolicy>
      <JoinPolicy>
        <GeneralAcl></GeneralAcl>
        <AsmAcl></AsmAcl>
        <SsmAcl></SsmAcl>
      </JoinPolicy>
      <BsrBoundary></BsrBoundary>
      <TriggeredHelloPortDown></TriggeredHelloPortDown>
      <TriggeredHelloPortUp></TriggeredHelloPortUp>
      <TriggeredHelloDelay></TriggeredHelloDelay>
      <IfName></IfName>
    </Interface>
  </Ipv4Interfaces>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	PIM mode	N/A	Enumeration: • **1**—PIM-SM. • **2**—PIM-DM.	N/A
DistributedDr	Whether to configure this VSI interface as a distributed DR interface	N/A	Boolean: • **true**—Configures the VSI interface as a distributed DR interface. • **false**—Not to configure the VSI interface as a distributed DR interface.	N/A
HelloInterval	Interval of sending hello message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
JoinPruneInterval	Interval for sending join/prune message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
HelloHoldTime	Time of keep the reachable state of PIM neighbors in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
HelloLanDelay	Transmission delay of PIM message in shared network segment in	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface view			
HelloOverrideInterval	Time of pruning veto in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
Passive	PIM passive mode	N/A	Boolean. • **true**—Enabled. • **false**—Disabled.	PIM-DM PIM-SM
NeighborPolicy	ACL to filter hello messages by source address	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63 characters.	N/A
BsrBoundary	Configure a PIM-SM domain border (a bootstrap message boundary).	N/A	Boolean. • true—Enabled. • false—Disabled .	N/A
TriggeredHelloPortDown	PIM hello triggered by port-down events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled .	N/A
TriggeredHelloPortUp	PIM hello triggered by port-up events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled.	N/A
TriggeredHelloDelay	Time of PIM triggered hello Delay	N/A	Unsigned integer. Value range: 1 to 60, in seconds. Default: 5.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

PIM/Ipv4Nbrs

This table contains IPv4 PIM neighbor information.

XML structure

```
<PIM>
```

```
  <Ipv4Nbrs>
    <Nbr>
      <IfIndex></IfIndex>
      <NbrAddr></NbrAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Nbr>
  </Ipv4Nbrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Nbrs
Table type	Multi-instance table
Row name	Nbr
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
NbrAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Uptime	Length of time the PIM neighbor has been up	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining lifetime of the PIM neighbor	N/A	Unsigned integer (in seconds).	The value of 0xFFFFFFFF means that the PIM neighbor is always up and reachable.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

PIM/Ipv4CBsrs

This table contains IPv4 PIM C-BSR information.

XML structure

```
<PIM>
  <Ipv4CBsrs>
    <Ipv4CBsr>
      <VRF></VRF>
      <SpecifyScope></SpecifyScope>
      <Scope></Scope>
      <MaskLen></MaskLen>
      <IpAddr></IpAddr>
      <HashLen></HashLen>
      <Priority></Priority>
    </Ipv4CBsr>
  </Ipv4CBsrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4CBsrs
Table type	Multi-instance table
Row name	Ipv4CBsr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicatesthe public network.
SpecifyScope	Whether to specify a multicast group address	Index	Boolean. • **true**—Specifies a multicast group address. • **false**—Does not specify a multicast group address.	N/A
Scope	Admin-scoped zone	Index	String, dotted decimal notation. Value range: 239.0.0.0 to 239.255.255.255.	N/A
MaskLen	Mask length	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 8 to 32.	
IpAddr	IP address of the C-BSR	N/A	String, dotted decimal notation.	During a create or merge operation, you must specify an IP address. If you specify an IP address during a delete or remove operation, the corresponding configuration is deleted. If you do not specify an IP address during a replace operation, the corresponding configuration is deleted.
HashLen	Hash mask length	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Priority	Priority of the C-BSR	N/A	Unsigned integer. Value range: 0 to 255.	N/A

PIM/Ipv4CRps

This table contains IPv4 PIM C-RP information.

XML structure

```
<PIM>
  <Ipv4CRps>
    <Ipv4CRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <AdvInterval></AdvInterval>
      <GroupPolicy></GroupPolicy>
      <HoldTime></HoldTime>
      <Priority></Priority>
      <BidirPim></BidirPim>
    </Ipv4CRp>
  </Ipv4CRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM

Item	Description
Table name	Ipv4CRps
Table type	Multi-instance table
Row name	Ipv4CRp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
AdvInterval	Interval of sending advertisement messages	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
HoldTime	Hold timer of the IPv4 PIM C-RP	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 150s.	N/A
Priority	Priority of the IPv4 PIM C-RP	N/A	Unsigned integer. Value range: 0 to 255. Default: 192.	N/A
BidirPim	Whether to use the IPv4 PIM C-RP for BIDIR-PIM	N/A	Boolean. • **true**—Use the C-RP for BIDIR-PIM. • false—Uses the C-RP for PIM-SM.	N/A

PIM/Ipv4StaticRps

This table contains IPv4 PIM static RP information.

XML structure

```
<PIM>
  <Ipv4StaticRps>
    <Ipv4StaticRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <GroupPolicy></GroupPolicy>
      <Preferred></Preferred>
      <BidirPim></BidirPim>
    </Ipv4StaticRp>
  </Ipv4StaticRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4StaticRps
Table type	Multi-instance table
Row name	Ipv4StaticRp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
Preferred	Whether to select the static RP preferentially	N/A	Boolean: • **true**—The static RP is preferred. • **false**—The dynamic RP is preferred.	N/A
BidirPim	Whether to use the static RP for BIDIR-PIM	N/A	Boolean: • **true**—Uses the static RP for	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			BIDIR-PIM. • **false**—Uses the static RP for PIM-SM.	

PIM/Ipv6Instances

This table contains IPv6 PIM instance information.

XML structure

```
<PIM>
  <Ipv6Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
      <RegisterPolicy></RegisterPolicy>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <SourcePolicy></SourcePolicy>
      <RpfFrrEnable></RpfFrrEnable>
      <RpfFrrAcl></RpfFrrAcl>
    </Instance>
  </Ipv6Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RegWholeChks	Checksum calculating rule for IPv6 PIM register message	N/A	Boolean: • **true**—Calculates the checksum based on an entire register message. • **false**—Calculates the checksum based on the header of a register message .	N/A
SsmPolicy	SSM group range	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63 characters.	N/A
RegisterPolicy	Register policy	N/A	ACL number: • Unsigned integer. • Value range: 3000 to 3999. ACL name: • String. • Length: 1 to 63 characters	N/A
HelloInterval	Interval of sending Hello message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
JoinPruneInterval	Interval for sending join/prune message in PIM view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds.	N/A
HelloHoldTime	Time of keep the reachable state of PIM neighbors in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
HelloLanDelay	Transmission delay of PIM message in shared network segment in PIM view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds.	N/A
HelloOverrideInterval	Time of pruning veto in PIM view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	view			
SourcePolicy	Source policy	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	N/A
RpfFrrEnable	Enabling status of IPv6 PIM FRR	N/A	Boolean. • **true**—Enabled. • **false**—Disabled.	N/A
RpfFrrAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. • Length: 1 to 63 characters.	This column can be specified only when the RpfFrrEnable column is true.

PIM/Ipv6Interfaces

This table contains IPv6 PIM interface information.

XML structure

```
<PIM>
  <Ipv6Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <IfName></IfName>
      <DistributedDr></DistributedDr>
      <HelloInterval></HelloInterval>
      <JoinPruneInterval></JoinPruneInterval>
      <HelloHoldTime></HelloHoldTime>
      <HelloLanDelay></HelloLanDelay>
      <HelloOverrideInterval></HelloOverrideInterval>
      <JoinPruneHoldTime></JoinPruneHoldTime>
      <Passive></Passive>
      <NeighborPolicy></NeighborPolicy>
      <JoinPolicy>
        <GeneralAcl></GeneralAcl>
        <AsmAcl></AsmAcl>
        <SsmAcl></SsmAcl>
      </JoinPolicy>
      <BsrBoundary></BsrBoundary>
```

```
      <TriggeredHelloPortDown></TriggeredHelloPortDown>
      <TriggeredHelloPortUp></TriggeredHelloPortUp>
      <TriggeredHelloDelay></TriggeredHelloDelay>
    </Interface>
  </Ipv6Interfaces>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
Mode	IPv6 PIM mode	N/A	Enumeration: • **1**—IPv6 PIM-SM. • **2**—IPv6 PIM-DM.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
DistributedDr	Whether to configure this VSI interface as a distributed DR interface	N/A	Boolean: • **true**—Configures the VSI interface as a distributed DR interface. • **false**—Not to configure the VSI interface as a distributed DR interface (default).	N/A
HelloInterval	Interval of sending Hello message in interface view	N/A	Unsigned integer. Value range: 0 to 18000, in seconds. Default: 30.	N/A
JoinPruneInterv	Interval for sending	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
al	join/prune message in interface view		Value range: 0 to 18000, in seconds. Default: 60.	
HelloHoldTime	Time of keep the reachable state of IPv6 PIM neighbors in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 105.	N/A
HelloLanDelay	Transmission delay of IPv6 PIM message in shared network segment in interface view	N/A	Unsigned integer. Value range: 1 to 32767, in milliseconds. Default: 500.	N/A
HelloOverrideInterval	Time of pruning veto in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in milliseconds. Default: 2500.	N/A
JoinPruneHoldTime	Hold time of joining/pruning state in interface view	N/A	Unsigned integer. Value range: 1 to 65535, in seconds. Default: 210.	N/A
Passive	IPv6 PIM passive mode	N/A	Boolean. • **true**—Enabled. **false**—Disabled (default).	IPv6 PIM-DM IPv6 PIM-SM
NeighborPolicy	ACL to filter Hello messages by source address	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. Length: 1 to 63 characters.	N/A
JoinPolicy	Filtering rules for adding information to IPv6 PIM join/prune message.	Data structure	Members include: • GeneralAcl. • AsmAcl. SsmAcl.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GeneralAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
AsmAcl	ACL number or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 3999. ACL name: • String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
SsmAcl	ACL number or ACL name	N/A	ACL number: Unsigned integer. Value range: 2000 to 3999. ACL name: String. Length: 1 to 63 characters.	This command does not take effect on IPv6 PIM-DM
BsrBoundary	Configure a IPv6 PIM-SM domain border (a bootstrap message boundary).	N/A	Boolean. • true—Enabled. • false—Disabled (default).	N/A
TriggeredHelloPortDown	IPv6 PIM hello triggered by port-down events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloPortUp	IPv6 PIM hello triggered by port-up events	N/A	Boolean. • **true**—Enabled. • **false**—Disabled (default).	N/A
TriggeredHelloDelay	Time of IPv6 PIM triggered hello delay	N/A	Unsigned integer. Value range: 1 to 60, in seconds. Default: 5.	N/A

PIM/Ipv6Nbrs

This table contains IPv6 PIM neighbor information.

XML structure

```
<PIM>
  <Ipv6Nbrs>
    <Nbr>
      <IfIndex></IfIndex>
      <NbrAddr></NbrAddr>
      <Uptime></Uptime>
      <Expires></Expires>
      <IfName></IfName>
    </Nbr>
  </Ipv6Nbrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Nbrs
Table type	Multi-instance table
Row name	Nbr
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
NbrAddr	IPv6 address of an IPv6 PIM neighbor	Index	Hexadecimal string, colon-separated.	Example: 2100::1.
Uptime	Length of time the IPv6 PIM neighbor has been up	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining lifetime of the IPv6 PIM	N/A	Unsigned integer (in seconds).	The value of 0xFFFFFFFF means that the IPv6 PIM

Column name	Column description	Column type	Data type and restrictions	Remarks
	neighbor			neighbor is always up and reachable.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

PIM/Ipv6CBsrs

This table contains IPv6 PIM C-BSR information.

XML structure

```
<PIM>
  <Ipv6CBsrs>
    <Ipv6CBsr>
      <VRF></VRF>
      <ScopeId></ScopeId>
      <IpAddr></IpAddr>
      <HashLen></HashLen>
      <Priority></Priority>
    </Ipv6CBsr>
  </Ipv6CBsrs>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6CBsrs
Table type	Multi-instance table
Row name	Ipv6CBsr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicatesthe public network.
ScopeId	ID of admin-scoped zone	Index	Unsigned integer. Value range: 0, 3 to 15.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddr	IPv6 address of the C-BSR	N/A	Hexadecimal string, colon-separated.	N/A
HashLen	Hash mask length	N/A	Unsigned integer. Value range: 0 to 128.	N/A
Priority	Priority of the C-BSR	N/A	Unsigned integer. Value range: 0 to 255.	N/A

PIM/Ipv6CRps

This table contains IPv6 PIM C-RP information.

XML structure

```
<PIM>
  <Ipv6CRps>
    <Ipv6CRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <AdvInterval></AdvInterval>
      <GroupPolicy></GroupPolicy>
      <HoldTime></HoldTime>
      <Priority></Priority>
      <BidirPim></BidirPim>
      <ScopeId></ScopeId>
    </Ipv6CRp>
  </Ipv6CRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6CRps
Table type	Multi-instance table
Row name	Ipv6CRp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance	Index	String.	An empty string

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 0 to 31 characters.	indicates the public network.
IpAddr	IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1111::11.
AdvInterval	Interval of sending advertisement messages	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
HoldTime	Hold timer of the IPv6 PIM C-RP	N/A	Unsigned integer. Value range: 1 to 65535, in seconds.	N/A
Priority	Priority of the IPv6 PIM C-RP	N/A	Unsigned integer. Value range: 0 to 255.	N/A
BidirPim	Whether to use the IPv6 PIM C-RP for BIDIR-PIM	N/A	Boolean. • **true**—Use the C-RP for BIDIR-PIM. • **false**—Uses the C-RP for PIM-SM.	N/A
ScopeId	ID of an admin-scope zone	N/A	Unsigned integer. Value range: 3 to 15.	N/A

PIM/Ipv6StaticRps

This table contains IPv6 PIM static RP information.

XML structure

```
<PIM>
  <Ipv6StaticRps>
    <Ipv6StaticRp>
      <VRF></VRF>
      <IpAddr></IpAddr>
      <GroupPolicy></GroupPolicy>
      <Preferred></Preferred>
      <BidirPim></BidirPim>
    </Ipv6StaticRp>
  </Ipv6StaticRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6StaticRps
Table type	Multi-instance table
Row name	Ipv6StaticRp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
IpAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1111::11.
GroupPolicy	ACL number. or ACL name	N/A	ACL number: • Unsigned integer. • Value range: 2000 to 2999. ACL name: • String. • Length: 1 to 63.	N/A
Preferred	Whether to select the static RP preferentially	N/A	Boolean: • **true**—The static RP is preferred. • **false**—The dynamic RP is preferred.	N/A
BidirPim	Whether to use the static RP for BIDIR-PIM	N/A	Boolean: • **true**—Uses the static RP for BIDIR-PIM. • **false**—Uses the static RP for PIM-SM.	N/A

PIM/Ipv4Globals

This table contains global IPv4 PIM configtion information.

XML structure

```
<PIM>
  <Ipv4Globals>
    <Ipv4Global>
      <NonStopRoutingEnable></NonStopRoutingEnable>
```

```
      <NbrDownStatistics></NbrDownStatistics>
    </Ipv4Global>
  </Ipv4Globals>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Globals
Table type	Single-instance table
Row name	Ipv4Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NsrEnable	Whether to enable the PIM NSR	N/A	Boolean: • **true**—Enable PIM NSR. • **false**—Disnable PIM NSR.	N/A
NbrDownStatistics	The total count of PIM neighbour down	N/A	Unsigned integer.	N/A

PIM/Ipv6Globals

This table contains global IPv6 PIM configtion information.

XML structure

```
<PIM>
  <Ipv6Globals>
    <Ipv6Global>
      <NonStopRoutingEnable></NonStopRoutingEnable>
      <NbrDownStatistics></NbrDownStatistics>
    </Ipv6Global>
  </Ipv6Globals>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6Globals
Table type	Single-instance table
Row name	Ipv6Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NsrEnable	Whether to enable the IPv6 PIM NSR	N/A	Boolean: • **true**—Enable PIM NSR. • **false**—Disnable PIM NSR.	N/A
NbrDownStatistics	The total count of IPv6 PIM neighbour down	N/A	Unsigned integer.	N/A

PIM/Ipv4AnycastRps

This table contains IPv4 PIM Anycast-RP information.

XML structure

```
<PIM>
  <Ipv4AnycastRps>
    <Ipv4AnycastRp>
      <VRF></VRF>
      <RpAddr></RpAddr>
      <MemberAddr></MemberAddr>
    </Ipv4AnycastRp>
  </Ipv4AnycastRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4AnycastRps
Table type	Multi-instance table

Item	Description
Row name	Ipv4AnycastRps
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RpAddr	IPv4 address	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1.
MemberAddr	IPv4 address	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1.

PIM/Ipv6AnycastRps

This table contains IPv6 PIM Anycast-RP information.

XML structure

```
<PIM>
  <Ipv6AnycastRps>
    <Ipv6AnycastRp>
      <VRF></VRF>
      <RpAddr></RpAddr>
      <MemberAddr></MemberAddr>
    </Ipv6AnycastRp>
  </Ipv6AnycastRps>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv6AnycastRps
Table type	Multi-instance table
Row name	Ipv6AnycastRps
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RpAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 100::1
MemberAddr	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 100::2

Contents

PIM 1
PIM/Instances 1
PIM/Interfaces 1
PIM/Ipv4Nbrs 2
PIM/Ipv4CBsrs 2
PIM/Ipv4CRps 2
PIM/Ipv4StaticRps 3
PIM/Ipv6Instances 3
PIM/Ipv6Interfaces 4
PIM/Ipv6Nbrs 4
PIM/Ipv6CRps 5
PIM/Ipv6CBsrs 5
PIM/Ipv6StaticRps 5
PIM/Ipv4AnycastRps 6
PIM/Ipv6AnycastRps 6

PIM

PIM/Instances

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready. PIM尚未就绪。	During executing set operation, PIM does not fully start up. 对该表进行配置时，PIM还未完全启动。
PIM is not enabled. PIM协议尚未开启。	During executing set operation, the system failed to create PIM view because of insufficient resources. 对该表进行配置时，资源不足，导致创建PIM视图失败。
VPN instance does not exist. 该VPN不存在。	During executing set operation，the VPN instance does not exist. 对该表进行配置时，指定的VPN不存在。
ACL is input illegally. ACL输入不合法。	During executing set operation, ACL is input illegally. 对该表进行配置时，ACL输入不合法。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the configured VPN instance was not found in the existing VPNs, resulting in configuration failure. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
The RpfFrrEnable column must first be configured to TRUE. RpfFrrEnable 列必须首先配置为 TRUE。	The RpfFrrEnable column must first be configured to TRUE. RpfFrrEnable列必须首先配置为TRUE。

PIM/Interfaces

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready. PIM尚未就绪。	During executing set operation, PIM does not fully start up. 对该表进行配置时，PIM还未完全启动。
PIM-DM and PIM-SM can't coexist in the same VRF. 同一VRF内不能同时配置PIM-SM和PIM-DM。	The PIM mode of this interface must be the same as the PIM mode on other interfaces that belong to the same VPN instance. If no other interface exists or the PIM mode of other interfaces is not set, you can set the desired PIM mode on this interface as you want. 该接口的mode只能跟同一VRF下所属的其他接口mode保持一致。若此VRF下不存在其他接口或存在接口但没有设置mode，则该接口的mode可以任意设置；若存在已设置mode的接口， 只能跟其保持一致。
PIM is not enabled on this interface. 接口上的PIM协议尚未开启。	Failed to enable PIM on the interface because of resource insufficiency.

	资源不足，导致接口上使能PIM协议失败。
ACL is input illegally. ACL输入不合法。	During executing set operation, ACL is input illegally. 对该表进行配置时，ACL输入不合法。
General-policy in the join-policy group cannot be configured with other members in the meantime. join-policy组内general-policy不能与其他成员同时下发。	During executing set operation, general-policy in the join-policy group cannot be configured with other members in the meantime. 对该表进行配置时，join-policy组内general-policy不能与其他成员同时下发。
The current interface does not support TriggerHelloPortDown or TriggerHelloPortUp. 当前接口不支持配置TriggerHelloPortDown和TriggerHelloPortUp。	Only VLAN interfaces support TriggerHelloPortDown and TriggerHelloPortUp. 只有VLAN虚接口支持配置TriggerHelloPortDown和TriggerHelloPortUp。

PIM/Ipv4Nbrs

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready. PIM尚未就绪。	During executing set operation, PIM does not fully start up. 对该表进行配置时，PIM还未完全启动。

PIM/Ipv4CBsrs

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, the specified PIM view does not exist, resulting in configuration failure. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the configured VPN instance was not found in the existing VPNs, resulting in configuration failure. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
IP address is not configured. IP地址未配置。	During executing create or merge operation, you must specify an IP address. 下发create、merge操作时未指定IpAddr属性列和属性值。

PIM/Ipv4CRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, the specified PIM view does not exist , resulting in configuration failure. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the configured VPN instance was not found in the existing VPNs, resulting in configuration failure. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致

	配置失败。
Ip address is illegal. ip地址不合法。	During executing set operation, the IP address specified for the RP is not in the given IP address range. 对该表进行配置时，下发的ip地址不符合ip地址的下发范围，导致配置失败。
ACL is input illegally. ACL 输入不合法。	During executing set operation, ACL is input illegally. 对该表进行配置时，ACL输入不合法。

PIM/Ipv4StaticRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, The specified PIM view does not exist, resulting in configuration failure. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, the configured VPN instance was not found in the existing VPNs, resulting in configuration failure. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
Ip address is illegal. ip地址不合法。	During executing set operation, the IP address specified for the RP is not in the given IP address range, resulting in configuration failure. 对该表进行配置时，下发的ip地址不符合ip地址的下发范围，导致配置失败。
Both ACL number and RP IP address are already in use. ACL和RP ip地址均被占用。	During executing set operation, both the ACL number and the RP IP address are already in use, resulting in configuration failure. 对该表进行配置时，下发的ACL和RP ip地址都已经在使用中，导致配置失败。
ACL is input illegally. ACL输入不合法。	During executing set operation, ACL is input illegally. 对该表进行配置时，ACL输入不合法。

PIM/Ipv6Instances

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready. PIM尚未就绪。	During executing set operation, PIM does not fully start up. 对该表进行配置时，PIM还未完全启动。
PIM is not enabled. PIM协议尚未开启。	During executing set operation, the system failed to create PIM view because of insufficient resources. 对该表进行配置时，资源不足，导致创建PIM视图失败。
VPN instance does not exist. 该VPN不存在。	During executing set operation，the VPN instance does not exist. 对该表进行配置时，指定的VPN不存在。

VPN instance does not exist. VPN实例不存在。	During executing set operation, the configured VPN instance was not found in the existing VPNs, resulting in configuration failure. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
The RpfFrrEnable column must first be configured to TRUE. RpfFrrEnable 列必须首先配置为 TRUE。	The RpfFrrEnable column must first be configured to TRUE. RpfFrrEnable列必须首先配置为TRUE。

PIM/Ipv6Interfaces

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready. PIM尚未就绪。	During executing set operation, PIM does not fully start up. 对该表进行配置时，PIM还未完全启动。
PIM-DM and PIM-SM can't coexist in the same VRF. 同一VRF内不能同时配置PIM-SM和PIM-DM。	During executing replace or merge operation for the PIM mode on this interface, PIM-SM or PIM-DM mode is already configured. Before setting the new mode, you must delete or remove the previous mode. 通过replace或者merge操作更改接口下mode时，接口下已经配置了PIM-SM或者PIM-DM。更改时需要先去使能之前的mode，再配置新的mode。
PIM is not enabled on this interface. 接口上的PIM协议尚未开启。	The system failed to enable PIM on this interface because of insufficient resources. 资源不足，导致接口上使能PIM协议失败。
The ACL is input illegally. ACL输入不合法。	During a set operation, the ACL is input illegally. 对该表进行配置时，ACL输入不合法。
the general policy in the join-policy group cannot be configured with other members in the meantime. join-policy组内general-policy不能与其他成员同时下发。	During a set operation, the general policy in the join-policy group cannot be configured with other members in the meantime. 对该表进行配置时，join-policy组内general-policy不能与其他成员同时下发。
The current interface does not support TriggerHelloPortDown or TriggerHelloPortUp. 当前接口不支持配置TriggerHelloPortDown和TriggerHelloPortUp。	Only VLAN interfaces support TriggerHelloPortDown and TriggerHelloPortUp. 只有VLAN接口支持配置TriggerHelloPortDown和TriggerHelloPortUp。

PIM/Ipv6Nbrs

Message	Explanation
PIM is not configured. PIM尚未配置。	During executing set operation, PIM is not configured. 对该表进行配置时，PIM 还未配置。
PIM is not ready.	During executing set operation, PIM does not fully start up.

PIM尚未就绪。	对该表进行配置时，PIM还未完全启动。

PIM/Ipv6CRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, configuration failed because the specified PIM view does not exist. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, configuration failed because the VPN instance does not exist. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
Ip address is illegal. ip地址不合法。	During executing set operation, the IP address specified for the RP is not in the valid IP address range. 对该表进行配置时，下发的IP地址不符合IP地址的下发范围，导致配置失败。
ACL is input illegally. ACL 输入不合法。	During executing set operation, the specified ACL is invalid. 对该表进行配置时，ACL输入不合法。
GroupPolicy and ScopeId column cannot be configured at the same time. 无法同时配置 GroupPolicy 和 ScopeId 属性列。	During executing set operation, the GroupPolicy and ScopeId column cannot be configured at the same time. 对该表进行配置时，不能同时配置 GroupPolicy 和 ScopeId 属性列。

PIM/Ipv6CBsrs

Message	Explanation
The specified PIM view does not exist.指定的PIM视图不存在。	During executing set operation, configuration failed because the specified PIM view does not exist. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, configuration failed because the VPN instance does not exist. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
IP address is not configured. IP地址未配置。	During executing create or merge operation, you must specify an IP address. 下发create、merge操作时未指定IpAddr属性列和属性值。

PIM/Ipv6StaticRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, configuration failed because the specified PIM view does not exist. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist.	During executing set operation, configuration failed because the

VPN实例不存在。	VPN instance does not exist. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
Ip address is illegal. ip地址不合法。	During executing set operation, configuration failed because the IP address specified for the RP is not in the valid IP address range. 对该表进行配置时，下发的ip地址不符合ip地址的下发范围，导致配置失败。
Both ACL number and RP IP address are already in use. ACL和RP ip地址均被占用。	During executing set operation, configuration failed because both the ACL number and the RP IP address are already in use 对该表进行配置时，下发的ACL和RP ip地址都已经在使用中，导致配置失败。
ACL is input illegally. ACL输入不合法。	During executing set operation, the specified ACL is invalid. 对该表进行配置时，ACL输入不合法。

PIM/Ipv4AnycastRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During executing set operation, configuration failed because the specified PIM view does not exist. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
VPN instance does not exist. VPN实例不存在。	During executing set operation, configuration failed because the VPN instance does not exist. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
Ip address is illegal. ip地址不合法。	During executing set operation, the IP address specified for the RP is not in the valid IP address range. 对该表进行配置时，下发的IP地址不符合IP地址的下发范围，导致配置失败。
The Anycast-RP member address can't be equal to the Anycast-RP address. Anycast RP成员地址不能等于Anycast RP地址。	The Anycast-RP member address can't be equal to the Anycast-RP address. Anycast RP成员地址不能等于Anycast RP地址。

PIM/Ipv6AnycastRps

Message	Explanation
The specified PIM view does not exist. 指定的PIM视图不存在。	During a set operation, configuration failed because the specified PIM view does not exist. 对该表进行配置时，指定的PIM视图不存在，导致配置失败。
The VPN instance does not exist. VPN实例不存在。	During a set operation, configuration failed because the VPN instance does not exist. 对该表进行配置时，配置的VPN实例在已有的VPN里未找到，导致配置失败。
The IP address is illegal. ip地址不合法。	During a set operation, the IP address specified for the RP is not in the valid IP address range. 对该表进行配置时，下发的IP地址不符合IP地址的下发范围，导致

	配置失败。
The Anycast-RP member address cannot be the same as the Anycast-RP address. Anycast RP成员地址不能等于Anycast RP地址。	The Anycast-RP member address cannot be the same as the Anycast-RP address. Anycast RP成员地址不能等于Anycast RP地址。

Contents

PIMSnooping 1
PIMSnooping/Ipv4VLANs 1
XML structure 1
Table description 1
Columns 1
PIMSnooping/ Ipv4VSIs 2
XML structure 2
Table description 2
Columns 3
PIMSnooping/Ipv6VSIs 3
XML structure 3
Table description 4
Columns 4

PIMSnooping

PIMSnooping/Ipv4VLANs

This table contains Ipv4 PIM Snooping for VLANs.

XML structure

```
<PIMSnooping>
  <Ipv4VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VLAN>
  </Ipv4VLANs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv4VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Set PIM snooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
JoinAgingTime	Set the aging time for global downstream ports and global router ports on the new active MPU after an active/standby switchover.	N/A	Unsigned integer. Value range: 210 to18000.	N/A
NeighborPortAgingTime	Set the aging time for global neighbor ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 105 to18000.	N/A

PIMSnooping/ Ipv4VSIs

This table contains Ipv4 PIM Snooping VSIs.

XML structure

```
<PIMSnooping>
  <Ipv4VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VSI>
  </Ipv4VSIs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv4VSIs
Table type	Multi-instance table
Row name	VSI

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSIName	VSI name.	Index	String. Length: 0 to 31 characters.	N/A
Enabled	Set PIM snooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
JoinAgingTime	Set the aging time for global downstream ports and global router ports on the new active MPU after an active/stand by switchover.	N/A	Unsigned integer. Value range: 210 to18000.	N/A
NeighborPortAgingTime	Set the aging time for global neighbor ports on the new active MPU after an active/stand by switchover.	N/A	Unsigned integer. Value range: 105 to18000.	N/A

PIMSnooping/Ipv6VSIs

This table contains information about IPv6 PIM snooping for VSIs.

XML structure

```
<PIMSnooping>
  <Ipv6VSIs>
    <VSI>
```

```
      <VsiName></VsiName>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VSI>
  </Ipv6VSIs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv6VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSIName	VSI name.	Index	String. Length: 0 to 31 characters.	N/A

Contents

PIMSnooping 1
PIMSnooping/Ipv4VLANs 1
XML structure 1
Table description 1
Columns 2
PIMSnooping/Ipv4VSIs 2
XML structure 2
Table description 3
Columns 3
PIMSnooping/Ipv6VSIs 3
XML structure 4
Table description 4
Columns 4

PIMSnooping

PIMSnooping/Ipv4VLANs

This table contains Ipv4 PIM Snooping for VLANs.

XML structure

```
<PIMSnooping>
  <Ipv4VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VLAN>
  </Ipv4VLANs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv4VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set PIM Snooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
JoinAgingTime	Set the aging time for global downstream ports and global router ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 210 to18000.	N/A
NeighborPortAgingTime	Set the aging time for global neighbor ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 105 to18000.	N/A

PIMSnooping/Ipv4VSIs

This table contains Ipv4 PIM Snooping forVSIs.

XML structure

```
<PIMSnooping>
  <Ipv4VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VSI>
  </Ipv4VSIs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv4VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSIName	VSI name.	Index	String. Length: 0 to 31 characters.	N/A
Enabled	Set PIMsnooping state for specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
JoinAgingTime	Set the aging time for global downstream ports and global router ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 210 to18000.	N/A
NeighborPortAgingTime	Set the aging time for global neighbor ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 105 to18000.	N/A

PIMSnooping/Ipv6VSIs

This table contains information about IPv6 PIM snooping for VSIs.

XML structure

```
<PIMSnooping>
  <Ipv6VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <JoinAgingTime></JoinAgingTime>
      <NeighborPortAgingTime></NeighborPortAgingTime>
    </VSI>
  </Ipv6VSIs>
</PIMSnooping>
```

Table description

Item	Description
Feature name	PIMSnooping
Table name	Ipv6VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSIName	VSI name.	Index	String. Length: 0 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Set the PIM snooping state for the specified VLAN.	N/A	Enumeration: • **disable**(default) • **enable**	N/A
JoinAgingTime	Set the aging time for global downstream ports and global router ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 210 to18000.	N/A
NeighborPortAgingTime	Set the aging time for global neighbor ports on the new active MPU after an active/standby switchover	N/A	Unsigned integer. Value range: 105 to18000.	N/A

Contents

Ping 1
Ping/IPv4Ping 1
XML structure 1
Responsed XML structure 1
Table description 2
Columns 2
Responsed columns 3
Ping/IPv4PingDisable 4
XML structure 4
Table description 5
Columns 5

Ping

Ping/IPv4Ping

This table is used to test the reachability of an IPv4 address.

XML structure

```
<Ping>
  <IPv4Ping>
    <PingTest>
      <Host></Host>
      <VRF></VRF>
      <OutputInterface></OutputInterface>
      <SourceIpAddress></SourceIpAddress>
      <SendInterval></SendInterval>
      <TTLValue></TTLValue>
      <SendPacketsNum></SendPacketsNum>
      <PacketSize></PacketSize>
      <TosValue></TosValue>
      <PatternString></PatternString>
      <ReplyTimeOut></ReplyTimeOut>
      <UnreachableReturn></UnreachableReturn>
    </PingTest>
  </IPv4Ping>
</Ping>
```

Responsed XML structure

```
<Ping>
  <IPv4Ping>
    <PingTest>
      <Host></Host>
      <PayloadLength></PayloadLength>
      <EchoReply>
        <IcmpSequence></IcmpSequence>
        <TTLValue></TTLValue>
        <ReplyTime></ReplyTime>
      </EchoReply>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <SendFailPacket></SendFailPacket>
      <TimeoutPacket></TimeoutPacket>
      <TotalLossPacket></TotalLossPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
```

```
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
      <StandardDeviation></StandardDeviation>
    </PingTest>
  </IPv4Ping>
</Ping>
```

Table description

Item	Description
Feature name	Ping
Table name	IPv4Ping
Table type	Multi-instance table
Row name	PingTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address or host name of a remote system	Index	String. Length: 1 to 253 characters.	Example: 1.1.1.1 or hostname.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OutputInterface	Name of the outgoing interface	N/A	String. Length: 0 to 46 characters.	An empty string indicates that no outgoing interface is specified.
SourceIpAddress	Source IPv4 address of echo requests	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
SendInterval	Interval for sending echo requests	N/A	Unsigned integer. Value range: 1 to 65535 milliseconds.	Default: 200 milliseconds.
TTLValue	TTL value of echo requests	N/A	Unsigned integer. Value range: 1 to 255.	Default: 255.
SendPacketsNum	Number of echo requests that are sent to the destination	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default: 5. If the value is larger than 1000, the system might fail to return the probe result because of packet timeout or fail to perform the ping operation.
PacketSize	Payload length	N/A	Unsigned integer. Value range: 20 to 9600 bytes.	Default: 56 bytes.

Column name	Column description	Column type	Data type and restrictions	Remarks
TosValue	ToS value of echo requests	N/A	Unsigned integer. Value range: 0 to 255.	Default: 0.
PatternString	Value of the **pad** field in an echo request, in hexadecimal format	N/A	String. Length: 1 to 8 hexadecimal characters.	If the specified value is less than 8 bits, 0s are added in front of the value to extend it to 8 bits. For example, if this column is configured as 2f, then the packets are padded with 0000002f to make the total length of the packet meet the requirements of the device.
ReplyTimeOut	Timeout time of the reply to an echo request	N/A	Unsigned integer. Value range: 0 to 65535 milliseconds.	Default: 2000 milliseconds.
UnreachableReturn	Whether to return the unreachable probe result immediately after the system detects that the destination is unreachable through the first echo request	N/A	Unsigned integer: • 1—Returns the unreachable result immediately. • 0—Returns the unreachable result after all echo results time out.	Default:0 If OutputInterface is specified, this configuration will not take effect.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address of the remote system	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
PayloadLength	Payload length	N/A	Unsigned integer. Value range: 20 to 9600 bytes.	N/A
EchoReply	Echo reply information	Data structure	Members include: • IcmpSequence. • TTLValue. • ReplyTime.	N/A
IcmpSequence	Sequence of an echo reply	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
TTLValue	TTL value of an echo reply	N/A	Unsigned integer. Value range: 1 to 255.	N/A
ReplyTime	Response time of an echo reply	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If the value is 4294967295, the echo reply has timed out.
TotalTransmit	Number of sent ICMP echo	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Packet	requests		Value range: 1 to 4294967295.	
TotalReceivePacket	Number of received ICMP echo replies	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SendFailPacket	Number of ICMP echo requests that failed to be sent	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
TimeoutPacket	Number of timeout ICMP echo replies	N/A.	Unsigned integer. Value range: 0 to 4294967295.	N/A
TotalLossPacket	Number of ICMP echo requests that do not have ICMP echo replies	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LossRate	Percentage of unacknowledged packets to the total sent packets	N/A	Unsigned integer. Value range: 0 to 100.	N/A
MinReplyTime	Minimum response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
MaxReplyTime	Maximum response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
AvgReplyTime	Average response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
StandardDeviation	Standard deviation response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.

Ping/IPv4PingDisable

Use this table to stop ping operations.

XML structure

```
<Ping>
  <IPv4PingDisable>
    <PingDisable>
      <Name></Name>
      <Sequence></Sequence>
    </PingDisable>
  </IPv4PingDisable>
```

```
</Ping>
```

Table description

Item	Description
Feature name	Ping
Table name	IPv4PingDisable
Table type	Multi-instance table
Row name	PingDisable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the NETCONF client	Index	String. Length: 1 to 64 characters.
Sequence	Sequence of the NETCONF client	Index	Unsigned integer. Value range: 1 to 4294967295.

Contents

Ping 1
Ping/IPv4Ping 1
Ping/IPv4PingDisable 1
Ping/PingEvent 2

Ping

Ping/IPv4Ping

Message	Explanation
Unknown host. 未知主机.	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
Destination network unreachable. 目标网络不可达。	Destination network unreachable.
Destination host unreachable. 目的主机不可达。	Destination host unreachable.
Destination protocol unreachable. The protocol number is unknown. 目标协议不可达（未知的协议号）。	Destination protocol unreachable. The protocol number is unknown.
Destination port unreachable. 目标端口不可达。	Destination port unreachable.
Source routing failed. 源路由失败。	Source routing failed.
Communication administratively prohibited by filtering policies. 通信被过滤策略禁止。	Communication administratively prohibited by filtering policies.
Destination unreachable. 目标不可达。	Destination unreachable.
Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device. 需要进行分片但中间设备设置了不分片导致的不可达。	Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device.
Unknown source host. 未知的源主机。	The specified source host must exist.

Ping/IPv4PingDisable

Message	Explanation
The specified object doesn't exist. 指定的对象不存在。	The specified object does not exist.

Ping/PingEvent

Message	Explanation
Unknown host. 未知主机.	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
Destination network unreachable. 目标网络不可达。	Destination network unreachable.
Destination host unreachable. 目的主机不可达。	Destination host unreachable.
Destination protocol unreachable. The protocol number is unknown. 目标协议不可达（未知的协议号）。	Destination protocol unreachable. The protocol number is unknown.
Destination port unreachable. 目标端口不可达。	Destination port unreachable.
Source routing failed. 源路由失败。	Source routing failed.
Communication administratively prohibited by filtering policies. 通信被过滤策略禁止。	Communication administratively prohibited by filtering policies.
Destination unreachable. 目标不可达。	Destination unreachable.
Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device. 需要进行分片但中间设备设置了不分片导致的不可达。	Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device.
Unknown source host. 未知的源主机。	The specified source host must exist.
The specified object already exists. 指定的对象已存在。	The specified object already exists.

Contents

Ping 1
Ping event 1
XML structure for event subscription 1
XML structure for event report 3

Ping

Ping event

This table is used to report ping information for an IPv4 ping operation.

XML structure for event subscription

```
<PingEvent>
  <PingInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <VRF></VRF>
    <OutputInterface></OutputInterface>
    <SourceIpAddress></SourceIpAddress>
    <SendInterval></SendInterval>
    <TTLValue></TTLValue>
    <SendPacketsNum></SendPacketsNum>
    <PacketSize></PacketSize>
    <TosValue></TosValue>
    <PatternString></PatternString>
    <ReplyTimeOut></ReplyTimeOut>
  </PingInfo>
</PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PING</stream>
    <filter type="subtree">
      <PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/ping:1.0">
        <PingInfo>
          <Name></Name>
          <Sequence></Sequence>
          <Host></Host>
          <VRF></VRF>
          <OutputInterface></OutputInterface>
          <SourceIpAddress></SourceIpAddress>
          <SendInterval></SendInterval>
          <TTLValue></TTLValue>
          <SendPacketsNum></SendPacketsNum>
          <PacketSize></PacketSize>
          <TosValue></TosValue>
          <PatternString></PatternString>
```

```
        <ReplyTimeOut></ReplyTimeOut>
      </PingInfo>
    </PingEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PING
Event name	PingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address or host name of a remote system	String. Length: 1 to 253 characters.	No
VRF	VPN instance name	String. Length: 0 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
SourceIpAddress	Source IPv4 address of echo requests	IPv4: String, dotted decimal notation.	No
SendInterval	Interval for sending echo requests	Unsigned integer. Value range: 1 to 65535 milliseconds.	No
TTLValue	TTL value of echo requests	Unsigned integer. Value range: 1 to 255.	No
SendPacketsNum	Number of echo requests that are sent to the destination	Unsigned integer. Value range: 1 to 4294967295.	No
PacketSize	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	No
TosValue	ToS value of echo requests	Unsigned integer. Value range: 0 to 255.	No
PatternString	Value of the **pad** field in an echo request, in hexadecimal format	String. Length: 1 to 8 hexadecimal characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 0 to 65535 milliseconds.	No

XML structure for event report

```
<PingEvent>
  <PingInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <IcmpSequence></IcmpSequence>
    <TTLValue></TTLValue>
    <ReplyTime></ReplyTime>
  </PingInfo>
</PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/ping:1.0">
    <PingInfo>
      <Name>a</Name>
      <Sequence>1</Sequence>
      <Host>1.2.3.4</Host>
      <PayloadLength>200</PayloadLength>
      <IcmpSequence>33</IcmpSequence>
      <TTLValue>254</TTLValue>
      <ReplyTime>1000</ReplyTime>
    </PingInfo>
  </PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address of the remote system	String. Length: 1 to 253 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
PayloadLength	PayloadLength	Unsigned integer. Value range: 20 to 9600 bytes.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
TTLValue	TTL value of an echo reply	Unsigned integer. Value range: 1 to 255.	No
ReplyTime	Response time of an echo reply	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

```
<PingEvent>
  <PingInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <SendFailPacket></SendFailPacket>
    <TimeoutPacket></TimeoutPacket>
    <TotalLossPacket></TotalLossPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    <StandardDeviation></StandardDeviation>
    <ExecutionState> </ExecutionState>
  </PingInfo>
</PingEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/ping:1.0">
    <PingInfo>
      <Name>a</Name>
      <Sequence>1</Sequence>
      <Host>4.4.4.4</Host>
      <PayloadLength>56</PayloadLength>
      <TotalTransmitPacket>5</TotalTransmitPacket>
      <TotalReceivePacket>5</TotalReceivePacket>
      <SendFailPacket>0</SendFailPacket>
```

```
      <TimeoutPacket>0</TimeoutPacket>
      <TotalLossPacket>0</TotalLossPacket>
      <LossRate>0</LossRate>
      <MinReplyTime>1000</MinReplyTime>
      <MaxReplyTime>2000</MaxReplyTime>
      <AvgReplyTime>1400</AvgReplyTime>
      <StandardDeviation>489</StandardDeviation>
      <ExecutionState>true</ExecutionState>
    </PingInfo>
  </PingEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address of the remote system	String. Length: 1 to 253 characters.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
SendFailPacket	Number of ICMP echo requests that failed to be sent	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TotalLossPacket	Number of ICMP echo requests that do not have ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

Column name	Column description	Data type and restrictions	Support for extended queries
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
StandardDeviation	Standard deviation response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
ExecutionState	Execution result of this operation	Boolean: • **true**—Successful. • **false**—Failed.	No

Contents

Ping6 1
Ping6/IPv6Ping 1
XML structure 1
Responsed XML structure 1
Table description 2
Columns 2
Responsed columns 3
Ping6/IPv6PingDisable 4
XML structure 4
Table description 4
Columns 5

Ping6

Ping6/IPv6Ping

This table is used to test the reachability of an IPv6 address.

XML structure

```
<Ping6>
  <IPv6Ping>
    <PingTest>
      <Host></Host>
      <VRF></VRF>
      <OutputInterface></OutputInterface>
      <SourceIpv6Address></SourceIpv6Address>
      <SendInterval></SendInterval>
      <SendPacketsNum></SendPacketsNum>
      <PacketSize></PacketSize>
      <TrafficClass></TrafficClass>
      <ReplyTimeOut></ReplyTimeOut>
      <UnreachableReturn></UnreachableReturn>
    </PingTest>
  </IPv6Ping>
</Ping6>
```

Responsed XML structure

```
<Ping6>
  <IPv6Ping>
    <PingTest>
      <Host></Host>
      <SrcAddr></SrcAddr>
      <PayloadLength></PayloadLength>
      <EchoReply>
        <IcmpSequence></IcmpSequence>
        <HopLimitValue></HopLimitValue>
        <ReplyTime></ReplyTime>
      </EchoReply>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <SendFailPacket></SendFailPacket>
      <TimeoutPacket></TimeoutPacket>
      <TotalLossPacket></TotalLossPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
```

```
      <AvgReplyTime></AvgReplyTime>
      <StandardDeviation></StandardDeviation>
    </PingTest>
  </IPv6Ping>
</Ping6>
```

Table description

Item	Description
Feature name	Ping6
Table name	IPv6Ping
Table type	Multi-instance table
Row name	PingTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address or host name of a remote system	Index	String. Length: 1 to 253 characters.	Example: 1::1 or host name.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OutputInterface	Name of the outgoing interface	N/A	String. Length: 0 to 46 characters.	An empty string indicates that no outgoing interface is specified.
SourceIpv6Address	Source IPv6 address of echo requests	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
SendInterval	Interval for sending echo requests	N/A	Unsigned integer. Value range: 1 to 65535 milliseconds.	Default: 200 milliseconds.
SendPacketsNum	Number of echo requests that are sent to the destination	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default: 5. If the value is larger than 1000, the system might fail to return the probe result because of packet timeout or fail to perform the ping operation.
PacketSize	Payload length	N/A	Unsigned integer. Value range: 20 to 9600 bytes.	Default: 56 bytes.
TrafficClass	Traffic class value in an echo request	N/A	Unsigned integer. Value range: 0 to 255.	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
ReplyTimeOut	Timeout time of the reply to an echo request	N/A	Unsigned integer. Value range: 0 to 65535 milliseconds.	Default: 2000 milliseconds.
Unreachable Return	Whether to return the unreachable probe result immediately after the system detects that the destination is unreachable through the first echo request	N/A	Unsigned integer: • **1**—Returns the unreachable result immediately. • **0**—Returns the unreachable result after all echo results time out.	Default: 0. If OutputInterface is specified, this configuration will not take effect.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address of the remote system	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
SrcAddr	IPv6 source address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
PayloadLength	Payload length	N/A	Unsigned integer. Value range: 20 to 9600 bytes.	N/A
EchoReply	Echo reply information	Data structure	Members include: • IcmpSequence. • HopLimitValue. • ReplyTime.	N/A
IcmpSequence	Sequence of an echo reply	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
HopLimitValue	Hop limit value of an echo reply	N/A	Unsigned integer. Value range: 1 to 255.	N/A
ReplyTime	Response time of an echo reply	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If the value is 4294967295, the echo reply has timed out.
TotalTransmitPacket	Number of sent ICMPv6 echo requests	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TotalReceivePacket	Number of received ICMPv6 echo replies	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SendFailPacket	Number of ICMP echo requests that failed to be sent	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeoutPacket	Number of timeout ICMP echo replies	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
TotalLossPacket	Number of ICMP echo requests that do not have ICMP echo replies	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LossRate	Percentage of unacknowledged packets to the total sent packets	N/A	Unsigned integer. Value range: 0 to 100.	N/A
MinReplyTime	Minimum response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
MaxReplyTime	Maximum response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
AvgReplyTime	Average response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.
StandardDeviation	Standard deviation response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If LossRate is 100, the value in this column is insignificant.

Ping6/IPv6PingDisable

Use this table to stop IPv6 ping operations.

XML structure

```
<Ping6>
  <IPv6PingDisable>
    <PingDisable>
      <Name></Name>
      <Sequence></Sequence>
    </PingDisable>
  </IPv6PingDisable>
</Ping6>
```

Table description

Item	Description
Feature name	Ping6
Table name	IPv6PingDisable

Item	Description
Table type	Multi-instance table
Row name	PingDisable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the NETCONF client	Index	String. Length: 1 to 64 characters.
Sequence	Sequence of the NETCONF client	Index	Unsigned integer. Value range: 1 to 4294967295.

Contents

Ping6 1
Ping6/IPv6Ping 1
Ping6/IPv6PingDisable 1
Ping6/Ping6Event 2

Ping6

Ping6/IPv6Ping

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
Unknown source host. 未知源主机。	The specified source host must exist.
No route to destination. 目标路由不可达。	No route to destination.
Destination port unreachable. 目的端口不可达。	Destination port unreachable.
Destination unreachable. 目标不可达。	Destination unreachable.
An outgoing interface is required for the ping of a multicast address. 主机地址类型是组播本地地址时，需要指定出接口。	An outgoing interface is required for the ping of a multicast address.
An outgoing interface is required for the ping of a link local address. 主机地址类型是链路本地地址时，需要指定出接口。	An outgoing interface is required for the ping of a link local address.
The source IPv6 address is invalid. 非法的IPv6地址。	The source IPv6 address is invalid.
Destination host unreachable. 目的主机不可达。	Destination host unreachable.
The source IPv6 address does not exist. 源地址不存在。	The source IPv6 address does not exist.

Ping6/IPv6PingDisable

Message	Explanation
The specified object doesn't exist. 指定的对象不存在。	The specified object does not exist.

Ping6/Ping6Event

Message	Explanation
Unknown host. 未知主机.	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
Destination network unreachable. 目标网络不可达。	Destination network unreachable.
Destination host unreachable. 目的主机不可达。	Destination host unreachable.
Destination protocol unreachable. The protocol number is unknown. 目标协议不可达（未知的协议号）。	Destination protocol unreachable. The protocol number is unknown.
Destination port unreachable. 目标端口不可达。	Destination port unreachable.
Source routing failed. 源路由失败。	Source routing failed.
Communication administratively prohibited by filtering policies. 通信被过滤策略禁止。	Communication administratively prohibited by filtering policies.
Destination unreachable. 目标不可达。	Destination unreachable.
Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device. 需要进行分片但中间设备设置了不分片导致的不可达。	Packet fragmentation is needed but the "Don’t Fragment" bit is set on an intermediate device.
Unknown source host. 未知的源主机。	The specified source host must exist.
The specified object already exists. 指定的对象已存在。	The specified object already exists.
An outgoing interface is required for the ping of a multicast address. 主机地址类型是组播本地地址时，需要指定出接口。	An outgoing interface is required for the ping of a multicast address.
An outgoing interface is required for the ping of a link local address. 主机地址类型是链路本地地址时，需要指定出接口。	An outgoing interface is required for the ping of a link local address.

Contents

Ping6 1
Ping6 event 1
XML structure for event subscription 1
XML structure for event report 2

Ping6

Ping6 event

This table is used to report ping6 information for an IPv6 ping operation.

XML structure for event subscription

```
<Ping6Event>
  <Ping6Info>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <VRF></VRF>
    <OutputInterface></OutputInterface>
    <SourceIpv6Address></SourceIpv6Address>
    <SendInterval></SendInterval>
    <SendPacketsNum></SendPacketsNum>
    <PacketSize></PacketSize>
    <TrafficClass></TrafficClass>
    <ReplyTimeOut></ReplyTimeOut>
  </Ping6Info>
</Ping6Event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PING6</stream>
    <filter type="subtree">
      <Ping6Event xmlns="http://www.h3c.com/netconf/event:1.0/ping6:1.0">
        <Ping6Info>
          <Name>aaa</Name>
          <Sequence>23</Sequence>
          <Host>1::11</Host>
          <VRF>vpn1</VRF>
          <OutputInterface>GigabitEthernet0/0/1</OutputInterface>
          <SourceIpv6Address>1::1</SourceIpv6Address>
          <SendInterval>666</SendInterval>
          <SendPacketsNum>50</SendPacketsNum>
          <PacketSize>60</PacketSize>
          <TrafficClass>255</TrafficClass>
          <ReplyTimeOut>555</ReplyTimeOut>
        </Ping6Info>
      </Ping6Event>
    </filter>
```

```
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PING6
Event name	Ping6Event
Event namespace	http://www.h3c.com/netconf/event:1.0/ping6:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv6 address or host name of a remote system	String. Length: 1 to 253 characters.	No
VRF	VPN instance name	String. Length: 0 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
SourceIpv6Address	Source IPv6 address of echo requests	IPv6: String, dotted decimal notation.	No
SendInterval	Interval for sending echo requests	Unsigned integer. Value range: 1 to 65535 milliseconds.	No
SendPacketsNum	Number of echo requests that are sent to the destination	Unsigned integer. Value range: 1 to 4294967295.	No
PacketSize	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	No
TrafficClass	Traffic class value in an echo request	Unsigned integer. Value range: 0 to 255.	No
ReplyTimeOut	Timeout time of the reply to an echo request	Unsigned integer. Value range: 0 to 65535 milliseconds.	No

XML structure for event report

```
<Ping6Event>
  <Ping6Info>
    <Name></Name>
```

```
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <IcmpSequence></IcmpSequence>
    <HopLimitValue></HopLimitValue>
    <ReplyTime></ReplyTime>
  </Ping6Info>
</Ping6Event>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Ping6Event xmlns="http://www.h3c.com/netconf/event:1.0/ping6:1.0">
    <Ping6Info>
      <Name>a</Name>
      <Sequence>1</Sequence>
      <Host>1::1</Host>
      <PayloadLength>600</PayloadLength>
      <IcmpSequence>33</IcmpSequence>
      <HopLimitValue>254</HopLimitValue>
      <ReplyTime>1000</ReplyTime>
    </Ping6Info>
  </Ping6Event>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv6 address of the remote system	String. Length: 1 to 253 characters.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 0 to 4294967294.	No
HopLimitValue	Hop limit value of an echo reply	Unsigned integer. Value range: 1 to 255.	No
ReplyTime	Response time of an echo reply	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No

```
<Ping6Event>
  <Ping6Info>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <SrcAddr></SrcAddr>
    <PayloadLength></PayloadLength>
    <TotalTransmitPacket></TotalTransmitPacket>
    <TotalReceivePacket></TotalReceivePacket>
    <SendFailPacket></SendFailPacket>
    <TimeoutPacket></TimeoutPacket>
    <TotalLossPacket></TotalLossPacket>
    <LossRate></LossRate>
    <MinReplyTime></MinReplyTime>
    <MaxReplyTime></MaxReplyTime>
    <AvgReplyTime></AvgReplyTime>
    <StandardDeviation></StandardDeviation>
    <ExecutionState></ExecutionState>
  </Ping6Info>
</Ping6Event>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Ping6Event xmlns="http://www.h3c.com/netconf/event:1.0/ping6:1.0">
    <Ping6Info>
      <Name>a</Name>
      <Sequence>1</Sequence>
      <Host>4.4.4.4</Host>
      <PayloadLength>56</PayloadLength>
      <TotalTransmitPacket>5</TotalTransmitPacket>
      <TotalReceivePacket>5</TotalReceivePacket>
      <TotalLossPacket>0</TotalLossPacket>
      <LossRate>0</LossRate>
      <MinReplyTime>1000</MinReplyTime>
      <MaxReplyTime>2000</MaxReplyTime>
      <AvgReplyTime>1400</AvgReplyTime>
      <StandardDeviation>489</StandardDeviation>
      <ExecutionState>true</ExecutionState>
    </Ping6Info>
  </Ping6Event>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv6 address of the remote system	String. Length: 1 to 253 characters.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	No
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 1 to 4294967295.	No
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
SendFailPacket	Number of ICMP echo requests that failed to be sent	Unsigned integer. Value range: 0 to 4294967295.	No
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
TotalLossPacket	Number of ICMP echo requests that do not have ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	No
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	No
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
StandardDeviation	Standard deviation response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
ExecutionState	Execution result of this operation	Boolean: • **true**—Successful. • **false**—Failed.	No

Contents

PKEY 1
PKEY/ExportPublicKeys 1
XML structure 1
Table description 1
Columns 1
PKEY/ImportPeerKeys 2
XML structure 2
Table description 2
Columns 3
PKEY/CreateLocalKeys 3
XML structure 3
Table description 3
Columns 4
PKEY/DestroyLocalKeys 4
XML structure 4
Table description 5
Columns 5
PKEY/ImportLocalKeys 5
XML structure 5
Table description 6
Columns 6

PKEY

PKEY/ExportPublicKeys

This table is used to export local public key in SSH format.

XML structure

```
<PKEY>
  <ExportPublicKeys>
    <Export>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <FormatID></FormatID>
      <FileName></FileName>
      <ReplaceFile></ReplaceFile>
    </Export>
  </ExportPublicKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	ExportPublicKeys
Table type	Multi-instance table
Row name	Export
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
FormatID	Identity of SSH format	N/A	Unsigned integer. Value range: 1 to 2^32-1.	See table SSHFormats for supported algorithm.

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	User path of the file ,which the public key will be exported to.	N/A	String. Length: 1 to 128 characters. Case insensitive.	The path can't be the followed value: • "hostkey" • "serverkey" • "dsakey" • "ecdsakey" • path which only contain "."". • path which first character is '/' • path which contains "./" or "../"
ReplaceFile	If replace existed file	N/A	Boolean: • **true** • **false** Default value is false	N/A

PKEY/ImportPeerKeys

This table is used to import peer public key pairs.

XML structure

```
<PKEY>
  <ImportPeerKeys>
    <Import>
      <PeerKeyName></PeerKeyName>
      <FileName></FileName>
      <ReplaceKey></ReplaceKey>
    </Import>
  </ImportPeerKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	ImportPeerKeys
Table type	Multi-instance table
Row name	Import
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer pubilc key	Index	String. Length: 1 to 31 characters. Case sensitive	N/A
FileName	Path of peer key file	N/A	String. Length: 1 to 128 characters. Case insensitive.	The path can't be the followed value: • "hostkey" • "serverkey" • "dsakey" • "ecdsakey" • path which only contain "."".." • path which first character is '/' • path which contains "./" or "../"
ReplaceKey	If replace existed peer key	N/A	Boolean: • **true** • **false** Default value is false	N/A

PKEY/CreateLocalKeys

This table is used to create local asymmetric key pairs.

XML structure

```
<PKEY>
  <CreateLocalKeys>
    <Create>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <Length></Length>
      <ReplaceKey></ReplaceKey>
      <DeviceName></DeviceName>
    </Create>
  </CreateLocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	CreateLocalKeys

Item	Description
Table type	Multi-instance table
Row name	Create
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
Length	Length of public key	N/A	Unsigned integer.	See table PKEYCapabilities for supported length.
ReplaceKey	If replace existed local asymmetric key	N/A	Boolean: • **true** • **false** Default value is false.	N/A
DeviceName	This means that the private key of the generated asymmetric key pair is stored on the inserted third-party encryption card device.Comware cannot obtain the private key, and achieves the function of keeping the private key confidential.	N/A	String. Length: 1 to 31 characters.	N/A

PKEY/DestroyLocalKeys

This table is used to destroy local asymmetric key pairs.

XML structure

```
<PKEY>
  <DestroyLocalKeys>
    <Destroy>
      <AlgID></AlgID>
```

```
      <KeyName></KeyName>
    </Destroy>
  </DestroyLocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	DestroyLocalKeys
Table type	Multi-instance table
Row name	Destroy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.

PKEY/ImportLocalKeys

This table is used to import local asymmetric key pairs.

XML structure

```
<PKEY>
  <ImportLocalKeys>
    <Import>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <ReplaceKey></ReplaceKey>
      <FileName></FileName>
      <Password></Password>
    </Import>
  </ImportLocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	ImportLocalKeys
Table type	Multi-instance table
Row name	Import
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of the algorithm	Index	Enumeration: • **1**—RSA. • **3**—ECDSA.	N/A
KeyName	Name of the key pair	Index	String. Length: 0 to 64 characters. Case insensitive.	A key pair name with 0 characters represents the default key pair.
FileName	Path of the file where the key pair is stored	N/A	String. Length: 1 to 128 characters. Case insensitive.	The path can't be the following values: • "hostkey" • "serverkey" • "dsakey" • "ecdsakey" • Path which contains only dots (.) • Path whose first character is '/' • Path which contains "./" or "../"
ReplaceKey	Overwrite the existing key pair	N/A	Boolean: • **true**. • **false** (default).	N/A
Password	Specify the challenge for decoding the key pair file	N/A	String. Length: 0 to 31 characters. Case sensitive.	N/A

Contents

PKEY 1
PKEY/PeerKeys 1
XML structure 1
Table description 1
Columns 1

PKEY

PKEY/PeerKeys

This table is used to configure peer public keys.

XML structure

```
<PKEY>
  <PeerKeys>
    <Key>
      <PeerKeyName></PeerKeyName>
      <Value></Value>
    </Key>
  </PeerKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PeerKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer pubilc key	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
Value	The data of Key	N/A	PKCS#1 formatted hex string. Length: 1 to 2047 characters.	See table LocalKeys for supported value.

Contents

PKEY 1
PKEY/LocalKeys 1
XML structure 1
Table description 1
Columns 1
PKEY/DefaultLocalKeys 2
XML structure 2
Table description 2
Columns 2
PKEY/PeerKeys 3
XML structure 3
Table description 3
Columns 4
PKEY/GetSSHPublicKeys 4
XML structure 4
Table description 4
Columns 5
PKEY/SSHFormats 5
XML structure 5
Table description 5
Columns 6
PKEY/PKEYCapabilities 6
XML structure 6
Table description 6
Columns 7
PKEY/PKEYStorageDevice 7
XML structure 7
Table description 7
Columns 8

PKEY

PKEY/LocalKeys

This table is used to get local public keys.

XML structure

```
<PKEY>
  <LocalKeys>
    <Key>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <Length></Length>
      <CreatedTime></CreatedTime>
      <Value></Value>
    </Key>
  </LocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	LocalKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithm.
KeyName	Name of local asymmetric key	Index	String. Length: 1 to 64 characters. Case insensitive	N/A
Length	Length of local asymmetric key	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CreatedTime	When is the key created	N/A	DateTime. Format:HH:MM:SS YYYY/MM/DDT	N/A
Value	The value of public key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/DefaultLocalKeys

This table is used to get default local public keys.

XML structure

```
<PKEY>
  <DefaultLocalKeys>
    <Key>
      <AlgID></AlgID>
      <Usage></Usage>
      <Length></Length>
      <CreatedTime></CreatedTime>
      <Value></Value>
    </Key>
  </DefaultLocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	DefaultLocalKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithm.
Usage	Key Usage	Index	Enumeration:	ServerKey is only

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—HostKey. • 2—ServerKey	meaningful for RSA，while HostKey is meaningful for all supported algorithms.
Length	Length of local asymmetric key	N/A	Unsigned integer.	N/A
CreatedTime	When is the key created	N/A	DateTime. Format:HH:MM:SS YYYY/MM/DDT	N/A
Value	The value of key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/PeerKeys

This table is used to get peer public keys.

XML structure

```
<PKEY>
  <PeerKeys>
    <Key>
      <PeerKeyName></PeerKeyName>
      <AlgID></AlgID>
      <Length></Length>
      <Value></Value>
    </Key>
  </PeerKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PeerKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer pubilc key	Index	String. Length: 1 to 31 characters. Case sensitive	N/A
AlgID	Identity of algorithm	N/A	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithm.
Length	Length of asymmetric key	N/A	Unsigned integer.	N/A
Value	The value of key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/GetSSHPublicKeys

This table is used to export local public key to SSH formatted data.

XML structure

```
<PKEY>
  <GetSSHPublicKeys>
    <Key>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <FormatID></FormatID>
      <Value></Value>
    </Key>
  </GetSSHPublicKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	GetSSHPublicKeys
Table type	Multi -instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithm.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
FormatID	Identity of SSH format	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table SSHFormats for supported algorithm.
Value	Information of SSH format key	N/A	String. Length: 1 to 2048 characters.	N/A

PKEY/SSHFormats

This table described supported SSH format

XML structure

```
<PKEY>
  <SSHFormats>
    <SSHFormat>
      <FormatID></FormatID>
      <FormatName></FormatName>
    </SSHFormat>
  </SSHFormats>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	SSHFormats
Table type	Multi -instance table
Row name	SSHFormat
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FormatID	Identity of SSH format	Index	Unsigned integer.	N/A
FormatName	Name of supported SSH format	N/A	String. Length: 1 to 255 characters Case insensitive	N/A

PKEY/PKEYCapabilities

This table contains supported PKEY algorithm information

XML structure

```
<PKEY>
  <PKEYCapabilities>
    <PKEYCapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <MinLength></MinLength>
      <MaxLength></MaxLength>
      <DefaultLength></DefaultLength>
      <ExportFormatIDList>
        <IDItem></IDItem>
      </ExportFormatIDList>
    </PKEYCapability>
  </PKEYCapabilities>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PKEYCapabilities
Table type	Multi-instance table
Row name	PKEYCapability
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	N/A
AlgName	Name of algorithm	N/A	String. Length: 1 to 255 characters. Case insensitive.	The name of supported algorithm
MinLength	Minimal length of supported algorithm	N/A	Unsigned integer.	N/A
MaxLength	Maximal length of supported algorithm	N/A	Unsigned integer.	N/A
DefaultLength	Default length of supported algorithm	N/A	Unsigned integer.	N/A
ExportFormatList	Supported export SSH format list	Data structure	Members include: • IDItem.	N/A
IDItem	Identity of SSH format	N/A	Unsigned integer. Value range: 1 to 2^32-1	Contains up to 3 IDItem in ExportFormatList .

PKEY/PKEYStorageDevice

This table contains supported PKEY device list

XML structure

```
<PKEY>
  <PKEYStorageDevice>
    <DeviceList>
      <DeviceItem></DeviceItem>
    </DeviceList>
  </PKEYStorageDevice>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PKEYStorageDevice

Item	Description
Table type	Single-instance table
Row name	DeviceList
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceList	The storage device list	Data structure	Members include: • DeviceItem.	N/A
DeviceItem	Get available storage device	N/A	String. Length: 1 to 31	N/A

Contents

PKEY 1
PKEY/ImportLocalKeys 1
PKEY/ImportPeerKeys 1
SECURITYCONTROL/SwitchSecurityLevel 1

PKEY

PKEY/ImportLocalKeys

Message	Explanation
The key pair file does not exist. 密钥对文件不存在。	The key pair file does not exist. Please check the file name and path. 密钥对文件不存在，请检查文件名和路径。
The key pair type in the file does not match the specified key pair type. 密钥对文件里密钥对类型和配置的密钥对类型不一致。	The key pair type in the file does not match the specified key pair type. Please check the key pair file. 密钥对文件里密钥对类型和配置的密钥对类型不一致，请检查密钥对文件。
The key length or key modulus length is invalid. 密钥对文件里密钥对长度无效。	The key length or key modulus length is invalid. Please check the key length or key modulus length in the key pair file. 密钥对文件里密钥对长度无效，请检查文件中的密钥长度。
The key pair already exists. 密钥对已存在。	The key pair already exists. Please confirm whether to overwrite the existing key pair. 此密钥对已存在，请确认是否覆盖此密钥对。
Incorrect key pair password. 密钥对口令错误。	Incorrect key pair password. Please check the key pair password. 密钥对口令错误，请检查密钥对口令。
The format or content of the imported file is invalid. 导入的文件格式错误，或文件内容不合法。	The format or content of the imported file is invalid. Please check the key pair file. 导入的文件格式错误，或文件内容不合法，请检查密钥对文件。

PKEY/ImportPeerKeys

Message	Explanation
Failed to read the file. 读取文件信息失败。	Unable to get valid key information from the file. 无法从文件中读取到有效的密钥信息。

SECURITYCONTROL/SwitchSecurityLevel

Message	Explanation
Enable renegotiation in SSL configuration SSL 配置中重协商功能被开启。	SSL 重协商功能开启，切换安全等级失败

Unsafe version in SSL configuration SSL 配置中有不安全版本	SSL 配置中低于 TLS1.1 的版本被使能，切换安全等级失败
Insecure encryption-suite in SSL configuration SSL 配置中有不安全的加密算法套件	SSL 配置中使用不安全的加密算法套件，切换安全等级失败

Contents

PKI 1
PKI/ImportCertificates 1
XML structure 1
Table description 1
Columns 1
PKI/ExportCACertficates 2
XML structure 2
Table description 2
Columns 3
PKI/ExportLocalCertficates 3
XML structure 3
Table description 4
Columns 4
PKI/DeleteCertificates 5
XML structure 5
Table description 5
Columns 5
PKI/RequestCerificates 6
XML structure 6
Table description 6
Columns 6
PKI/AbortCertRequests 7
XML structure 7
Table description 7
Columns 7
PKI/RetrieveCerificates 7
XML structure 8
Table description 8
Columns 8
PKI/RetrieveCRLs 8
XML structure 8
Table description 9
Columns 9
PKI/DelPeerCertBySerialNumber 9
XML structure 9
Table description 9
Columns 10
PKI/ImportEncryptionKeyPair 10
XML structure 10
Table description 10
Columns 11

PKI

PKI/ImportCertificates

This table is used to import the certificate to device.

XML structure

```
<PKI>
  <ImportCertificates>
    <Import>
      <Domain></Domain>
       <CertificateType></CertificateType>
      <FilePath></FilePath>
      <Password></Password>
      <NewPubKeyName></NewPubKeyName>
    </Import>
  </ImportCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ImportCertificates
Table type	Multi-instance table
Row name	Import
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","."," <"," >","""","`","/".
CertificateType	The type of certificate	Index	Enumeration: • **1**—CA • **2**—Local.	N/A
FilePath	The path of certificate file to be imported	N/A	String	The file must be existed in the device
Password	Password used to	N/A	String	**Case sensitive.** **The password is**

Column name	Column description	Column type	Data type and restrictions	Remarks
	decrypt the certificate, which can be PKCS#12 or PEM formatted.			**necessary as follow:** • **The file format is PKCS#12 and the certificate type is local** • **The file format is PEM, and there is local certificate and private key in the file**
NewPubKeyName	The name of new public key.	N/A	String. Length: 1 to 64 characters.	• **Case insensitive.** • **Only contain letters, number and "-".** • **If the name is empty and there is no key name in the domain, it will use the domain name as the key name.**

PKI/ExportCACertficates

This table is used to export the CA certificate.

XML structure

```
<PKI>
  <ExportCACertificates>
    <Export>
      <Domain></Domain>
      <FileFormat></FileFormat>
      <IsWithCertsChain></IsWithCertsChain>
      <FilePath></FilePath>
      <ReplaceFile></ReplaceFile>
    </Export>
  </ExportCACertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI

Table name	ExportCACertificates
Table type	Multi-instance table
Row name	Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
FileFormat	The file format	N/A	Enumeration: • **1**—DER • **2**—PEM	N/A
IsWithCertsChain	If exported certificate contains CA certicate chain	N/A	Boolean: • **true**—Yes. • **false**—No. Defalut value is false	N/A
FilePath	The path of the file will export ceritificate to	N/A	String	The path must be existed in the device
ReplaceFile	If replace when the file is existed.	N/A	Boolean: • **true**—Yes. • **false**—No. Defalut value is false	N/A

PKI/ExportLocalCertficates

This table is used to export the local certificate.

XML structure

```
<PKI>
  <ExportLocalCertificates>
    <Export>
      <Domain></Domain>
      <FileFormat></FileFormat>
      <IsWithCertsChain></IsWithCertsChain>
      <IsWithKey></IsWithKey>
      <EncAlgID></EncAlgID>
      <Password></Password>
      <FilePath></FilePath>
      <ReplaceFile></ReplaceFile>
    </Export>
```

```
  </ExportLocalCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ExportLocalCertificates
Table type	Multi-instance table
Row name	Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
FileFormat	The file format	N/A	Enumeration: • **1**—DER • **2**—PKCS#12 • **3**—PEM	N/A
IsWithCerts Chain	If exported certificate contains CA certicate chain	N/A	Boolean: • **true**—Yes. • **false**—No. Defalut value is false	N/A
IsWithKey	If exported certificate contains private key	N/A	Boolean: • **true**—Yes. • **false**—No. Defalut value is false	N/A
EncAlgID	Identity of encryption algorithm	N/A	Unsigned integer. Value range: 1 to 2^32-1.	See table PKICapabilities for supported encryption algothrim.
Password	Password which will be used to encrypt the file when exported certificate contains private key	N/A	String **Case sensitive.**	**The password is required as follow:** • **The file format is PKCS12 and the certificate type is local** • **The file format is PEM, and it will export both local certificate and private key to the file**

Column name	Column description	Column type	Data type and restrictions	Remarks
FilePath	The path of the file	N/A	String	The directory must be existed in the device
ReplaceFile	If replace when the file is existed.	N/A	Boolean: • **true**—Yes. • **false**—No. Defalut value is false	N/A

PKI/DeleteCertificates

This table is used to delete the certificates.

XML structure

```
<PKI>
  <DeleteCertificates>
    <Delete>
      <Domain></Domain>
      <CertificateType></CertificateType>
    </Delete>
  </DeleteCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DeleteCertificate
Table type	Multi-instance table
Row name	Delete
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”””,”`”,”/”.
CertificateType	The type of certificate	Index	Enumeration: • **1**—CA • **2**—Local. • **3**—Peer.	It will delete local certificate,peer certificate,CRL,and CA certificate when the type is CA.

PKI/RequestCerificates

This table is used to request a certificate on line.

XML structure

```
<PKI>
  <RequestCertificates>
    <Request>
      <Domain></Domain>
      <Password></Password>
      <Filename></Filename>
      <FileMerge></FileMerge>
    </Request>
  </RequestCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	RequestCertificates
Table type	Multi-instance table
Row name	Request
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
Password	The password value of certificate revocation.	N/A	String. Length: 1 to 31 characters. Case sensitive.	N/A
Filename	The file name for saving request with PKCS#10 format	N/A	String. Length: 1 to 256 characters. Case sensitive.	N/A
FileMerge	If the public-key is configured with both signature and	N/A	Boolean: • **true**—Yes. • **false**—No. • Defalut value is false	Phenomenon: There are three files ccc.txt-encryption / ccc.txt-signature / ccc.txt (the content is

Column name	Column description	Column type	Data type and restrictions	Remarks
	encryption, signature encryption and merging will be performed in the background.			a combination of encryption and signature)

PKI/AbortCertRequests

This table is used to abort the certificate request for a PKI domain.

XML structure

```
<PKI>
  <AbortCertRequests>
    <Abort>
      <Domain></Domain>
    </Abort>
  </AbortCertRequests>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	AbortCertRequests
Table type	Multi-instance table
Row name	Abort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".

PKI/RetrieveCerificates

This table is used to obtain a certificate from the certificate distribution server.

XML structure

```
<PKI>
  <RetrieveCertificates>
    <Retrieve>
      <Domain></Domain>
      <CertificateType></CertificateType>
      <PeerEntity></PeerEntity>
    </Retrieve>
  </RetrieveCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	RetrieveCertificates
Table type	Multi-instance table
Row name	Retrieve
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","."<">"""`"/".
CertificateType	The certificate type	Index	Enumeration: • **1**—CA • **2**—Local. • **3**—Peer.	N/A
PeerEntity	The peer entity name	N/A	String. Length: 1 to 31 characters. Case insensitive.	The column can be valid only when The certificate type is peer

PKI/RetrieveCRLs

This table is used to obtain CRLs.

XML structure

```
<PKI>
  <RetrieveCRLs>
```

```
    <Retrieve>
      <Domain></Domain>
    </Retrieve>
  </RetrieveCRLs>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	RetrieveCRLs
Table type	Multi-instance table
Row name	Retrieve
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”"”,”`”,”/”.

PKI/DelPeerCertBySerialNumber

This table is used to delete the certificates by SerialNumber.

XML structure

```
<PKI>
  <DelPeerCertBySerialNumber>
    <Delete>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
    </Delete>
  </DelPeerCertBySerialNumber>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DelPeerCertBySerialNumber

Table type	Multi-instance table
Row name	Delete
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
SerialNumber	The serial number of the peer ceritificate	Index	String. Length: 1 to 127 characters. Case insensitive.	N/A

PKI/ImportEncryptionKeyPair

This table is used to import an encryption key pair.Decrypt the encryption key depending on the existing signature secret key.

XML structure

```
<PKI>
  <ImportEncryptionKeyPair>
    <Import>
      <Domain></Domain>
      <Standard></Standard>
      <FileName></FileName>
      <DigitalEnvelope></DigitalEnvelope>
    </Import>
  </ImportEncryptionKeyPair>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ImportEncryptionKeyPair
Table type	Multi-instance table
Row name	Import
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
Standard	Cryptographic algorithm usage specification	Index	Enumeration: • **1**—GBT35276-2017	N/A
FileName	Name of the file that contains the encryption key pair to be imported	N/A	String.	N/A
DigitalEnvelope	The contents of digital envelope	N/A	String.	N/A

Contents

PKI 1
PKI/Domains 1
XML structure 1
Table description 2
Columns 2
PKI/DomainPubkeys 7
XML structure 7
Table description 7
Columns 7
PKI/Entities 8
XML structure 8
Table description 8
Columns 9
PKI/CertAccessPolicies 10
XML structure 10
Table description 10
Columns 10
PKI/CertAccessRules 10
XML structure 11
Table description 11
Columns 11
PKI/CertAttributeGroups 11
XML structure 12
Table description 12
Columns 12
PKI/CertAttributes 12
XML structure 12
Table description 13
Columns 13
PKI/StoragePath 14
XML structure 14
Table description 14
Columns 14
PKI/GlobalConfiguration 14
XML structure 14
Table description 15
Columns 15
PKI/SmartTokenConfiguration 15
XML structure 15
Table description 16
Columns 16

PKI

PKI/Domains

This table is used to configure PKI domains.

XML structure

```
<PKI>
  <Domains>
    <Domain>
      <Name></Name>
      <CAIdentifier></CAIdentifier>
      <Entity></Entity>
      <CertRequestFrom></CertRequestFrom>
      <CertRequestURL>
        <URL></URL>
        <VRF></VRF>
      </CertRequestURL>
      <CertRequestMode>
        <Mode></Mode>
        <PWDType></PWDType>
        <Password></Password>
        <RenewBeforeExpire></RenewBeforeExpire>
        <RenewReusePubKey></RenewReusePubKey>
        <RenewAutoAppendCN></RenewAutoAppendCN>
      </CertRequestMode>
      <RootCertFingerprint>
        <Type></Type>
        <Value></Value>
      </RootCertFingerprint>
      <LDAPServer>
        <Host></Host>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </LDAPServer>
      <CRLURL>
        <URL></URL>
        <VRF></VRF>
      </CRLURL>
      <CRLCheck></CRLCheck>
      <Usage>
       <IKE></IKE>
       <SSLServer></SSLServer>
       <SSLClient></SSLClient>
      </Usage>
```

```
      <CertRequestPoll>
        <Count></Count>
        <Interval></Interval>
      </CertRequestPoll>
      <SourceIP>
        <AddressType></AddressType>
        <Address></Address>
        <IfIndex></IfIndex>
      </SourceIP>
      <pkcs7EncryType></pkcs7EncryType>
      <CRLUpdatePeriod></CRLUpdatePeriod>
      <RevocationMethodList>
        <Method></Method>
      </RevocationMethodList>
      <CRLUpdatePrefetch>
        <CRLUpdatePrefetchMinutes></CRLUpdatePrefetchMinutes>
        <CRLUpdatePrefetchRandomly></CRLUpdatePrefetchRandomly>
      </CRLUpdatePrefetch>
      <TrustLocalCert></TrustLocalCert>
      <BindSmartToken></BindSmartToken>
    </Domain>
  </Domains>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can’t include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”""”,”`”,”/”.
CAIdentifier	CA identifier name.	N/A	String. Length: 1 to 63 characters. Case sensitive.	N/A
Entity	Reference a	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PKI entity for the PKI domain		Case insensitive. Length: 1 to 31 characters.	
CertRequestFrom	The type of certificate request reception authority.	N/A	Enumeration: 1—CA. 2—RA.	N/A
CertRequestURL	The URL of the certificate request reception authority (CA or RA)	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	N/A
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CertRequestMode	The certificate request mode.	Data structure	Members include: Mode PWDType Password RenewBeforeExpire RenewReusePubKey RenewAutoAppendCN	N/A
Mode	The mode of certificate request	N/A	Enumeration: 1—Auto. 2—Manual. Default value is 2.	N/A
PWDType	The password type of certificate revocation.	N/A	Enumeration: 1—simple. 2—cipher.	The column can be valid only when Mode is Auto
Password	The password value of certificate revocation.	N/A	String. Length: 1 to 73 characters. Case sensitive.	The column can be valid only when Mode is Auto. Type simple string length is 1 to 31. Type cipher string length is 1 to 73.
RenewBeforeExpire	The minimum interval in days for certificate renewal request before expiraiton.	N/A	Unsigned integer: Value range:0 to 365.	The unit is day. The column can be valid only when Mode is Auto.
RenewReus	Reuse public	N/A	Boolean:	The column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
ePubKey	key.		• **true**—Enable. • **false**—Disable. Default value is false.	valid only when Mode is Auto and RenewBeforeExpire is present.
RenewAuto AppendCN	Automatically append Common Name.	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	The column can be valid only when Mode is Auto and RenewBeforeExpire is present.
RootCertFin gerprint	The fingerprint for verifying the validity of the CA root certificate.	Data structure	Members include: Type Value	N/A
Type	The fingerprint type.	N/A	Enumeration: 1—MD5. 2—SHA1.	N/A
Value	The fingerprint value.	N/A	String: Length:32 or 40 hex characters Case sensitive.	Type MD5 is 32 hex string length. Type SHA1 is 40 hex string length.
LDAPServer	An LDAP server for a PKI domain	Data structure	Members include: Host PortNumber VRF	N/A
Host	The hostname of the LDAP server	N/A	String: Length:1 to 255 characters Case sensitive.	The string can be IPv4 address, IPv6 address, or domain name.
PortNumber	The port number of the LDAP server	N/A	Unsigned integer: Value range:1 to 65535 Default value is 389.	N/A
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLURL	the URL of the CRL repository.	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	The URL format is ldap://server_location or http://server_location, Server_location can be an IP address or a domain name.
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
CRLCheck	If check whether the certificate has been revoked by CRL	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is true.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: • IKE • SSLServer • SSLClient.	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
SSLServer	Use certificate as the SSL server certificates	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
CertRequestPoll	The polling interval and the maximum number of attempts to query certificate request status.	Data structure	Members include: Count Interval	N/A
Count	The value of the maximum number	N/A	Unsigned integer: Value range:1 to 100 Default value is 50.	N/A
Interval	The value of the polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes Default value is 20.	N/A
SourceIP	The source IP address for PKI protocol packets.	Data structure	Members include: AddressType Address IfIndex	N/A
AddressType	The type of IP Address	N/A	Enumeration: 1—IPv4 2—IPv6	AddressType must be configured together with Address or IfIndex.
Address	The value of IP Address	N/A	IPv4 or IPv6	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Can not be configured together with Address. Some versions support interface name. For relevant information,

Column name	Column description	Column type	Data type and restrictions	Remarks
				see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
pkcs7EncryType	Encryption algorithm for the PKI domain	N/A	Unsigned integer.	See the PKICapabilities table in Comware V7 PKI NETCONF XML API Data Reference for supported encryption algorithms.
CRLUpdatePeriod	Update period of certificate revocation list(CRL)	N/A	Unsigned integer. Value range:1 to 720	Unit is hour When user designated a value , the CRL function is opened ,and PKI will get CRL from CDP every period. Default CRL update function is closed Delete the configuration to close CRL update function
RevocationMethodList	The method of certificate revocation.	Data structure	Members include: • Method.	N/A
Method	Certificate revocation name	N/A	String. Length: 1 to 10 characters.	Contains up to 2 Method in RevocationMethodList.
CRLUpdatePrefetch	Delayed crl update with random timer	Data structure	Members include: • CRLUpdatePrefetchMinutes • CRLUpdatePrefetchRandomly	N/A
CRLUpdatePrefetchMinutes	Update prefetch of certificate revocation list(CRL)	N/A	Unsigned integer. Value range:0 to 65535	N/A
CRLUpdatePrefetchRandomly	Whether to allowed to configure random values to get updated integer revocation list	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
TrustLocalCert	If check whether trust certificate for importing the Local certificate	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
BindSmartToken	Use certificate from	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Smarttoken		• **false**—Disable. Default value is false.	

PKI/DomainPubkeys

This table is used to reference the asymmetric keys for PKI domain.

XML structure

```
<PKI>
  <DomainPubkeys>
    <Pubkey>
      <Domain></Domain>
      <Type></Type>
      <Purpose></Purpose>
      <Name></Name>
      <Length></Length>
    </Pubkey>
  </DomainPubkeys>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainPubkeys
Table type	Multi-instance table
Row name	Pubkey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can’t include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”””,”`”,”/”.
Type	Type of algorithm	Index	Enumeration: • **1**—RSA. • 2—DSA. • 3—ECDSA.	See the PKI/AuthorityAlgs table in Comware V7 PKI NETCONF XML API Data Reference for

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—SM2 • 5—WAPI	supported algothrims.
Purpose	Key purpose	Index	Enumeration: • **1**—General • 2—Signature • 3—Encryption	ECDSA key and DSA key can be used for signature purpose, while RSA key can be used for all purpose.
Name	Key name	N/A	String. Length: 1 to 64 characters Case insensitive.	Only contain letters, number and “-“.
Length	Length of public key	N/A	Unsigned integer.	See table PKI/AuthorityAlgs for supported length.

PKI/Entities

This table is used to configure the PKI entities.

XML structure

```
<PKI>
  <Entities>
    <Entity>
      <EntityName></EntityName>
      <CommonName></CommonName>
      <Country></Country>
      <State></State>
      <Locality></Locality>
      <Organization></Organization>
      <OrganizationUnit></OrganizationUnit>
      <FQDN></FQDN>
      <IP>
        <Ipv4Address></Ipv4Address>
        <IfIndex></IfIndex>
      </IP>
      <Title></Title>
    </Entity>
  </Entities>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	Entities

Table type	Multi-instance table
Row name	Entity
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntityName	PKI entity name	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
CommonName	The common name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Country	The country code	N/A	Text. Length: 2 to 2 characters.	Country code is decribed in ISO 3166-1
State	The state name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Locality	The locality name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Organization	The organization name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
OrganizationUnit	The unit name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
FQDN	The FQDN name	N/A	String. Length: 1 to 255 characters Case sensitive.	N/A
IP	The IP address	Data structure	Members include: • Ipv4Address. • IfIndex..	Either Ipv4Address or IfIndex can be specified.
Ipv4Address	Ipv4 address	N/A	Ipv4Address	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary Ipv4 address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Title	Title name	N/A	Text, case sensitive. Length: 1 to 63 characters.	The value cannot contain a comma.

PKI/CertAccessPolicies

This table is used to configure the certificate access control policies.

XML structure

```
<PKI>
  <CertAccessPolicies>
    <Policy>
      <Name></Name>
    </Policy>
  </CertAccessPolicies>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAccessRules

This table is used to configure the rules of the certificate access control policy.

XML structure

```
<PKI>
  <CertAccessRules>
    <Rule>
      <Policy></Policy>
      <RuleID></RuleID>
      <Action></Action>
      <AttributeGroup></AttributeGroup>
    </Rule>
  </CertAccessRules>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
RuleID	Index of the rule in the access control policy.	Index	Unsigned integer. Value range:1 to 16	The smaller the RuleID is, the higher the priority is.
Action	How to operate the certificate that match the rule	N/A	Enumeration: • **1**—Permit • **2**—Deny	N/A
AttributeGroup	The name of certificate attribute group	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributeGroups

This table is used to configure the certificate attribute groups.

XML structure

```
<PKI>
  <CertAttributeGroups>
    <Group>
      <Name></Name>
    </Group>
  </CertAttributeGroups>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributeGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributes

This table is used to configure the attributes of the certificate attribute groups.

XML structure

```
<PKI>
  <CertAttributes>
    <Attribute>
      <Group></Group>
      <AttributeID></AttributeID>
      <Object></Object>
      <Item></Item>
      <Operator></Operator>
      <Value></Value>
    </Attribute>
```

```
  </CertAttributes>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
AttributeID	Index of the attribute in the certificate attribute group	Index	Unsigned integer. Value range:1 to 16	The smaller the AttributeID is, the higher the priority is.
Object	The object which to be matched	N/A	Enumeration: • **1**—alt-subject-name • **2**—issuer-name • **3**—subject-name	N/A
Item	The item in the object	N/A	Enumeration: • **1**—DN • **2**—FQDN • **3**—IpAddress	It's can be each value when the object is subject-name or issuer-name, but only can be FQDN or IpAddress when the object is alt-subject-name.
Operator	How to operate the item	N/A	Enumeration: • **1**—contain • **2**—equal • **3**—not contain • **4**—not equal	N/A
Value	The value that be used to match with item.	N/A	String. Length: 1 to 255 characters. Case insensitive.	N/A

PKI/StoragePath

This table is used to configure the PKI storage path.

XML structure

```
<PKI>
  <StoragePath>
    <StorageCertPath></StorageCertPath>
    <StorageCRLPath></StorageCRLPath>
  </StoragePath>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	StoragePath
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StorageCert Path	The PKI certificate storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"
StorageCRL Path	The PKI CRL storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"

PKI/GlobalConfiguration

This table is used to configure IKE global configuration.

XML structure

```
<PKI>
  <GlobalConfiguration>
    <LogSwitch>
      <LocalCertWillExpire></LocalCertWillExpire>
```

```
      <LocalCertHasExpired></LocalCertHasExpired>
    </LogSwitch>
  </GlobalConfiguration>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogSwitch	Local certificate expiration reminder function	Data structure	Members include: • LocalCertWillExpire • LocalCertHasExpired	N/A
LocalCertWillExpire	Whether to print the log when the local certificate is about to expire	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
LocalCertHasExpired	Whether to print logs after the local certificate expires	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A

PKI/SmartTokenConfiguration

This table is used to configure smart token settings.

XML structure

```
<PKI>
  <SmartTokenConfiguration>
      <UserPin></UserPin>
  </SmartTokenConfiguration>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	SmartTokenConfiguration
Table type	Multi-instance table
Row name	SmartToken
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserPin	Unique user pin of the smart token.	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

Contents

PKI 1

PKI/Domains 1
- XML structure 1
- Table description 2
- Columns 2

PKI/DomainPubkeys 6
- XML structure 6
- Table description 7
- Columns 7

PKI/Entities 8
- XML structure 8
- Table description 8
- Columns 8

PKI/CertAccessPolicies 9
- XML structure 10
- Table description 10
- Columns 10

PKI/CertAccessRules 10
- XML structure 10
- Table description 11
- Columns 11

PKI/CertAttributeGroups 11
- XML structure 11
- Table description 12
- Columns 12

PKI/CertAttributes 12
- XML structure 12
- Table description 12
- Columns 13

PKI/StoragePath 13
- XML structure 13
- Table description 14
- Columns 14

PKI/DomainCACerts 14
- XML structure 14
- Table description 15
- Columns 15

PKI/DomainLocalCerts 15
- XML structure 16
- Table description 16
- Columns 16

PKI/CertificateRequests 17
- XML structure 17
- Table description 17
- Columns 18

PKI/ImportCertStatus 18
- XML structure 18
- Table description 19
- Columns 19

PKI/AuthorityAlgs 21
- XML structure 21
- Table description 21
- Columns 21

PKI/PKICapabilities 22
- XML structure 22
- Table description 22
- Columns 22

PKI/CertRequestStatus 23
XML structure 23
Table description 23
Columns 23
PKI/DomainPeerCerts 24
XML structure 24
Table description 24
Columns 24
PKI/DomainsCRL 25
XML structure 25
Table description 25
Columns 25
PKI/PKIValidateResults 26
XML structure 26
Table description 26
Columns 27
PKI/GlobalConfiguration 27
XML structure 27
Table description 27
Columns 28
PKI/SmartTokenConfiguration 28
XML structure 28
Table description 28
Columns 29
PKI/SmartTokenInfo 29
XML structure 29
Table description 29
Columns 29

PKI

PKI/Domains

This table is used to get information of PKI domain

XML structure

```
<PKI>
  <Domains>
    <Domain>
      <Name></Name>
      <CAIdentifier></CAIdentifier>
      <Entity></Entity>
      <CertRequestFrom></CertRequestFrom>
      <CertRequestURL>
        <URL></URL>
        <VRF></VRF>
      </CertRequestURL>
      <CertRequestMode>
        <Mode></Mode>
        <RenewBeforeExpire></RenewBeforeExpire>
        <RenewReusePubKey></RenewReusePubKey>
        <RenewAutoAppendCN></RenewAutoAppendCN>
      </CertRequestMode>
      <RootCertFingerprint>
        <Type></Type>
        <Value></Value>
      </RootCertFingerprint>
      <LDAPServer>
        <Host></Host>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </LDAPServer>
      <CRLURL>
        <URL></URL>
        <VRF></VRF>
      </CRLURL>
      <CRLCheck></CRLCheck>
      <Usage>
        <IKE></IKE>
        <SSLServer></SSLServer>
        <SSLClient></SSLClient>
      </Usage>
      <CertRequestPoll>
        <Count></Count>
```

```
      <Interval></Interval>
    </CertRequestPoll>
    <SourceIP>
      <AddressType></AddressType>
      <Address></Address>
      <IfIndex></IfIndex>
      <IfName></IfName>
    </SourceIP>
    <pkcs7EncryType></pkcs7EncryType>
    <CRLUpdatePeriod></CRLUpdatePeriod>
    <RevocationMethodList>
      <Method></Method>
    </RevocationMethodList>
    <CRLUpdatePrefetch>
      <CRLUpdatePrefetchMinutes></CRLUpdatePrefetchMinutes>
      <CRLUpdatePrefetchRandomly></CRLUpdatePrefetchRandomly>
    </CRLUpdatePrefetch>
    <TrustLocalCert></TrustLocalCert>
    <BindSmartToken></BindSmartToken>
  </Domain>
 </Domains>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can’t include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”””,”`”,”/”.
CAIdentifier	CA identifier name.	N/A	String. Length: 1 to 63 characters. Case sensitive.	N/A
Entity	Reference a PKI entity for the PKI domain	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CertRequestFrom	The type of certificate request reception authority.	N/A	Enumeration: 1—CA. 2—RA.	N/A
CertRequestURL	The URL of the certificate request reception authority (CA or RA)	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	N/A
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CertRequestMode	The certificate request mode.	Data structure	Members include: Mode RenewBeforeExpire RenewReusePubKey RenewAutoAppendCN	N/A
Mode	The type of Mode	N/A	Enumeration: 1—Auto. 2—Manual. Default value is 2.	N/A
RenewBeforeExpire	The minimum interval in days for certificate renewal request before expiraiton.	N/A	Unsigned integer: Value range:0 to 365.	The unit is day. The column can be valid only when Mode is Auto.
RenewReusePubKey	Reuse public key.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The column can be valid only when Mode is Auto and RenewBeforeExpire is present.
RenewAutoAppendCN	Automatically append Common Name.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	The column can be valid only when Mode is Auto and RenewBeforeExpire is present.
RootCertFingerprint	The fingerprint for verifying the validity of the CA root certificate.	Data structure	Members include: Type Value	N/A
Type	The fingerprint type.	N/A	Enumeration: 1—MD5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—SHA1.	
Value	The fingerprint value.	N/A	String: Length:32 or 40 hex characters Case sensitive.	Type MD5 is 32 hex string length. Type SHA1 is 40 hex string length.
LDAPServer	An LDAP server for a PKI domain	Data structure	Members include: Host PortNumber VRF	N/A
Host	The hostname of the LDAP server	N/A	String: Length:1 to 255 characters Case sensitive.	The string can be IPv4 address, IPv6 address, or domain name.
PortNumber	The port number of the LDAP server	N/A	Unsigned integer: Value range:1 to 65535 Default value is 389.	N/A
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLURL	The URL of the CRL repository.	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	The URL format is ldap://server_location or http://server_location, Server_location can be an IP address or a domain name.
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLCheck	If check whether the certificate has been revoked by CRL	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is true.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: • IKE • SSLServer • SSLClient.	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
SSLServer	Use certificate as the SSL server	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	certificates		• **false**—Disable.	
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
CertRequestPoll	The polling interval and the maximum number of attempts to query certificate request status.	Data structure	Members include: Count Interval	N/A
Count	The value of the maximum number	N/A	Unsigned integer: Value range:1 to 100 Default value is 50.	N/A
Interval	The value of the polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes Default value is 20.	N/A
SourceIP	The source IP address for PKI protocol packets.	Data structure	Members include: AddressType Address IfIndex	N/A
AddressType	The type of IP Address	N/A	Enumeration: 1—IPv4 2—IPv6	N/A
Address	The value of IP Address	N/A	IPv4 or IPv6	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary IP address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.	N/A
pkcs7EncryType	Encryption algorithm for the PKI domain	N/A	Unsigned integer.	See table PKICapabilities for supported encryption algorithms.
CRLUpdatePeriod	Update period of certificate revocation	N/A	Unsigned integer. Value range:1 to 720	Unit is hour When user designated

Column name	Column description	Column type	Data type and restrictions	Remarks
	list(CRL)			a value , the CRL function is opened ,and PKI will get CRL from CDP every period. Default CRL update function is closed Delete the configuration to close CRL update function
Revocation MethodList	The method of certificate revocation.	Data structure	Members include: • Method.	N/A
Method	Certificate revocation name	N/A	String. Length: 1 to 10 characters.	Contains up to 2 Method in RevocationMethodList.
CRLUpdate Prefetch	Delayed crl update with random timer	Data structure	Members include: • CRLUpdatePrefetchMinutes • CRLUpdatePrefetchRandomly	N/A
CRLUpdate PrefetchMinutes	Update prefetch of certificate revocation list(CRL)	N/A	Unsigned integer. Value range:0 to 65535	N/A
CRLUpdate PrefetchRandomly	Whether to allowed to configure random values to get updated integer revocation list	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
TrustLocalCert	If check whether trust certificate for importing the Local certificate	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
BindSmartToken	Use certificate from Smarttoken	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A

PKI/DomainPubkeys

This table is used to get the asymmetric keys of PKI domain.

XML structure

```
<PKI>
  <DomainPubkeys>
```

```
    <Pubkey>
      <Domain></Domain>
      <Type></Type>
      <Purpose></Purpose>
      <Name></Name>
      <Length></Length>
    </Pubkey>
  </DomainPubkeys>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainPubkeys
Table type	Multi-instance table
Row name	Pubkey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:”~”,”*”,”\”,”|”,”:”,”.”,”<”,”>”,”””,”`”,”/”.
Type	Type of algorithm	Index	Enumeration: • **1**—RSA. • **2**—DSA. • 3—ECDSA. • 4—SM2. • 5—WAPI.	See table PKI/AuthorityAlgs for supported encryption algothrim.
Purpose	Key purpose	Index	Enumeration: • **1**—General • **2**—Signature • 3—Encryption	ECDSA key and DSA key can be used for signature purpose, while RSA key can be used for all purpose.
Name	Key name	N/A	String. Length: 1 to 64 characters Case insensitive.	Only contain letters, number and “-“.
Length	Length of public key	N/A	Unsigned integer.	See table PKI/AuthorityAlgs for supported length.

PKI/Entities

This table is used to get the PKI entities.

XML structure

```
<PKI>
  <Entities>
    <Entity>
      <EntityName></EntityName>
      <CommonName></CommonName>
      <Country></Country>
      <State></State>
      <Locality></Locality>
      <Organization></Organization>
      <OrganizationUnit></OrganizationUnit>
      <FQDN></FQDN>
      <IP>
        <Ipv4Address></Ipv4Address>
        <IfIndex></IfIndex>
        <IfName></IfName>
      </IP>
      <Title></Title>
    </Entity>
  </Entities>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	Entities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntityName	PKI entity name	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
CommonName	The common name	N/A	Text. Length: 1 to 63 characters.	Comma can not be contained.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case sensitive.	
Country	The country code	N/A	Text. Length: 2 to 2 characters.	Country code is decribed in ISO 3166-1
State	The state name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Locality	The locality name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Organization	The organization name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
OrganizationUnit	The unit name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
FQDN	The FQDN name	N/A	String. Length: 1 to 255 characters Case sensitive.	N/A
IP	The IP address	Data structure	Members include: • Ipv4Address. • IfIndex..	Either Ipv4Address or IfIndex can be specified.
Ipv4Address	Ipv4 address	N/A	Ipv4Address	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary Ipv4 address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface Name	N/A	String,Length: 1 to 47 characters.	N/A
Title	Title name	N/A	Text, case sensitive. Length: 1 to 63 characters.	The value cannot contain a comma.

PKI/CertAccessPolicies

This table is used to get the certificate access control policies.

XML structure

```
<PKI>
  <CertAccessPolicies>
    <Policy>
      <Name></Name>
    </Policy>
  </CertAccessPolicies>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAccessRules

This table is used to get the rules of the certificate access control policy.

XML structure

```
<PKI>
  <CertAccessRules>
    <Rule>
      <Policy></Policy>
      <RuleID></RuleID>
      <Action></Action>
      <AttributeGroup></AttributeGroup>
    </Rule>
  </CertAccessRules>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
RuleID	Index of the rule in the access control policy.	Index	Unsigned integer. Value range:1 to 16	The smaller the RuleID is, the higher the priority is.
Action	How to operate the certificate that match the rule	N/A	Enumeration: • **1**—Permit • **2**—Deny	N/A
AttributeGroup	The name of certificate attribute group	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributeGroups

This table is used to get the certificate attribute groups.

XML structure

```
<PKI>
  <CertAttributeGroups>
    <Group>
      <Name></Name>
    </Group>
  </CertAttributeGroups>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributeGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributes

This table is used to get the attributes of the certificate attribute groups.

XML structure

```
<PKI>
  <CertAttributes>
    <Attribute>
      <Group></Group>
      <AttributeID></AttributeID>
      <Object></Object>
      <Item></Item>
      <Operator></Operator>
      <Value></Value>
    </Attribute>
  </CertAttributes>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributes
Table type	Multi-instance table
Row name	Attribute

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
AttributeID	Index of the attribute in the certificate attribute group	Index	Unsigned integer. Value range:1 to 16	The smaller the AttributeID is, the higher the priority is.
Object	The object which to be matched	N/A	Enumeration: • **1**—alt-subject-name • **2**—issuer-name • **3**—subject-name	N/A
Item	The item in the object	N/A	Enumeration: • **1**—DN • **2**—FQDN • **3**—IpAddress	It's can be each value when the object is subject-name or issuer-name, but only can be FQDN o IpAddress when the object is alt-subject-name.
Operator	How to operate the item	N/A	Enumeration: • **1**—contain • **2**—equal • **3**—not contain • **4**—not equal	N/A
Value	The value that be used to match with item.	N/A	String. Length: 1 to 255 characters. Case insensitive.	N/A

PKI/StoragePath

This table is used to get the PKI storage path.

XML structure

```
<PKI>
  <StoragePath>
    <StorageCertPath></StorageCertPath>
    <StorageCRLPath></StorageCRLPath>
  </StoragePath>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	StoragePath
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StorageCert Path	The PKI certificate storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"
StorageCRL Path	The PKI CRL storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"

PKI/DomainCACerts

This table is used to get the CA certificates of the PKI domain

XML structure

```
<PKI>
  <DomainCACerts>
    <Cert>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
      <Issuer></Issuer>
      <Subject></Subject>
      <Validity>
        <NotBefore></NotBefore>
        <NotAfter></NotAfter>
      </Validity>
      <IsLowestCA></IsLowestCA>
      <DetailInfoText></DetailInfoText>
    </Cert>
  </DomainCACerts>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainCACerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|","-","","<",">","""","`","/".
SerialNumber	The serial number of the ceritificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A
Validity	The validity date of the certificate	Data structure	Members include: • NotBefore. • NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A
IsLowestCA	If the CA certificate is the lowest in the PKI domain	N/A	Boolean: • **true**—The CA certificate is lowest. • **false**—The CA certificate isn't lowest.	N/A
DetailInfoText	The text of the ca certificate or the certificate chain.	N/A	String	N/A

PKI/DomainLocalCerts

This table is used to get the local certificates of the PKI domain

XML structure

```
<PKI>
  <DomainLocalCerts>
    <Cert>
      <Domain></Domain>
      <KeyUsage></KeyUsage>
      <SerialNumber></SerialNumber>
      <Issuer></Issuer>
      <Subject></Subject>
      <Validity>
        <NotBefore></NotBefore>
        <NotAfter></NotAfter>
      </Validity>
      <DetailInfoText></DetailInfoText>
    </Cert>
  </DomainLocalCerts>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainLocalCerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","| ","·" ," · ," <",">" ,"""" ,"` ","/".
KeyUsage	The key usage of the certificate	Index	Enumeration: • **1**—General. • **2**—Signature. • 3—Encryption.	There is only one special usage certificate in one domain, and general usage certificate can't appear with signature/encryption certificate at the same time.
SerialNumber	The serial number of the	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ceritificate			
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A
Validity	The validity date of the certificate	Data structure	Members include: • NotBefore. • NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A
DetailInfoText	The text of the local certificate or the certicicate chain	N/A	String	N/A

PKI/CertificateRequests

This table is used to get the certificate requests for the domain

XML structure

```
<PKI>
  <CertificateRequests>
    <Request>
      <Domain></Domain>
      <Password></Password>
      <Value></Value>
    </Request>
  </CertificateRequests>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertificateRequests
Table type	Multi-instance table
Row name	Request
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|","·","·","<",">","""","`","/".
Password	The challenge word which is needed when revoke the certificate	N/A	String. Length: 1 to 31 characters. Case sensitive.	N/A
Value	The certificate request value	N/A	String	N/A

PKI/ImportCertStatus

This table is used to get the status when import certificate to a domain

XML structure

```
<PKI>
  <ImportCertStatus>
    <Status>
      <Domain></Domain>
      <CertificateType></CertificateType>
      <FilePath></FilePath>
      <Password></Password>
      <NewPubKeyName></NewPubKeyName>
      <IsNewPubKeyExist></IsNewPubKeyExist>
      <IsPubKeyConfiged></IsPubKeyConfiged>
      <IsCorrectFormat></IsCorrectFormat>
      <IsNoCA></IsNoCA>
      <IsKeyPairExist></IsKeyPairExist>
      <IsKeyPairMatched></IsKeyPairMatched>
      <CertFingerprint></CertFingerprint>
      <DomainFingerprint></DomainFingerprint>
      <IsFingerprintMatched></IsFingerprintMatched>
      <NeedReplaceCACert></NeedReplaceCACert>
      <NeedReplaceLocalCert></NeedReplaceLocalCert>
      <NeedReplaceKeyPair></NeedReplaceKeyPair>
      <CertVerifyErrStr></CertVerifyErrStr>
    </Status>
  </ImportCertStatus>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ImportCertStatus
Table type	Multi-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","·","<",">","""","`","/".
CertificateType	The type of certificate	Index	Enumeration: • **1**—CA • **2**—Local.	N/A
FilePath	The path of the file contain certificate	Index	String	The file must be existed in the device
Password	Password which will be used to encrypt the file when the certificate contains private key.	N/A	String **Case sensitive.**	**The password is required as follow:** • **The file format is PKCS#12 and the certificate type is local** • **The file format is PEM, and there is local certificate and private key in the file**
NewPubKeyName	The name of new public key.	N/A	String. Length: 1 to 64 characters. Case insensitive.	Only contain letters, number and "-". If the name is empty and there is no key name in the domain, it will use the domain name as the key name.
IsNewPubKeyExist	If the new public key is existed	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
IsPubKeyConfiged	If there is public key configure in	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the domain			
IsCorrectFormat	If the file format is correct	N/A	Boolean: • **true**—Yes. • **false**—No.	Error information
IsNoCA	If thers is no any CA certificate when import	N/A	Boolean: • **true**—Yes. • **false**—No.	Error information
IsKeyPairExisted	If the key pair is existed	N/A	Boolean: • **true**—Yes. • **false**—No.	If there isn't key pair in both file and device, the value is false, otherwise it is true Error information
IsKeyPairMatched	If the key pair is matched with the ceritificate	N/A	Boolean: • **true**—Yes. • **false**—No.	Error information
CertFingerprint	The fingerprint of the root certificate	N/A	String. Length: 1 to 127 characters.	The column is appended only when there is new root certificate be imported to device Confirm informtion
DomainFingerprint	The fingerprint configed in the PKI domain	N/A	String. Length: 1 to 127 characters.	The column is appended only when the PKI domain configured the root fingerprint
IsFingerprintMatched	If the root fingerprint is matched	N/A	Boolean: • **true**—Yes. • **false**—No.	Error information
NeedReplaceCACert	If the ca certificate need to be replaced	N/A	Boolean: • **true**—Yes. • **false**—No.	Confirm informtion
NeedReplaceLocalCert	If the local certificate need to be replaced	N/A	Boolean: • **true**—Yes. • **false**—No.	Confirm informtion
NeedReplaceKeyPair	If the key pair need to be replaced	N/A	Boolean: • **true**—Yes. • **false**—No.	Confirm informtion
CertVerifyErrStr	The result of the validate when import	N/A	String. Length: 1 to 255 characters.	The column is appended only when it is failed to verify the certificate

PKI/AuthorityAlgs

This table is used to get the authority algorithm

XML structure

```
<PKI>
  <AuthorityAlgs>
    <Alg>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <MinLength></MinLength>
      <MaxLength></MaxLength>
      <DefaultLength></DefaultLength>
    </Alg>
  </AuthorityAlgs>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	AuthorityAlgs
Table type	Multi-instance table
Row name	Alg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	
AlgName	Name of algorithm	N/A	String. Length: 1 to 255 characters Case insensitive.	The name of supported algorithm
MinLength	Minimal length of supported algorithm	N/A	Unsigned integer.	N/A
MaxLength	Maximal length of supported algorithm	N/A	Unsigned integer.	N/A
DefaultLength	Default length of supported	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm			

PKI/PKICapabilities

This table is used to get the PKI capabilities

XML structure

```
<PKI>
  <PKICapabilities>
    <PKICapability>
      <EncAlgID></EncAlgID>
      <Name></Name>
    </PKICapability>
  </PKICapabilities>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	PKICapabilities
Table type	Multi-instance table
Row name	PKICapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EncAlgID	Identity of encryption algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	N/A
Name	Name of encryption algorithm	N/A	String. Length: 1 to 255 characters. Case insensitive.	The name of supported encryption algorithm

PKI/CertRequestStatus

This table is used to get the certificate request status.

XML structure

```
<PKI>
  <CertRequestStatus>
    <Status>
      <Domain></Domain>
      <KeyUsage></KeyUsage>
      <PollingInterval></PollingInterval>
      <LastPollingTime></LastPollingTime>
      <RemainPollingCount></RemainPollingCount>
    </Status>
  </CertRequestStatus>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertRequestStatus
Table type	Multi-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|",":","."","<",">","""","`","/".
KeyUsage	Key usage for requesting certificate.	Index	Enumeration: • 1—general. • 2—signature. • 3—encryption.	N/A.
PollingInterval	The polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes	N/A
LastPollingTime	The last polling time	N/A	DateTime	N/A
RemainPollingCount	Remain polling attempts	N/A	Unsigned integer: Value range:1 to 100.	N/A

PKI/DomainPeerCerts

This table is used to get the peer certificates of the PKI domain.

XML structure

```
<PKI>
  <DomainPeerCerts>
    <Cert>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
      <Issuer></Issuer>
      <Subject></Subject>
      <Validity>
        <NotBefore></NotBefore>
        <NotAfter></NotAfter>
      </Validity>
      <DetailInfoText></DetailInfoText>
    </Cert>
  </DomainPeerCerts>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainPeerCerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:”~”,”*”,”\”,”|”,”-”,”.”,”<”,”>”,”“”,”`”,”/”.
SerialNumber	The serial number of the ceritificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Validity	The validity date of the certificate	Data structure	Members include: • NotBefore. • NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A
DetailInfoText	The text of the peer certificate .	N/A	String	N/A

PKI/DomainsCRL

This table is used to get the CRL saved at the local for a PKI domain.

XML structure

```
<PKI>
  <DomainsCRL>
    <DomainCRL>
      <Domain></Domain>
      <Issuer></Issuer>
      <LastUpdate></LastUpdate>
      <NextUpdate></NextUpdate>
    </DomainCRL>
  </DomainsCRL>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainsCRL
Table type	Multi-instance table
Row name	DomainCRL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI	Index	String.	Can't include:"~","*","\","|

Column name	Column description	Column type	Data type and restrictions	Remarks
	domain name		Length: 1 to 31 characters. Case insensitive.	”,”:”,”.”,”<”,”>”,”””,”`”,”/”.
Issuer	The issuer name	N/A	String	N/A
LastUpdate	The last update time.	N/A	DateTime	N/A
NextUpdate	The next update time.	N/A	DateTime	N/A

PKI/PKIValidateResults

This table is used to get the validity of certificates.

XML structure

```
<PKI>
  <PKIValidateResults>
    <Result>
      <Domain></Domain>
      <CertType></CertType>
      <SerialNum></SerialNum>
      <Issuer></Issuer>
      <Subject></Subject>
      <ErrCode></ErrCode>
      <ErrDescription></ErrDescription>
    </Result>
  </PKIValidateResults>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	PKIValidateResults
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*","\","|","·","·","<",">","""","`","/".
CertType	The certificate type.	Index	Enumeration: • **1**—CA • **2**—Local	N/A
SerialNum	The serial number of the ceritificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The subject name	N/A	String	N/A
ErrCode	The error code.	N/A	Unsigned integer: Value range: 0 to 255.	0 means verification through,others fail.
ErrDescription	The error description.	N/A	String. Length: 1 to 127 characters.	N/A

PKI/GlobalConfiguration

This table displays PKI global configuration information.

XML structure

```
<PKI>
  <GlobalConfiguration>
    <LogSwitch>
      <LocalCertWillExpire></LocalCertWillExpire>
      <LocalCertHasExpired></LocalCertHasExpired>
    </LogSwitch>
  </GlobalConfiguration>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	GlobalConfiguration
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogSwitch	Local certificate expiration reminder function	Data structure	Members include: • LocalCertWillExpire • LocalCertHasExpired	N/A
LocalCertWillExpire	Whether to print the log when the local certificate is about to expire	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A
LocalCertHasExpired	Whether to print logs after the local certificate expires	N/A	Boolean: • **true**—Enable. • **false**—Disable. Default value is false.	N/A

PKI/SmartTokenConfiguration

This table is used to get smart token configuration.

XML structure

```
<PKI>
  <SmartTokenConfiguration>
     <UserPin></UserPin>
  </SmartTokenConfiguration>
</PKI>
```

Table description

Item	**Description**
Feature name	PKI
Table name	SmartTokenConfiguration
Table type	Multi-instance table
Row name	SmartToken
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserPin	Unique user pin of the smart token.	N/A	String, case sensitive. Length: 1 to 31 characters.	If PIN is configured, return all asterisks.

PKI/SmartTokenInfo

This table is used to get smart token information.

XML structure

```
<PKI>
  <SmartTokenInfo>
      <SignatureCertificate>
        <SerialNumber></SerialNumber>
        <Issuer></Issuer>
        <Subject></Subject>
      </SignatureCertificate>
      <EncryptionCertificate>
        <SerialNumber></SerialNumber>
        <Issuer></Issuer>
        <Subject></Subject>
      </EncryptionCertificate>
  </SmartTokenInfo>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	SmartTokenInfo
Table type	Multi-instance table
Row name	SmartToken
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SignatureCertificate	Signature certificate for	Data structure	Members include: • SerialNumber.	N/A

	the smart token.		• Issuer. • Subject.	
SerialNumber	Serial number of the certificate.	N/A	String.	N/A
Issuer	Issuer name.	N/A	String.	N/A
Subject	Subject of the certificate.	N/A	String.	N/A
EncryptionCertificate	Encryption certificate for the smart token.	Data structure	Members include: • SerialNumber. • Issuer. • Subject.	N/A
SerialNumber	Serial number of the certificate.	N/A	String.	N/A
Issuer	Issuer name.	N/A	String.	N/A
Subject	Subject of the certificate.	N/A	String.	N/A

Contents

PKI 1
PKI/ImportCertificates 1
PKI/RequestCerificates 1
PKI/Domains 1
PKI/ImportEncryptionKeyPair 2

PKI

PKI/ImportCertificates

Message	Explanation
The key pair name already exists. Please enter another key pair name. 密钥对已经存在，请重新指定密钥对名称。	The key pair name already exists. Please enter another key pair name. 密钥对已经存在，请重新指定密钥对名称。
Failed to open the certificate file. 打开证书文件失败。	Failed to open the imported certificate file or the certificate file does not exist. 打开导入的证书文件失败或者证书不存在。
Failed to parse certificates and keys. 解析证书和密钥失败。	Unable to obtain certificate and key information. 无法获取到证书和密钥信息。
Failed to import certificates. 导入证书失败。	Failed to import certificates. 导入证书失败。

PKI/RequestCerificates

Message	Explanation
The filename is invalid. 文件名无效。	The specified filename is invalid. 指定的文件名无效。
The value of certificate revocation method is wrong. 配置的证书吊销检查方法值错误。	The value of certificate revocation method is wrong. 配置的证书吊销检查方法值错误。

PKI/Domains

Message	Explanation
CRLUpdatePrefetchRandomly must be configured together with CRLUpdatePrefetchMinutes 配置随机模式前，请先配置CRL提前更新时间.	配置随机模式前，请先配置CRL提前更新时间
The random mode is not supported when the CRL prefetch period is 0 or 1 minute 当CRL提前更新时间指定为0或者1时，不支持同时指定为随机模式	当CRL提前更新时间指定为0或者1时，不支持同时指定为随机模式

PKI/ImportEncryptionKeyPair

Message	Explanation
Failed to parse the encryption key pair file. 文件解析失败。	Failed to parse the digital envelope file that contains the encryption key pair. 文件解析失败。
Failed to decrypt the symmetric key pair. 解密对称密钥对失败。	Failed to decrypt the symmetric key pair, because the signature private key does not match or exist. 解密对称密钥对失败，签名私钥不匹配或者不存在。
Failed to save the encryption key pair. 保存加密密钥对失败。	Failed to save the encryption key pair. 保存加密密钥对失败。

Contents

PoE 1
PoE/PSEUpdate 1
XML structure 1
Table description 1
Columns 1
PoE/PSEs 1
XML structure 2
Table description 2
Columns 2
PoE/Ports 2
XML structure 2
Table description 3
Columns 3

PoE

PoE/PSEUpdate

This table contains PoE Update action information.

XML structure

```
<PoE>
  <PSEUpdate>
    <PSE>
      <PSEID></PSEID>
      <FileName></FileName>
      <Mode></Mode>
    </PSE>
  </PSEUpdate>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEUpdate
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
FileName	The used file name.	N/A	String. Length: 1 to 255characters.	N/A
Mode	Updating mode.	**N/A**	**Enumeration:** • **0 – full.** • **1 – refresh.**	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```
<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
    </PSE>
  </PSEs>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
PeakPower	The peak power (W)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.
AveragePowe r	The average power (W)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.

PoE/Ports

This table contains PoE port information.

XML structure

```
<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
      <IfIndex></IfIndex>
      <PeakPower></PeakPower>
```

```
      <AveragePower></AveragePower>
    </Port>
  </Ports>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi -instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *Ifmgr NETCONF XML API Configuration Reference*.
PeakPower	The peak power (mW)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.
AveragePower	The average power (mW)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.

Contents

PoE 1
PoE/PriorityPolicy 1
XML structure 1
Table description 1
Columns 1
PoE/Powers 2
XML structure 2
Table description 2
Columns 3
PoE/PSEs 3
XML structure 3
Table description 3
Columns 3
PoE/Ports 4
XML structure 4
Table description 4
Columns 5
PoE/Profiles 6
XML structure 6
Table description 6
Columns 6

PoE

PoE/PriorityPolicy

This table contains PoE global priority policy information.

XML structure

```
<PoE>
  <PriorityPolicy>
    <PSEPolicyMode></PSEPolicyMode>
    <PDPolicyMode></PDPolicyMode>
  </PriorityPolicy>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PriorityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicyMode	Mode of PSE power policy.	N/A	Enumeration. • **1 – disabled (default).** • **2 – priority.**	The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload. A value of priority(2) means that the power will stop supplying to the low priority PSE. A value of disabled(1) means that the power will stop supplying to the new inserted PSE.

Column name	Column description	Column type	Data type and restrictions	Remarks
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. • **1 – disabled (default).** • **2 – priority.**	The PD policy only applies to the situation that when a new PD is inserted, and the power of PSE is overload. A value of priority(2) means that the power will stop supplying to the low priority port PD. A value of disabled(1) means that the slot stop supplying to the new inserted PD.

PoE/Powers

This table contains PoE Power information.

XML structure

```
<PoE>
  <Powers>
    <Power>
      <PowerIndex></PowerIndex>
      <PowerLimit></PowerLimit>
    </Power>
  </Powers>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Powers
Table type	Multi-instance table
Row name	Power
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```
<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <PowerLimit></PowerLimit>
      <UsageThreshold></UsageThreshold>
      <Priority></Priority>
      <Legacy></Legacy>
    </PSE>
  </PSEs>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UsageThreshold	The usage threshold (%)	N/A	Unsigned integer. Value range: 1 to 99.	N/A
Priority	The power priority	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low (default).**	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. • **0 – enabled.** • **1 – disabled (default).**	N/A

PoE/Ports

This table contains PoE Port information.

XML structure

```
<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
      <IfIndex></IfIndex>
      <AdminEnable></AdminEnable>
      <Pairs></Pairs>
      <Priority></Priority>
      <PDDescription></PDDescription>
      <FaultDescription></FaultDescription>
      <PowerLimit></PowerLimit>
      <ProfileIndex></ProfileIndex>
      <ForcePower></ForcePower>
    </Port>
  </Ports>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A
IfIndex	Interface index Index of the PSE	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *Ifmgr NETCONF XML API Configuration Reference*.
AdminEnable	The admin enable status of an interface which can provide PSE functions	N/A	Boolean: • **true** • **false**	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • **1 – signal.** • **2 – spare.**	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
Priority	The power priority of the specified interface	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low (default).**	N/A
PDDescription	The description for the Pd that is connected to the port.	N/A	String. Length: 1 to 80 characters.	N/A
FaultDescription	The fault category	N/A	String. Length: 1 to 255 characters.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
ProfileIndex	The profile index applied to the Poe port	N/A	Unsigned integer.	N/A
ForcePower	The force power status of an interface which can provide PSE functions	N/A	Boolean: • **1 – true.** • **2 – false.**	N/A

PoE/Profiles

This table contains PoE profile information.

XML structure

```
<PoE>
  <Profiles>
    <Profile>
      <ProfileIndex></ProfileIndex>
      <ProfileName></ProfileName>
      <PowerMode></PowerMode>
      <PowerLimit></PowerLimit>
      <Priority></Priority>
      <Pairs></Pairs>
    </Profile>
  </Profiles>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile	Index	Unsigned integer.	N/A
ProfileName	The name of profile	N/A	String. Length: 1 to 15 characters.	N/A
PowerMode	The power status of an interface which can provide PSE functions	N/A	Enumeration. • **1 – disabled (default).** • **2 – enabled.**	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	The power priority	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low (default).**	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • **1 – signal.** • **2 – spare.**	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.

Contents

PoE 1
PoE/Capabilities 1
XML structure 1
Table description 1
Columns 1
PoE/PriorityPolicy 2
XML structure 2
Table description 2
Columns 3
PoE/Powers 3
XML structure 3
Table description 4
Columns 4
PoE/PSEs 5
XML structure 5
Table description 6
Columns 6
PoE/Ports 7
XML structure 7
Table description 8
Columns 8
PoE/Profiles 12
XML structure 12
Table description 12
Columns 13

PoE

PoE/Capabilities

This table contains PoE global capability information.

XML structure

```
<PoE>
  <Capabilities>
    <SupportPoE></SupportPoE>
    <PSEPolicy></PSEPolicy>
    <PDPolicy></PDPolicy>
    <PowerManage></PowerManage>
    <MaxPower></MaxPower>
    <PSEUpdate></PSEUpdate>
    <PowerMode></PowerMode>
    <PSEMaxPower></PSEMaxPower>
  </Capabilities>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportPoE	Whether Support PoE feature	N/A	Boolean: • **true** • **false**	N/A
PSEPolicy	Whether the system supports PSE power policy configuration	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PDPolicy	Whether the system supports PD power policy configuration	N/A	Boolean: • **true** • **false**	N/A
PowerManage	Whether the system supports PoE power management	N/A	Boolean: • **true** • **false**	N/A
MaxPower	Whether the system supports PoE power MaxPower configuration	N/A	Boolean: • **true** • **false**	N/A
PSEUpdate	Whether the system supports PSE firmware updating	N/A	Boolean: • **true** • **false**	N/A
PowerMode	Whether the system supports PoE port power mode configuration	N/A	Boolean: • **true** • **false**	N/A
PSEMaxPower	Whether the system supports PSE max power configuration	N/A	Boolean: • **true** • **false**	N/A

PoE/PriorityPolicy

This table contains PoE global priority policy information.

XML structure

```
<PoE>
  <PriorityPolicy>
    <PSEPolicyMode></PSEPolicyMode>
    <PDPolicyMode></PDPolicyMode>
  </PriorityPolicy>
</PoE>
```

Table description

Item	Description
Feature name	PoE

Table name	PriorityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicyMode	Mode of PSE power policy.	N/A	Enumeration. • **1 – disabled.** • **2 – priority.**	The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload. A value of priority(2) means that the power will stop supplying to the low priority PSE. A value of disabled(1) means that the power will stop supplying to the new inserted PSE.
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. • **1 – disabled.** • **2 – priority.**	The PD policy only applies to the situation that when a new PD is inserted, and the power of PSE is overload. A value of priority(2) means that the power will stop supplying to the low priority port PD. A value of disabled(1) means that the slot stop supplying to the new inserted PD.

PoE/Powers

This table contains PoE Power information.

XML structure

```
<PoE>
  <Powers>
```

```
    <Power>
      <PowerIndex></PowerIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <NominalPower></NominalPower>
      <CurrentPower></CurrentPower>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <RemainingGuaranteedPower></RemainingGuaranteedPower>
      <RemainingAllocablePower></RemainingAllocablePower>
      <PowerLimit></PowerLimit>
      <MaxPowerDefault></MaxPowerDefault>
      <MaxPowerUpper></MaxPowerUpper>
      <MaxPowerLower></MaxPowerLower>
    </Power>
  </Powers>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Powers
Table type	Multi-instance table
Row name	Power
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A
Chassis	ID of the member where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AveragePower	The average power m(W)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
RemainingAllocablePower	The remaining allocable power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A
MaxPowerDefault	The default value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerUpper	The upper value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerLower	The lower value of PoE power max power(mW)	N/A	Unsigned integer.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```
<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Model></Model>
      <NominalPower></NominalPower>
      <CurrentPower></CurrentPower>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <RemainingGuaranteedPower></RemainingGuaranteedPower>
      <PowerLimit></PowerLimit>
      <OperStatus></OperStatus>
      <UsageThreshold></UsageThreshold>
      <Priority></Priority>
      <Legacy></Legacy>
      <MaxPowerDefault></MaxPowerDefault>
      <MaxPowerUpper></MaxPowerUpper>
      <MaxPowerLower></MaxPowerLower>
```

```
      <PortMaxPowerDefault></PortMaxPowerDefault>
      <PortMaxPowerUpper></PortMaxPowerUpper>
      <PortMaxPowerLower></PortMaxPowerLower>
      <PowerIndex></PowerIndex>
    </PSE>
  </PSEs>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
Chassis	ID of the member where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	The number of Subslot where the PSE resides	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no slot number, return 65535.
Model	The type of the PSE	N/A	String. Length: 1 to 32 characters.	N/A
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OperStatus	The operational status of the PSE	N/A	Enumeration. • **1 – on.** • **2 – off.** • **3 – faulty.**	N/A
UsageThreshold	The usage threshold (%)	N/A	Unsigned integer. Value range: 1 to 99.	N/A
Priority	The power priority	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low.**	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. • **0 – enabled.** • **1 – disabled.**	N/A
MaxPowerDefault	The default max power value of this PSE(mW)	N/A	Unsigned integer.	N/A
MaxPowerUpper	The upper max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
MaxPowerLower	The lower max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPowerDefault	The default value of Port max power in this PSE(mW)	N/A	Unsigned integer.	N/A
PortMaxPowerUpper	The upper value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPowerLower	The lower value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A

PoE/Ports

This table contains PoE port information.

XML structure

```
<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
```

```
      <IfIndex></IfIndex>
      <AdminEnable></AdminEnable>
      <PairsControlAbility></PairsControlAbility>
      <Pairs></Pairs>
      <DetectionStatus></DetectionStatus>
      <Priority></Priority>
      <MPSAbsentCounter></MPSAbsentCounter>
      <PDDescription></PDDescription>
      <PowerClassifications></PowerClassifications>
      <InvalidSignatureCounter></InvalidSignatureCounter>
      <PowerDeniedCounter></PowerDeniedCounter>
      <OverLoadCounter></OverLoadCounter>
      <ShortCounter></ShortCounter>
      <FaultDescription></FaultDescription>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <CurrentPower></CurrentPower>
      <PowerLimit></PowerLimit>
      <PowerModeDefault></PowerModeDefault>
      <ProfileIndex></ProfileIndex>
      <ForcePower></ForcePower>
    </Port>
  </Ports>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see *Ifmgr NETCONF XML API Configuration Reference*.
AdminEnable	The admin enable status of an interface which can provide PSE functions	N/A	Boolean:. • **1 – true.** • **2 – false.**	N/A
PairsControlAbility	The capability of controlling the power pairs functionality to switch pins for sourcing power	N/A	Boolean:. • **1 – true.** • **2 – false.**	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • **1 – signal.** • **2 – spare.**	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionStatus	The operational status of the port PD detection	N/A	Enumeration. • **1 – disabled.** • **2 – searching.** • **3 – deliveringPower.** • **4 – fault.** • **5 – test.** • **6 – otherFault.** • **7 – pdDisconnected.**	disabled indicates that the PSE State diagram is in the state DISABLED. deliveringPower indicates that the PSE State diagram is in the state POWER_ON for a duration greater than the limit max (see IEEE Std 802.3af Table 33-5 tlim). fault indicates that the PSE State diagram is in the state TEST_ERROR. test indicates that the PSE State diagram is in the state TEST_MODE. otherFault indicates that the PSE State diagram is in the state IDLE due to the variable error_conditions. searching indicates the PSE State diagram is in a state other than those listed above. pdDisconnected indicates that the PSE State diagram is in the state DISCONNECTED.
Priority	The power priority	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low.**	N/A
MPSAbsentCounter	The counter for interface state diagram transitions directly from the state POWER_ON to the state IDLE	N/A	Unsigned integer.	N/A
PDDescription	The description for the Pd that is connected to the port.	N/A	String. Length: 1 to 80 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerClassifications	The Classification of the PD connected to the PoE interface	N/A	Enumeration. • **1 – class0.** • **2 – class1.** • **3 – class2.** • **4 – class3.** • **5 – class4.** • **6 – class5.** • **7 – class6.** • **8 – class7.** • **9 – class8.**	N/A
InvalidSignatureCounter	This counter is incremented when the PSE state diagram enters the state SIGNATURE_INVALID	N/A	Unsigned integer.	N/A
PowerDeniedCounter	This counter is incremented when the PSE state diagram enters the state POWER_DENIED	N/A	Unsigned integer.	N/A
OverLoadCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_OVER	N/A	Unsigned integer.	N/A
ShortCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_SHORT	N/A	Unsigned integer.	N/A
FaultDescription	The fault category	N/A	String. Length: 1 to 255 characters.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerModeDefault	The default mode of PoE port power mode	N/A	Enumeration. • **1 – signal.** • **2 – spare.**	N/A
ProfileIndex	The profile index applied to the Poe port	N/A	Unsigned integer.	N/A
ForcePower	The force power status of an interface which can provide PSE functions	N/A	Boolean: • **1 – true.** • **2 – false.**	N/A

PoE/Profiles

This table contains PoE profile information.

XML structure

```
<PoE>
  <Profiles>
    <Profile>
      <ProfileIndex></ProfileIndex>
      <ProfileName></ProfileName>
      <PowerMode></PowerMode>
      <PowerLimit></PowerLimit>
      <Priority></Priority>
      <Pairs></Pairs>
      <ApplyNumber></ApplyNumber>
    </Profile>
  </Profiles>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile	Index	Unsigned integer.	N/A
ProfileName	The name of profile	N/A	String. Length: 1 to 15 characters.	N/A
PowerMode	The power status of an interface which can provide PSE functions	N/A	Enumeration. • **1 – disabled.** • **2 – enabled.**	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
Priority	The power priority of the specified interface	N/A	Enumeration. • **1 – critical.** • **2 – high.** • **3 – low.**	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • **1 – signal.** • **2 – spare.**	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
ApplyNumber	The number of this profile which has been applied.	N/A	Unsigned integer.	N/A

Contents

PoE event stream 1
PSEPower event 1
XML structure for event subscription 1
XML structure for event report 2
PoEPort event 3
XML structure for event subscription 3
XML structure for event report 4

PoE event stream

PoE stream description.

PSEPower event

This event is used to report PSE usage power over threshold usage. Only supported on the default MDC.

XML structure for event subscription

```
<PSEPowerEvent>
  <PSEPower>
    <PSEID></PSEID>
  </PSEPower>
</PSEPowerEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PoE</stream>
    <filter type="subtree">
      <PSEPowerEvent xmlns="http://www.h3c.com/netconf/event:1.0/PoE:1.0">
        <PSEPower>
        <PSEID>1</PSEID>
        </PSEPower>
      </PSEPowerEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PoE
Event name	PSEPowerEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/PoE:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions
PSEID	Index of the PSE which the port belongs to	Unsigned integer.

XML structure for event report

```
<PSEPowerEvent>
  <PSEPower>
    <PSEID></PSEID>
    <Chassis></Chassis>
    <Slot></Slot>
    <SubSlot></SubSlot>
    <Event></Event>
    <CurrentPower></CurrentPower>
  </PSEPower>
</PSEPowerEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PSEPowerEvent xmlns="http://www.h3c.com/netconf/event:1.0/PoE:1.0">
    <PSEPower>
      <PSEID >1</PSEID>
      <Chassis>1</Chassis>
      <Slot>1</Slot>
      <SubSlot>65535</SubSlot>
      <Event>2</Event>
      <CurrentPower>3000</CurrentPower>
    </PSEPower>
  </PSEPowerEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Unsigned integer.	
Chassis	ID of the member where the power supply resides	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the power supply resides	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	The number of Subslot where the PSE resides	Unsigned integer. Value range: 1 to 65535.	If there is no subslot number, return 65535.
Event	Indicate what happens on PSE port.	Enumeration: • 1 - Power consumption exceed threshold • 2 - Power consumption recede below threshold	
CurrentPower	The current power (mW)	Unsigned integer.	

PoEPort event

This event is used to report PSE port detection status change.

XML structure for event subscription

```
<PoEPortEvent>
  <PoEPort>
    <PSEID></PSEID>
    <InterfaceName></InterfaceName>
  </PoEPort>
</PoEPortEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>PoE</stream>
    <filter type="subtree">
      <PoEPortEvent xmlns="http://www.h3c.com/netconf/event:1.0/PoE:1.0">
        <PoEPort>
          <PSEID>1</PSEID>
          <InterfaceName>GigabitEthernet1/0/1</InterfaceName>
        </PoEPort>
      </PoEPortEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PoE
Event name	PoEPortEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/PoE:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
PSEID	Index of the PSE which the port belongs to	Unsigned integer.	No
Interface Name	Interface name	String. Length: 2 to 47 characters. Example:	No

Column name	Column description	Data type and restrictions	Support for extended queries
		GigabitEthernet2/0/2	

XML structure for event report

```
<PoEPortEvent>
  <PoEPort>
    <PSEID></PSEID>
    <InterfaceName></InterfaceName>
    <Event></Event>
    <CurrentPower></CurrentPower>
  </PoEPort>
</PoEPortEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PoEPortEvent xmlns="http://www.h3c.com/netconf/event:1.0/PoE:1.0">
    <PoEPort>
      <PSEID>1</PSEID>
      <InterfaceName>GigabitEthernet1/0/1</InterfaceName>
      <Event>1</Event>
      <Status>3</Status>
    </PoEPort>
  </PoEPortEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Unsigned integer.	
Interface Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	
Event	Event Type	Enumeration: • 1 - Power On • 2 - Power Off	
Status	Indicate what happens on PSE port.	Enumeration: • 1 - Power Disabled • 2 - Power Searching • 3 - Power Delivering • 4 - Power fault • 5 - Test • 6 - Other Fault	

Column name	Column description	Data type and restrictions	Remarks
		• 7 - PD disconnected	

Contents

PortSecurity 1
PortSecurity/ResetStaticAccessUsers 1
XML structure 1
Table description 1
Columns 1

PortSecurity

PortSecurity/ResetStaticAccessUsers

This table logs off online port security static users.

XML structure

```
<PortSecurity>
  <ResetStaticAccessUsers>
    <IfIndex></IfIndex>
    <IPAddr></IPAddr>
    <MACAddr></MACAddr>
    <OnlineType></OnlineType>
    <UserName></UserName>
  </ResetStaticAccessUsers>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	ResetStaticAccessUsers
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	N/A	Unsigned integer.
IPAddr	IP address of the static user	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.
MACAddr	User MAC address	N/A	MAC address.
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successful. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.

Column name	Column description	Column type	Data type and restrictions
UserName	Username	N/A	String. Length: 1 to 253 characters.

Contents

PortSecurity 1
PortSecurity/Common 1
XML structure 1
Table description 1
Columns 2
PortSecurity/OUIList 4
XML structure 4
Table description 4
Columns 5
PortSecurity/Interfaces 5
XML structure 5
Table description 6
Columns 6
PortSecurity/InterfaceSecMAC 8
XML structure 8
Table description 8
Columns 9
PortSecurity/StaticUsers 9
XML structure 9
Table description 10
Columns 10
PortSecurity/StaticUserCommon 11
XML structure 11
Table description 12
Columns 12

PortSecurity

PortSecurity/Common

This table contains global port security information.

XML structure

```
<PortSecurity>
  <Common>
    <Enable></Enable>
    <MACMove></MACMove>
    <MoveType></MoveType>
    <AuthorStrict></AuthorStrict>
    <SecMACAgingInterval></SecMACAgingInterval>
    <IntrusionShutdownInterval></IntrusionShutdownInterval>
    <DrniLoadSharingMode></DrniLoadSharingMode>
    <MLagLoadSharingMode></MLagLoadSharingMode>
    <MacMoveOverwritLocal></MacMoveOverwritLocal>
    <FailDomainReauthInterval></FailDomainReauthInterval>
    <PreDomainReauthInterval></PreDomainReauthInterval>
    <FailDomainAgingInterval></FailDomainAgingInterval>
    <PreDomainAgingInterval></PreDomainAgingInterval>
    <CriticalDomainAgingInterval></CriticalDomainAgingInterval>
    <StaticUserACLNumber></StaticUserACLNumber>
    <StpTcMacMove></StpTcMacMove>
    <StpTcDetectPeriod></StpTcDetectPeriod>
    <StpTcDetectRetry></StpTcDetectRetry>
  </Common>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether port security is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
MACMove	Whether to enable port security MAC move	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A
MoveType	MAC move type	N/A	Enumeration: • **0**—All (default). • **1**—Port move on a device. • **2**—VLAN move on a port.	This column must be empty when you disable MAC move. The following MAC move types are available: • **All**—This type combines port move on a device and VLAN move on a port. • **Port move on a device**—The device allows an online user authenticated through 802.1X or MAC authentication on one port to be reauthenticated and come online on another port without going offline first. • **VLAN move on a port**—The device allows an online user authenticated through 802.1X or MAC authentication in one VLAN to be reauthenticated and come online in another VLAN on the same port without going offline first.
AuthorStrict	Whether to log off 802.1X or MAC authenticated users that have failed authorization	N/A	Boolean: • **true**—Logs off the users. • **false**—Keeps the users online (default).	N/A
SecMACAgingInterval	Value for the secure MAC address aging timer	N/A	Unsigned integer. Value range: 0 to 129600 minutes. Default: 0 minutes.	N/A
IntrusionShutdownInterval	Value for intrusion protection's port shutdown timer	N/A	Unsigned integer Value range: 20 to 300 seconds. Default: 20 seconds.	N/A
DrniLoadSharingMode	Load sharing mode of users on DR interfaces	N/A	Enumeration: • **0**—Centralized. • **1**—Distributed-local(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Distributed-odd-mac. • **3**—Distributed-even-mac.	
MLagLoadSharingMode	Load sharing mode of users on MLAG interfaces	N/A	Enumeration: • Centralized. • Distributed-local(default). • Distributed-odd-mac. • Distributed-even-mac.	N/A
MacMoveOverwritLocal	Whether to overwrite the local entry for a MAC address that has been moved to a remote device with the entry of that MAC address synchronized from the remote device	N/A	Boolean: • **true**—Yes (default). • **false**—No.	N/A
FailDomainReauthInterval	Value for the Auth-Fail domain user reauthentication timer	N/A	Unsigned integer Value range:0, 30 to 7200 seconds. Default: 600 seconds.	N/A
PreDomainReauthInterval	Value for the preauthentication domain user reauthentication timer	N/A	Unsigned integer Value range: 0,30 to 7200 seconds. Default: 600 seconds.	N/A
FailDomainAgingInterval	Value for the Auth-Fail domain user aging timer	N/A	Unsigned integer Value range:0, 60 to 4294860. Default: 82800 seconds.	N/A
PreDomainAgingInterval	Value for the preauthentication domain user aging timer	N/A	Unsigned integer Value range:0, 60 to 4294860. Default: 82800 seconds.	N/A
CriticalDomainAgingInterval	Value for the critical on domain user aging timer	N/A	Unsigned integer Value range: 0,60 to 4294860. Default: 82800 seconds.	N/A
StaticUserA	Layer 2 ACL	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CLNumber	number for matching MAC addresses that can only be authenticated as static users		Value range: 4000 to 4999	
StpTcMacMove	Whether to permit MAC move without authentication among ports in the same TC BPDU group	N/A	Boolean: • true—Yes (default). • false—No.	N/A
StpTcDetectPeriod	Value for the topology change detection period	N/A	Unsigned integer. Value range: 1 to 3600 seconds. Default: 5 seconds.	N/A
StpTcDetectRetry	Maximum number of attempts for sending a detection packet	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A

PortSecurity/OUIList

This table contains an OUI list for port security's OUI authentication.

XML structure

```
<PortSecurity>
  <OUIList>
    <OUIMAC>
      <Index></Index>
      <Address></Address>
    </OUIMAC>
  </OUIList>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	OUIList
Table type	Multi-instance table
Row name	OUIMAC
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	OUI index	Index	Unsigned integer. Value range: 1 to 16.	N/A
Address	An OUI string of a 48-bit MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	The system uses only the 24 high-order bits as the OUI value. The system does not limit the number of OUIs in the list.

PortSecurity/Interfaces

This table contains port security configuration on an interface.

XML structure

```
<PortSecurity>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthenMode></AuthenMode>
      <AuthorIgnore></AuthorIgnore>
      <ProtectionMode></ProtectionMode>
      <SecMACAgeMode></SecMACAgeMode>
      <SecMACSticky></SecMACSticky>
      <SecMACMaxCnt></SecMACMaxCnt>
      <FreeVlanList></FreeVlanList>
      <NTKMode></NTKMode>
      <SecMACDynamic></SecMACDynamic>
      <AuthenOrder></AuthenOrder>
      <UrlUnavailableDomain></UrlUnavailableDomain>
      <PreAuthDomain></PreAuthDomain>
      <MaxStaticUser></MaxStaticUser>
    </Interface>
  </Interfaces>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
AuthenMode	Authentication mode	N/A	Enumeration: • **1**—noRestrictions (default). • **2**—autoLearn. • **3**—macAddressWithRadius. • **4**—macAddressElseUserLoginSecure. • **5**—macAddressElseUserLoginSecureExt. • **6**—secure. • **7**—userLogin. • **8**—userLoginSecure. • **9**—userLoginSecureExt. • **10**—macAddressOrUserLoginSecure. • **11**—macAddressOrUserLoginSecureExt. • **12**—userLoginWithOUI. • **13**—macAddressAndUserLoginSecureExt.	N/A
AuthorIgnore	Whether to ignore authorization information from the server for users	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	logging on from the interface			
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: • **1**—Does not perform intrusion protection (default). • **2**—Adds the source MAC address of the illegal packet to the blocked MAC address list. • **3**—Shuts down the port that receives illegal packets permanently. • **4**—Shuts down the port that receives illegal packets for some time.	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: • **0**—Time aging (default). • **1**—Inactivity aging.	N/A
SecMACSticky	Whether to save secure MAC addresses on the interface to the startup configuration file	N/A	Boolean: • **true**—Yes (default). • **false**—No.	This column does not take effect.
SecMACMaxCnt	Maximum number of secure MAC addresses on the interface	N/A	Unsigned integer. Value range: 1 to 2147483647. Default: Not configured.	N/A
NTKMode	Need to Know mode	N/A	Enumeration: • **1**—NTK is disabled (default). • **2**—Allows only unicast packets and broadcasts with authenticated destination MAC addresses. • **3**—Allows unicast packets, multicasts, and broadcasts with authenticated destination MAC addresses. • **4**—Allows only unicast packets with authenticated destination MAC addresses.	N/A
FreeVlanList	Authentication free VLAN list	N/A	Number string. The string is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any	This column supports incremental editing. You can set the flag like “<FreeVlanList base:incremental="true">”. If the value is true, the VLAN list will be incrementally added or removed. If the value is false or

Column name	Column description	Column type	Data type and restrictions	Remarks
			whitespace characters.	no flag is set, the free VLANs issued on the current operation are all the effective free VLANs.
SecMACDynamic	Whether to enable the dynamic secure MAC feature	N/A	Boolean: • true—Yes. • false—No (default).	N/A
AuthenOrder	Authentication order in triple authentication	N/A	Enumeration: • 1—dot1x-mac-web (default). • 2—mac-dot1x-web.	N/A
UrlUnavailableDomain	URL-unavailable domain for users on the interface	N/A	String. Length: 1 to 255 characters. Default: No URL-unavailable domain is specified for authentication users.	N/A
PreAuthDomain	Previous authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxStaticUser	Max number of online static users	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 4294967295	N/A

PortSecurity/InterfaceSecMAC

This table contains port security's secure MAC addresses on interfaces.

XML structure

```
<PortSecurity>
  <InterfaceSecMAC>
    <SecureMAC>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <MAC></MAC>
      <Sticky></Sticky>
    </SecureMAC>
  </InterfaceSecMAC>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity

Item	Description
Table name	InterfaceSecMAC
Table type	Multi-instance table
Row name	SecureMAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
VLANID	VLAN ID for this secure MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	Secure MAC address	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
Sticky	Whether this secure MAC address can age out	N/A	Boolean: • **true**—Can age out. • **false**—Cannot age out (default).	N/A

PortSecurity/StaticUsers

This table contains port security static user configuration.

XML structure

```
<PortSecurity>
  <StaticUsers>
    <StaticUser>
      <IpType></IpType>
      <StartIP></StartIP>
      <EndIP></EndIP>
```

```
      <VRF></VRF>
      <Domain></Domain>
      <IfIndex></IfIndex>
      <Detect></Detect>
      <MacAddr></MacAddr>
      <VLANID></VLANID>
      <KeepOnline></KeepOnline>
    </StaticUser>
  </StaticUsers>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of IP address	Index	Enumeration: • **0**—Ipv4. • **1**—Ipv6.	N/A
StartIP	Start IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndIP	End IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Domain	ISP domain for static user authentication	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
IfIndex	Interface index	N/A	Unsigned integer.	This column need to be configured with VLANID.
Detect	Whether to send ARP messages to trigger authentication for static users that are not online	N/A	Boolean: • **true**—Yes. • **false**—No(default).	This column need to be configured with IfIndex.
MacAddr	Secure MAC address	N/A	MAC address.	N/A
VLANID	VLAN ID for static user access	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
KeepOnline	Whether to always allow the static users to stay online	N/A	Boolean: • **true**—Yes. • **false**—No(default).	N/A

PortSecurity/StaticUserCommon

This table contains port security static user information.

XML structure

```
<PortSecurity>
  <StaticUserCommon>
    <UserPassword></UserPassword>
    <UserNameFormat></UserNameFormat>
    <UserNameFormatMAC>
```

```
      <Section></Section>
      <Delimiter></Delimiter>
      <LowerCase></LowerCase>
      <PasswordWithMAC></PasswordWithMAC>
    </UserNameFormatMAC>
    <UpdateIP></UpdateIP>
    <OfflineDetect></OfflineDetect>
    <DetectPeriod></DetectPeriod>
  </StaticUserCommon>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	StaticUserCommon
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserPassword	Password for static users.	N/A	String, case-sensitive. Length: 1 to 63 characters. Default is not configured.	N/A
UserNameFormat	Username format	N/A	Enumeration: • **1**—IP address. • **2**—MAC addres. • **3**—system name Default:System name + IP address.	N/A
UserNameFormatMAC	Mac address format	Data structure	Members include: • Section. • Delimiter. • LowerCase. • PasswordWithMAC.	N/A
Section	Section of Mac address	N/A	Enumeration: • **1**—one section. • **2**—three section. • **3**—six section	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Delimiter	Delimiter to separate the sections in a MAC address	N/A	Enumeration: • **0**—hyphen.(default) • **1**—colon.	When configuring this column, the value of section must be three section or six section.
LowerCase	Whether to use Lowercase letters	N/A	Boolean: • **true**—Yes(default). • **false**—No.	This column need to be configured with Section.
PasswordWithMAC	Whether to use the MAC address of a static user as its password	N/A	Boolean: • **true**—Yes. • **false**—No(default).	This column need to be configured with Section.
UpdateIP	Whether to update ip of a static user as its password	N/A	Boolean: • **true**—Yes. • **false**—No(default).	N/A
OfflineDetect	Static user offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647, in seconds.	Default: 300 seconds.
DetectPeriod	Static user ARP detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647, in seconds.	Default: 180 seconds.

Contents

PortSecurity 1

PortSecurity/Common 1
XML structure 1
Table description 1
Columns 2
PortSecurity/OUIList 4
XML structure 4
Table description 4
Columns 4
PortSecurity/Interfaces 5
XML structure 5
Table description 5
Columns 6
PortSecurity/InterfaceSecMAC 8
XML structure 8
Table description 9
Columns 9
PortSecurity/InterfaceBlkMAC 9
XML structure 10
Table description 10
Columns 10
PortSecurity/StaticUsers 11
XML structure 11
Table description 11
Columns 11
PortSecurity/StaticUserCommon 12
XML structure 12
Table description 13
Columns 13
PortSecurity/InterfaceStaticUsers 14
XML structure 14
Table description 14
Columns 15
PortSecurity/AccessUsers 16
XML structure 16
Table description 17
Columns 17

PortSecurity

PortSecurity/Common

This table contains information about port security global parameters.

XML structure

```
<PortSecurity>
  <Common>
    <Enable></Enable>
    <MACMove></MACMove>
    <MoveType></MoveType>
    <AuthorStrict></AuthorStrict>
    <SecMACAgingInterval></SecMACAgingInterval>
    <IntrusionShutdownInterval></IntrusionShutdownInterval>
    <SecMACCnt></SecMACCnt>
    <DrniLoadSharingMode></DrniLoadSharingMode>
    <MLagLoadSharingMode></MLagLoadSharingMode>
    <MacMoveOverwritLocal></MacMoveOverwritLocal>
    <FailDomainReauthInterval></FailDomainReauthInterval>
    <PreDomainReauthInterval></PreDomainReauthInterval>
    <FailDomainAgingInterval></FailDomainAgingInterval>
    <PreDomainAgingInterval></PreDomainAgingInterval>
    <CriticalDomainAgingInterval></CriticalDomainAgingInterval>
    <StaticUserACLNumber></StaticUserACLNumber>
    <StpTcMacMove></StpTcMacMove>
    <StpTcDetectPeriod></StpTcDetectPeriod>
    <StpTcDetectRetry></StpTcDetectRetry>
  </Common>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether port security is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MACMove	Whether port security MAC move is enabled	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
MoveType	MAC move type	N/A	Enumeration: • **0**—All. • **1**—Port move on a device. • **2**—VLAN move on a port.	The following MAC move types are available: • **All**—This type combines port move on a device and VLAN move on a port. • **Port move on a device**—The device allows an online user authenticated through 802.1X or MAC authentication on one port to be reauthenticated and come online on another port without going offline first. • **VLAN move on a port**—The device allows an online user authenticated through 802.1X or MAC authentication in one VLAN to be reauthenticated and come online in another VLAN on the same port without going offline first.
AuthorStrict	Whether to log off 802.1X or MAC authenticated users that have failed authorization	N/A	Boolean: • **true**—Logs off the users. • **false**—Keeps the users online.	N/A
SecMACAgingInterval	Value for the secure MAC address aging timer	N/A	Unsigned integer. Value range: 0 to 129600 minutes.	N/A
IntrusionShutdownInterval	Value for intrusion protection's port shutdown timer	N/A	Unsigned integer. Value range: 20 to 300 seconds.	N/A
SecMACCnt	Number of secure MAC addresses in the system	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DrniLoadSharingMode	Load sharing mode of users on DR interfaces	N/A	Enumeration: • **0**—Centralized. • **1**—Distributed-local. • **2**—Distributed-odd-mac. • **3**—Distributed-even-mac.	N/A
MLagLoadSharingMode	Load sharing mode of users on MLAG interfaces	N/A	Enumeration: • Centralized. • Distributed-local. • Distributed-odd-mac. • Distributed-even-mac.	N/A
MacMoveOverwritLocal	Whether to overwrite the local entry for a MAC address that has been moved to a remote device with the entry of that MAC address synchronized from the remote device	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
FailDomainReauthInterval	Value for the Auth-Fail domain user reauthentication timer	N/A	Unsigned integer Value range:0, 30 to 7200 seconds.	N/A
PreDomainReauthInterval	Value for the preauthentication domain user reauthentication timer	N/A	Unsigned integer Value range: 0,30 to 7200 seconds.	N/A
FailDomainAgingInterval	Value for the Auth-Fail domain user aging timer	N/A	Unsigned integer Value range:0, 60 to 4294860.	N/A
PreDomainAgingInterval	Value for the preauthentication domain user aging timer	N/A	Unsigned integer Value range:0, 60 to 4294860.	N/A
CriticalDomainAgingInterval	Value for the critical on domain user aging timer	N/A	Unsigned integer Value range: 0,60 to 4294860.	N/A
StaticUserACLNumber	Layer 2 ACL number for matching MAC addresses **that can only be authenticated as static users**	N/A	Unsigned integer Value range: 4000 to 4999	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StpTcMacMove	Whether to permit MAC move without authentication among ports in the same TC BPDU group	N/A	Boolean: • true—Yes. • false—No.	N/A
StpTcDetectPeriod	Value for the topology change detection period	N/A	Unsigned integer. Value range: 1 to 3600 seconds.	N/A
StpTcDetectRetry	Maximum number of attempts for sending a detection packet	N/A	Unsigned integer. Value range: 1 to 10.	N/A

PortSecurity/OUIList

This table contains an OUI list for port security's OUI authentication.

XML structure

```
<PortSecurity>
  <OUIList>
    <OUIMAC>
      <Index></Index>
      <Address></Address>
    </OUIMAC>
  </OUIList>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	OUIList
Table type	Multi-instance table
Row name	OUIMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	OUI index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 16.	
Address	An OUI string of a 48-bit MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	The system uses only the 24 high-order bits as the OUI value. The system does not limit the number of OUIs in the list.

PortSecurity/Interfaces

This table contains port Security information on interfaces.

XML structure

```
<PortSecurity>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthenMode></AuthenMode>
      <AuthorIgnore></AuthorIgnore>
      <ProtectionMode></ProtectionMode>
      <SecMACAgeMode></SecMACAgeMode>
      <SecMACSticky></SecMACSticky>
      <SecMACMaxCnt></SecMACMaxCnt>
      <SecMACCurrentCnt></SecMACCurrentCnt>
      <NTKMode></NTKMode>
      <FreeVlanList></FreeVlanList>
      <SecMACDynamic></SecMACDynamic>
      <AuthenOrder></AuthenOrder>
      <UrlUnavailableDomain></UrlUnavailableDomain>
      <PreAuthDomain></PreAuthDomain>
      <MaxStaticUser></MaxStaticUser>
    </Interface>
  </Interfaces>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
AuthenMode	Authentication mode	N/A	Enumeration: • **1**—noRestrictions. • **2**—autoLearn. • **3**—macAddressWithRadius. • **4**—macAddressElseUserLoginSecure. • **5**—macAddressElseUserLoginSecureExt. • **6**—secure. • **7**—userLogin. • **8**—userLoginSecure. • **9**—userLoginSecureExt. • **10**—macAddressOrUserLoginSecure. • **11**—macAddressOrUserLoginSecureExt. • **12**—userLoginWithOUI. • **13**—macAddressAndUserLoginSecureExt.	N/A
AuthorIgnore	Whether to ignore authorization information from the server for users logging on from the interface	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: • **1**—Does not perform intrusion protection. • **2**—Adds the source MAC address of the illegal packet to the blocked MAC address list. • **3**—Shuts down the port that receives illegal packets permanently. • **4**—Shuts down the port that receives illegal packets for some time.	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: • **0**—Time aging. • **1**—Inactivity aging.	N/A
SecMACSticky	Whether to save secure MAC addresses on the interface to the startup configuration file	N/A	Boolean: • **true**—Yes. • **false**—No.	This column does not take effect.
SecMACMaxCnt	Maximum number of secure MAC addresses on the interface	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
SecMACCurrentCnt	Current number of secure MAC addresses on the interface	N/A	Unsigned integer. Value range: 0 to 2147483647.	N/A
NTKMode	Need to Know mode	N/A	Enumeration: • **1**—NTK is disabled. • **2**—Allows only unicast packets and broadcasts with authenticated destination MAC addresses. • **3**—Allows unicast packets, multicasts, and broadcasts with authenticated destination MAC addresses. • **4**—Allows only unicast packets with authenticated destination MAC addresses.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FreeVlanList	Authentication free VLAN list	N/A	Number string. The string is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	This column supports incremental editing. You can set the flag like “<FreeVlanList base:incremental="true ">”. If the value is true, the VLAN list will be incrementally added or removed. If the value is false or no flag is set, the free VLANs issued on the current operation are all the effective free VLANs.
SecMACDynamic	Whether to enable the dynamic secure MAC feature	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
AuthenOrder	Authentication order in triple authentication	N/A	Enumeration: • 1—dot1x-mac-web. • 2—mac-dot1x-web.	N/A
UrlUnavailableDomain	URL-unavailable domain for users on the interface	N/A	String. Length: 1 to 255 characters.	N/A
PreAuthDomain	Previous authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxStaticUser	Max number of online static users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

PortSecurity/InterfaceSecMAC

This table contains port security's secure MAC addresses on interfaces.

XML structure

```
<PortSecurity>
  <InterfaceSecMAC>
    <SecureMAC>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <MAC></MAC>
      <Sticky></Sticky>
      <TimeLeft></TimeLeft>
    </SecureMAC>
  </InterfaceSecMAC>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceSecMAC
Table type	Multi-instance table
Row name	SecureMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
VLANID	VLAN ID for this secure MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	Secure MAC address	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
Sticky	Whether this secure MAC address can age out	N/A	Boolean: • **true**—Can age out. • **false**—Cannot age out.	N/A
TimeLeft	Remaining aging time for this MAC address	N/A	Unsigned integer.	If the remaining aging time is less than 60 seconds, the aging time is counted in seconds. If the aging time is not less than 60 seconds, the aging time is counted in minutes.

PortSecurity/InterfaceBlkMAC

This table contains port security intrusion protection's blocked MAC addresses on interfaces.

XML structure

```
<PortSecurity>
  <InterfaceBlkMAC>
    <BlockMAC>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <MAC></MAC>
    </BlockMAC>
  </InterfaceBlkMAC>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceBlkMAC
Table type	Multi-instance table
Row name	BlockMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
VLANID	VLAN ID for this blocked MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	MAC address blocked by intrusion protection	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A

PortSecurity/StaticUsers

This table contains port security static user configuration.

XML structure

```
<PortSecurity>
  <StaticUsers>
    <StaticUser>
      <IpType></IpType>
      <StartIP></StartIP>
      <EndIP></EndIP>
      <VRF></VRF>
      <Domain></Domain>
      <IfIndex></IfIndex>
      <Detect></Detect>
      <MacAddr></MacAddr>
      <VLANID></VLANID>
      <KeepOnline></KeepOnline>
    </StaticUser>
  </StaticUsers>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of IP address	Index	Enumeration: • **0**—Ipv4. • **1**—Ipv6.	N/A
StartIP	Start IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndIP	End IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Domain	ISP domain for static user authentication	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
IfIndex	Interface index	N/A	Unsigned integer.	N/A
Detect	Whether to send ARP messages to trigger authentication for static users that are not online	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
MacAddr	Secure MAC address	N/A	MAC address.	N/A
VLANID	VLAN ID for static user access	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
KeepOnline	Whether to always allow the static users to stay online	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

PortSecurity/StaticUserCommon

This table contains port security static user information.

XML structure

```
<PortSecurity>
  <StaticUserCommon>
    <UserPassword></UserPassword>
    <UserNameFormat></UserNameFormat>
    <UserNameFormatMAC>
      <Section></Section>
      <Delimiter></Delimiter>
      <LowerCase></LowerCase>
      <PasswordWithMAC></PasswordWithMAC>
    </UserNameFormatMAC>
    <UpdateIP></UpdateIP>
    <OfflineDetect></OfflineDetect>
    <DetectPeriod></DetectPeriod>
  </StaticUserCommon>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	StaticUserCommon
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserPassword	Password for static users.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
UserNameFormat	Username format	N/A	Enumeration: • **1**—ip address. • **2**—mac addres. • **3**—sysyem address	N/A
UserNameFormatMAC	Mac address format	Data structure	Members include: • Section. • Delimiter. • LowerCase. • PasswordWithMAC.	N/A
Section	Section of Mac address	N/A	Enumeration: • **1**—one section. • **2**—three section. • **3**—six section	N/A
Delimiter	Delimiter to separate the sections in a MAC address	N/A	Enumeration: • **0**—hyphen. • **1**—colon.	N/A
LowerCase	Whether to use Lowercase letters	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
PasswordWithMAC	Whether to use the MAC address of a static user as its password	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
UpdateIP	Whether update ip of a static user as its password	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
OfflineDetect	Static user offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectPeriod	Static user ARP detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647, in seconds.	N/A

PortSecurity/InterfaceStaticUsers

This table displays port security static user information.

XML structure

```
<PortSecurity >
  <InterfaceStaticUsers>
    <InterfaceStaticUser>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Name></Name>
      <Domain></Domain>
      <InitialVLAN></InitialVLAN>
      <AuthzVLAN></AuthzVLAN>
      <AuthzACLGroup></AuthzACLGroup>
      <AuthzUserProfile></AuthzUserProfile>
      <TermAction></TermAction>
      <TimeoutPeriod></TimeoutPeriod>
      <LogonTime></LogonTime>
      <OnlineDuration></OnlineDuration>
      <AuthzVSI></AuthzVSI>
      <AuthzMicroSegmentID></AuthzMicroSegmentID>
      <AuthzURL></AuthzURL>
      <AuthzIPv6URL></AuthzIPv6URL>
      <DrniNasIpType></DrniNasIpType>
      <DrniUserState></DrniUserState>
      <MLagNasIpType></MLagNasIpType>
      <MLagUserState></MLagUserState>
      <OnlineType></OnlineType>
    </InterfaceStaticUser>
  </InterfaceStaticUsers>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceStaticUsers
Table type	Multi-instance table

Row name	InterfaceStaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
UserMAC	MAC address of the user on the interface	Index	MAC address.	N/A
Name	Username of the user	N/A	String. Length: 1 to 253 characters.	N/A
Domain	ISP domain used for MAC authentication	N/A	String. Length: 1 to 255 characters.	N/A
InitialVLAN	VLAN to which the user belongs before MAC authentication	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
AuthzVLAN	VLAN authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
AuthzACLGroup	ACL authorized to the authenticated user	N/A	Unsigned integer.	N/A
AuthzUserProfile	User profile authorized to the authenticated user	N/A	String.	N/A
TermAction	Action attribute assigned by the AAA server when the session timeout timer expires	N/A	Enumeration: • **0**—Default. • **1—**Radius-request.	N/A
TimeoutPeriod	Value for the AAA server-assigned session timeout timer	N/A	Unsigned integer	N/A
LogonTime	Time at which the user logs into the device	N/A	String. Format: YYYY-MM-DD HH:MM:SS.	N/A
OnlineDuration	Online duration of the user	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthzVSI	VSI name allocated for authenticated user by the AAA server	N/A	String. Length: 1 to 31 characters.	N/A
AuthzMicroSegmentID	Microsegment ID authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 65535	N/A
AuthzURL	URL assigned to the user after the user passes authentication	N/A	String. Length: 1 to 255 characters.	N/A
AuthzIPv6URL	IPv6 URL assigned to the user after the user passes authentication	N/A	String. Length: 1 to 255 characters.	N/A
DrniNasIpType	In DRNI networking, the nas ip address type used for user authentication on DR interface	N/A	Enumeration: • **1**—Local. • **2**—Peer.	N/A
DrniUserState	User status on DR interface in DRNI network	N/A	Enumeration: • **0**—Inactive. • **1**—Active.	N/A
MLagNasIpType	In an M-LAG system, the NAS IP address type used for user authentication on M-LAG interfaces	N/A	Enumeration: • Local. • Peer.	N/A
MLagUserState	User status on M-LAG interfaces	N/A	Enumeration: • Inactive. • Active.	N/A
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successfull. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.	N/A

PortSecurity/AccessUsers

This table displays port security access user information.

XML structure

```
<PortSecurity >
```

```
  <AccessUsers>
    <AccessUser>
      <AccessType></AccessType>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <UserName></UserName>
      <UserIP></UserIP>
      <Domain></Domain>
      <AuthzMicroSegmentID></AuthzMicroSegmentID>
      <DrniNasIpType></DrniNasIpType>
      <DrniUserState></DrniUserState>
      <MLagNasIpType></MLagNasIpType>
      <MLagUserState></MLagUserState>
      <OnlineType></OnlineType>
    </AccessUser>
  </AccessUsers>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	AccessUsers
Table type	Multi-instance table
Row name	AccessUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessType	Type of the user	Index	Enumeration: • **1**—802.1X authentication. • **2**—MAC authentication. • **3**—Web authentication. • **4**—Static user access.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A
UserMAC	MAC address of the user on the interface	Index	MAC address.	N/A
UserName	Username of the user	N/A	String. Length: 1 to 253 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserIP	IP address of the user	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
Domain	ISP domain used for MAC authentication	N/A	String. Length: 1 to 255 characters.	N/A
AuthzMicroSegmentID	Microsegment ID authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 65535	N/A
DrniNasIpType	In DRNI networking, the nas ip address type used for user authentication on DR interface	N/A	Enumeration: • **1**—Local. • **2**—Peer.	N/A
DrniUserState	User status on DR interface in DRNI network	N/A	Enumeration: • **0**—Inactive. • **1**—Active	N/A
MLagNasIpType	In an M-LAG system, the NAS IP address type used for user authentication on M-LAG interfaces	N/A	Enumeration: • Local. • Peer.	N/A
MLagUserState	User status on M-LAG interfaces	N/A	Enumeration: • Inactive. • Active	N/A
OnlineType	Type of online users	N/A	Enumeration: • **1**—Successful. • **2**—Preauth domain. • **3**—Auth-Fail domain. • **4**—Critical domain.	N/A

Contents

Portsec 1
Portsec/Init 1

Portsec

Portsec/Init

Message	Explanation
Can't set the security mode to autoLearn before you set the maximum number of users. 不能设置端口安全为自动学习模式，因为最大MAC地址数没有设置。	Can't set the security mode to autoLearn before you set the maximum number of users. 不能设置端口安全为自动学习模式，因为最大MAC地址数没有设置。
Can't enable port security when 802.1X is already enabled. 使能端口安全失败，因为已经使能802.1X。	Can't enable port security when 802.1X is already enabled. 使能端口安全失败，因为已经使能802.1X。
Can't enable port security when MAC authentication is already enabled. 使能端口安全失败，因为已经使能MAC地址认证。	Can't enable port security when MAC authentication is already enabled. 使能端口安全失败，因为已经使能MAC地址认证。
Can't change the port security mode. Please change the mode to noRestriction first. 不能更改端口安全模式。请首先更改为noRestriction模式。	Can't change the port security mode. Please change the mode to noRestriction first. 不能更改端口安全模式。请首先更改为noRestriction模式。
The number can't be less than the current number of secure MAC addresses. 配置的最大MAC地址数不能小于当前MAC地址数。	The number can't be less than the current number of secure MAC addresses. 配置的最大MAC地址数不能小于当前MAC地址数。
The maximum number of secure MAC addresses is not configurable in autoLearn mode. 在autoLearn模式下不能配置最大MAC地址数。	The maximum number of secure MAC addresses is not configurable in autoLearn mode. 在autoLearn模式下不能配置最大MAC地址数。
Can't configure port security mode on an 802.1X-enabled port. 不能配置端口安全模式，因为已经使能端口的802.1X功能。	Can't configure port security mode on an 802.1X-enabled port. 不能配置端口安全模式，因为已经使能端口的802.1X功能。
Can't configure port security mode on the port when 802.1X access control is not MAC based. 不能配置端口安全模式，因为802.1X端口接入方式不是基于MAC认证。	Can't configure port security mode on the port when 802.1X access control is not MAC based. 不能配置端口安全模式，因为802.1X端口接入方式不是基于MAC认证。
Can't configure port security mode on the port when 802.1X port authorization state is not auto. 不能配置端口安全模式，因为802.1X端口授权状态不是自动识别。	Can't configure port security mode on the port when 802.1X port authorization state is not auto. 不能配置端口安全模式，因为802.1X端口授权状态不是自动识别。
Can't configure port security mode on a MAC authentication-enabled port. 不能配置端口安全模式，因为已经使能端口的MAC地址认证功能。	Can't configure port security mode on a MAC authentication-enabled port. 不能配置端口安全模式，因为已经使能端口的MAC地址认证功能。
Can't enable port security on a link aggregation member port. 不能使能端口安全，因为这是一个聚合成员接口。	Can't enable port security on a link aggregation member port. 不能使能端口安全，因为这是一个聚合成员接口。
Can't add secure MAC addresses when port	Can't add secure MAC addresses when port security is disabled.

security is disabled. 不能添加安全MAC地址，因为端口安全没有使能。	不能添加安全MAC地址，因为端口安全没有使能。
Can't add secure MAC addresses on the port when the port security mode is not autoLearn. 不能添加安全MAC地址，因为该接口上的端口不是autoLearn模式。	Can't add secure MAC addresses on the port when the port security mode is not autoLearn. 不能添加安全MAC地址，因为该接口上的端口不是autoLearn模式。
Can't add secure MAC addresses when the maximum number of secure MAC addresses on the port is already reached. 不能添加安全MAC地址，因为接口上的安全MAC地址数已经达到了最大值。	Can't add secure MAC addresses when the maximum number of secure MAC addresses on the port is already reached. 不能添加安全MAC地址，因为接口上的安全MAC地址数已经达到了最大值。
Invalid MAC address. 无效的MAC地址。	Invalid MAC address. 无效的MAC地址。
The MAC address already exists on another interface. MAC地址已经在其他接口上存在。	The MAC address already exists on another interface. MAC地址已经在其他接口上存在。
Sticky can not be modified. Sticky属性不能被修改。	Sticky can not be modified. Sticky属性不能被修改。
Can't add sticky MAC addresses when dynamic secure MAC is enabled. 在动态模式下不能添加静态MAC地址。	Can't add sticky MAC addresses when dynamic secure MAC is enabled. 在动态模式下不能添加静态MAC地址。
No security MAC address matches the specified condition. 安全MAC地址和指定的环境不匹配。	No security MAC address matches the specified condition. 安全MAC地址和指定的环境不匹配。
Please create the VLAN first. 请首先创建相应的VLAN。	Please create the VLAN first. 请首先创建相应的VLAN。
The port is not assigned to the VLAN, or the VLAN is not permitted on the port. 该接口没有绑定VLAN，或者VLAN不允许该接口。	The port is not assigned to the VLAN, or the VLAN is not permitted on the port. 该接口没有绑定VLAN，或者VLAN不允许该接口。
The OUI value already exists. OUI值已经存在。	The OUI value already exists. OUI值已经存在。
The OUI index already exists. OUI索引已经存在。	The OUI index already exists. OUI索引已经存在。
OUI value must be specified. 没有指定OUI值。	OUI value must be specified. 没有指定OUI值。
Can't enable port security when EAD assistant is already enabled. 使能端口安全失败，因为已经使能EAD快速部署。	Can't enable port security when EAD assistant is already enabled. 使能端口安全失败，因为已经使能EAD快速部署。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。
The NTK feature can't be configured on aggregate interfaces. 聚合接口不能配置NTK特性。	The NTK feature can't be configured on aggregate interfaces. 聚合接口不能配置NTK特性。

The free VLAN feature is not supported on the port. 该接口不支持配置FreeVlan	The free VLAN feature is not supported on the port. 该接口不支持配置FreeVlan
Can't enable port security on an IPP port. 不能使能端口安全，因为这是一个IPP接口。	Can't enable port security on an IPP port. 不能使能端口安全，因为这是一个IPP口。
This operation conflicts with Guest VLAN/VSI, Auth-fail VLAN/VSI and Critical VLAN/VSI/microsegment/profile of 802.1X, MAC authentication or Web authentication. 不能配置前域，因为已经存在802.1X、MAC认证或者Web认证的guest/fail/critical vlan/vsi/microsegment/profile配置。	This operation conflicts with Guest VLAN/VSI, Auth-fail VLAN/VSI and Critical VLAN/VSI/microsegment/profile of 802.1X, MAC authentication or Web authentication. 不能配置前域，因为已经存在802.1X、MAC认证或者Web认证的guest/fail/critical vlan/vsi/microsegment/profile配置。
This operation conflicts with the guest VLAN or VSI, Auth-Fail VLAN or VSI, and critical VLAN, VSI, microsegment, or profile settings of 802.1X, MAC authentication, or Web authentication. 此操作与802.1x、MAC地址认证或Web认证的Guest VLAN/VSI, Auth-fail VLAN/VSI和Critical VLAN/VSI/microsegment/profile冲突。	The URL-unavailable domain configuration conflicts with the guest VLAN or VSI, Auth-Fail VLAN or VSI, and critical VLAN, VSI, microsegment, or profile settings of 802.1X, MAC authentication, or Web authentication. URL逃生域配置与Guest VLAN/VSI、Auth-fail VLAN/VSI以及Critical VLAN/VSI/microsegment/profile配置互斥。
Port security only support configure mac move. 端口安全只支持Mac-Move命令的配置。	Port security only support configure mac move. 端口安全只支持Mac-Move命令的配置。
If both deployed, MLagLoadSharingMode and DrniLoadSharingMode must set the same load sharing mode. 新旧形式的MLagLoadSharingMode与DrniLoadSharingMode同时下发时，必须下发相同的负载分担模式。	You must set the same value for MLagLoadSharingMode and DrniLoadSharingMode if they are both configured. 新旧形式的MLagLoadSharingMode与DrniLoadSharingMode下发的负载分担模式必须相同。

Contents

Portal 1
Portal/UserAccessSwitch 1
XML structure 1
Table description 1
Columns 1
Portal/DelForbiddenRule 1
XML structure 2
Table description 2
Columns 2
Portal/DelFreeRule 3
XMLstructure 3
Table description 4
Columns 4
Portal/DelPortalUser 6
XML structure 6
Table description 6
Columns 6

Portal

Portal/UserAccessSwitch

Portal user access net switch table.

XML structure

```
<Portal>
  <UserAccessSwitch>
    <AccessSwitch>
      <IPAddress></IPAddress>
      <Switch></Switch>
    </AccessSwitch>
  </UserAccessSwitch>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	UserAccessSwitch
Table type	Multi-instance table
Row name	AccessSwitch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example:1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Switch	Net Access.	N/A	Boolean: • **false**—OFF. • **true**—ON.	N/A

Portal/DelForbiddenRule

This table is used to delete portal-forbidden rules.

XML structure

```
<Portal>
  <DelForbiddenRules>
    <DelForbiddenRule>
      <SrcIPAddr></SrcIPAddr>
      <SrcIPAddrLen></SrcIPAddrLen>
      <SrcProtocolType></SrcProtocolType>
      <SrcPortStart></SrcPortStart>
      <SrcPortEnd></SrcPortEnd>
      <DstIPAddr></DstIPAddr>
      <DstIPAddrLen></DstIPAddrLen>
      <DstProtocolType></DstProtocolType>
      <DstPortStart></DstPortStart>
      <DstPortEnd></DstPortEnd>
      <DstHostName></DstHostName>
      <SrcSsidName></SrcSsidName>
    </DelForbiddenRule>
  </DelForbiddenRules>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	DelForbiddenRules
Table type	Multi-instance table
Row name	DelForbiddenRule
Restrictions	Not support modify

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
SrcProtocolType	Source protocol type	N/A	Enumeration: • 6—TCP. • 17—UDP.	N/A
SrcPortStart	Start port	N/A	Non-negative integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number for the source protocol		Value range: 0 to 65535.	
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer Value range:0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
DstIPAddrLen	Subnet mask of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: • 6—TCP. • 17—UDP.	N/A
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstHostName	Destination hostname	N/A	String. Length: 1 to 253 characters.	N/A
SrcSsidName	Source SSID name	N/A	String. Length: 1 to 32 characters.	N/A

Portal/DelFreeRule

This table is used to delete portal-free rules

XMLstructure

```
<Portal>
  <DelFreeRules>
    <DelFreeRule>
      <Layer3>
        <SrcIPAddr></SrcIPAddr>
        <SrcIPAddrLen></SrcIPAddrLen>
        <SrcProtocolType></SrcProtocolType>
        <SrcPortStart></SrcPortStart>
        <SrcPortEnd></SrcPortEnd>
        <DstIPAddr></DstIPAddr>
        <DstIPAddrLen></DstIPAddrLen>
        <DstProtocolType></DstProtocolType>
```

```
      <DstPortStart></DstPortStart>
      <DstPortEnd></DstPortEnd>
    </Layer3>
    <Layer2>
      <SrcIfIndex></SrcIfIndex>
      <SrcVlan></SrcVlan>
      <SrcMacAddr></SrcMacAddr>
    </Layer2>
    <ObjGroupName></ObjGroupName>
    <HostName></HostName>
  </DelFreeRule>
 </DelFreeRules>
</Portal>
```

Table description

Item	**Description**
Table description	Portal FreeRule information table
Table type	Multi-instance table
Feature name	Portal
Table name	DelFreeRules
Row name	DelFreeRule
Restrictions	Not support modify

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Layer3	Layer3 information	Data structure	Members include: • SrcIPAddr • SrcIPAddrLen • SrcProtocolType • SrcPortStart • SrcPortEnd • DstIPAddr • DstIPAddrLen • DstProtocolType • DstPortStart • DstPortEnd	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
SrcProtocolType	Source	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol type		• 6—TCP • 17—UDP	
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
DstIPAddrLen	Subnet mask of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: • 6—TCP • 17—UDP	N/A
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535,	N/A
Layer2	Layer2 information	Data structure	Members include: • SrcIfIndex • SrcVlan • SrcMacAddr	N/A
SrcIfIndex	Source interface index	N/A	Non-negative integer. Value range: 1 to 3221225471	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	String: Format: HH-HH-HH-HH-HH-HH.	N/A
ObjGroupName	Source object group	N/A	String, Length: 1 to 63 characters.	N/A
HostName	Host name	N/A	String. Length: 1 to 253 characters.	N/A

Portal/DelPortalUser

This table is used to delete a portal user.

XML structure

```
<Portal>
  <DelPortalUsers>
    <DelPortalUser>
      <IPAddress></IPAddress>
      <MacAddress></MacAddress>
      <UserName></UserName>
    </DelPortalUsers>
  </DelPortalUser>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	DelPortalUsers
Table type	Multi-instance table
Row name	DelPortalUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and **restrictions**	Remarks
IPAddress	IP address of a user	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example:1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
UserName	Username	N/A	String. Length: 1 to 253 characters.	N/A
MacAddress	MAC address of the user	N/A	MAC address in the H-H-H format.	N/A

Contents

Portal 1

Portal/PortalServers 1
XMLstructure 1
Table description 1
Columns 2
Portal/WebServers 3
XMLstructure 3
Table description 3
Columns 4
Portal/UrlParams 5
XML structure 5
Table description 5
Columns 6
Portal/FreeRule 6
XML structure 6
Table information 7
Columns 7
Portal/Interfaces 10
XML structure 10
Table description 10
Columns 11
Portal/IPv4Interfaces 11
XML structure 11
Table description 12
Columns 12
Portal/IPv6Interfaces 14
XML structure 14
Table description 15
Columns 15
Portal/IPv4ServiceTemplates 17
XML structure 17
Table description 18
Columns 18
Portal/ IPv6ServiceTemplates 20
XML structure 20
Table description 21
Columns 21
Portal/WebRedirects 23
XML structure 23
Table description 24
Columns 24
Portal/Ipv4AuthNetworks 25
XML structure 25
Table description 25
Columns 25
Portal/Ipv6AuthNetworks 26
XML structure 26
Table description 26
Columns 27
Portal/GlobalConf 27
XML structure 27
Table description 28
Columns 28
Portal/ProxyConf 30
XML structure 30
Table description 31
Columns 31

Portal/LocalWebServers ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 32
Portal/SelfDefSsidPage ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 33
Portal/SelfDefDevTypePage ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 34
Portal/SelfDefDevNamePage ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 35
Portal/SelfDefSsidDevTypePage ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
Portal/SelfDefSsidDevNamePage ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 38
Portal/SelfDefDevTypeNamePage ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 39
Portal/SelfDefPage ····· 39
XML structure ····· 39
Table description ····· 40
Columns ····· 40
Portal/ExtendAuthServers ····· 40
XML structure ····· 40
Table description ····· 41
Columns ····· 41
Portal/MacTriggerServers ····· 42
XML structure ····· 42
Table description ····· 43
Columns ····· 43
Portal/ForbiddenRule ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
Portal/RedirectOriginalUrl ····· 47
XMLstructure ····· 47
Table description ····· 47
Columns ····· 48
Portal/RedirectUserAgent ····· 48
XMLstructure ····· 48
Table description ····· 48
Columns ····· 49
Portal/TempPassOriginalUrl ····· 49
XMLstructure ····· 49
Table description ····· 49
Columns ····· 50
Portal/TempPassUserAgent ····· 50
XMLstructure ····· 50
Table description ····· 50
Columns ····· 51
Portal/TempPassOriginalUrlUserAgent ····· 51
XMLstructure ····· 51

Table description ····· 52
Columns ····· 52
Portal/RoamingCenterCfg ····· 52
XMLstructure ····· 52
Table description ····· 53
Columns ····· 53
Portal/AccessInfo ····· 54
XML structure ····· 54
Table description ····· 54
Columns ····· 54

Portal

Portal/PortalServers

XMLstructure

```
<Portal>
  <PortalServers>
    <PortalServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
        <Key></Key>
      </IPAddressInfo>
      <Port></Port>
      <Detect>
        <TimeOut></TimeOut>
        <Action></Action>
      </Detect>
      <UserSyncTime></UserSyncTime>
      <ServerType></ServerType>
      <LogoutNotify>
        <Retry></Retry>
        <Interval></Interval>
      </LogoutNotify>
    </PortalServer>
  </PortalServers>
</Portal>
```

Table description

Item	Description
Table description	Portal Server information table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServers
Row name	PortalServer
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	**Remarks**
Name	Portal server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal server address	Data structure	Members include: IPAddress VRF Key	The IPAddress must be set for this column.
IPAddress	IP address of the portal server	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal server and the device. It supports only plaintext.
Port	Port number	N/A	Non-negative integer. Value range: 1 to 65534.	The default is 50100.
Detect	Portal server detection	Data structure	Members include: TimeOut Action	When you set the structure, the Action must be set. The timeout is 60 by default if not set.
TimeOut	Detection timeout	N/A	Non-negative integer. Value range: 10 to 3600 seconds.	The default is 60.
Action	Action to be performed when the detection times out.	N/A	Enumeration: • 1—log • 2—trap • 3—Both	N/A
UserSyncTime	User synchronization time	N/A	Non-negative integer. Value range: 60 to 18000 seconds.	The default is 1200.
ServerType	Server Type	N/A	Enumeration:	The default type of the server binding is IMC.

			• 0—IMC • 1—CMCC	
LogoutNotify	Portal logout notify	Data structure	Members include: • Retry • Interval	N/A
Retry	Maximum retransmission times	N/A	Non-negative integer. Value range: 1 to 5.	N/A
Interval	Retransmission times	N/A	Non-negative integer. Value range: 1 to 10.	N/A

Portal/WebServers

XMLstructure

```
<Portal>
  <WebServers>
    <WebServer>
      <Name></Name>
      <Url></Url>
      <Detect>
        <Interval></Interval>
        <Retry></Retry>
        <Action></Action>
      </Detect>
      <VRF></VRF>
      <CaptiveBypass></CaptiveBypass>
      <ServerType></ServerType>
      <ServerDetect>
        <DetectUrl></DetectUrl>
        <DetectType></DetectType>
      </ServerDetect>
    </WebServer>
  </WebServers>
</Portal>
```

Table description

Item	Description
Description	Portal WebServer information table
Table type	Multi-instance table
Feature name	Portal

Table name	WebServers
Row name	WebServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type andrestrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
Url	Redirect URL	N/A	String. Length: 1 to 256 characters.	N/A
Detect	Web server detection	Data structure	Members include: • Interval • Retry • Action	The Action must be included.
Interval	Detection interval	N/A	Non-negative integer. Value range: 10 to 1200 seconds.	The default is 20
Retry	Maximum number of server detection attempts.	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3
Action	Action to be performed when the detection attempts reaches the maximum number.	N/A	Enumeration: • 1—log • 2—trap • 3—Both	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal Web server is on the public network, the length of characters is 0.
CaptiveBypass	Captive bypass for ios or android	N/A	Enumeration: • 0—default • 1—enable • 2—optimize enable • 5—ios enable • 6—android enable	N/A
ServerType		N/A	Enumeration: • 0—IMC.	N/A

	Type of the portal Web server		• 1—CMCC. • 2—OAUTH. • 3—NOC. • 4—WIFIDOG • 5—ISE Default: 0	
ServerDetect	Portal Web server detection info.	Data structure	Members include: ● DetectUrl ● DetectType	N/A
DetectUrl	URL for portal Web server detection.	N/A	String. Length: 1 to 256 characters.	N/A
DetectType	Portal Web server detection type.	N/A	Enumeration: ● 0—TCP ● 1—HTTP Default:0	N/A

Portal/UrlParams

XML structure

```
<Portal>
  <UrlParams>
    <UrlParam>
      <WebServerName></WebServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</Portal>
```

Table description

Item	Description
Table description	Portal WebServer parameter information table
Table type	Multi-instance table
Feature name	Portal
Table name	UrlParams
Row name	UrlParam
Restrictions	There is no limit on the number of parameters carried in a Web server URL.
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
ParamName	Parameter name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column configures the parameter name carried in the redirect URL.
ParamType	Parameter type	N/A	Enumeration: • 0—source-address • 1—source-mac • 2—original-url • 3—selfDefine • 11—bas-ip	This column must be defined.
SelfDefValue	Self-defined parameter	N/A	String. Length: 1 to 256 characters.	This column takes effect when the ParamType is selfDefine.

Portal/FreeRule

XML structure

```
<Portal>
  <FreeRules>
    <FreeRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
      <Description></Description>
      <Layer3>
        <SrcIPAddr></SrcIPAddr>
        <SrcIPAddrLen></SrcIPAddrLen>
        <SrcProtocolType></SrcProtocolType>
        <SrcPortStart></SrcPortStart>
        <SrcPortEnd></SrcPortEnd>
        <DstIPAddr></DstIPAddr>
        <DstIPAddrLen></DstIPAddrLen>
        <DstProtocolType></DstProtocolType>
        <DstPortStart></DstPortStart>
        <DstPortEnd></DstPortEnd>
```

```
      <DstIPv4MicrosegmentID></DstIPv4MicrosegmentID>
      <DstIPv6MicrosegmentID></DstIPv6MicrosegmentID>
      <DstVpnName></DstVpnName>
    </Layer3>
    <Layer2>
      <SrcIfIndex></SrcIfIndex>
      <SrcVlan></SrcVlan>
      <SrcMacAddr></SrcMacAddr>
      <SrcMacMask></SrcMacMask>
    </Layer2>
  <HostName></HostName>
  <ObjGroupName></ObjGroupName>
  </FreeRule>
 </FreeRules>
</Portal>
```

Table information

Item	Description
Table description	Portal FreeRule information table
Table type	Multi-instance table
Feature name	Portal
Table name	FreeRules
Row name	FreeRule
Restrictions	Not support modify
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
RuleID	Portal-free rule number	Index	Non-negative integer.	N/A
IsAllotID	Whether ID is allocated automatically		Boolean: • true—Yes • false—No	N/A
Description	Description for the portal free rule		String, • Length: 1 to 255 characters.	N/A
Layer3	N/A	Data structure	Members include: • SrcIPAddr	N/A

			• SrcIPAddrLen SrcProtocolType • SrcPortStart • SrcPortEnd • DstIPAddr • DstIPAddrLen • DstProtocolType • DstPortStart • DstPortEnd • DstIPv4MicrosegmentID • DstIPv6MicrosegmentID • DstVpnName	
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPV6 address example: 2001:12::1:2
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	When the SrcIPAddr is the IPv4 address type, the value range is 0 to 32. When the SrcIPAddr is the IPv6 address type, the value range is 0 to 128.
SrcProtocolType	Source protocol type	N/A	Enumeration: • 6—TCP • 17—UDP	When SrcProtocolType is configured, SrcPortStart and SrcPortEnd must be configured and use the same protocol type. Currently, only one port is supported, so SrcPortStart and SrcPortEnd must be the same.
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPV6 address example: 2001:12::1:2
DstIPAddrLen	Subnet mask length of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	When DstIPAddr is IPv4 address type, the value range is 0 to 32. When DstPAddr is IPv6 address type, the value range is 0 to 128.

DstProtocolType	Destination protocol type	N/A	Enumeration: • 6—TCP • 17—UDP	When DstProtocolType is configured, DstPortStart and DstPortEnd must be configured and use the same protocol type. Currently, only one port is supported, so DstPortStart and DstPortEnd must be the same.
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPv4MicrosegmentID	Destination IPv4 microsegment ID	N/A	Non-negative integer. Value range: 1 to 65535.	When DstIPv4MicrosegmentID is configured, DstPAddr, DstPAddrLen, and DstIPv6MicrosegmentID cannot be configured.
DstIPv6MicrosegmentID	Destination Iv6 microsegment ID	N/A	Non-negative integer. Value range: 1 to 65535.	When DstIPv6MicrosegmentID is configured, DstPAddr, DstPAddrLen, and DstIPv4MicrosegmentID cannot be configured.
DstVpnName	Destination VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	When DstVpnName is configured, DstIPv4MicrosegmentID or DstIPv6MicrosegmentID must be configured.
Layer2	N/A	Data structure	Members include: • SrcIfIndex • SrcVlan • SrcMacAddr • SrcMacMask	N/A
SrcIfIndex	Source interface index	N/A	Source interface index.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	Example: 00-0c-af-e3-5d-c0.
SrcMacMask	Source MAC	N/A	MAC mask in the	Example:

	Mask		HH-HH-HH-HH-HH-HH format.	ff-ff-ff-ff-00-00.
ObjGroupName	Source object group		String, Length: 1 to 63 characters.	N/A
HostName	Host name	N/A	String. Length: 1 to 253 characters.	Case-insensitive and can contains letters, digits, hyphens(-), dots (.), underscores (_), and wildcard(*). It must not be “ip” or “ipv6” or “i” or “ipv”.

Portal/Interfaces

XML structure

```
<Portal>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthorationCheck>
        <Userprofile></Userprofile>
        <Acl></Acl>
      </AuthorationCheck>
      <VsrpInStance></VsrpInStance>
    </Interface>
  </Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal interface information table
Table type	Muti-instance table
Feature name	Portal
Table name	Interfaces
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
AuthorationCheck	N/A	Data structure	Members include: • Userprofile • Acl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: • true—Yes • false—No	N/A
Acl	Whether strict check is enabled for authorized ACL	N/A	Boolean: • true—Yes • false—No	N/A
VsrpInStance	VSRP instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Portal/IPv4Interfaces

XML structure

```
<Portal>
  <IPv4Interfaces>
    <IPv4Interface>
      <IfIndex></IfIndex>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
        <WebServerNameSecond></WebServerNameSecond>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
```

```
      <UserDetectInterval></UserDetectInterval>
      <UserDetectRetry></UserDetectRetry>
    </UserDetect>
    <ExtendAuthDomain></ExtendAuthDomain>
   <TempPass>
      <TempPassEnable></TempPassEnable>
      <TempPassPeriod></TempPassPeriod>
    </TempPass>
    <MacSvrName></MacSvrName>
    <PreAuthPolicy></PreAuthPolicy>
    <CriticalProfile></CriticalProfile>
  </IPv4Interface>
 </IPv4Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4Interfaces
Row name	IPv4Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column name	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Method	IPv4 portal authentication method	N/A	Enumeration: • 0—Direct • 1—Layer3 • 2—Redhcp	N/A

WebServer	N/A	Data structure	Members include: • WebServerName • EscapeEnable • WebServerNameSecond	N/A
WebServerName	Name of the IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv4 portal Web server	N/A	Boolean: • true—Yes • false—No	EscapeEnable connot be set to true when WebServerNameSecond is set.
WebServerNameSecond	Name of the secondary IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	WebServerNameSecond connot be set when EscapeEnable is set to true.
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv4 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	N/A	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	UserDetectType must be set, and other columns use default settings if not set.
UserDetectType	IPv4 user detection type	N/A	Enumeration: • 0—ARP • 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	The default is 180 seconds.
UserDetectInterval	IPv4 user detection	N/A	Non-negative integer.	The default is 3

	interval		Value range: 1 to 1200 seconds.	seconds.
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3.
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	TempPassEnable must be included, and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disabled • 1—Enabled	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 MacTrigger server name		String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv4 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
CriticalProfile	Critical profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Portal/IPv6Interfaces

XML structure

```
<Portal>
  <IPv6Interfaces>
    <IPv6Interface>
      <IfIndex></IfIndex>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
        <WebServerNameSecond></WebServerNameSecond>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
```

```
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <PreAuthPolicy></PreAuthPolicy>
      <CriticalProfile></CriticalProfile>
    </IPv6Interface>
  </IPv6Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv6 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6Interfaces
Row name	IPv6Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Method	IPv6 authentication method	N/A	Enumeration: • 0.Direct • 1.Layer3	N/A
WebServer	N/A	Data structure	Members include:	N/A

			• WebServerName • EscapeEnable • WebServerNameSecond	
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv6 Web server	N/A	Boolean: • true—Yes • false—No	EscapeEnable connot be set to true when WebServerNameSecond is set.
WebServerNameSecond	Name of the secondary IPv6 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	WebServerNameSecond connot be set when EscapeEnable is set to true.
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv6 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	N/A	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	UserDetectType must be set, other columns use default settings if not set.
UserDetectType	IPv6 user detection type	N/A	Enumeration: • 1—ND • 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	The default is 180 seconds.
UserDetectInte	IPv6 user	N/A	Non-negative integer.	The default is 3

rval	detection interval		Value range: 1 to 1200 seconds.	seconds.
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3.
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	TempPassEnable must be included, and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disabled • 1—Enabled	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 MacTrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv6 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
CriticalProfile	Critical profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Portal/IPv4ServiceTemplates

This table contains portal IPv4 service template information.

XML structure

```
<Portal>
  <IPv4ServiceTemplates>
    <IPv4ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
```

```
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <AuthenticatedKick>
        <KickEnable></KickEnable>
        <KickDelay></KickDelay>
      </AuthenticatedKick>
    </IPv4ServiceTemplate>
  </IPv4ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv4ServiceTemplates
Table type	Multi-instance table
Row name	IPv4ServiceTemplate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv4 portal	N/A	Enumeration:	N/A

	authentication method		• 0—Direct	
WebServer	N/A	Data structure	Members include: WebServerName EscapeEnable	Both members must be included at the same time.
WebServerName	IPv4 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv4 Web server	N/A	Boolean: • true • false	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the fail-permit enable IPv4 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry	UserDetectType must be included, and other columns are specified as default if not set.
UserDetectType	IPv4 user detection type	N/A	Enumeration: • 0—ARP • 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv4 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv4 extended	N/A	String.	N/A

	authentication domain		Length: 1 to 255 characters.	
TempPass	TempPass Feature that Temporarily permits internet access	Data structure	Members include: • TempPassEnable TempPassPeriod	TempPassEnable must be included and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disabled 1—Enabled	N/A
TempPassPeriod	Time interval During which internet access is permitted	N/A	Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 MacTrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
AuthenticatedKick	Kick off a portal user after the user comes online	Data structure	Members include: • KickEnable KickDelay	KickEnable must be included and KickDelay uses the default if not set.
KickEnable	Enable the online portal user kick-off feature	N/A	Enumeration: • 0—Disabled 1—Enabled	N/A
KickDelay	Kick-off delay time	N/A	Value range: 1 to 300 seconds. Default: 0, which means no delay.	N/A

Portal/IPv6ServiceTemplates

This table contains portal IPv6 service template information.

XML structure

```
<Portal>
  <IPv6ServiceTemplates>
    <IPv6ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
```

```
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <AuthenticatedKick>
        <KickEnable></KickEnable>
        <KickDelay></KickDelay>
      </AuthenticatedKick>
    </IPv6ServiceTemplate>
  </IPv6ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv6ServiceTemplates
Table type	Multi-instance table
Row name	IPv6ServiceTemplate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv6 portal authentication method	N/A	Enumeration: • 0—Direct	N/A
WebServer	N/A	Data	Members include:	Both members

		structure	WebServerName EscapeEnable	must be included at the same time.
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv6 Web server	N/A	Boolean: • true. • false.	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry	UserDetectType must be included, and other columns are specified as default if not set.
UserDetectType	IPv6 user detection type	N/A	Enumeration: • 1—ND • 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv6 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass Feature that	Data structure	Members include: • TempPassEnable	TempPassEnable must be included and

	Temporarily permits Internet access		• TempPassPeriod	TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disabled • 1—Enabled	N/A
TempPassPeriod	Time interval During which Internet access is permitted	N/A	Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 MacTrigger Server Name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
AuthenticatedKick	Kick off a portal user after the user comes online	Data structure	Members include: • KickEnable KickDelay	KickEnable must be included and KickDelay uses the default if not set.
KickEnable	Enable the online portal user kick-off feature	N/A	Enumeration: • 0—Disabled 1—Enabled	N/A
KickDelay	Kick-off delay time	N/A	Value range: 1 to 300 seconds. Default: 0, which means no delay.	N/A

Portal/WebRedirects

XML structure

```
<Portal>
  <WebRedirects>
    <WebRedirect>
      <IfIndex></IfIndex>
      <IPv4WebRedirect>
        <IPv4WebRedirectUrl></IPv4WebRedirectUrl>
        <IPv4WebRedirectInterVal></IPv4WebRedirectInterVal>
      </IPv4WebRedirect>
      <IPv6WebRedirect>
        <IPv6WebRedirectUrl></IPv6WebRedirectUrl>
        <IPv6WebRedirectInterVal></IPv6WebRedirectInterVal>
      </IPv6WebRedirect>
    </WebRedirect>
  </WebRedirects>
</Portal>
```

Table description

Item	Description
Table description	Portal WebRedirects information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebRedirects
Row name	WebRedirect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IPv4WebRedirect	N/A	Data structure	Members include: • IPv4WebRedirectUrl • IPv4WebRedirectInterVal	N/A
IPv4WebRedirectUrl	Redirect URL for IPv4 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv4WebRedirectInterVal	URL redirect interval for IPv4 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	The default is 86400 seconds.
IPv6WebRedirect	N/A	Data structure	Members include: • IPv6WebRedirectUrl • IPv6WebRedirectInterVal	N/A
IPv6WebRedirectUrl	Redirect URL for IPv6 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv6WebRedirectInterVal	URL redirect interval for IPv6 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	The default is 86400 seconds.

Portal/Ipv4AuthNetworks

XML structure

```
<Portal>
  <IPv4AuthNetWorks>
    <IPv4AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthMask></SrcAuthMask>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthMask></DstAuthMask>
    </IPv4AuthNetWork>
  </IPv4AuthNetWorks>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4AuthNetWorks
Row name	IPv4AuthNetWork
Restrictions	NO
Support for row creation and deletion	YES

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
SrcAuthMask	Subnet mask length of the source authentication network for	N/A	Non-negative integer. Value range: 1 to 32.	N/A

	IPv4 users			
DstAuthAddr	Destination authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
DstAuthMask	Subnet mask length of the destination authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Portal/Ipv6AuthNetworks

XML structure

```
<Portal>
  <IPv6AuthNetWorks>
    <IPv6AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthPrefix></SrcAuthPrefix>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthPrefix></DstAuthPrefix>
    </IPv6AuthNetWork>
  </IPv6AuthNetWorks>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv6 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6AuthNetWorks
Row name	IPv6AuthNetWork
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column name	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcAuthPrefix	Prefix length of the source authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstAuthAddr	Destination authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstAuthPrefix	Prefix length of the destination authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A

Portal/GlobalConf

XML structure

```
<Portal>
  <GlobalConf>
    <RoamEnable></RoamEnable>
    <NasPortIdFormat></NasPortIdFormat>
    <VsrpPort></VsrpPort>
    <MaxUser></MaxUser>
    <ClientGatewayIfIndex></ClientGatewayIfIndex>
    <CaptiveOptDelay></CaptiveOptDelay>
    <DhcpIdleCut></DhcpIdleCut>
    <BasIPAddr></BasIPAddr>
    <BasIPv6Addr></BasIPv6Addr>
    <TrustArp></TrustArp>
    <TrustNd></TrustNd>
    <TrafficRateInterval></TrafficRateInterval>
    <DrniLoadSharingMode></DrniLoadSharingMode>
    <DrniTrafficBackupInterval></DrniTrafficBackupInterval>
```

```
    <DrniTrafficBackupThreshold></DrniTrafficBackupThreshold>
    <DeviceId></DeviceId>
    <UserRuleAssignCheckEnable></UserRuleAssignCheckEnable>
    <MLagLoadSharingMode></MLagLoadSharingMode>
    <MLagTrafficBackupInterval></MLagTrafficBackupInterval>
    <MLagTrafficBackupThreshold></MLagTrafficBackupThreshold>
    <CriticalMicrosegmentAging></CriticalMicrosegmentAging>
  </GlobalConf>
</Portal>
```

Table description

Item	Description
Table description	Portal GlobalConf information table
Table type	Single-instance table
Feature name	Portal
Table name	GlobalConf
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
RoamEnable	Whether the portal roaming feature is enabled	N/A	Boolean: • true—Yes • false—No	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: • 1—Format1 • 2—Format2 • 3—Format3 • 4—Format4	N/A
VsrpPort	TCP port for portal backup	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
MaxUser	Maximum number of users on the device	N/A	Non-negative integer. The value range: 1 to 4294967295.	N/A
ClientGatewayIfIndex	Index of the gateway	N/A	Non-negative integer	N/A

	interface for clients to access the AC			
CaptiveOptDelay	The timeout time for optimized captive bypass feature	N/A	Non-negative integer Value rang: 6 to 60 seconds Default: 6 seconds	N/A
DhcpIdleCut	Whether the DHCP idle cut feature is enabled for portal users.	N/A	Boolean: ● true ● false Default: false	N/A
BasIPAddr	Source Ipv4 address of portal notification packets.	N/A	IPv4: String, dotted decimal notation.	IPv4 address example: 2.0.0.1
BasIPv6Addr	Source Ipv6 address of portal notification packets.	N/A	IPv6: Hexadecimal string, colon-separated.	IPv6 address example: 2001:12::1:2
TrustArp	Whether the device is configured to obtain user access information from ARP entries.	N/A	Boolean: • true • false	The default is false.
TrustNd	Whether the device is configured to obtain user access information from ND entries.	N/A	Boolean: • true • false	The default is false.
TrafficRateInterval	Time interval for calculating the portal user's average rate of traffic	N/A	Non-negative integer. Value range: 1 to 3600 seconds Default: 1 second.	N/A
DrniLoadSharingMode	Authentication load sharing mode for portal users on DR interfaces.	N/A	Enumeration: • 0—centralized (default). • 1—distributed odd-ip. • 2—distributed even-ip.	The default is centralized
DrniTrafficBackupInterval	DRNI traffic backup time interval for portal users	N/A	Non-negative integer. Value range: 0 to 1440 minutes.	The default is 10 minutes

	on DR interfaces.			
DrniTrafficBackupThreshold	DRNI traffic backup threshold for portal users on DR interfaces.	N/A	Non-negative integer. Value range: 0 to 100000MB	The default is 50 MB
DeviceId	Device id in Portal message	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
UserRuleAssignCheckEnable	The device will check the issuing of category-2 portal filtering rules	N/A	Boolean: • true • false (default)	N/A
MLagLoadSharingMode	Authentication load sharing mode for portal users on M-Lag interfaces	N/A	Enumeration: • 0—Centralized (default). • 1—Distributed odd-IP. • 2—Distributed even-IP.	The default is centralized.
MLagTrafficBackupInterval	M-Lag traffic backup time interval for portal users on M-Lag interfaces	N/A	Unsigned integer. Value range: 0 to 1440 minutes.	The default is 10 minutes.
MLagTrafficBackupThreshold	M-Lag traffic backup threshold for portal users on M-Lag interfaces	N/A	Unsigned integer. Value range: 0 to 100000 MB.	The default is 50 MB.
CriticalMicrosegmentAging	Aging time for users in critical microsegments	N/A	Non-negative integer. Value range: 1 to 60 minutes. Default: 10 minutes.	N/A

Portal/ProxyConf

XML structure

```
<Portal>
  <ProxyConf>
    <Enable></Enable>
    <SourceIP></SourceIP>
    <PortalServerPort></PortalServerPort>
    <MacTriggerServerIP></MacTriggerServerIP>
    <MacTriggerServerPort></MacTriggerServerPort>
```

```
  </ProxyConf>
</Portal>
```

Table description

Item	Description
Table description	Portal proxy configuration table
Table type	Single-instance table
Feature name	Portal
Table name	PorxyConf
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Enable	Enable the portal proxy feature	N/A	Boolean: • true—Yes • false—No	N/A
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	This column specifies the source address for the packets actively sent to the server. The IP address of the output interface is used if not specified.
PortalServerPort	Destination port	N/A	Non-negative integer. Value range: 1 to 65535.	This column specifies the destination port on the device. The default port is 2000.
MacTriggerServerIP	IP address of the MAC binding server	N/A	IPv4: String, dotted decimal notation.	By default, the device does not specify the IP address and port number of the MAC binding server.
MacTriggerServerPort	Port number of the MAC binding server	N/A	Non-negative integer. Value range: 1 to 65535.	The default port number is 50100.

Portal/LocalWebServers

XML structure

```
<Portal>
  <LocalWebServers>
    <LocalWebServer>
      <Type></Type>
      <SSLServerPolicy></SSLServerPolicy>
      <DefLogonPage></DefLogonPage>
      <TCPPort></TCPPort>
      <PasswordModifyEnable></PasswordModifyEnable>
    </LocalWebServer>
  </LocalWebServers>
</Portal>
```

Table description

Item	Description
Table description	Portal LocalWebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	LocalWebServers
Row name	PortalServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP • 1—HTTPS	This column configures the protocol used between the local portal Web server and the client.
SSLServerPolicy	SSL server policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column takes effect only when the Type is HTTPS.
DefLogonPage	Default authentication page file	N/A	String. Length: 1 to 91 characters.	Case-sensitive and contains letters, digits, dots (.), and

				underscores (_).
TCPPort	TCP port number	N/A	Non-negative integer. Value range: 1 to 65535.	The default HTTP listening port number is 80 and the default HTTPS listening port number is 443.
PasswordModifyEnable	Enable local portal user password modification	N/A	Boolean: • true false (default).	N/A

Portal/SelfDefSsidPage

This table contains information about the self-defined SSID page file.

XML structure

```
<Portal>
  <SelfDefSsidPages>
    <SelfDefSsidPage>
      <Type></Type>
      <ssid></ssid>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidPage>
  </SelfDefSsidPages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidPages
Table type	Multi-instance table
Row name	SelfDefSsidPage
Restrictions	Local portal server can configure self-defined SSID page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.

ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
LogonPageFile	Authentication page file	N/A	String, including letters, numbers, and underscores(_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypePage

This table contains information about the self-defined device type page file.

XML structure

```
<Portal>
  <SelfDefDevTypePages>
    <SelfDefDevTypePage>
      <Type></Type>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypePage>
  </SelfDefDevTypePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypePages
Table type	Multi-instance table
Row name	SelfDefDevTypePage
Restrictions	Local portal server can configure self-defined device type page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceType	Device type	Index	Enumeration: • 1—computer	This column assigns a specific device type to the designated page

			• 2—phone • 3—pad	file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevNamePage

This table contains information about the self-defined device name page file.

XML structure

```
<Portal>
  <SelfDefDevNamePages>
    <SelfDefDevNamePage>
      <Type></Type>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevNamePage>
  </SelfDefDevNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevNamePages
Table type	Multi-instance table
Row name	SelfDefDevNamePage
Restrictions	Local portal server can configure self-defined device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127	This column assigns a specific device name

			characters.	to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefSsidDevTypePage

This table contains information about the self-defined SSID and device type page file.

XML structure

```
<Portal>
  <SelfDefSsidDevTypePages>
    <SelfDefSsidDevTypePage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidDevTypePage>
  </SelfDefSsidDevTypePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidDevTypePages
Table type	Multi-instance table
Row name	SelfDefSsidDevTypePage
Restrictions	Local portal server can configure self-defined SSID and device type page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive.	This column assigns a

			Length: 1 to 32 characters.	specific SSID to the designated page file.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefSsidDevNamePage

This table contains information about the self-defined SSID and device name page file.

XML structure

```
<Portal>
  <SelfDefSsidDevNamePages>
    <SelfDefSsidDevNamePage>
      <Type></Type>
      <ssid></ssid>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidDevNamePage>
  </SelfDefSsidDevNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidDevNamePages
Table type	Multi-instance table
Row name	SelfDefSsidDevNamePage
Restrictions	Local portal server can configure self-defined SSID and device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypeNamePage

This table contains information about the self-defined device type and device name page file.

XML structure

```
<Portal>
  <SelfDefDevTypeNamePages>
    <SelfDefDevTypeNamePage>
      <Type></Type>
      <DeviceType></DeviceType>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypeNamePage>
  </SelfDefDevTypeNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypeNamePages
Table type	Multi-instance table
Row name	SelfDefDevTypeNamePage

Restrictions	Local portal server can configure self-defined device type and device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefPage

This table contains information about the self-defined page file.

XML structure

```
<Portal>
  <SelfDefPages>
    <SelfDefPage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefPage>
  </SelfDefPages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefPages
Table type	Multi-instance table
Row name	SelfDefPage
Restrictions	Local portal server can configure self-defined SSID and device type page file.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/ExtendAuthServers

This table contains information about portal extended authentication servers.

XML structure

```
<Portal>
  <ExtendAuthServers>
    <ExtendAuthServer>
```

```
      <Type></Type>
      <AuthUrl></AuthUrl>
      <AppId></AppId>
      <AppKey></AppKey>
      <RedirectUrl></RedirectUrl>
      <MailProtocol></MailProtocol>
      <MailDomain>
        <MailDomainName></MailDomainName>
      </MailDomain>
    </ExtendAuthServer>
  </ExtendAuthServers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ExtendAuthServers
Table type	Multi-instance table
Row name	ExtendAuthServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Extended authentication service type	Index	Enumeration: • 0—QQ. • 1—Mail.	N/A
AuthUrl	Authentication URL	N/A	String. Length: 1 to 256 characters. Default: https://graph.qq.com (when the Type field is specified as 0).	This column takes effect only when the Type field is specified as 0.
AppId	App ID which supports for extended authentication	N/A	String. Length: 1 to 32 characters.	This column takes effect only when the Type field is specified as 0. The default value is the App ID of the Lvzhou application in the QQ open platform.

AppKey	The key of App ID	N/A	String. Length: 1 to 64 characters.	This column takes effect only when the Type field is specified as 0, and can only be used as plain text input and cannot return to users. The default value is the App key of the Lvzhou application in the QQ open platform.
RedirectUrl	Authentication redirect URL	N/A	String. Length: 1 to 256 characters.	This column takes effect only when the Type field is specified as 0. The default value is the callback address of the Lvzhou application in the QQ open platform.
MailProtocol	Mail authentication protocol type	N/A	Enumeration: • 1—POP3. • 2—IMAP. • 3—POP3 and IMAP.	This column takes effect only when the Type field is specified as 1.
MailDomain	Mail domain	Data structure	Members include: • MailDomainName	This column takes effect only when the Type field is specified as 1. MailDomainName must be set. You can specify 1 to 16 domain names.
MailDomainName	Mail domain name	N/A	String. Length: 1 to 255 characters	The value of the column must be the Email domain fomat. For example: @qq.com.

Portal/MacTriggerServers

This table contains information about portal mac trigger servers.

XML structure

```
<Portal>
  <MacTriggerServers>
    <MacTriggerServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
```

```
      <Key></Key>
    </IPAddressInfo>
    <Threshold></Threshold>
    <NasType></NasType>
    <MacSvrPort></MacSvrPort>
    <Detect>
      <MacSvrRetries></MacSvrRetries>
      <MacSvrRetryInterval></MacSvrRetryInterval>
    </Detect>
    <MacServerType></MacServerType>
    <Version></Version>
    <MacSvrAuthTimeOut></MacSvrAuthTimeOut>
    <AgingTime></AgingTime>
    <LocalBindingEnable></LocalBindingEnable>
    <LocalBindingAgingTime></LocalBindingAgingTime>
    <CloudBindingEnable></CloudBindingEnable>
    <CloudServerURL></CloudServerURL>
  </MacTriggerServer>
 </MacTriggerServers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	MacTriggerServers
Table type	Multi-instance table
Row name	MacTriggerServer
Restrictions	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Name	Portal mac-trigger server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal mac-trigger server address	Data structure	Members include: IPAddress VRF	The IPAddress must be set for this column.
IPAddress	IP address of the portal mac-trigger	N/A	IPv4: String, dotted decimal notation.	N/A

	server			
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal mac-trigger server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal mac-trigger server and the device. It supports only plaintext.
Threshold	the threshold for MAC-triggered authentication	N/A	Unsigned integer. Value range: 0 to 10240000	The default free-traffic threshold is 0 bytes.
NasType	NAS-Port-Type value	N/A	Unsigned integer. Value range: 1 to 255	The default NAS-Port-Type value carried in RADIUS requests is 0.
MacSvrPort	UDP port number	N/A	Unsigned integer. Value range: 1 to 65534	The default MAC binding server listens for MAC binding query packets on UDP port 50100.
Detect	Portal Mac-trigger server detection	Data structure	Members include: • Retry • Interval	N/A
MacSvrRetries	Maximum number of portal Mac-trigger server detection attempts	N/A	Unsigned integer. Value range: 1~10	The default maximum number of query attempts is 3.
MacSvrRetryInterval	Detection interval	N/A	Unsigned integer. Value range:1~60	The default maximum number of query interval is 1 second.
MacServerType	a MAC binding server type	N/A	Boolean: • 0.imc • 1.cmcc	The default type of a MAC binding server is IMC.
Version	Version number	N/A	Unsigned integer. Value range:1~3	The default version of the portal protocol is 1.
MacSvrAuthTimeOut	Set the timeout time the device waits for portal authentication to complete	N/A	Unsigned integer. Value range:1~15	The default portal authentication timeout time is 3 minutes.
AgingTime	Set the aging time for MAC-trigger entries	N/A	Unsigned integer. Value range:60~7200	The default aging time for MAC-trigger entries is 300 seconds.

LocalBindingEnable	enable portal MAC-Trigger local-binding	N/A	Boolean: • true–Yes • false–No	N/A
LocalBindingAgingTime	the aging time for MAC-trigger local-binding entry	N/A	Unsigned integer. Value range:1~2160	N/A
CloudBindingEnable	Enable portal MAC-Trigger cloud binding	N/A	Boolean: • true–Yes • false–No	N/A
CloudServerURL	URL of the cloud portal authentication server	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Portal/ForbiddenRule

This table contains information about portal-forbidden rules.

XML structure

```
<Portal>
  <ForbiddenRules>
    <ForbiddenRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
      <SrcIPAddr></SrcIPAddr>
      <SrcIPAddrLen></SrcIPAddrLen>
      <SrcProtocolType></SrcProtocolType>
      <SrcPortStart></SrcPortStart>
      <SrcPortEnd></SrcPortEnd>
      <DstIPAddr></DstIPAddr>
      <DstIPAddrLen></DstIPAddrLen>
      <DstProtocolType></DstProtocolType>
      <DstPortStart></DstPortStart>
      <DstPortEnd></DstPortEnd>
      <DstHostName></DstHostName>
      <SrcSsidName></SrcSsidName>
    </ForbiddenRule>
  </ForbiddenRules>
</Portal>
```

Table description

Item	Description
Feature name	Portal

Table name	ForbiddenRules
Table type	Multi-instance table
Row name	ForbiddenRule
Restrictions	Not support modify
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-forbidden rule number	Index	Non-negative integer.	N/A
IsAllotID	Whether the rule number is allocated automatically	N/A	Boolean: • true—Yes • false—No	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: • 0 to 32 for a source IPv4 address. • 0 to 128 for a source IPv6 address.	N/A
SrcProtocolType	Source protocol type	N/A	Enumeration: • 6—TCP. • 17—UDP.	When SrcProtocolType is configured, SrcPortStart and SrcPortEnd must be configured and use the same protocol type.
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
DstIPAddrLen	Subnet mask length of the destination IP address	N/A	Non-negative integer. Value range: • 0 to 32 for a destination IPv4 address. • 0 to 128 for a destination IPv6 address.	N/A
DstProtocolT	Destination	N/A	Enumeration:	When DstProtocolType

ype	protocol type		• 6—TCP. • 17—UDP.	is configured, DstPortStart and DstPortEnd must be configured and use the same protocol type.
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstHostName	Destination hostname	N/A	String. Length: 1 to 253 characters.	Case-insensitive and can contains letters, digits, hyphens(-), dots (.), underscores (_), and wildcard(*). It must not be “ip” or “ipv6” or “i” or “ipv”.
SrcSsidName	Source SSID name	N/A	String. Length: 1 to 32 characters.	N/A

Portal/RedirectOriginalUrl

This table contains information about portal redirect match rules based on original URLs.

XMLstructure

```
<Portal>
  <RedirectOriginalUrls>
    <RedirectOriginalUrl>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <RedirectUrl></RedirectUrl>
      <EncryParam></EncryParam>
      <Password></Password>
    </RedirectOriginalUrl>
  </RedirectOriginalUrls>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	RedirectOriginalUrls
Table type	Multi-instance table

Item	Description
Row name	RedirectOriginalUrl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
EncryParam	Encryption algorithm	N/A	Enumeration: • 0—NONE • 1—DES • 2—AES	The default encryption algorithm is 0
Password	Encryption key	N/A	String. Length: • DES plaintext key: 8 characters. • AES plaintext key: 1 to 31 characters.	N/A

Portal/RedirectUserAgent

This table contains information about portal redirect match rules based on user agents.

XMLstructure

```
<Portal>
  <RedirectUserAgents>
    <RedirectUserAgent>
      <Name></Name>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
    </RedirectUserAgent>
  </RedirectUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal

Item	Description
Table name	RedirectUserAgents
Table type	Multi-instance table
Row name	RedirectUserAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Portal/TempPassOriginalUrl

This table contains information about portal temp pass match rules based on original URLs.

XMLstructure

```
<Portal>
  <TempPassOriginalUrls>
    <TempPassOriginalUrl>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassOriginalUrl>
  </TempPassOriginalUrls>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	TempPassOriginalUrls
Table type	Multi-instance table
Row name	TempPassOriginalUrl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	The default redirect matching is false

Portal/TempPassUserAgent

This table contains information about portal temp pass match rules based on user agents.

XMLstructure

```
<Portal>
  <TempPassUserAgents>
    <TempPassUserAgent>
      <Name></Name>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassUserAgent>
  </TempPassUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	TempPassUserAgents
Table type	Multi-instance table
Row name	TempPassUserAgent

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	The default redirect matching is false

Portal/TempPassOriginalUrlUserAgent

This table contains information about portal temp pass match rules based on original URLs and user agents.

XMLstructure

```
<Portal>
  <TempPassOriginalUrlUserAgents>
    <TempPassOriginalUrlUserAgent>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassOriginalUrlUserAgent>
  </TempPassOriginalUrlUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	TempPassOriginalUrlUserAgents
Table type	Multi-instance table
Row name	TempPassOriginalUrlUserAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	The default redirect matching is false

Portal/RoamingCenterCfg

XMLstructure

```
<Portal>
  <RoamingCenterCfg>
    <EnableStatus></EnableStatus>
    <IPAddress></IPAddress>
    <Port></Port>
    <ResponseTimeout></ResponseTimeout>
     <Retry></Retry>
```

```
    <UserTrafficDeny></UserTrafficDeny>
  </RoamingCenterCfg>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	RoamingCenterCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableStatus	Whether the portal roaming center feature is enabled.	N/A	Boolean: • true • false Default:false	N/A
IPAddress	IP address for communication with the WLAN roaming center.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
Port	Port number for communication with the WLAN roaming center.	N/A	Unsigned integer. Value range: 1 to 65534. Default value: 1088.	N/A
ResponseTimeout	Packet response timeout.	N/A	Unsigned integer. Value range:1 to 10, in seconds, Default: 3 seconds.	N/A
Retry	Maximum number of packet transmission attempts.	N/A	Unsigned integer. Value range:1 to 10, Default value: 5.	N/A
UserTrafficDeny	Whether deny the traffic sent from users during portal user query.	N/A	Boolean: • true • false Default: false	N/A

Portal/AccessInfo

This table contains information about trusted entries for portal user access information learning.

XML structure

```
<Portal>
  <AccessInfo>
    <TrustND></TrustND>
    <TrustARP></TrustARP>
  </AccessInfo>
</Portal>
```

Table description

Item	Description
Feature name	Portal accessinfo trust configuration table
Table name	Single-instance table
Table type	Multi-instance table
Row name	AccessInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrustND	Whether the device is configured to obtain user access information from ND entries	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
TrustARP	Whether the device is configured to obtain user access information from ARP entries	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Contents

Portal 1

Portal/PortalServers 1
XML structure 1
Table description 1
Columns 2
Portal/WebServer 3
XMLstructure 3
Table description 3
Columns 3
Portal/UrlParams 5
XMLstructure 5
Table description 5
Columns 5
Portal/FreeRule 6
XMLstructure 6
Table description 7
Columns 7
Portal/Interfaces 9
XMLstructure 9
Table description 9
Columns 10
Portal/IPv4Interfaces 10
XMLstructure 10
Table description 11
Columns 11
Portal/IPv6Interfaces 13
XMLstructure 13
Table description 14
Columns 14
Portal/IPv4ServiceTemplates 16
XML structure 16
Table description 17
Columns 17
Portal/IPv6ServiceTemplates 19
XML structure 19
Table description 20
Columns 20
Portal/WebRedirects 22
XMLstructure 22
Table description 22
Columns 22
Portal/Ipv4AuthNetworks 23
XML structure 23
Table description 23
Columns 24
Portal/Ipv6AuthNetworks 24
XML structure 24
Table description 24
Columns 25
Portal/GlobalConf 25
XML structure 25
Table description 26
Columns 26
Portal/ProxyConf 28
XML structure 28
Table description 28
Columns 29

Portal/OnlineUsers 29
XML structure 29
Table description 30
Columns 30
Portal/PortalServerStats 32
XML structure 32
Table description 34
Columns 34
Portal/PortalProxyStats 42
XML structure 42
Table description 44
Columns 44
Portal/IPv4StaticRule 50
XML structure 50
Table description 50
Columns 51
Portal/IPv6StaticRule 52
XML structure 52
Table description 52
Columns 53
Portal/UserRule 54
XML structure 54
Table description 54
Columns 55
Portal/LocalWebServers 55
XML structure 55
Table description 56
Columns 56
Portal/SelfDefSsidPage 56
XML structure 56
Table description 57
Columns 57
Portal/SelfDefDevTypePage 57
XML structure 57
Table description 58
Columns 58
Portal/SelfDefDevNamePage 58
XML structure 58
Table description 59
Columns 59
Portal/SelfDefSsidDevTypePage 59
XML structure 59
Table description 60
Columns 60
Portal/SelfDefSsidDevNamePage 60
XML structure 60
Table description 61
Columns 61
Portal/SelfDefDevTypeNamePage 61
XML structure 61
Table description 62
Columns 62
Portal/SelfDefPage 62
XML structure 63
Table description 63
Columns 63
Portal/ExtendAuthServers 64
XML structure 64
Table description 64
Columns 64
Portal/HistoryOnlineUserNums 65
XML structure 65

Table description 65
Columns 66
Portal/CurrentOnlineUserNums 66
XML structure 66
Table description 66
Columns 67
Portal/ObjectGroupStatistics 67
XML structure 67
Table description 67
Columns 67
Portal/MacTriggerServers 67
XML structure 68
Table description 68
Columns 69
Portal/ForbiddenRule 70
XML structure 70
Table description 71
Columns 71
Portal/RedirectOriginalUrl 72
XMLstructure 72
Table description 72
Columns 73
Portal/RedirectUserAgent 73
XMLstructure 73
Table description 73
Columns 74
Portal/TempPassOriginalUrl 74
XMLstructure 74
Table description 74
Columns 74
Portal/TempPassUserAgent 75
XMLstructure 75
Table description 75
Columns 76
Portal/TempPassOriginalUrlUserAgent 76
XMLstructure 76
Table description 76
Columns 77
Portal/AccessInfo 77
XML structure 77
Table description 78
Columns 78
Portal/OnlineUsersExt 78
XML structure 78
Table description 79
Columns 79
Portal/CriticalMicrosegmentUsers 81
XML structure 81
Table description 81
Columns 82

Portal

Portal/PortalServers

XML structure

```
<Portal>
  <PortalServers>
    <PortalServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
      </IPAddressInfo>
      <Port></Port>
      <Detect>
        <TimeOut></TimeOut>
        <Action></Action>
      </Detect>
      <UserSyncTime></UserSyncTime>
      <ServerType></ServerType>
      <LogoutNotify>
        <Retry></Retry>
        <Interval></Interval>
      </LogoutNotify>
      <Status></Status>
      <ExistUsers></ExistUsers>
    </PortalServer>
  </PortalServers>
</Portal>
```

Table description

Item	Description
Table description	Portal Server information table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServers
Row name	PortalServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Portal server name	Index	String, case-sensitive. Length:1 to32characters.	N/A
IPAddressInfo	Portal server address	Data structure	Members include: • IPAddress • VRF	N/A
IPAddress	IP address of the portal server	N/A	IPv4:String,dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length:1 to 31 characters.	N/A
Port	Port number	N/A	Value range: 1 to 65534.	N/A
Detect	Portal server detection	Data structure	Members include: • TimeOut • Action	N/A
TimeOut	Detect timeout	N/A	Value range: 10 to 3600 seconds.	N/A
Action	Action to be performed when the detection times out	N/A	Enumeration: • 1—log • 2—trap • 3—Both	N/A
UserSyncTime	User synchronization time	N/A	Non-negative integer. Value range: 60 to 18000 seconds.	N/A
ServerType	Server Type	N/A	Enumeration: • 0—IMC • 1—CMCC	N/A
LogoutNotify	Portal logout notify	Data structure	Members include: • Retry • Interval	N/A
Retry	Maximum retransmission times	N/A	Non-negative integer. Value range: 1 to 5.	N/A
Interval	Retransmission times	N/A	Non-negative integer. Value range: 1 to 10.	N/A
Status	Status of the portal server	N/A	Enumeration: • 0—Up • 1—Down	N/A
ExistUsers	Whether the user exist	N/A	Boolean:	N/A

			• true—Yes • false—No	

Portal/WebServer

XMLstructure

```
<Portal>
  <WebServers>
    <WebServer>
      <Name></Name>
      <Url></Url>
      <Detect>
        <Interval></Interval>
        <Retry></Retry>
        <Action></Action>
      </Detect>
      <VRF></VRF>
      <CaptiveBypass></CaptiveBypass>
      <IPv4Status></IPv4Status>
      <IPv6Status></IPv6Status>
      <ServerType></ServerType>
      <ServerDetect>
        <DetectUrl></DetectUrl>
        <DetectType></DetectType>
      </ServerDetect>
    </WebServer>
  </WebServers>
</Portal>
```

Table description

Item	Description
Description	Portal WebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebServers
Row name	WebServer

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Name	Name of the portal Web	Index	String, case-sensitive. Length: 1 to 32	N/A

	server		characters.	
Url	Redirect URL	N/A	String. Length: 1 to 256 characters.	N/A
Detect	Portal Web server detection	Data structure	Members include: • Interval • Retry • Action	N/A
Interval	Detection interval	N/A	Non-negative integer. Value range: 10 to 1200 seconds.	N/A
Retry	Maximum number of portal Web server detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	N/A
Action	Action to be performed when server detection reaches the maximum number	N/A	Enumeration: • 1—log • 2—trap • 3—Both	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
CaptiveBypass	Captive bypass for ios or android	N/A	Enumeration: • **0—default** • **1—enable** • 2—optimize enable • 5—ios enable • 6—android enable	N/A
IPv4Status	Status of the IPv4 portal Web server	N/A	Enumeration: • 0—Up • 1—Down	N/A
IPv6Status	Status of the IPv6 portal Web server	N/A	Enumeration: • 0—Up • 1—Down	N/A
ServerType	Type of the portal Web server	N/A	Enumeration: • 0—IMC. • 1—CMCC. • 2—OAUTH. • 3—NOC. • 4—WIFIDOG • 5—ISE	N/A
ServerDetect	Portal Web server detection info.	Data structure	Members include: • DetectUrl • DetectType	N/A

DetectUrl	URL for portal Web server detection.	N/A	String. Length: 1 to 256 characters.	N/A
DetectType	Portal Web server detection type.	N/A	Enumeration: • 0—TCP • 1—HTTP	N/A

Portal/UrlParams

XMLstructure

```
<Portal>
  <UrlParams>
    <UrlParam>
      <WebServerName></WebServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</Portal>
```

Table description

Item	Description
Table description	Portal WebServer parameter information table
Table type	Multi-instance table
Feature name	Portal
Table name	UrlParams
Row name	UrlParam
Restrictions	There is no limit on the number of parameters carried in a Web server URL.

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	This column configures the protocol type for the local portal Web server.
ParamName	Parameter name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
ParamType	Parameter type	N/A	Enumeration: • 0—source-address	This column assigns a specific device type to the

			• 1—source-mac • 2—original-url • 3—selfDefine • 11—bas-ip	designated page file.
SelfDefValue	Self-defined parameter	N/A	String Length: 1 to 256 characters.	N/A
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/FreeRule

XMLstructure

```
<Portal>
  <FreeRules>
    <FreeRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
      <Description></Description>
      <Layer3>
        <SrcIPAddr></SrcIPAddr>
        <SrcIPAddrLen></SrcIPAddrLen>
        <SrcProtocolType></SrcProtocolType>
        <SrcPortStart></SrcPortStart>
        <SrcPortEnd></SrcPortEnd>
        <DstIPAddr></DstIPAddr>
        <DstIPAddrLen></DstIPAddrLen>
        <DstProtocolType></DstProtocolType>
        <DstPortStart></DstPortStart>
        <DstPortEnd></DstPortEnd>
        <DstIPv4MicrosegmentID></DstIPv4MicrosegmentID>
        <DstIPv6MicrosegmentID></DstIPv6MicrosegmentID>
        <DstVpnName></DstVpnName>
      </Layer3>
      <Layer2>
        <SrcIfIndex></SrcIfIndex>
        <SrcIfName></SrcIfName>
        <SrcVlan></SrcVlan>
        <SrcMacAddr></SrcMacAddr>
        <SrcMacMask></SrcMacMask>
      </Layer2>
      <ObjGroupName></ObjGroupName>
      <HostName></HostName>
    </FreeRule>
  </FreeRules>
</Portal>
```

Table description

Item	Description
Table description	Portal FreeRule information table
Table type	Multi-instance table
Feature name	Portal
Table name	FreeRules
Row name	FreeRule
Restrictions	Not support modify

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-free rule number	Index	Non-negative integer.	N/A
IsAllotID	Whether ID is allocated automatically	N/A	Boolean: • **true—Yes** • **false—No**	N/A
Description	Description for the portal free rule	N/A	String,Length: 1 to 255 characters.	N/A
Layer3	Layer3	Data structure	Members include: • SrcIPAddr • SrcIPAddrLen • SrcProtocolType • SrcPortStart • SrcPortEnd • DstIPAddr • DstIPAddrLen • DstProtocolType • DstPortStart • DstPortEnd • DstIPv4MicrosegmentID • DstIPv6MicrosegmentID • DstVpnName	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
SrcProtocolType	Source	N/A	Enumeration:	N/A

	protocol type		• 6—TCP • 17—UDP	
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
DstIPAddrLen	Subnet mask of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: • 6—TCP • 17—UDP	N/A
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535,	N/A
DstIPv4MicrosegmentID	Destination IPv4 microsegment ID	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
DstIPv6MicrosegmentID	Destination IPv6 microsegment ID	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
DstVpnName	Destination VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Layer2	Layer2	Data structue	Members include: • SrcIfIndex • SrcVlan • SrcMacAddr • SrcMacMask	N/A
SrcIfIndex	Source interface index	N/A	Source interface index.	N/A
SrcIfName	Source interface name	N/A	String,Length: 1 to 47 characters.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A

SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
SrcMacMask	Source MAC Mask	N/A	MAC mask in the HH-HH-HH-HH-HH-HH format.	Example: ff-ff-ff-ff-00-00.
ObjGroupName	Source object group	N/A	String, Length: 1 to 63 characters.	N/A
HostName	Host name	N/A	String. Length: 1 to 253 characters.	N/A

Portal/Interfaces

XMLstructure

```
<Portal>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthorationCheck>
        <Userprofile></Userprofile>
        <Acl></Acl>
      </AuthorationCheck>
      <VsrpInStance></VsrpInStance>
      <VsrpStatus></VsrpStatus>
    </Interface>
  </Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal interface information table
Table type	Muti-instance table
Feature name	Portal
Table name	Interfaces
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
AuthorationCheck	AuthorationCheck	Data structure	Members include: • Userprofile • Acl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: • true—Yes • false—No	N/A
Acl	Whether strict check is enabled for the authorized ACL	N/A	Boolean: • true—Yes • false—No	N/A
VsrpInStance	VSRP instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
VsrpStatus	VSRP status	N/A	Enumeration: • 1—Master • 2—Backup • 3—Down • 4—BUTT	N/A

Portal/IPv4Interfaces

XMLstructure

```
<Portal>
  <IPv4Interfaces>
    <IPv4Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <OnlineUserNum></OnlineUserNum>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
        <WebServerNameSecond></WebServerNameSecond>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
```

```
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <PreAuthPolicy></PreAuthPolicy>
      <CriticalProfile></CriticalProfile>
    </IPv4Interface>
  </IPv4Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4Interfaces
Row name	IPv4Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
IfName	Interface name	N/A	String, case-sensitive. Length: 1 to 47 characters.	N/A
OnlineUserNum	IPv4 online users	N/A	Value range: 0 to2^{32} – 1.	N/A
Method	IPv4 authentication method	N/A	Enumeration: • 0—Direct • 1—Layer3 • 2—Redhcp	N/A
WebServer	WebServer	Data structure	Members include: • WebServerName • EscapeEnable	N/A

			• WebServerNameSecond	
WebServerName	Name of the IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
WebServerNameSecond	Name of the secondary IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv4 portal Web server	N/A	Boolean: • true—Yes • false—No	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
Ipv4BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv4 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect		Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: • 0—ARP • 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	N/A
UserDetectInterval	IPv4 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	N/A
UserDetectRetry	Number of IPv4 user	N/A	Non-negative integer. Value range: 1 to 10.	N/A

	detection attempts			
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 Mactrigger server name	N/A	String,case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv4 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
CriticalProfile	Critical profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Portal/IPv6Interfaces

XMLstructure

```
<Portal>
  <IPv6Interfaces>
    <IPv6Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <OnlineUserNum></OnlineUserNum>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
        <WebServerNameSecond></WebServerNameSecond>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
```

```
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <PreAuthPolicy></PreAuthPolicy>
      <CriticalProfile></CriticalProfile>
    </IPv6Interface>
  </IPv6Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv6 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6Interfaces
Row name	IPv6Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IfName	Interface name	N/A	String, case-sensitive. Length: 1 to 47 characters.	N/A
OnlineUserNum	Number of IPv6 online users	N/A	Value range: 0 to$2^{32}-1$.	N/A
Method	IPv6 authentication method	N/A	Enumeration: • 0—Direct • 1—Layer3	N/A
WebServer	WebServer	Data structure	Members include: • WebServerName	N/A

			• EscapeEnable • WebServerNameSecond	
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv6 Web server	N/A	Boolean: • true—Yes • false—No	N/A
WebServerNameSecond	Name of the secondary IPv6 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv6 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	UserDetect	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	N/A
UserDetectType	IPv6 user detection type	N/A	Enumeration: • 1—ND • 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	N/A
UserDetectInterval	IPv6 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	N/A
UserDetectRetry	Number of IPv6 user	N/A	Non-negative integer. Value range: 1 to 10.	N/A

	detection attempts			
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 Mactrigger server name	N/A	String,case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv6 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
CriticalProfile	Critical profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Portal/IPv4ServiceTemplates

This table contains portal IPv4 service template information.

XML structure

```
<Portal>
  <IPv4ServiceTemplates>
    <IPv4ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
```

```
      <UserDetectType></UserDetectType>
      <UserDetectIdleTime></UserDetectIdleTime>
      <UserDetectInterval></UserDetectInterval>
      <UserDetectRetry></UserDetectRetry>
    </UserDetect>
    <TempPass>
      <TempPassEnable></TempPassEnable>
      <TempPassPeriod></TempPassPeriod>
    </TempPass>
    <MacSvrName></MacSvrName>
    <ExtendAuthDomain></ExtendAuthDomain>
    <AuthenticatedKick>
      <KickEnable></KickEnable>
      <KickDelay></KickDelay>
    </AuthenticatedKick>
  </IPv4ServiceTemplate>
 </IPv4ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv4ServiceTemplates
Table type	Multi-instance table
Row name	IPv4ServiceTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv4 portal authentication method	N/A	Enumeration: • 0—Direct	N/A
WebServer	N/A	Data structure	Members include: • WebServerName • EscapeEnable	N/A
WebServerName	IPv4 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit	N/A	Boolean:	N/A

	feature for the IPv4 portal Web server		• true. • false.	
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: • 0—ARP • 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv4 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disable	N/A

			• 1—Enable	
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 Mactrigger server name	N/A	String,case-sensitive. Length: 1 to 32 characters.	N/A
AuthenticatedKick	Kick off a portal user after the user comes online	Data structure	Members include: • KickEnable KickDelay	N/A
KickEnable	Enable the online portal user kick-off feature	N/A	Enumeration: • 0—Disabled 1—Enabled	N/A
KickDelay	Kick-off delay time	N/A	Value range: 1 to 300 seconds.	N/A

Portal/IPv6ServiceTemplates

This table contains portal IPv6 service template information.

XML structure

```
<Portal>
  <IPv6ServiceTemplates>
    <IPv6ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
```

```
      <MacSvrName></MacSvrName>
      <ExtendAuthDomain></ExtendAuthDomain>
      <AuthenticatedKick>
        <KickEnable></KickEnable>
        <KickDelay></KickDelay>
      </AuthenticatedKick>
    </IPv6ServiceTemplate>
  </IPv6ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv6ServiceTemplates
Table type	Multi-instance table
Row name	IPv6ServiceTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv6 portal authentication method	N/A	Enumeration: • 0—Direct	N/A
WebServer	N/A	Data structure	Members include: • WebServerName • EscapeEnable	N/A
WebServerName	IPv6 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv6 portal Web server	N/A	Boolean: • true. • false.	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	N/A
UserDetectType	IPv6 user detection type	N/A	Enumeration: • 1—ND • 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv6 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: • TempPassEnable • TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 3600 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 Mactrigger server name	N/A	String,case-sensitive. Length: 1 to 32 characters.	N/A
AuthenticatedKick	Kick off a portal user after the user	Data structure	Members include: • KickEnable	N/A

	comes online		KickDelay	
KickEnable	Enable the online portal user kick-off feature	N/A	Enumeration: • 0—Disabled 1—Enabled	N/A
KickDelay	Kick-off delay time	N/A	Value range: 1 to 300 seconds.	N/A

Portal/WebRedirects

XMLstructure

```
<Portal>
  <WebRedirects>
    <WebRedirect>
      <IfIndex></IfIndex>
      <IPv4WebRedirect>
        <IPv4WebRedirectUrl></IPv4WebRedirectUrl>
        <IPv4WebRedirectInterVal></IPv4WebRedirectInterVal>
      </IPv4WebRedirect>
      <IPv6WebRedirect>
        <IPv6WebRedirectUrl></IPv6WebRedirectUrl>
        <IPv6WebRedirectInterVal></IPv6WebRedirectInterVal>
      </IPv6WebRedirect>
    </WebRedirect>
  </WebRedirects>
</Portal>
```

Table description

Item	Description
Table description	Portal WebRedirects information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebRedirects
Row name	WebRedirect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IPv4WebRedirect	IPv4WebRedirect	Data structure	Members include: • IPv4WebRedirectUrl	N/A

			• IPv4WebRedirectInterVal	
IPv4WebRedirectUrl	Redirect URL for IPv4 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv4WebRedirectInterVal	URL redirect intervals for IPv4 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	N/A
IPv6WebRedirect	IPv6WebRedirect	Data structure	Members include: • IPv6WebRedirectUrl • IPv6WebRedirectInterVal	N/A
IPv6WebRedirectUrl	Redirect URL for IPv6 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv6WebRedirectInterVal	URL redirect interval for IPv6 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	N/A

Portal/Ipv4AuthNetworks

XML structure

```
<Portal>
  <IPv4AuthNetWorks>
    <IPv4AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthMask></SrcAuthMask>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthMask></DstAuthMask>
    </IPv4AuthNetWork>
  </IPv4AuthNetWorks>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4AuthNetWorks
Row name	IPv4AuthNetWork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv4 users	Index	IPv4: String, dotted decimal notation.	N/A
SrcAuthMask	Subnet mask length of the source authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A
DstAuthAddr	Destination authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
DstAuthMask	Subnet mask length of the destination authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Portal/Ipv6AuthNetworks

XML structure

```
<Portal>
  <IPv6AuthNetWorks>
    <IPv6AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthPrefix></SrcAuthPrefix>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthPrefix></DstAuthPrefix>
    </IPv6AuthNetWork>
  </IPv6AuthNetWorks>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv6 authentication-network table
Table type	Multi-instance table

Feature name	Portal
Table name	IPv6AuthNetWorks
Row name	IPv6AuthNetWork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcAuthPrefix	Prefix length of the source authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstAuthAddr	Destination authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstAuthPrefix	Prefix length of the destination authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A

Portal/GlobalConf

XML structure

```
<Portal>
  <GlobalConf>
    <RoamEnable></RoamEnable>
    <NasPortIdFormat></NasPortIdFormat>
    <VsrpPort></VsrpPort>
    <MaxUser></MaxUser>
    <ClientGatewayIfIndex></ClientGatewayIfIndex>
    <CaptiveOptDelay></CaptiveOptDelay>
    <DhcpIdleCut></DhcpIdleCut>
    <BasIPAddr></BasIPAddr>
    <BasIPv6Addr></BasIPv6Addr>
    <TrustArp></TrustArp>
    <TrustNd></TrustNd>
```

```
    <TrafficRateInterval></TrafficRateInterval>
    <DrniLoadSharingMode></DrniLoadSharingMode>
    <DrniTrafficBackupInterval></DrniTrafficBackupInterval>
    <DrniTrafficBackupThreshold></DrniTrafficBackupThreshold>
    <DeviceId></DeviceId>
    <UserRuleAssignCheckEnable></UserRuleAssignCheckEnable>
    <MLagLoadSharingMode></MLagLoadSharingMode>
    <MLagTrafficBackupInterval></MLagTrafficBackupInterval>
    <MLagTrafficBackupThreshold></MLagTrafficBackupThreshold>
    <CriticalMicrosegmentAging></CriticalMicrosegmentAging>
  </GlobalConf>
</Portal>
```

Table description

Item	Description
Table description	PortalGlobalConf information table
Table type	Single-instance table
Feature name	Portal
Table name	GlobalConf
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoamEnable	Whether the portal roaming feature is enabled	N/A	Boolean: • true–Yes • false–No	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: • 1—Format1 • 2—Format2	N/A
VsrpPort	TCP port for portal backup	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
MaxUser	Maximum number of users on the device	N/A	Non-negative integer. The value range depends on the device model.	N/A
ClientGatewayIfIndex	Index of the gateway interface for clients to access th AC	N/A	Non-negative integer.	N/A
CaptiveOptDelay	The timeout time for	N/A	Non-negative integer. Value range: 6 to 60	N/A

	optimized		seconds.	
DhcpIdleCut	Whether the DHCP idle cut feature is enabled for portal users	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
BasIPAddr	Source Ipv4 address of portal notification packets.	N/A	IPv4: String, dotted decimal notation.	N/A
BasIPv6Addr	Source Ipv6 address of portal notification packets.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
TrustArp	Whether the device is configured to obtain user access information from ARP entries.	N/A	Boolean: • true • false	N/A
TrustNd	Whether the device is configured to obtain user access information from ND entries.	N/A	Boolean: • true • false	N/A
TrafficRateInterval	Time interval for calculating the portal user's average rate of traffic	N/A	Non-negative integer. Value range: 1 to 3600 seconds.	N/A
DrniLoadSharingMode	Authentication load sharing mode for portal users on DR interfaces.	N/A	Enumeration: • 0—centralized. • 1—distributed odd-ip. • 2—distributed even-ip	N/A
DrniTrafficBackupInterval	DRNI traffic backup time interval for portal users on DR interfaces.	N/A	Non-negative integer. Value range: 0 to 1440 minutes.	N/A
DrniTrafficBackupThreshold	DRNI traffic backup threshold for portal users on DR interfaces.	N/A	Non-negative integer. Value range: 0 to 100000 MB.	N/A
DeviceId	Device id in Portal message	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
UserRuleAssignCheckEnable	The device will check the	N/A	Boolean: • true	N/A

	issuing of category-2 portal filtering rules		• false	
MLagLoadSharingMode	Authentication load sharing mode for portal users on M-Lag interfaces	N/A	Enumeration: • 0—Centralized. • 1—Distributed odd-IP. • 2—Distributed even-IP.	N/A
MLagTrafficBackupInterval	M-Lag traffic backup time interval for portal users on M-Lag interfaces	N/A	Unsigned integer. Value range: 0 to 1440 minutes.	N/A
MLagTrafficBackupThreshold	M-Lag traffic backup threshold for portal users on M-Lag interfaces	N/A	Unsigned integer. Value range: 0 to 100000 MB.	N/A
CriticalMicrosegmentAging	Aging time for users in critical microsegments	N/A	Non-negative integer. Value range: 1 to 60 minutes.	N/A

Portal/ProxyConf

XML structure

```
<Portal>
  <ProxyConf>
    <Enable></Enable>
    <SourceIP></SourceIP>
    <PortalServerPort></PortalServerPort>
    <MacTriggerServerIP></MacTriggerServerIP>
    <MacTriggerServerPort></MacTriggerServerPort>
  </ProxyConf>
</Portal>
```

Table description

Item	Description
Table description	Portal proxy configuration table
Table type	Single-instance table
Feature name	Portal
Table name	PorxyConf
Row name	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the portal proxy feature	N/A		N/A
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	This column specifies the source address for the packets actively sent to the server. The IP address of the output interface is used if not specified.
PortalServerPort	Destination port	N/A	Non-negative integer. Value range: 1 to 65535.	This column specifies the destination port on the device. The default port is 2000.
MacTriggerServerIP	IP address of the MAC binding server	N/A	IPv4: String, dotted decimal notation.	By default, the device does not specify the IP address and port number of the MAC binding server.
MacTriggerServerPort	Port number of the MAC binding server	N/A	Non-negative integer. Value range: 1 to 65535.	The default port number is 50100.

Portal/OnlineUsers

XML structure

```
<Portal>
  <OnlineUsers>
    <OnlineUser>
      <IfIndex></IfIndex>
      <IPAddress></IPAddress>
      <IfName></IfName>
      <UserName></UserName>
      <MacAddress></MacAddress>
      <VLAN></VLAN>
      <VRF></VRF>
      <ServerName></ServerName>
      <LoginTime></LoginTime>
      <OnlineDuration></OnlineDuration>
      <FlowStats>
        <SendPktNum></SendPktNum>
        <SendByteNum></SendByteNum>
        <RecvPktNum></RecvPktNum>
        <RecvByteNum></RecvByteNum>
      </FlowStats>
      <ObjectGroup></ObjectGroup>
      <InboundFlowRate></InboundFlowRate>
```

```
      <OutboundFlowRate></OutboundFlowRate>
      <AccessSwitch></AccessSwitch>
      <LeaseTime></LeaseTime>
      <RemainingTime></RemainingTime>
      <DeviceName></DeviceName>
      <MicrosegmentID></MicrosegmentID>
    </OnlineUser>
  </OnlineUsers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex.	Index	Non-negative integer.	N/A
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
IfName	IfName.	N/A	String, case-sensitive. Length: 1 to 47 characters.	N/A
UserName	User name.	N/A	String. Length: 1 to 253 characters.	N/A
MacAddress	MAC address of the user.	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
VLAN	VLAN where the user resides.	N/A	Value range: 1 to 4094.	N/A
VRF	MPLS L3VPN where the users resides.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ServerName	Name of the portal server.	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

LoginTime	Time when the user logged in	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OnlineDuration	User online duration.	N/A	Non-negative integer. The unit is second.	N/A
FlowStats	Flow statistics for the user.	Data structure	Members include: • SendPktNum • SendByteNum • RecvPktNum • RecvByteNum	N/A
SendPktNum	Number of packets sent by the user.	N/A	Value range: 0 to 2^{64}-1.	N/A
SendByteNum	Number of bytes sent by the user.	N/A	Value range: 0 to 2^{64}-1.	N/A
RecvPktNum	Number of packets received by the user.	N/A	Value range: 0 to 2^{64}-1.	N/A
RecvByteNum	Number of bytes received by the user.	N/A	Value range: 0 to 2^{64}-1.	N/A
ObjectGroup	Users belong to the group of object.	N/A	String. Length: 1 to 31 characters.	N/A
InboundFlowRate	Inbound Real time rate.	N/A	Value range: 0 to 2^{64}-1.	bytes per second
OutboundFlowRate	Outbound Real time rate.	N/A	Value range: 0 to 2^{64}-1.	bytes per second
AccessSwitch	Whether the user can access the network.	N/A	Boolean: • false—OFF • true—ON	N/A
LeaseTime	Lease time period for the IP address	N/A	String.	N/A
RemainingTime	Remaining lease time period for the IP address	N/A	String.	N/A
DeviceName	Device name of the user	N/A	String. Length: 1 to 127 characters.	N/A
MicrosegmentID	Microsegment ID authorized	N/A	Value range: 1 to 65535.	N/A

Portal/PortalServerStats

XML structure

```
<Portal>
  <PortalServerStats>
    <Name></Name>
    <InvalidPkts></InvalidPkts>
    <ReqChallenge>
      <ReqChallengeTotal></ReqChallengeTotal>
      <ReqChallengeDrop></ReqChallengeDrop>
      <ReqChallengeError></ReqChallengeError>
    </ReqChallenge>
    <AckChallenge>
      <AckChallengeTotal></AckChallengeTotal>
      <AckChallengeDrop></AckChallengeDrop>
      <AckChallengeError></AckChallengeError>
    </AckChallenge>
    <ReqAuth>
      <ReqAuthTotal></ReqAuthTotal>
      <ReqAuthDrop></ReqAuthDrop>
      <ReqAuthError></ReqAuthError>
    </ReqAuth>
    <AckAuth>
      <AckAuthTotal></AckAuthTotal>
      <AckAuthDrop></AckAuthDrop>
      <AckAuthError></AckAuthError>
    </AckAuth>
    <ReqLogout>
      <ReqLogoutTotal></ReqLogoutTotal>
      <ReqLogoutDrop></ReqLogoutDrop>
      <ReqLogoutError></ReqLogoutError>
    </ReqLogout>
    <AckLogout>
      <AckLogoutTotal></AckLogoutTotal>
      <AckLogoutDrop></AckLogoutDrop>
      <AckLogoutError></AckLogoutError>
    </AckLogout>
    <AffAckAuth>
      <AffAckAuthTotal></AffAckAuthTotal>
      <AffAckAuthDrop></AffAckAuthDrop>
      <AffAckAuthError></AffAckAuthError>
    </AffAckAuth>
    <NtfLogout>
      <NtfLogoutTotal></NtfLogoutTotal>
      <NtfLogoutDrop></NtfLogoutDrop>
      <NtfLogoutError></NtfLogoutError>
```

```
</NtfLogout>
<ReqInfo>
  <ReqInfoTotal></ReqInfoTotal>
  <ReqInfoDrop></ReqInfoDrop>
  <ReqInfoError></ReqInfoError>
</ReqInfo>
<AckInfo>
  <AckInfoTotal></AckInfoTotal>
  <AckInfoDrop></AckInfoDrop>
  <AckInfoError></AckInfoError>
</AckInfo>
<NtfUserDisCover>
  <NtfUserDisCoverTotal></NtfUserDisCoverTotal>
  <NtfUserDisCoverDrop></NtfUserDisCoverDrop>
  <NtfUserDisCoverError></NtfUserDisCoverError>
</NtfUserDisCover>
<NtfUserIpChange>
  <NtfUserIpChangeTotal></NtfUserIpChangeTotal>
  <NtfUserIpChangeDrop></NtfUserIpChangeDrop>
  <NtfUserIpChangeError></NtfUserIpChangeError>
</NtfUserIpChange>
<AffNtfUserIpChange>
  <AffNtfUserIpChangeTotal></AffNtfUserIpChangeTotal>
  <AffNtfUserIpChangeDrop></AffNtfUserIpChangeDrop>
  <AffNtfUserIpChangeError></AffNtfUserIpChangeError>
</AffNtfUserIpChange>
<AckNtfLogout>
  <AckNtfLogoutTotal></AckNtfLogoutTotal>
  <AckNtfLogoutDrop></AckNtfLogoutDrop>
  <AckNtfLogoutError></AckNtfLogoutError>
</AckNtfLogout>
<NtfHeartBeat>
  <NtfHeartBeatTotal></NtfHeartBeatTotal>
  <NtfHeartBeatDrop></NtfHeartBeatDrop>
  <NtfHeartBeatError></NtfHeartBeatError>
</NtfHeartBeat>
<NtfUserHeartBeat>
  <NtfUserHeartBeatTotal></NtfUserHeartBeatTotal>
  <NtfUserHeartBeatDrop></NtfUserHeartBeatDrop>
  <NtfUserHeartBeatError></NtfUserHeartBeatError>
</NtfUserHeartBeat>
<AckNtfUserHeartBeat>
  <AckNtfUserHeartBeatTotal></AckNtfUserHeartBeatTotal>
  <AckNtfUserHeartBeatDrop></AckNtfUserHeartBeatDrop>
  <AckNtfUserHeartBeatError></AckNtfUserHeartBeatError>
</AckNtfUserHeartBeat>
<NtfChallenge>
  <NtfChallengeTotal></NtfChallengeTotal>
```

```
      <NtfChallengeDrop></NtfChallengeDrop>
      <NtfChallengeError></NtfChallengeError>
    </NtfChallenge>
    <NtfUserNotify>
      <NtfUserNotifyTotal></NtfUserNotifyTotal>
      <NtfUserNotifyDrop></NtfUserNotifyDrop>
      <NtfUserNotifyError></NtfUserNotifyError>
    </NtfUserNotify>
    <AffNtfUserNotify>
      <AffNtfUserNotifyTotal></AffNtfUserNotifyTotal>
      <AffNtfUserNotifyDrop></AffNtfUserNotifyDrop>
      <AffNtfUserNotifyError></AffNtfUserNotifyError>
    </AffNtfUserNotify>
  </PortalServerStats>
</Portal>
```

Table description

Item	Description
Table description	Portal Server packets statistics table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServerStats
Row name	Name
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal server	Index	String. Length: 1 to 32 characters.	N/A
InvalidPkts	Number of invalid packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqChallenge	Challenge request packet the portal server sent to the device	Data structure		N/A
ReqChallengeTotal	Total number of challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqChallengeDrop	Number of dropped challenge request	N/A	Value range: 0 to 2^{64}-1.	N/A

	packets			
ReqChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallenge	Challenge acknowledgment packet the device sent to the portal server	N/A		N/A
AckChallengeTotal	Total number of challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallengeDrop	Number of dropped challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallengeError	Number of erroneous challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqAuth	Authentication request packet the portal server sent to the device	N/A		N/A
ReqAuthTotal	Total number of Authentication request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqAuthDrop	Number of dropped authentication request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqAuthError	Number of erroneous authentication request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckAuth	Authentication acknowledgment packet the device sent to the portal server	N/A		N/A
AckAuthTotal	Total number of authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A

AckAuthDrop	Number of dropped authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckAuthError	Number of erroneous authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogout	Logout request packet the portal server sent to the device.	N/A		N/A
ReqLogoutTotal	Total number of logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogoutDrop	Number of dropped logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogoutError	Number of erroneous logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogout	Logout acknowledgment packet the device sent to the portal server	N/A		N/A
AckLogoutTotal	Total number of logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogoutDrop	Number of dropped logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogoutError	Number of erroneous logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffAckAuth	Affirmation packet the portal server sent to the device after receiving an authentication acknowledgment packet.	N/A		N/A
AffAckAuthTotal	Total number	N/A	Value range: 0 to 2^{64}-1.	N/A

	of affirmation packets			
AffAckAuthDrop	Number of dropped affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffAckAuthError	Number of erroneous affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogout	Forced logout notification packet the device sent to the portal server	N/A		N/A
NtfLogoutTotal	Total number of forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogoutDrop	Number of dropped forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogoutError	Number of erroneous forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfo	Information request packet	N/A		N/A
ReqInfoTotal	Total number of information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfoDrop	Number of dropped information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfoError	Number of erroneous information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckInfo	Information acknowledgment packet	N/A		N/A
AckInfoTotal	Total number of information acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckInfoDrop	Number of dropped	N/A	Value range: 0 to 2^{64}-1.	N/A

	information acknowledgment packets			
AckInfoError	Number of erroneous information acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserDisCover	User discovery notification packet the portal server sent to the device	N/A		N/A
NtfUserDisCoverTotal	Total number of user discovery notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserDisCoverDrop	Number of dropped user discovery notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserDisCoverError	Number of erroneous user discovery notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserIpChange	User IP change notification packet the device sent to the portal server	N/A		N/A
NtfUserIpChangeTotal	Total number of user IP change notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserIpChangeDrop	Number of dropped user IP change notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserIpChangeError	Number of erroneous user IP change notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserIpChange	User IP change success notification packet the	N/A		N/A

	portal server sent to the device			
AffNtfUserIpChangeTotal	Total number of user IP change success notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserIpChangeDrop	Number of dropped user IP change success notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserIpChangeError	Number of erroneous user IP change success notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogout	Forced logout acknowledgment packet the portal server sent to the device	N/A		N/A
AckNtfLogoutTotal	Total number of forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogoutDrop	Number of dropped forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogoutError	Number of erroneous forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfHeartBeat	Server heartbeat packet the portal server periodically sent to the device	N/A		N/A
NtfHeartBeatTotal	Total number of server heartbeat packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfHeartBeatDrop	Number of dropped server heartbeat	N/A	Value range: 0 to 2^{64}-1.	N/A

	packets			
NtfHeartBeatError	Number of erroneous server heartbeat packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserHeartBeat	User synchronization packet the portal server sent to the device	N/A		N/A
NtfUserHeartBeatTotal	Total number of user synchronization packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserHeartBeatDrop	Number of dropped user synchronization packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserHeartBeatError	Number of erroneous user synchronization packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfUserHeartBeat	User synchronization acknowledgment packet the device sent to the portal server	N/A		N/A
AckNtfUserHeartBeatTotal	Total number of user synchronization acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfUserHeartBeatDrop	Number of dropped user synchronization acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfUserHeartBeatError	Number of erroneous user synchronization acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfChallenge	Challenge request packet the device sent to the portal server	N/A		N/A

NtfChallengeTotal	Total number of challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfChallengeDrop	Number of dropped challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserNotify	User information notification packet the device sent to the portal server	N/A		N/A
NtfUserNotifyTotal	Total number of user information notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserNotifyDrop	Number of dropped user information notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfUserNotifyError	Number of erroneous user information notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserNotify	NTF_USER_NOTIFY acknowledgment packet the portal server sent to the device	N/A		N/A
AffNtfUserNotifyTotal	Total number of NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserNotifyDrop	Number of dropped NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffNtfUserNotify	Number of erroneous	N/A	Value range: 0 to 2^{64}-1.	N/A

Error	NTF_USER_NOTIFY acknowledgment packets			

Portal/PortalProxyStats

XML structure

```
<Portal>
  <PortalProxyStats>
    <Status></Status>
    <InvalidPkts></InvalidPkts>
    <ReqInfo>
      <ReqInfoReceived></ReqInfoReceived>
      <ReqInfoDrop></ReqInfoDrop>
      <ReqInfoError></ReqInfoError>
    </ReqInfo>
    <AckInfo>
      <AckInfoReceived></AckInfoReceived>
      <AckInfoDrop></AckInfoDrop>
      <AckInfoError></AckInfoError>
    </AckInfo>
    <ReqChallenge>
      <ReqChallengeReceived></ReqChallengeReceived>
      <ReqChallengeDrop></ReqChallengeDrop>
      <ReqChallengeError></ReqChallengeError>
    </ReqChallenge>
    <AckChallenge>
      <AckChallengeReceived></AckChallengeReceived>
      <AckChallengeDrop></AckChallengeDrop>
      <AckChallengeError></AckChallengeError>
    </AckChallenge>
    <ReqAuth>
      <ReqAuthReceived></ReqAuthReceived>
      <ReqAuthDrop></ReqAuthDrop>
      <ReqAuthError></ReqAuthError>
    </ReqAuth>
    <AckAuth>
      <AckAuthReceived></AckAuthReceived>
      <AckAuthDrop></AckAuthDrop>
      <AckAuthError></AckAuthError>
    </AckAuth>
    <AffAckAuth>
      <AffAckAuthTotal></AffAckAuthTotal>
      <AffAckAuthDrop></AffAckAuthDrop>
      <AffAckAuthError></AffAckAuthError>
    </AffAckAuth>
```

```
    <ReqLogout>
      <ReqLogoutReceived></ReqLogoutReceived>
      <ReqLogoutDrop></ReqLogoutDrop>
      <ReqLogoutError></ReqLogoutError>
    </ReqLogout>
    <AckLogout>
      <AckLogoutReceived></AckLogoutReceived>
      <AckLogoutDrop></AckLogoutDrop>
      <AckLogoutError></AckLogoutError>
    </AckLogout>
    <NtfLogout>
      <NtfLogoutReceived></NtfLogoutReceived>
      <NtfLogoutDrop></NtfLogoutDrop>
      <NtfLogoutError></NtfLogoutError>
    </NtfLogout>
    <AckNtfLogout>
      <AckNtfLogoutReceived></AckNtfLogoutReceived>
      <AckNtfLogoutDrop></AckNtfLogoutDrop>
      <AckNtfLogoutError></AckNtfLogoutError>
    </AckNtfLogout>
    <ReqMacBind>
      <ReqMacBindReceived></ReqMacBindReceived>
      <ReqMacBindDrop></ReqMacBindDrop>
      <ReqMacBindError></ReqMacBindError>
    </ReqMacBind>
    <AckMacBind>
      <AckMacBindReceived></AckMacBindReceived>
      <AckMacBindDrop></AckMacBindDrop>
      <AckMacBindError></AckMacBindError>
    </AckMacBind>
    <NtfMacBindLogon>
      <NtfMacBindLogonReceived></NtfMacBindLogonReceived>
      <NtfMacBindLogonDrop></NtfMacBindLogonDrop>
      <NtfMacBindLogonError></NtfMacBindLogonError>
    </NtfMacBindLogon>
    <NtfMacBindLogout>
      <NtfMacBindLogoutReceived></NtfMacBindLogoutReceived>
      <NtfMacBindLogoutDrop></NtfMacBindLogoutDrop>
      <NtfMacBindLogoutError></NtfMacBindLogoutError>
    </NtfMacBindLogout>
    <AffMacBindLogout>
      <AffMacBindLogoutReceived></AffMacBindLogoutReceived>
      <AffMacBindLogoutDrop></AffMacBindLogoutDrop>
      <AffMacBindLogoutError></AffMacBindLogoutError>
    </AffMacBindLogout>
  </PortalProxyStats>
</Portal>
```

Table description

Item	Description
Table description	Portal proxy packet statistics table
Table type	Single-instance table
Feature name	Portal
Table name	PortalProxyStats
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the portal proxy server	N/A	Boolean: • 1—Enabled • 2—Disabled	N/A
InvalidPkts	Number of Invalid packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfo	Information request packet	N/A		N/A
ReqInfoReceived	Number of received information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfoDrop	Number of dropped information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqInfoError	Number of erroneous information request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckInfo	Information acknowledgment packet	N/A		N/A
AckInfoReceived	Number of received information acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckInfoDrop	Number of dropped information acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A

AckInfoError	Number of erroneous information acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqChallenge	Challenge request packet the portal server sent to the device	Data structure		N/A
ReqChallengeReceived	Number of received challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqChallengeDrop	Number of dropped challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallenge	Challenge acknowledgment packet the device sent to the portal server	N/A		N/A
AckChallengeReceived	Number of received challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallengeDrop	Number of dropped challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckChallengeError	Number of erroneous challenge acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqAuth	Authentication request packet the portal server sent to the device	N/A		N/A
ReqAuthReceived	Number of received authentication request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqAuthDrop	Number of	N/A	Value range: 0 to 2^{64}-1.	N/A

	dropped authentication request packets			
ReqAuthError	Number of erroneous authentication request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckAuth	Authentication acknowledgment packet the device sent to the portal server	N/A		N/A
AckAuthReceived	Number of received authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckAuthDrop	Number of dropped authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckAuthError	Number of erroneous authentication acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffAckAuth	Affirmation packet the portal server sent to the device after receiving an authentication acknowledgement packet	N/A		N/A
AffAckAuthReceived	Number of received affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffAckAuthDrop	Number of dropped affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffAckAuthError	Number of erroneous affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogout	Logout request packet the portal server sent to the device	N/A		N/A

ReqLogoutReceived	Number of received logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogoutDrop	Number of dropped logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqLogoutError	Number of erroneous logout request packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogout	Logout acknowledgment packet the device sent to the portal server	N/A		N/A
AckLogoutReceived	Number of received logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogoutDrop	Number of dropped logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckLogoutError	Number of erroneous logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogout	Forced logout notification packet the device sent to the portal server	N/A		N/A
NtfLogoutReceived	Number of received forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogoutDrop	Number of dropped forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfLogoutError	Number of erroneous forced logout notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogout	Forced logout acknowledgment packet	N/A		N/A

	from the portal server			
AckNtfLogoutReceived	Number of received forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogoutDrop	Number of dropped forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckNtfLogoutError	Number of erroneous forced logout acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqMacBind	MAC binding query the device sent to the MAC binding server	N/A		N/A
ReqMacBindReceived	Number of received MAC binding queries	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqMacBindDrop	Number of dropped MAC binding queries	N/A	Value range: 0 to 2^{64}-1.	N/A
ReqMacBindError	Number of erroneous MAC binding queries	N/A	Value range: 0 to 2^{64}-1.	N/A
AckMacBind	MAC binding query acknowledgment packet the MAC binding server sent to the device	N/A		N/A
AckMacBindReceived	Number of received MAC binding query acknowledgment packet	N/A	Value range: 0 to 2^{64}-1.	N/A
AckMacBindDrop	Number of dropped MAC binding query acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AckMacBindError	Number of erroneous MAC binding query acknowledgment packets	N/A	Value range: 0 to 2^{64}-1.	N/A

NtfMacBindLogon	User logon notification packet the device sent to the MAC binding server	N/A		N/A
NtfMacBindLogonReceived	Number of received user logon notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfMacBindLogonDrop	Number of dropped user logon notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfMacBindLogonError	Number of erroneous user logon notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfMacBindLogout	User logoff notification packet the device sent to the MAC binding server	N/A		N/A
NtfMacBindLogoutReceived	Number of received user logoff notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfMacBindLogoutDrop	Number of dropped user logoff notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
NtfMacBindLogoutError	Number of erroneous user logoff notification packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffMacBindLogout	Forced logout affirmation packet sent by Mac-Trigger server	N/A		N/A
AffMacBindLogoutReceived	Number of received forced logout affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A
AffMacBindLogoutDrop	Number of dropped forced logout affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A

AffMacBindLogoutError	Number of erroneous forced logout affirmation packets	N/A	Value range: 0 to 2^{64}-1.	N/A

Portal/IPv4StaticRule

XML structure

```
<Portal>
  <IPv4StaticRules>
    <IPv4StaticRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <Protocol></Protocol>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4AddrMask></SrcIPv4AddrMask>
      </SrcIPv4>
      <SrcPort>
        <SrcPortValue1></SrcPortValue1>
      </SrcPort>
      <SrcIfIndex></SrcIfIndex>
      <SrcVlan></SrcVlan>
      <SrcMacAddr></SrcMacAddr>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4AddrMask></DstIPv4AddrMask>
      </DstIPv4>
      <DstPort>
        <DstPortValue1></DstPortValue1>
      </DstPort>
    </IPv4StaticRule>
  </IPv4StaticRules>
</Portal>
```

Table description

Item	Description
Table description	Portal IPV4 static-rule table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4StaticRules
Row name	IPv4StaticRule

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Action	Action to be taken on packets matching the rule	N/A	Enumeration: • 1–Permit • 2–Redirect • 3–Deny	N/A
Status	Status of the rule	N/A	Enumeration: • 1–Active • 2–Deactive • 3–N/A	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: • 1–TCP • 2–UDP • 3–Any	N/A
SrcIPV4	Source IPv4 address information	Data structure	Members include: • SrcIPV4Addr • SrcIPV4AddrMask	N/A
SrcIPv4Addr	Source IPv4 address	N/A	IPv4: String, dotted decimal notation.	N/A
SrcIPv4AddrMask	Subnet mask length of the source IPv4 address	N/A	Non-negative integer. Value range: 1 to 32.	N/A
SrcPort		Data Structure	Members include: SrcPortValue1	N/A
SrcPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
SrcIfIndex	Source interface	N/A	Layer2 interface index. Non-negative integer.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	N/A
DstIPv4		Data structure	Members include: • DstIPv4Addr • DstIPv4AddrMask	N/A
DstIPv4Addr	Destination IPv4 address		IPv4: String, dotted decimal notation.	N/A

DstIPv4AddrMask	Subnet mask length of the destination IPv4 mask	N/A	Non-negative integer. Value range: 1 to 32.	N/A
DstPort		Data structure	Members include: DstPortValue1	N/A
DstPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A

Portal/IPv6StaticRule

XML structure

```
<Portal>
  <IPv6StaticRules>
    <IPv6StaticRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <Protocol></Protocol>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6AddrPrefix></SrcIPv6AddrPrefix>
      </SrcIPv6>
      <SrcPort>
        <SrcPortValue1></SrcPortValue1>
      </SrcPort>
        <SrcIfIndex></SrcIfIndex>
        <SrcVlan></SrcVlan>
        <SrcMacAddr></SrcMacAddr>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6AddrPrefix></DstIPv6AddrPrefix>
      </DstIPv6>
      <DstPort>
        <DstPortValue1></DstPortValue1>
      </DstPort>
    </IPv6StaticRule>
  </IPv6StaticRules>
</Portal>
```

Table description

Item	Description
Table description	Portal IPV6 static-rule table
Table type	Multi-instance table

Feature name	Portal
Table name	IPv6StaticRules
Row name	IPv6StaticRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer	N/A
Action	Action to be taken on packets matching the rule	N/A	Enumeration: • 1–Permit • 2–Redirect • 3—Deny	N/A
Status	Status of the rule	N/A	Enumeration: • 1–Active • 2–Deactive • 3—N/A	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: • 1–TCP • 2–UDP • 3—Any	N/A
SrcIPv6	Source IPv6 address information	Data structure	Members include: • SrcIPv6Addr • SrcIPv6AddrPrefix	N/A
SrcIPv6Addr	Source IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPv6AddrPrefix	Prefix length of the source IPv6 address	N/A	Non-negative integer. Value range: 1 to 128.	N/A
SrcPort		Data Structure	Members include: SrcPortValue1	N/A
SrcPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
SrcIfIndex	Source interface	N/A	Layer2 interface index. Non-negative integer.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	N/A
DstIPv6		Data structure	Members include: • DstIPv6Addr	N/A

			• DstIPv6AddrPrefix	
DstIPv6Addr	Destination IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstIPv6AddrPrefix	Prefix length of the destination IPv6 address	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstPort		Data structure	Members include: DstPortValue1	N/A
DstPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A

Portal/UserRule

XML structure

```
<Portal>
  <UserRules>
    <UserRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <IPAddr></IPAddr>
      <L2IfIndex></L2IfIndex>
      <Vlan></Vlan>
      <MacAddr ></MacAddr>
      <AuthorationInfo>
        <AclNumber></AclNumber>
        <Userprofile></Userprofile>
      </AuthorationInfo>
    </UserRule>
  </UserRules>
</Portal>
```

Table description

Item	Description
Table description	Portal user-rule table
Table type	Multi-instance table
Feature name	Portal
Table name	UserRules
Row name	UserRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Action	Action to be taken on packets matching the rule	N/A	Boolean: • 1—Permit	N/A
Status	Status of the rule	N/A	Enumeration: • 1–Active • 2–Deactive • 3—N/A	N/A
IPAddr	IP address of the user	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPAddr
L2IfIndex	Layer 2 interface	N/A	Non-negative integer.	L2IfIndex
Vlan	VLAN where the user resides	N/A	Non-negative integer. Value range: 1 to 4094.	Vlan
MacAddr	MAC address of the user	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	MacAddr
AuthorationInfo	Authorization information	Data structure		AuthorationInfo
AclNumber	Authorized ACL number	N/A	Non-negative integer.	AclNumber
Userprofile	Authorized user profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	Userprofile

Portal/LocalWebServers

XML structure

```
<Portal>
  <LocalWebServers>
    <LocalWebServer>
      <Type></Type>
      <SSLServerPolicy></SSLServerPolicy>
      <DefLogonPage></DefLogonPage>
      <TCPPort></TCPPort>
      <PasswordModifyEnable></PasswordModifyEnable>
```

```
    </LocalWebServer>
  </LocalWebServers>
</Portal>
```

Table description

Item	Description
Table description	Portal local WebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	LocalWebServers
Row name	PortalServer
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0–HTTP • 1—HTTPS	N/A
SSLServerPolicy	SSL server policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DefLogonPage	Default authentication page file	N/A	String, case-sensitive and contains letters, digits, dots (.), and underscores (_). Length: 1 to 91 characters.	N/A
TCPPort	TCP port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
PasswordModifyEnable	Enable local portal user password modification	N/A	Boolean: • true false	N/A

Portal/SelfDefSsidPage

This table contains information about the self-defined SSID page file.

XML structure

```
<Portal>
  <SelfDefSsidPages>
    <SelfDefSsidPage>
```

```
      <Type></Type>
      <ssid></ssid>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidPage>
  </SelfDefSsidPages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidPages
Table type	Multi-instance table
Row name	SelfDefSsidPage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local portal Web server.
ssid	SSID name	Index	String, case sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypePage

This table contains information about the self-defined device type page file.

XML structure

```
<Portal>
  <SelfDefDevTypePages>
    <SelfDefDevTypePage>
      <Type></Type>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypePage>
  </SelfDefDevTypePages>
```

```
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypePages
Table type	Multi-instance table
Row name	SelfDefDevTypePage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local portal Web server.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevNamePage

This table contains information about the self-defined device name page file.

XML structure

```
<Portal>
  <SelfDefDevNamePages>
    <SelfDefDevNamePage>
      <Type></Type>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevNamePage>
  </SelfDefDevNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevNamePages
Table type	Multi-instance table
Row name	SelfDefDevNamePage
Restrictions	Local portal server can configure self-defined device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefSsidDevTypePage

This table contains information about the self-defined SSID and device type page file.

XML structure

```
<Portal>
  <SelfDefSsidDevTypePages>
    <SelfDefSsidDevTypePage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidDevTypePage>
  </SelfDefSsidDevTypePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidDevTypePages
Table type	Multi-instance table
Row name	SelfDefSsidDevTypePage
Restrictions	Local portal server can configure self-defined SSID and device type page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefSsidDevNamePage

This table contains information about the self-defined SSID and device name page file.

XML structure

```
<Portal>
  <SelfDefSsidDevNamePages>
    <SelfDefSsidDevNamePage>
      <Type></Type>
      <ssid></ssid>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
```

```
    </SelfDefSsidDevNamePage>
  </SelfDefSsidDevNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidDevNamePages
Table type	Multi-instance table
Row name	SelfDefSsidDevNamePage
Restrictions	Local portal server can configure self-defined SSID and device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypeNamePage

This table contains information about the self-defined device type and device name page file.

XML structure

```
<Portal>
  <SelfDefDevTypeNamePages>
    <SelfDefDevTypeNamePage>
      <Type></Type>
```

```
      <DeviceType></DeviceType>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypeNamePage>
  </SelfDefDevTypeNamePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypeNamePages
Table type	Multi-instance table
Row name	SelfDefDevTypeNamePage
Restrictions	Local portal server can configure self-defined device type and device name page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefPage

This table contains information about the self-defined page file.

XML structure

```
<Portal>
  <SelfDefPages>
    <SelfDefPage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <DeviceName></DeviceName>
      <LogonPageFile></LogonPageFile>
    </SelfDefPage>
  </SelfDefPages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefPages
Table type	Multi-instance table
Row name	SelfDefPage
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Type	Protocol type	Index	Enumeration: • 0—HTTP. • 1—HTTPS.	This column configures the protocol type for the local portal Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceType	Device type	Index	Enumeration: • 1—computer • 2—phone • 3—pad	This column assigns a specific device type to the designated page file.
DeviceName	Device name	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device name to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/ExtendAuthServers

This table contains information about portal extended authentication servers.

XML structure

```
<Portal>
  <ExtendAuthServers>
    <ExtendAuthServer>
      <Type></Type>
      <AuthUrl></AuthUrl>
      <AppId></AppId>
      <AppKey></AppKey>
      <RedirectUrl></RedirectUrl>
      <MailProtocol></MailProtocol>
      <MailDomain>
        <MailDomainName></MailDomainName>
      </MailDomain>
    </ExtendAuthServer>
  </ExtendAuthServers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ExtendAuthServers
Table type	Multi-instance table
Row name	ExtendAuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Extended authentication service type	Index	Enumeration: • **0**—QQ. • **1**—Mail.	N/A
AuthUrl	Authentication URL	N/A	String. Length: 1 to 256 characters. Default: https://graph.qq.com (when the Type field is specified as 0).	N/A.

AppId	App ID which supports for extended authentication	N/A	String. Length: 1 to 32 characters.	The default value is the App ID of the Lvzhou application in the QQ open platform.
AppKey	The key of App ID	N/A	String. Length: 1 to 64 characters.	App key needs to be kept confidential and not returned to users.
RedirectUrl	Authentication redirect URL	N/A	String. Length: 1 to 256 characters.	The default value is the callback address of the Lvzhou application in the QQ open platform.
MailProtocol	Mail authentication protocol type	N/A	Enumeration: • **1**—POP3. • **2**—IMAP. • **3—**POP3 and IMAP.	N/A
MailDomain	Maildomain	Data structure	Members include: • **MailDomainName**	This column takes effect only when the type field is specified as 1. MailDomainName must be set. You can specify 1 to 16 domain names.
MailDomainName	Mail domain name	N/A	String. Length: 1 to 255 characters.	The value of the column must be the Email domain fomat. For example: @qq.com

Portal/HistoryOnlineUserNums

This table contains the statistics on the number of historical online users.

XML structure

```
<Portal>
  <HistoryOnlineUserNums>
    <HistoryOnlineUserNum>
      <Interval></Interval>
      <TimeStamp></TimeStamp>
      <Num></Num>
    </HistoryOnlineUserNum>
  </HistoryOnlineUserNums>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	HistoryOnlineUserNums

Table type	Multi-instance table
Row name	HistroyOnlineUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Time interval	Index	Enumeration: • 0—10 minute • 1—Hour	N/A
TimeStamp	Recording time.	Index	DateTime.Format: YYYY-MM-DDTHH:MM:SS.	N/A
Num	Online user number.	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/CurrentOnlineUserNums

This table shows the number of the current online users.

XML structure

```
<Portal>
  <CurrentOnlineUserNums>
    <CurrentOnlineUserNum>
      <Num></Num>
    </CurrentOnlineUserNum>
  </CurrentOnlineUserNums>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	CurrentOnlineUserNums
Table type	Single-instance table
Row name	CurrentOnlineUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Num	Online user number	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/ObjectGroupStatistics

This table shows the number of online users per object group.

XML structure

```
<Portal>
  <ObjectGroupStatistics>
    <ObjectGroup>
      <GroupName></GroupName>
      <OnlineUserNum></OnlineUserNum>
    </ObjectGroup>
  </ObjectGroupStatistics>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ObjectGroupStatistics
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of group.	Index	String. Length: 1 to 31 characters.	N/A
OnlineUserNum	Online user num.	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/MacTriggerServers

This table contains information about portal mac trigger servers.

XML structure

```
<Portal>
  <MacTriggerServers>
    <MacTriggerServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
        <Key></Key>
      </IPAddressInfo>
      <Threshold></Threshold>
      <NasType></NasType>
      <MacSvrPort></MacSvrPort>
      <Detect>
        <MacSvrRetries></MacSvrRetries>
        <MacSvrRetryInterval></MacSvrRetryInterval>
      </Detect>
      <MacServerType></MacServerType>
      <Version></Version>
      <MacSvrAuthTimeOut></MacSvrAuthTimeOut>
      <AgingTime></AgingTime>
      <LocalBindingEnable></LocalBindingEnable>
      <LocalBindingAgingTime></LocalBindingAgingTime>
      <CloudBindingEnable></CloudBindingEnable>
      <CloudServerURL></CloudServerURL>
    </MacTriggerServer>
  </MacTriggerServers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	MacTriggerServers
Table type	Multi-instance table
Row name	MacTriggerServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Portal mac-trigger server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal mac-trigger server address	Data structure	Members include: IPAddress VRF	N/A
IPAddress	IP address of the portal mac-trigger server	N/A	IPv4: String, dotted decimal notation.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal mac-trigger server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal mac-trigger server and the device. It supports only plaintext.
Threshold	the threshold for MAC-triggered authentication	N/A	Unsigned integer. Value range: 0 to 10240000	The default free-traffic threshold is 0 bytes.
NasType	NAS-Port-Type value	N/A	Unsigned integer. Value range: 1 to 255	The default NAS-Port-Type value carried in RADIUS requests is 0.
MacSvrPort	UDP port number	N/A	Unsigned integer. Value range: 1 to 65534	The default MAC binding server listens for MAC binding query packets on UDP port 50100.
Detect	Portal Mac-trigger server detection	Data structure	Members include: • Retry Interval	N/A
MacSvrRetries	Maximum number of portal Mac-trigger server detection attempts	N/A	Unsigned integer. Value range: 1~10	The default maximum number of query attempts is 3.
MacSvrRetryInterval	Detection interval	N/A	Unsigned integer. Value range:1~60	The default maximum number of query interval is 1 second.
MacServerType	a MAC binding server type	N/A	Boolean: • 0.imc 1.cmcc	The default type of a MAC binding server is IMC.

Version	Version number	N/A	Unsigned integer. Value range:1~3	The default version of the portal protocol is 1.
MacSvrAuthTimeOut	Set the timeout time the device waits for portal authentication to complete	N/A	Unsigned integer. Value range:1~15	The default portal authentication timeout time is 3 minutes.
AgingTime	Set the aging time for MAC-trigger entries	N/A	Unsigned integer. Value range:60~7200	The default aging time for MAC-trigger entries is 300 seconds.
LocalBindingEnable	enable portal MAC-Trigger local-binding	N/A	Boolean: • true–Yes false–No	N/A
LocalBindingAgingTime	the aging time for MAC-trigger local-binding entry	N/A	Unsigned integer. Value range:1~2160	N/A
CloudBindingEnable	Enable portal MAC-Trigger cloud binding	N/A	Boolean: • true–Yes false–No	N/A
CloudServerURL	URL of the cloud portal authentication server	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Portal/ForbiddenRule

This table contains information about portal-forbidden rules.

XML structure

```
<Portal>
  <ForbiddenRules>
    <ForbiddenRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
      <SrcIPAddr></SrcIPAddr>
      <SrcIPAddrLen></SrcIPAddrLen>
      <SrcProtocolType></SrcProtocolType>
      <SrcPortStart></SrcPortStart>
      <SrcPortEnd></SrcPortEnd>
      <DstIPAddr></DstIPAddr>
      <DstIPAddrLen></DstIPAddrLen>
      <DstProtocolType></DstProtocolType>
      <DstPortStart></DstPortStart>
```

```
      <DstPortEnd></DstPortEnd>
      <DstHostName></DstHostName>
      <SrcSsidName></SrcSsidName>
    </ForbiddenRule>
  </ForbiddenRules>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ForbiddenRules
Table type	Multi-instance table
Row name	ForbiddenRule
Restrictions	Not support modify

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-forbidden rule number	Index	Non-negative integer.	N/A
IsAllotID	Whether the rule number is allocated automatically	N/A	Boolean: • **true—Yes** • **false—No**	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
SrcProtocolType	Source protocol type	N/A	Enumeration: • 6—TCP. • 17—UDP.	N/A
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer Value range:0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4:String,dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A

DstIPAddrLen	Subnet mask of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: • 6—TCP. • 17—UDP.	N/A
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535,	N/A
DstHostName	Destination hostname	N/A	String. Length: 1 to 253 characters.	N/A
SrcSsidName	Source SSID name	N/A	String. Length: 1 to 32 characters	N/A

Portal/RedirectOriginalUrl

This table contains information about portal redirect match rules based on original URLs.

XMLstructure

```
<Portal>
  <RedirectOriginalUrls>
    <RedirectOriginalUrl>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <RedirectUrl></RedirectUrl>
      <EncryParam></EncryParam>
    </RedirectOriginalUrl>
  </RedirectOriginalUrls>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	RedirectOriginalUrls
Table type	Multi-instance table
Row name	RedirectOriginalUrl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
EncryParam	Encryption algorithm	N/A	Enumeration: • 0—NONE • 1—DES • 2—AES	N/A

Portal/RedirectUserAgent

This table contains information about portal redirect match rules based on user agents.

XMLstructure

```
<Portal>
  <RedirectUserAgents>
    <RedirectUserAgent>
      <Name></Name>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
    </RedirectUserAgent>
  </RedirectUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	RedirectUserAgents
Table type	Multi-instance table
Row name	RedirectUserAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A

Portal/TempPassOriginalUrl

This table contains information about portal temp pass match rules based on original URLs.

XMLstructure

```
<Portal>
  <TempPassOriginalUrls>
    <TempPassOriginalUrl>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassOriginalUrl>
  </TempPassOriginalUrls>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	TempPassOriginalUrls
Table type	Multi-instance table
Row name	TempPassOriginalUrl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	N/A

Portal/TempPassUserAgent

This table contains information about portal temp pass match rules based on user agents.

XMLstructure

```
<Portal>
  <TempPassUserAgents>
    <TempPassUserAgent>
      <Name></Name>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassUserAgent>
  </TempPassUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	TempPassUserAgents
Table type	Multi-instance table
Row name	TempPassUserAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	N/A

Portal/TempPassOriginalUrlUserAgent

This table contains information about portal temp pass match rules based on original URLs and user agents.

XMLstructure

```
<Portal>
  <TempPassOriginalUrlUserAgents>
    <TempPassOriginalUrlUserAgent>
      <Name></Name>
      <OriginalUrl></OriginalUrl>
      <UserAgent></UserAgent>
      <RedirectUrl></RedirectUrl>
      <IsOriginal></IsOriginal>
    </TempPassOriginalUrlUserAgent>
  </TempPassOriginalUrlUserAgents>
</Portal>
```

Table description

Item	Description
Feature name	Portal

Item	Description
Table name	TempPassOriginalUrlUserAgents
Table type	Multi-instance table
Row name	TempPassOriginalUrlUserAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
OriginalUrl	Original URL	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
UserAgent	User agent	Index	String, case-sensitive. Length: 1 to 255 characters.	N/A
RedirectUrl	Redirect URL	N/A	String, case-sensitive. Length: 1 to 256 characters.	The RedirectUrl column takes effect only when the value of the IsOriginal column is false. If the value of the IsOriginal column is true, the RedirectUrl column can be an arbitrary URL starting with http://or https://.
IsOriginal	Redirect matching requests to the original URL	N/A	Boolean: • true • false	N/A
LeaseTime	Lease time period for the IP address	N/A	String.	N/A
RemainingTime	Remaining lease time period for the IP address	N/A	String.	N/A

Portal/AccessInfo

XML structure

```
<Portal>
  <AccessInfo>
    <TrustND></TrustND>
```

```
    <TrustARP></TrustARP>
  </AccessInfo>
</Portal>
```

Table description

Item	Description
Feature name	Portal accessinfo trust configuration table
Table name	Single-instance table
Table type	Multi-instance table
Row name	AccessInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrustND	Whether the device is configured to obtain user access information from ND entries	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A
TrustARP	Whether the device is configured to obtain user access information from ND entries	N/A	Boolean: • **true**—Yes. • **false**—No.	N/A

Portal/OnlineUsersExt

This table contains portal online users information.

XML structure

```
<Portal>
  <OnlineUsersExt>
    <OnlineUserExt>
      <IPAddress></IPAddress>
      <MacAddress></MacAddress>
      <UserName></UserName>
      <InterfaceName></InterfaceName>
      <SSID></SSID>
      <VLAN></VLAN>
```

```
      <VRF></VRF>
      <ServerName></ServerName>
      <LoginTime></LoginTime>
      <OnlineDuration></OnlineDuration>
      <FlowStats>
        <SendPktNum></SendPktNum>
        <SendByteNum></SendByteNum>
        <RecvPktNum></RecvPktNum>
        <RecvByteNum></RecvByteNum>
      </FlowStats>
      <ObjectGroup></ObjectGroup>
      <InboundFlowRate></InboundFlowRate>
      <OutboundFlowRate></OutboundFlowRate>
      <AccessSwitch></AccessSwitch>
      <LeaseTime></LeaseTime>
      <RemainingTime></RemainingTime>
      <DeviceName></DeviceName>
    </OnlineUserExt>
  </OnlineUsersExt>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of a portal user	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address of the user	Index	MAC address format: HH-HH-HH-HH-HH-HH.	N/A
UserName	User name	N/A	String. Length: 1 to 253 characters.	N/A
InterfaceName	Interface name	N/A	String. Length: 1 to 46 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SSID	SSID name	N/A	String. Length: 1 to 32 characters.	N/A
VLAN	VLAN where the user resides	N/A	Value range: 1 to 4094.	N/A
VRF	MPLS L3VPN where the users resides	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ServerName	Name of the portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
LoginTime	Time when the user logged in	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OnlineDuration	User online duration in seconds	N/A	Non-negative integer.	N/A
FlowStats	Flow statistics for the user	Data structure	Members include: • SendPktNum • SendByteNum • RecvPktNum • RecvByteNum	N/A
SendPktNum	Number of packets sent by the user	N/A	Value range: 0 to 2^{64}-1.	N/A
SendByteNum	Number of bytes sent by the user	N/A	Value range: 0 to 2^{64}-1.	N/A
RecvPktNum	Number of packets received by the user	N/A	Value range: 0 to 2^{64}-1.	N/A
RecvByteNum	Number of bytes received by the user	N/A	Value range: 0 to 2^{64}-1.	N/A
ObjectGroup	Name of the object group where the user resides	N/A	String. Length: 1 to 31 characters.	N/A
InboundFlowRate	Inbound real-time rate in bytes per second	N/A	Value range: 0 to 2^{64}-1.	bytes per second
OutboundFlowRate	Outbound real-time rate in bytes per second	N/A	Value range: 0 to 2^{64}-1.	bytes per second

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessSwitch	Whether the user can access the network	N/A	Boolean: • false—OFF • true—ON	N/A
LeaseTime	Lease time period for the IP address	N/A	String.	N/A
RemainingTime	Remaining lease time period for the IP address	N/A	String.	N/A
DeviceName	Device name of the user	N/A	String. Length: 1 to 127 characters.	N/A

Portal/CriticalMicrosegmentUsers

This table contains information about portal users in critical microsegments.

XML structure

```
<Portal>
  <CriticalMicrosegmentUsers>
    <CriticalMicrosegmentUser>
      <IfIndex></IfIndex>
      <IPAddress></IPAddress>
      <MacAddress></MacAddress>
      <VLAN></VLAN>
      <VRF></VRF>
      <ServerName></ServerName>
      <MicrosegmentID></MicrosegmentID>
    </CriticalMicrosegmentUser>
  </CriticalMicrosegmentUsers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	CriticalMicrosegmentUsers
Table type	Multi-instance table
Row name	CriticalMicrosegmentUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IPAddress	IP address of a user	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address of the user	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
VLAN	VLAN where the user resides	N/A	Value range: 1 to 4094.	N/A
VRF	MPLS L3VPN where the user resides	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ServerName	Name of the portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
MicrosegmentID	Microsegment ID authorized	N/A	Value range: 1 to 65535.	N/A

Contents

Portal 2
Portal/PortalServers 2
Portal/FreeRule 2
Portal/IPv4Interfaces 3
Portal/IPv6Interfaces 4
Portal/WebServers 4
Portal/LocalWebServers 5
Portal/IPv4ServiceTemplates 5
Portal/IPv6ServiceTemplates 6
Portal/SelfDefDevTypePage 6
Portal/GlobalConf 6

Portal

Portal/PortalServers

Message	Explanation
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Another portal authentication server is using the IP address. 指定Portal认证服务器的IP地址冲突。	Another portal authentication server is using the IP address. 指定的ip已经被其他Portal认证服务器使用。
IP address configuration is not complete. IP地址配置不完整。	IP address configuration is not complete. 配置vpn和key之前首先要配置ip。
Invalid shared key. 无效的共享密钥。	Invalid shared key. 用户发来的明文密码要加密,加密失败。
Another portal authentication server is using the IP address. 指定Portal认证服务器的IP地址冲突。	Another portal authentication server is using the IP address. 指定的ip已经被其他Portal认证服务器使用。
Invalid IP address. 无效IP地址值。	Invalid IP address. 无效IP地址值。
Failed to configure the trap action because this action is not supported. 不支持向网管服务器发送Trap信息.	Failed to configure the trap action because this action is not supported. 不支持向网管服务器发送Trap信息.

Portal/FreeRule

Message	Explanation
A portal-free rule with the same filtering criteria already exists. 已经存在相同内容的免认证规则。	A portal-free rule with the same filtering criteria already exists. 配置的portal free rule和已配置free rule参数一样,提示已经存在。
The portal free-rule already exists. 这条免认证规则已经存在。	The portal free-rule already exists. 配置的portal free rule id已经存在。
The source port number and destination port number must belong to the same transport layer protocol. 源和目的端口号所属的传输层协议类型必须保持一致。	The source port number and destination port number must belong to the same transport layer protocol. 配置的free-rule源和目的端口号类型不同。
The source IP address and destination IP address of a portal-free rule must be the same IP version. 免认证规则的源IP地址和目的IP地址的版本必须保持一致。	The source IP address and destination IP address of a portal-free rule must be the same IP version. 免认证规则的源IP地址和目的IP地址的版本必须保持一致。
A portal-free rule can't contain both Layer 3 and	A portal-free rule can't contain both Layer 3 and Layer 2

Layer 2 parameters. 在同一个免认证规则中不可以同时配置有关二层和三层的相关参数。	parameters. 在同一个免认证规则中不可以同时配置有关二层和三层的相关参数。
The portal-free rule can't be empty. 配置的免认证规则内容不能为空。	The portal-free rule can't be empty. 配置的免认证规则内容不能为空。
Invalid MAC address. 无效的MAC地址。	Invalid MAC address. 无效的MAC地址。
Invalid IP address. 无效IP地址值。	Invalid IP address. 无效IP地址值。
A portal-free rule cannot configure mask without mac. Portal免认证规则不可以只配置MAC掩码而不配置MAC地址。	A portal-free rule cannot configure mask without mac. Portal免认证规则不可以只配置掩码而不配置MAC地址。
Portal Mac & Mask Cannot equal to zero. MAC地址和MAC掩码的值相与不能为0。	Portal Mac & Mask Cannot equal to zero. MAC地址和MAC掩码的值相与不能为0。
Incorrect Mask format. 非法的MAC掩码。	Incorrect Mask format. 非法的MAC掩码。
In a portal free-rule, you can't configure both IPv4 and IPv6 destination microsegment IDs. 在同一个免认证规则中不可以同时配置IPv4和IPv6目的微分段ID。	In a portal free-rule, you can't configure both IPv4 and IPv6 destination microsegment IDs. 在同一个免认证规则中不可以同时配置IPv4和IPv6目的微分段ID。
In a portal free-rule, destination microsegmentation feature and destination IP address or mask cannot be configured at the same time. Portal免认证规则包含目的微分段功能与目的IP地址或掩码不可同时配置。	In a portal free-rule, destination microsegmentation feature and destination IP address or mask cannot be configured at the same time. Portal免认证规则包含目的微分段功能与目的IP地址或掩码不可同时配置。
In a portal free-rule configured with destination microsegmentation feature, to configure a destination VPN, you must specify the IPv4 or IPv6 destination microsegment ID. Portal免认证规则包含目的微分段不可单独下发目的VPN,需要指定IPv4或IPv6目的微分段ID。	In a portal free-rule configured with destination microsegmentation feature, to configure a destination VPN, you must specify the IPv4 or IPv6 destination microsegment ID. Portal免认证规则包含目的微分段不可单独下发目的VPN,需要指定IPv4或IPv6目的微分段ID。

Portal/IPv4Interfaces

Message	Explanation
Invalid BAS-IP. 无效的BAS-IP。	Invalid BAS-IP. 无效的BAS-IP。
Failed to change method of the interface, because it is enabled with portal. 无法改变接口的认证方式，因为该接口已经使能了Portal认证。	Failed to change method of the interface, because it is enabled with portal. 无法改变接口的认证方式，因为该接口已经使能了Portal认证。
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Portal Web server configuration is not complete.	Portal Web server configuration is not complete.

Web服务配置不完整。	`WebServerName`和`EscapeEnable`需要都配置，不能配置其中一个
Failed to configure the secondary portal Web server, because fail-permit is enabled. 无法配置备份Portal Web服务器，因为逃生功能已经生效。	You cannot specify a secondary portal Web server when fail-permit is enabled. 无法配置备份Portal Web服务器，因为逃生功能已经生效。
Failed to enable fail-permit because a secondary portal Web server is configured. 无法配置逃生功能，因为备份Porta Web服务器已经配置。	You cannot enable fail-permit when a secondary portal Web server is configured. 无法配置逃生功能，因为备份Porta Web服务器已经配置。
Secondary portal Web server and fail-permit cannot both be configured. 不能同时下发备份Portal Web服务器和逃生功能。	You cannot configure a secondary portal Web server and enable fail-permit at the same time. 不能同时下发备份Portal Web服务器和逃生功能。

Portal/IPv6Interfaces

Message	Explanation
Invalid BAS-IPv6. 无效的BAS-IPv6。	Invalid BAS-IPv6. 无效的BAS-IPv6。
Failed to change method of the interface, because it is enabled with portal. 无法改变接口的认证方式，因为该接口已经使能了Portal认证。	Failed to change method of the interface, because it is enabled with portal. 无法改变接口的认证方式，因为该接口已经使能了Portal认证。
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Portal Web server configuration is not complete. Web服务配置不完整。	Portal Web server configuration is not complete. `WebServerName`和`EscapeEnable`需要都配置，不能配置其中一个
Failed to configure the secondary portal Web server, because fail-permit is enabled. 无法配置备份Portal Web服务器，因为逃生功能已经生效。	You cannot specify a secondary portal Web server when fail-permit is enabled. 无法配置备份Portal Web服务器，因为逃生功能已经生效。
Failed to enable fail-permit because a secondary portal Web server is configured. 无法配置逃生功能，因为备份Porta Web服务器已经配置。	You cannot enable fail-permit when a secondary portal Web server is configured. 无法配置逃生功能，因为备份Porta Web服务器已经配置。
Secondary portal Web server and fail-permit cannot both be configured. 不能同时下发备份Portal Web服务器和逃生功能。	You cannot configure a secondary portal Web server and enable fail-permit at the same time. 不能同时下发备份Portal Web服务器和逃生功能。

Portal/WebServers

Message	Explanation
The portal Web server doesn't exist. 该Portal Web服务器不存在。	The portal Web server doesn't exist. 该Portal Web服务器不存在。

The URL parameter of this type already exists. 该类型的URL参数配置已存在。	The URL parameter of this type already exists. 该类型的URL参数配置已存在。

Portal/LocalWebServers

Message	Explanation
Please specify an SSL server policy. 请引用SSL服务器端策略名。	Please specify an SSL server policy. 请引用SSL服务器端策略名。
HTTPS has been configured for the local portal Web server and the SSL server policy name can't be modified. 本地Portal Web服务器的HTTPS已经存在，SSL服务器端策略名不能被修改。	HTTPS has been configured for the local portal Web server and the SSL server policy name can't be modified. 本地Portal Web服务器的HTTPS已经存在，SSL服务器端策略名不能被修改。
The specified port is being used by another service. Please specify another port. 配置的本地Portal Web服务器的TCP端口号已经被占用。	The specified port is being used by another service. Please specify another port. 配置的本地Portal Web服务器的TCP端口号已经被占用。
The local-portal Web server doesn't exist. 配置的本地Portal Web服务器不存在。	The local-portal Web server doesn't exist. 配置的本地Portal Web服务器不存在。
Failed to configure the local portal Web server because of port conflict. Please specify another port. 配置的端口号冲突，请指定其它TCP端口号。	Failed to configure the local portal Web server because of port conflict. Please specify another port. 配置的端口号冲突，请指定其它TCP端口号。
Failed to configure HTTPS for the local portal Web server because of SSL server policy isn't exist. Please check SSL server policy. 指定的SSL服务策略不存在，请检查SSL配置。	Failed to configure HTTPS for the local portal Web server because of SSL server policy isn't exist. Please check SSL server policy. 指定的SSL服务策略不存在，请检查SSL配置。
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Failed to configure the trap action because this action is not supported. 不支持向网管服务器发送Trap信息.	Failed to configure the trap action because this action is not supported. 不支持向网管服务器发送Trap信息.

Portal/IPv4ServiceTemplates

Message	Explanation
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Portal Web server configuration is not complete. Web服务配置不完整。	Portal Web server configuration is not complete. `WebServerName`和`EscapeEnable`需要都配置，不能配置其中一个
The service-template doesn't exist. 配置的服务模版不存在。	The service-template doesn't exist. 配置的服务模版不存在。

Portal/IPv6ServiceTemplates

Message	Explanation
Portal detection configuration is not complete. 探测功能配置不完整。	Portal detection configuration is not complete. 探测功能配置不完整。
Portal Web server configuration is not complete. Web服务配置不完整。	Portal Web server configuration is not complete. `WebServerName`和`EscapeEnable`需要都配置，不能配置其中一个
The service-template doesn't exist. 配置的服务模版不存在。	The service-template doesn't exist. 配置的服务模版不存在。

Portal/SelfDefDevTypePage

Message	Explanation
Please specify a custom authentication page file. 请指定自定义认证页面文件。	Please specify a custom authentication page file. 请指定自定义认证页面文件。

Portal/GlobalConf

Message	Explanation
Can't change roaming configuration while there are users online. 用户在线时，禁止修改漫游配置。	Can't change roaming configuration while there are users online. 用户在线时，禁止修改漫游配置。

Contents

PORTAL event stream 2
Portal user trace event 2
XML structure for event subscription 2
XML structure for event report 2

PORTAL event stream

Portal event stream description.

Portal user trace event

This event is used to report PORTAL authentication information, including user login time and logoff time, and authentication failure time and reason.

XML structure for event subscription

```
<PortalUserTraceEvent>
</PortalUserTraceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Portal</stream>
    <filter type="subtree">
      <PortalUserTraceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Portal:1.0">
      </PortalUserTraceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	PORTAL
Event name	PortalUserTraceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Portal:1.0
Support for extended query	No

XML structure for event report

```
<PortalUserTraceEvent>
  <IpAddress></IpAddress>
  <MacAddress></MacAddress>
  <UserName></UserName>
  <UserID></UserID>
```

```
  <EventType></EventType>
  <ReqInfoTime></ReqInfoTime>
  <AckInfoTime></AckInfoTime>
  <ReqChallengeTime></ReqChallengeTime>
  <AckChallengeTime></AckChallengeTime>
  <ReqAuthTime></ReqAuthTime>
  <AckAuthTime></AckAuthTime>
  <ReqLogoutTime></ReqLogoutTime>
  <AckLogoutTime></AckLogoutTime>
  <NtfLogoutTime></NtfLogoutTime>
  <ReqMacBindingTime></ReqMacBindingTime>
  <AckMacBindingTime></ReqMacBindingTime>
  <AccessRequestTime></AccessRequestTime>
  <AccessResponseTime></AccessResponseTime>
  <Reason></Reason>
</PortalUserTraceEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-08-29T09:10:51</eventTime>
  <PortalUserTraceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Portal:1.0">
    <IpAddress>10.10.10.10</IpAddress>
    <MacAddress>00-01-00-01-00-01</MacAddress>
    <UserName>ab</UserName>
    <UserID>22</UserID>
    <EventType>UserLogin</EventType>
    <ReqInfoTime>1562322257484</ReqInfoTime>
    <AckInfoTime>1562322257585</AckInfoTime>
    <ReqChallengeTime>1562322257598</ReqChallengeTime>
    <AckChallengeTime>1562322257701</AckChallengeTime>
    <ReqAuthTime>1562322257802</ReqAuthTime>
    <AckAuthTime>1562322267598</AckAuthTime>
    <AccessRequestTime>1565322467598</AccessRequestTime>
    <AccessResponseTime>1566322467598</AccessResponseTime>

  </PortalUserTraceEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
IpAddress	User IP address	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Data type and restrictions	Remarks
MacAddress	User MAC address	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	N/A
UserName	User name	String. Length: 1 to 253 characters.	N/A
UserID	User ID	Unsigned integer.	N/A
EventType	Authentication event type	Enumeration: • UserLogin. • UserLogoff. • UserAuthenticationFailure.	N/A
ReqInfoTime	Time when the portal server requested information	Unsigned integer64. Unit: microseconds.	N/A
AckInfoTime	Time when the device confirmed information response	Unsigned integer64. Unit: microseconds.	N/A
ReqChallengeTime	Time when the portal server requested challenge	Unsigned integer64. Unit: microseconds.	N/A
AckChallengeTime	Time when the device confirmed challenge	Unsigned integer64. Unit: microseconds.	N/A
ReqAuthTime	Time when the user requested authentication	Unsigned integer64. Unit: microseconds.	N/A
AckAuthTime	Time when the device confirmed authentication	Unsigned integer64. Unit: microseconds.	N/A
ReqLogoutTime	Time when the user requested logout	Unsigned integer64. Unit: microseconds.	N/A
AckLogoutTime	Time when the device confirmed logout	Unsigned integer64. Unit: microseconds.	N/A

Column name	Column description	Data type and restrictions	Remarks
NtfLogoutTime	Time when the device notified logout	Unsigned integer64. Unit: microseconds.	N/A
ReqMacBindingTime	Time when the MAC-trigger request was sent	Unsigned integer64. Unit: microseconds.	N/A
AckMacBindingTime	Time when the MAC-trigger response was received	Unsigned integer64. Unit: microseconds.	N/A
AccessRequestTime	Time when the user authentication started	Unsigned integer64. Unit: microseconds.	N/A
AccessResponseTime	Time when the user received authentication response	Unsigned integer64. Unit: microseconds.	N/A
Reason	Authentication failure reason or offline reason	String. Length: 1 to 255 characters.	N/A

Contents

PortalProxy 1
PortalProxy/ProxyEnable 1
XML structure 1
Table description 1
Columns 1
PortalProxy/ProxyPort 1
XML structure 1
Table description 2
Columns 2
PortalProxy/AddrEntries 2
XML structure 2
Table description 3
Columns 3

PortalProxy

PortalProxy/ProxyEnable

This table contains global enabling portal proxy function.

XML structure

```
<PortalProxy>
  <ProxyEnable>
    <Enable></Enable>
  </ProxyEnable>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	ProxyEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the portal proxy feature is enabled	N/A	Boolean: • true. • false.	Default value: false.

PortalProxy/ProxyPort

This table contains port for receiving portal packet.

XML structure

```
<PortalProxy>
  <ProxyPort>
    <Port></Port>
```

```
  </ProxyPort>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	ProxyPort
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Port for receiving portal packet	N/A	Non-negative integer. Value range: 1 to 65535.	Example: 2000.

PortalProxy/AddrEntries

This table contains ipv4 address about portal proxy bas.and user-ip range.

XML structure

```
<PortalProxy>
  <AddrEntries>
    <AddrEntry>
      <AddrGrpName></AddrGrpName>
      <BasIP></BasIP>
      <UserAddrRang>
        <Addr></Addr>
        <MaskLen></MaskLen>
      </UserAddrRang>
    </AddrEntry>
  </AddrEntries>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	AddrEntries
Table type	Multi-instance table
Row name	AddrEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrGrpName	Group of a user address range	Index	String,case-sensitive. Length: 1 to 63 characters.	N/A
BasIP	IP of portal bas	N/A	IPv4: String,dotted decimal notation.	N/A
UserAddrRang	User IP address range group	Data structure	Members include: • Addr. • MaskLen.	This column can appear at most 8 times in this row.
Addr	IP address range	N/A	IPv4: String,dotted decimal notation.	N/A
MaskLen	Mask length	N/A	Value: 1 to 32.	Example: 16.

Contents

PortalProxy 1
PortalProxy/ProxyEnable 1
XML structure 1
Table description 1
Columns 1
PortalProxy/ProxyPort 1
XML structure 1
Table description 2
Columns 2
PortalProxy/AddrEntries 2
XML structure 2
Table description 2
Columns 3

PortalProxy

PortalProxy/ProxyEnable

This table contains global enabling portal proxy function.

XML structure

```
<PortalProxy>
  <ProxyEnable>
    <Enable></Enable>
  </ProxyEnable>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	ProxyEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the portal proxy feature is enabled	N/A	Boolean: • true. • false.	N/A

PortalProxy/ProxyPort

This table contains port for receiving portal packet.

XML structure

```
<PortalProxy>
  <ProxyPort>
    <Port></Port>
  </ProxyPort>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	ProxyPort
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Port for receiving portal packet	N/A	Non-negative integer. Value range: 1 to 65535.	Example: 2000.

PortalProxy/AddrEntries

This table contains ipv4 address about portal proxy bas.and user-ip range.

XML structure

```
<PortalProxy>
  <AddrEntries>
    <AddrEntry>
      <AddrGrpName></AddrGrpName>
      <BasIP></BasIP>
      <UserAddrRang>
        <Addr></Addr>
        <MaskLen></MaskLen>
      </UserAddrRang>
    </AddrEntry>
  </AddrEntries>
</PortalProxy>
```

Table description

Item	Description
Feature name	PortalProxy
Table name	AddrEntries
Table type	Multi-instance table

Row name	AddrEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddrGrpName	Group of a user address range	Index	String,case-sensitive. • Length: 1 to 63 characters.	N/A
BasIP	IP of portal bas	N/A	IPv4: String,dotted decimal notation.	N/A
UserAddrRang	User IP address range group	Data structure	Members include: • Addr. • MaskLen.	This column can appear at most 8 times in this row.
Addr	IP address range	N/A	IPv4: String,dotted decimal notation.	N/A
MaskLen	Mask length	N/A	Value: 1 to 32.	Example: 16.

Contents

PortalProxy 2
PortalProxy/ProxyPort 2
PortalProxy/AddrEntries 2

PortalProxy

PortalProxy/ProxyPort

Message	Explanation
The port is already in use. 端口已被占用。	The port is already in use. 配置的 portal-proxy listen-port 已被占用。

PortalProxy/AddrEntries

Message	Explanation
The user network conflict with other instance. 该用户网段与其他实例冲突。	The user network conflict with other instance. 配置的user-ip-network已经存在。
Invalid IP address. 无效的IP地址。	Invalid IP address. 配置的nas-ip和user-ip-network是无效的IP地址。

Contents

PPP 1
PPP/PPPAuth/Table 1
XML structure 1
Table description 1
Columns 2
PPP/PPPUserPap/Table 2
XML structure 2
Table description 3
Columns 3
PPP/PPPDNS/Table 4
XML structure 4
Table description 4
Columns 4
PPP/PPPUserChap/Table 5
XML structure 5
Table description 5
Columns 6
PPP/PPPIpPool/Table 6
XML structure 6
Table description 7
Columns 7
PPP/PPPRmtAddr/Table 7
XML structure 7
Table description 8
Columns 8
PPP/PPPDNSAccept/Table 8
XML structure 8
Table description 9
Columns 9
PPP/PPPDNSRequest/Table 10
XML structure 10
Table description 10
Columns 11
PPP/PPPAuthFailurePolicy/Table 11
XML structure 11
Table description 11
Columns 12
PPP/PPPGlobalCfg/Table 12
XML structure 12
Table description 13
Columns 13
PPP/PPPMruCheck/Table 13
XML structure 13
Table description 13
Columns 14
PPP/PPPAccountStatistic/Table 14
XML structure 14
Table description 14

Columns 15

PPP

PPP/PPPAuth/Table

This table contains the information about using **ppp authentication-mode** to configure PPP authentication.

XML structure

```
<PPP>
  <PPPAuth>
    <AuthMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <Callin></Callin>
      <Domain></Domain>
      <DefaultDomain></DefaultDomain>
    </AuthMode>
  </PPPAuth>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAuth
Table type	Multi-instance table
Row name	AuthMode
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Mode	Authentication mode.	N/A	Enumeration: • **1**—pap. • **2**—chap. • **4**—ms-chap. • **8**—**ms-chap-v2.**	PPP authentication includes the following categories: PAP and CHAP and ms-chap and ms-chap-v2. You can configure multiple authentication modes. For example the Mode is 10 when Authentication mode types are chap and ms-chap-v2
Callin	Authenticates the call-in users only.	N/A	Boolean: • **true** • **false**	Authenticates the call-in users only. This keyword can be configured when the local end acts as the receiving end of DDR calls.
Domain	ISP domain name.	N/A	String,case-insensitive. Length: 1 to 255 characters.	Specifies the ISP domain name for authentication.
DefaultDomain	ISP default domain name.	N/A	String,case-insensitive. Length: 1 to 255 characters.	N/A

PPP/PPPUserPap/Table

This table contains the information about PPP Pap.

XML structure

```
<PPP>
  <PPPUserPap>
    <UserPap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
```

```
    </UserPap>
  </PPPUserPap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserPap
Table type	Multi-instance table
Row name	UserPap
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
UserName	Username of Pap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of Pap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPDNS/Table

This table contains the information of PPP DNS server IP addresses.

XML structure

```
<PPP>
  <PPPDNS>
    <IpcpDNS>
      <IfIndex></IfIndex>
      <PriAddr></PriAddr>
      <SecAddr></SecAddr>
    </IpcpDNS>
  </PPPDNS>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNS
Table type	Multi-instance table
Row name	IpcpDNS
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PriAddr	Specifies a primary DNS server IP address.	N/A	String, dotted decimal notation.	N/A
SecAddr	Specifies a secondary DNS server IP address.	N/A	String, dotted decimal notation.	N/A

PPP/PPPUserChap/Table

This table contains the information about using PPP authentication-mode chap to configure PPP authentication.

XML structure

```
<PPP>
  <PPPUserChap>
    <UserChap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserChap>
  </PPPUserChap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserChap
Table type	Multi-instance table
Row name	UserChap
Restrictions	This table supports interface types: virtual-template interface

	virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
UserName	Username of chap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of chap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPIpPool/Table

This table contains ip pool of PPP configuration information.

XML structure

```
<PPP>
  <PPPIpPool>
    <IpPool>
      <GroupName></GroupName>
      <PoolName></PoolName>
      <StartIPaddr></StartIPaddr>
      <EndIPaddr></EndIPaddr>
    </IpPool>
  </PPPIpPool>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPIpPool
Table type	Multi-instance table
Row name	IpPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	PPP ip pool group name	Index	String, case sensitive. Length: 1 to 31 characters.	Group name must be "default" when you set the default group.
PoolName	PPP ip pool name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
StartIPaddr	Start IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	N/A
EndIPaddr	End IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	It is equal with the StartIPaddr when it is empty. EndIPaddr must be no less than the StartIPaddr.

PPP/PPPRmtAddr/Table

This table contains PPP remote address configuration information.

XML structure

```
<PPP>
  <PPPRmtAddr>
    <RmtAddr>
      <IfIndex></IfIndex>
      <IPaddress></IPaddress>
      <PoolName></PoolName>
    </RmtAddr>
```

```
  </PPPRmtAddr>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPRmtAddr
Table type	Multi-instance table
Row name	RmtAddr
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IPaddress	Start IP address of IP address range in a PPP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
PoolName	PPP ip pool name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

PPP/PPPDNSAccept/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```
<PPP>
  <PPPDNSAccept>
    <DNSAdmitAny>
      <IfIndex></IfIndex>
```

```
      <AdmitAny></AdmitAny>
    </DNSAdmitAny>
  </PPPDNSAccept>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSAccept
Table type	Multi-instance table
Row name	DNSAdmitAny
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AdmitAny	Configure an interface to accept the DNS server IP address assigned by the peer.	N/A	Boolean: • **true** • false	You can config an interface to accept the DNS server IP address assigned by the peer,through which domain names can be resolved for the device.

PPP/PPPDNSRequest/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```
<PPP>
  <PPPDNSRequest>
    <DNSRequest>
      <IfIndex></IfIndex>
      <Request></Request>
    </DNSRequest>
  </PPPDNSRequest>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSRequest
Table type	Multi-instance table
Row name	DNSRequest
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Request	Configure an interface to actively request the DNS server IP address its peer.	N/A	Boolean: • **true** • false	If a device is connected to a provider's access server through a PPP link, you can use this command. Then, the device can obtain the specified DNS server IP address from the access server during IPCP negotiation.

PPP/PPPAuthFailurePolicy/Table

This table contains the information about configuring PPP Auth Failure Policy.

XML structure

```
<PPP>
  <PPPAuthFailurePolicy>
    <ChastenAuthFailedTimes></ChastenAuthFailedTimes>
    <ChastenPeriod></ChastenPeriod>
    <BlockPeriod></BlockPeriod>
    <CheckEnable></CheckEnable>
  </PPPAuthFailurePolicy>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAuthFailurePolicy

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChastenAuthFailedTimes	Allow times of authentication failure.	N/A	Unsigned integer. 1~1000.	Custom defaults vary by product
ChastenPeriod	Check period of authentication failure chasten in second.	N/A	Unsigned integer.1~3600.	Custom defaults vary by product
BlockPeriod	Block period of authentication in second.	N/A	Unsigned integer.1~3600.	Custom defaults vary by product
CheckEnable	Enable chasten.	N/A	Enumeration: • 1—Enable chasten function. (default) • 2—Disable chasten function.	Custom defaults vary by product

PPP/PPPGlobalCfg/Table

This table contains the information about configuring PPP GlobalCfg.

XML structure

```
<PPP>
  <PPPGlobalCfg>
    <GlobalCfg>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <KeepaliveFastReply></KeepaliveFastReply>
    </GlobalCfg>
  </PPPGlobalCfg>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPGlobalCfg
Table type	Multi-instance table
Row name	GlobalCfg
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis id	Index	Unsigned integer.	0 means non-stacked environment
Slot	Slot id	Index	Unsigned integer.	N/A
KeepaliveFastReply	To enable fast reply keepalive pkt.	N/A	Enumeration: • true.(default) • false.	N/A

PPP/PPPMruCheck/Table

This table shows PPP Mru Check information.

XML structure

```
<PPP>
  <PPPMruCheck>
    <MruCheck></MruCheck>
  </PPPMruCheck>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPMruCheck
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MruCheck	To enable mru-check.	N/A	Enumeration: • true. • false.(default)	N/A

PPP/PPPAccountStatistic/Table

This table contains the information about using ppp account-statistics enable to configure PPP accounting.

XML structure

```
<PPP>
  <PPPAccountStatistic>
    <AccountStatistic>
      <IfIndex></IfIndex>
      <Account></Account>
      <Acl></Acl>
    </AccountStatistic>
  </PPPAccountStatistic>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAccountStatistic
Table type	Multi-instance table
Row name	AccountStatistic
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface

	pos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Account	Enable PPP accounting	N/A	Enumeration: • true. • false (default).	N/A
Acl	ACL number or ACL name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Contents

PPP 1
PPP/PPPAuth/Table 1
XML structure 1
Table description 1
Columns 2
PPP/PPPUserPap/Table 2
XML structure 2
Table description 3
Columns 3
PPP/PPPDNS/Table 3
XML structure 4
Table description 4
Columns 4
PPP/PPPUserChap/Table 5
XML structure 5
Table description 5
Columns 6
PPP/PPPOEUserNumInfo/Table 6
XML structure 6
Table description 6
Columns 7
PPP/PPPOEUserInfo/Table 7
XML structure 7
Table description 7
Columns 7
PPP/PPPUserInfo/Table 8
XML structure 8
Table description 9
Columns 9
PPP/PPPIpPool/Table 12
XML structure 12
Table description 12
Columns 12
PPP/PPPRmtAddr/Table 13
XML structure 13
Table description 13
Columns 13
PPP/PPPDNSAccept/Table 14
XML structure 14
Table description 15
Columns 15
PPP/PPPDNSRequest/Table 16
XML structure 16
Table description 16
Columns 16
PPP/HistoryUserInfo/Table 17
XML structure 17
Table description 17

Columns 18
PPP/PPPAuthFailurePolicy/Table 18
XML structure 18
Table description 18
Columns 19
PPP/ChastenStatistics/Table 19
XML structure 19
Table description 19
Columns 20
PPP/PPPGlobalCfg/Table 20
XML structure 20
Table description 20
Columns 21
PPP/PPPMruCheck/Table 21
XML structure 21
Table description 21
Columns 21
PPP/PPPAccountStatistic/Table 22
XML structure 22
Table description 22
Columns 22

PPP

PPP/PPPAuth/Table

This table contains the information about using ppp authentication-mode to configure PPP authentication.

XML structure

```
<PPP>
  <PPPAuth>
    <AuthMode>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Mode></Mode>
      <Callin></Callin>
      <Domain></Domain>
      <DefaultDomain></DefaultDomain>
    </AuthMode>
  </PPPAuth>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAuth
Table type	Multi-instance table
Row name	AuthMode
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
Mode	Authentication mode.	N/A	Enumeration: • 1—pap. • **2**—chap. • **4**—ms-chap. • **8—ms-chap-v2.**	N/A
Callin	Authenticates the call-in users only.	N/A	Boolean: • **true** • **false**	N/A
Domain	ISP domain name.	N/A	String,case-insensitive. Length: 1 to 255 characters.	N/A
DefaultDomain	ISP default domain name.	N/A	String,case-insensitive. Length: 1 to 255 characters.	N/A

PPP/PPPUserPap/Table

This table contains the information about PPP Pap.

XML structure

```
<PPP>
  <PPPUserPap>
    <UserPap>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserPap>
  </PPPUserPap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserPap
Table type	Multi-instance table
Row name	UserPap
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
UserName	Username of Pap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of Pap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPDNS/Table

This table contains the information of PPP DNS server IP addresses.

XML structure

```
<PPP>
  <PPPDNS>
    <IpcpDNS>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PriAddr></PriAddr>
      <SecAddr></SecAddr>
    </IpcpDNS>
  </PPPDNS>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNS
Table type	Multi-instance table
Row name	IpcpDNS
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
PriAddr	Specifies a primary DNS server IP address.	N/A	String, dotted decimal notation.	N/A
SecAddr	Specifies a secondary DNS server IP address.	N/A	String, dotted decimal notation.	N/A

PPP/PPPUserChap/Table

This table contains the information about using PPP authentication-mode Chap to configure PPP authentication.

XML structure

```
<PPP>
  <PPPUserChap>
    <UserChap>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserChap>
  </PPPUserChap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserChap
Table type	Multi-instance table
Row name	UserChap
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface

			aux interface serial interface	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
UserName	Username of chap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of chap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPOEUserNumInfo/Table

This table contains the number of PPPoE user information.

XML structure

```
<PPP>
  <PPPOEUserNumInfo>
    <Num></Num>
  </PPPOEUserNumInfo>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPOEUserNumInfo
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Num	PPPoE user number.	N/A	Unsigned integer.	N/A

PPP/PPPOEUserInfo/Table

This table contains PPPoE user information.

XML structure

```
<PPP>
  <PPPOEUserInfo>
    <PPPOEUser>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <MacAddr></MacAddr>
      <IpAddr></IpAddr>
      <ObjectGroup></ObjectGroup>
    </PPPOEUser>
  </PPPOEUserInfo>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPOEUserInfo
Table type	Multi-instance table
Row name	PPPOEUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Unsigned integer. Value range: 0 to 2^{64} - 1. Unsigned integer. Value range: 0 to 2^{64} - 1.This don't support name index.
UserName	User name.	N/A	String. Length: 1 to 80 characters.	N/A
MacAddr	MAC address .	N/A	String, dotted decimal notation.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
ObjectGroup	Group name	N/A	String. Length: 1 to 31 characters.	N/A

PPP/PPPUserInfo/Table

This table contains PPP user information.

XML structure

```
<PPP>
  <PPPUserInfo>
    <PPPUser>
      <PPPIndex></PPPIndex>
      <UserType></UserType>
      <State></State>
      <UserName></UserName>
      <MacAddr></MacAddr>
      <IpAddr></IpAddr>
      <IPv6Addr></IPv6Addr>
      <AuthenDomain></AuthenDomain>
      <AuthorDomain></AuthorDomain>
      <VPNInstanceName></VPNInstanceName>
      <UserID></UserID>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <IPv4Pool></IPv4Pool>
      <IPv6Pool></IPv6Pool>
      <IPv6NDPool></IPv6NDPool>
      <VxLANID></VxLANID>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
```

```
      <UserProfile></UserProfile>
      <GroupUserProfile></GroupUserProfile>
      <InboundCAR></InboundCAR>
      <OutboundCAR></OutboundCAR>
      <InboundPIR></InboundPIR>
      <OutboundPIR></OutboundPIR>
      <IPv4FlowStat></IPv4FlowStat>
      <IPv6FlowStat></IPv6FlowStat>
      <AccessInterface></AccessInterface>
      <BasInterface></BasInterface>
      <CfgInterface></CfgInterface>
      <InboundFlowRate></InboundFlowRate>
      <OutboundFlowRate></OutboundFlowRate>
    </PPPUser>
  </PPPUserInfo>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserInfo
Table type	Multi-instance table
Row name	PPPUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PPPIndex	PPP index.	Index	Unsigned integer.	Unsigned integer. Value range: 0 to 2^{64} - 1.
UserType	User Type	N/A	Enumeration: • 1—LAC. • 2—LNS. • 3—PPPOA. • **4—PPPOE** • **5—PPPPHY**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	PPP Phase	N/A	Enumeration: • 0—PHASE_DEAD. • 1—PHASE_ESTABLISH • 2—PHASE_AUTHENTICATE • 3—PHASE_DDRAUTH • 4—PHASE_MULTILINK • 5—PHASE_NETWORK • 6—PHASE_TERMINATE	N/A
UserName	User name.	N/A	String. Length: 1 to 80 characters.	N/A
MacAddr	MAC address .	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
IPv6Addr	IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
AuthenDomain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
AuthorDomain	Domain name for authorization	N/A	String. Length: 1 to 255 characters.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserID	User ID assigned to an user in online state	N/A	Unsigned integer	N/A
ServiceVLAN	Service provider VLAN	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN	N/A	Unsigned short.	N/A
IPv4Pool	PPP IPCP address pool name	N/A	String. Length: 1 to 31 characters.	N/A
IPv6Pool	PPP IPV6 address pool name	N/A	String, Length: 1 to 63 characters.	N/A
IPv6NDPool	PPP IPV6 ND prefix address pool name	N/A	String, Length: 1 to 63 characters.	N/A
VxLANID	VXLAN ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	User online time	N/A	DateTime.	Example: hh:mm:ss
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 31 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 31 characters.	N/A
InboundCAR	Authorized inbound average rate value	N/A	Unsigned integer.	Unit: kbps
OutboundCAR	Authorized outbound average rate value	N/A	Unsigned integer.	Unit: kbps
InboundPIR	Authorized inbound peak rate value	N/A	Unsigned integer.	Unit: kbps
OutboundPIR	Authorized outbound peak rate value	N/A	Unsigned integer.	Unit: kbps
IPv4FlowStat	IPv4 flow statistics	N/A	String. Length: 1 to 128 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6flow statistics	N/A	String. Length: 1 to 128 characters.	Include uplink packets/bytes and downlink packets/bytes
AccessInterface	Access interface	N/A	Unsigned integer	N/A
BasInterface	Bas interface	N/A	Unsigned integer	N/A
CfgInterface	Configuration interface	N/A	Unsigned integer	N/A
InboundFlowRate	InboundFlowRate	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A
OutboundFlowRate	OutboundFlowRate	N/A	Unsigned integer Value range: 0 to 2^{64}-1	N/A

PPP/PPPIpPool/Table

This table contains ip pool of PPP configuration information.

XML structure

```
<PPP>
  <PPPIpPool>
    <IpPool>
      <GroupName></GroupName>
      <PoolName></PoolName>
      <StartIPaddr></StartIPaddr>
      <EndIPaddr></EndIPaddr>
    </IpPool>
  </PPPIpPool>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPIpPool
Table type	Multi-instance table
Row name	IpPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	PPP ip pool group name	Index	String, case sensitive. Length: 1 to 31 characters.	Group name must be "default" when you set the default group.
PoolName	PPP ip pool name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
StartIPaddr	Start IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndIPaddr	End IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	It is equal with the StartIPaddr when it is empty. EndIPaddr must be no less than the StartIPaddr.

PPP/PPPRmtAddr/Table

This table contains PPP remote address configuration information.

XML structure

```
<PPP>
  <PPPRmtAddr>
    <RmtAddr>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <IPaddress></IPaddress>
      <PoolName></PoolName>
    </RmtAddr>
  </PPPRmtAddr>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPRmtAddr
Table type	Multi-instance table
Row name	RmtAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
IPaddress	Start IP address of IP address range in a PPP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
PoolName	PPP ip pool name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

PPP/PPPDNSAccept/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```
<PPP>
  <PPPDNSAccept>
    <DNSAdmitAny>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <AdmitAny></AdmitAny>
    </DNSAdmitAny>
  </PPPDNSAccept>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSAccept
Table type	Multi-instance table
Row name	DNSAdmitAny
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
AdmitAny	Configure an interface to accept the DNS server IP address assigned by the peer.	N/A	Boolean: • **true.** • **false.**	You can config an interface to accept the DNS server IP address assigned by the peer,through which domain names can be resolved for the device.

PPP/PPPDNSRequest/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```
<PPP>
  <PPPDNSRequest>
    <DNSRequest>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Request></Request>
    </DNSRequest>
  </PPPDNSRequest>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSRequest
Table type	Multi-instance table
Row name	DNSRequest
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
Request	Configure an interface to actively request the DNS server IP address its peer.	N/A	Boolean: • **true** • **false**	If a device is connected to a provider's access server through a PPP link, you can use this command. Then, the device can obtain the specified DNS server IP address from the access server during IPCP negotiation.

PPP/HistoryUserInfo/Table

This table contains PPP history user information.

XML structure

```
<PPP>
  <HistoryUserInfo>
    <HistoryUser>
      <Interval></Interval>
      <Index></Index>
      <TimeStamp></TimeStamp>
      <Num></Num>
    </HistoryUser>
  </HistoryUserInfo>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	HistoryUserInfo

Table type	Multi-instance table
Row name	HistoryUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The time interval of getting user information	Index	Enumeration: • 0—hour. • 1—day.	When Interval = 0,obtain ppp user information at a time every ten minutes. When Interval = 1,obtain ppp user information at a time every one hour.
Index	The serial number of information	Index	Unsigned integer. Value range: 1 to 60.	The smaller the Index,obtained information from the closer now.
TimeStamp	The time when getting information	N/A	Date time	N/A
Num	PPP user total	N/A	Unsigned integer.	N/A

PPP/PPPAuthFailurePolicy/Table

This table contains the information about configuring PPP Auth Failure Policy.

XML structure

```
<PPP>
  <PPPAuthFailurePolicy>
    <ChastenAuthFailedTimes></ChastenAuthFailedTimes>
    <ChastenPeriod></ChastenPeriod>
    <BlockPeriod></BlockPeriod>
    <CheckEnable></CheckEnable>
  </PPPAuthFailurePolicy>
</PPP>
```

Table description

Item	Description
Feature name	PPP

Table name	PPPAuthFailurePolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChastenAuthFailedTimes	Allow times of authentication failure.	N/A	Unsigned integer. 1~1000.	N/A
ChastenPeriod	Check period of authentication failure chasten in second.	N/A	• Unsigned integer.1~3600.	N/A
BlockPeriod	Block period of authentication in second.	N/A	• Unsigned integer.1~3600.	N/A
CheckEnable	Enable chasten.	N/A	Enumeration: • 1—Enable chasten function. • 2—Disable chasten function.	N/A

PPP/ChastenStatistics/Table

This table shows PPP chasten statistics information.

XML structure

```
<PPP>
  <ChastenStatistics>
    <BlockedUserNum></BlockedUserNum>
    <AuthfailedUserNum></AuthfailedUserNum>
  </ChastenStatistics>
</PPP>
```

Table description

Item	Description
Feature name	PPP

Table name	ChastenStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BlockedUserNum	Blocked users total	N/A	• Unsigned integer.	N/A
AuthfailedUserNum	Auth-failed users total	N/A	Unsigned integer.	N/A

PPP/PPPGlobalCfg/Table

This table contains the information about configuring PPP GlobalCfg.

XML structure

```
<PPP>
  <PPPGlobalCfg>
    <GlobalCfg>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <KeepaliveFastReply></KeepaliveFastReply>
    </GlobalCfg>
  </PPPGlobalCfg>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPGlobalCfg
Table type	Multi-instance table
Row name	GlobalCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis id	Index	Unsigned integer.	0 means non-stacked environment
Slot	Slot id	Index	Unsigned integer.	N/A
KeepaliveFastReply	To enable fast reply keepalive pkt.	N/A	Enumeration: • true. • false.	N/A

PPP/PPPMruCheck/Table

This table shows PPP Mru Check information.

XML structure

```
<PPP>
  <PPPMruCheck>
    <MruCheck></MruCheck>
  </PPPMruCheck>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPMruCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MruCheck	To enable mru-check.	N/A	Enumeration: • true. • false.	N/A

PPP/PPPAccountStatistic/Table

This table contains the information about using ppp account-statistics enable to configure PPP accounting.

XML structure

```
<PPP>
  <PPPAccountStatistic>
    <AccountStatistic>
      <IfIndex></IfIndex>
      <Account></Account>
      <Acl></Acl>
    </AccountStatistic>
  </PPPAccountStatistic>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAccountStatistic
Table type	Multi-instance table
Row name	AccountStatistic
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Account	Enable PPP accounting	N/A	Enumeration: • true. • false (default).	N/A
Acl	ACL number or ACL name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Contents

Comware 7 PPP NETCONF XML API Error Message Reference 1
PPP/PPPAuthMode 1
PPP/PPPUserPap 1
PPP/PPPDNS 1
PPP/PPPUserChap 2
PPP/PPPIpPool 2
PPP/PPPRmtAddr 2
PPP/PPPDNSAccept 3
PPP/PPPDNSRequest 3

Comware 7 PPP NETCONF XML API Error Message Reference

PPP/PPPAuthMode

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	The <Mode> column has been set and the < Callin > column has been set to true,but the < Domain > column and the < DefaultDomain > don't been set. <Mode>列存在设置，<Callin>设为真，但<Domain>和<DefaultDomain>行没有设置。
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发
Domain cannot be set as "default". Domain列不能被设置为"default"。	Avoid to conflict with command. 防止与命令行冲突。

PPP/PPPUserPap

Message	Explanation
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPDNS

Message	Explanation
Invalid start IPv4 address. 非法的IPv4开始地址。	The <PriAddr> column should be a valid IP address. <PriAddr>列必须是合法的IP地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	The <SecAddr> column should be a valid IP address. <SecAddr>列必须是合法的IP地址。
Configuration items don't meet the requirements. 不符合配置要求。	The <PriAddr> column doesn't been set, but the <SecAddr> column has bee set. <PriAddr>列没有进行配置，但<SecAddr>列存在配置
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPUserChap

Message	Explanation
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPIpPool

Message	Explanation
Invalid start IPv4 address. 非法的IPv4开始地址。	The <StartIPaddr> column should be a valid IP address. <StartIPaddr>列必须是合法的IP地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	The <EndIPaddr> column should be a valid IP address. <EndIPaddr>列必须是合法的IP地址。
Total IP address number in this range exceeds 65535. 该IP范围内IP地址个数已达上限。	Total IP address number in this range exceeds 65535. 该IP范围内IP地址个数已达上限。
Total IP address number in this pool exceeds 65535. 该IP地址池内IP地址个数已达上限。	Total IP address number in this pool exceeds 65535. 该IP地址池内IP地址个数已达上限。
This pool is not allowed, because the pool is already in another group. 该IP地址池已存在其他组内	This pool is not allowed, because the pool is already in another group. 该IP地址池已存在其他组内
The IP address range overlaps with existing IP address ranges in other group. 该IP地址范围与其他组内的IP地址范围相互覆盖。	The IP address range overlaps with existing IP address ranges in other group. 该IP地址范围与其他组内的IP地址范围相互覆盖。
The start IP address should be less than or equal to the end IP address. 开始IP地址必须小于等于结束IP地址。	The start IP address should be less than or equal to the end IP address. 开始IP地址必须小于等于结束IP地址。
Operation failed, The pool is being used. 操作失败，地址池正在使用。	Operation failed, The pool is being used. 操作失败，地址池正在使用。

PPP/PPPRmtAddr

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	The <Paddress> column should be a valid IP address. <IPaddress>列必须是合法的IP地址。
Configuration items don't meet the requirements. 不符合配置要求。	The <Paddress> column and <PoolName > column can't be set at the same time. <Paddress> 和<PoolName >不能同时配置。

PPP/PPPDNSAccept

Message	Explanation
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPDNSRequest

Message	Explanation
In aux interface,async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

Contents

PPPOEC 1
PPPOEC/PppoecClient 1
XML structure 1
Table description 1
Columns 2

PPPOEC

PPPOEC/PppoecClient

This table contains PPPOE client configuration information.

XML structure

```
<PPPOEC>
  <PppoecClient>
    <Client>
      <IfIndex></IfIndex>
      <BundleNum></BundleNum>
      <Hostuniq></Hostuniq>
    </Client>
  </PppoecClient>
</PPPOEC>
```

Table description

Item	Description
Feature name	PPPOEC
Table name	PppoecClient
Table type	Multi-instance table
Row name	Client
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 WLAN-Ethernet interface/subinterface Layer 3 Twenty-GigEthernet interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 Eth-channel interface/subinterface VLAN interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BundleNum	PPPOE client bundle number	Index	Unsigned integer. Value range: MinBundleNum to MaxBundleNum.	The value of MinBundleNum and MaxBundleNum depend on the device model.
Hostuniq	Whether is Host-Uniq is enble or not.	N/A	Boolean: • **true**(default) • **false**.	N/A

Contents

PPPOEC 1
PPPOEC/PppoecClient 1
XML structure 1
Table description 1
Columns 2
PPPOEC/PppoecSpecification 2
XML structure 2
Table description 2
Columns 3

PPPOEC

PPPOEC/PppoecClient

This table contains ip pool of PPPOE client configuration information.

XML structure

```
<PPPOEC>
  <PppoecClient>
    <Client>
      <IfIndex></IfIndex>
      <BundleNum></BundleNum>
      <Hostuniq></Hostuniq>
    </Client>
  </PppoecClient>
</PPPOEC>
```

Table description

Item	Description
Feature name	PPPOEC
Table name	PppoecClient
Table type	Multi-instance table
Row name	Client
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 WLAN-Ethernet interface/subinterface Layer 3 Twenty-GigEthernet interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 Eth-channel interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BundleNum	PPPOE client bundle number	Index	Unsigned integer. Value range: MinBundleNum to MaxBundleNum.	The value of MinBundleNum and MaxBundleNum depend on the device model.
Hostuniq	Whether is Host-Uniq is enble or not.	N/A	Boolean: • **true** • **false**.	N/A

PPPOEC/PppoecSpecification

This table contains PPPOEC specification information.

XML structure

```
<PPPOEC>
  <PppoecSpecification>
    <MinBundleNum></MinBundleNum>
    <MaxBundleNum></MaxBundleNum>
  </PppoecSpecification>
</PPPOEC>
```

Table description

Item	Description
Feature name	PPPOEC
Table name	PppoecSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinBundleNum	The minimum of bundle number.	N/A	Unsigned integer.	N/A
MaxBundleNum	The maximum of bundle number.	N/A	Unsigned integer.	N/A

Contents

Comware 7 PPPOEC NETCONF XML API Error Message Reference 1
PPPOEC/PppoecClient 1

Comware 7 PPPOEC NETCONF XML API Error Message Reference

PPPOEC/PppoecClient

Message	Explanation
Failed to enable the PPPoE client. 创建PPPOE会话客户端失败。	Failed to enable the PPPoE client. 创建PPPOE会话客户端失败。
Failed to disable the PPPoE client. 删除PPPOE会话客户端失败。	Failed to disable the PPPoE client. 删除PPPOE会话客户端失败。
Operation failed because the bundle-number is occupied by another interface. 操作失败，该Bundle编号已经被其他接口占用。	The dialer bundle number is occupied by another interface. dialer bundle number已被别的接口占用。
The value is out of range. 参数值超出范围。	The dialer bundle number is out of range. 配置的dialer bundle number超出范围。

Contents

PPPOES 1
PPPOES/PppoesBind/Table 1
XML structure 1
Table description 1
Columns 2
PPPOES/PppoesIfLimit/Table 2
XML structure 2
Table description 2
Columns 3
PPPOES/PppoesAccessDelay/Table 3
XML structure 3
Table description 4
Columns 4
PPPOES/PppoesConnChastenGlbPolicy/Table 4
XML structure 4
Table description 5
Columns 5
PPPOES/PppoesConnChastenQuickOfflineGlbPolicy/Table 5
XML structure 5
Table description 6
Columns 6
PPPOES/PppoesConnChastenIfPolicies/Table 6
XML structure 6
Table description 7
Columns 7
PPPOES/PppoesConnChastenQuickOfflineIfPolicies/Table 8
XML structure 8
Table description 8
Columns 8
PPPOES/PppoesConnectIfRateLimit/Table 9
XML structure 9
Table description 9
Columns 10
PPPOES/PppoesSlotLimit/Table 10
XML structure 10
Table description 10
Columns 11
PPPOES/PppoesPadiLimit/Table 11
XML structure 11
Table description 11
Columns 11
PPPOES/PppoesUpPadiLimit/Table 12
XML structure 12
Table description 12
Columns 12

PPPOES

PPPOES/PppoesBind/Table

This table contains the information about using pppoe-server bind to enable the PPPoE server on an interface and bind the interface to a VT interface.

XML structure

```
<PPPOES>
  <PppoesBind>
    <BindVT>
      <IfIndex></IfIndex>
      <VTNum></VTNum>
    </BindVT>
    </PppoesBind>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesBind
Table type	Multi-instance table
Row name	BindVT
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VTNum	VT number.	N/A	Unsigned integer.	The value of VTNum depends on the device model.

PPPOES/PppoesIfLimit/Table

This table contains PPPOE server sessions limit on interface configuration information.

XML structure

```
<PPPOES>
  <PppoesIfLimit>
    <IfLimit>
      <IfIndex></IfIndex>
      <LimitIf></LimitIf>
      <LimitClnMac></LimitClnMac>
      <LimitPerVlan></LimitPerVlan>
    </IfLimit>
  </PppoesIfLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesIfLimit
Table type	Multi-instance table
Row name	IfLimit
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface

Item	Description
	Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
LimitIf	The maximum number of PPPoE sessions on an interface.	N/A	Unsigned integer. Value range: 1 to 65534. Default: 65534.	N/A
LimitClnMac	The maximum number of PPPoE sessions for a user	N/A	Unsigned integer. Value range: 1 to 65534. Default: 1.	N/A
LimitPerVlan	The maximum number of PPPoE sessions for a VLAN on an interface	N/A	Unsigned integer. Value range: 1 to 65534. Default: 65534.	N/A

PPPOES/PppoesAccessDelay/Table

This table contains information about setting the response delay time on an interface.

XML structure

```
<PPPOES>
  <PppoesAccessDelay>
    <AccessDelay>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <DelayTime></DelayTime>
    </AccessDelay>
```

```
  </PppoesAccessDelay>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesAccessDelay
Table type	Multi-instance table
Row name	AccessDelay
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Mode	The mode of delaytime	Index	Enumeration: • 0—all • 1—even-mac • 2—odd-mac	N/A
DelayTime	Specifies the response delay time	N/A	Unsigned integer. Value range: 10 to 25500. Default: 0.	Unit: milliseconds

PPPOES/PppoesConnChastenGlbPolicy/Table

This table contains the information about configuring Pppoes Conn Chasten Glb Policy.

XML structure

```
<PPPOES>
  <PppoesConnChastenGlbPolicy>
    <BlockPeriod></BlockPeriod>
    <CheckType></CheckType>
    <RequestTimes></RequestTimes>
    <RequestPeriod></RequestPeriod>
```

```
  </PppoesConnChastenGlbPolicy>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenGlbPolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BlockPeriod	Blocking period in seconds.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Detection type.	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. (default). • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Detection period in seconds.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenQuickOfflineGlbPolicy/Table

This table contains the information about configuring Pppoes Conn Chasten Quick Offline Glb Policy.

XML structure

```
<PPPOES>
  <PppoesConnChastenQuickOfflineGlbPolicy>
    <BlockPeriod></BlockPeriod>
    <CheckType></CheckType>
    <RequestTimes></RequestTimes>
```

```
    <RequestPeriod></RequestPeriod>
  </PppoesConnChastenQuickOfflineGlbPolicy>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenQuickOfflineGlbPolicy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BlockPeriod	Blocking period in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. (default) • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenIfPolicies/Table

This table contains the information about configuring Pppoes Conn Chasten If Policies.

XML structure

```
<PPPOES>
  <PppoesConnChastenIfPolicies>
    <IfPolicy>
      <IfIndex></IfIndex>
      <BlockPeriod></BlockPeriod>
      <CheckType></CheckType>
```

```
      <RequestTimes></RequestTimes>
      <RequestPeriod></RequestPeriod>
    </IfPolicy>
  </PppoesConnChastenIfPolicies>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenIfPolicies
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BlockPeriod	Blocking period in seconds.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. (default) • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenQuickOfflineIfPolicies/Table

This table contains the information about configuring Pppoes Conn Chasten Quick Offline If Policies.

XML structure

```
<PPPOES>
  <PppoesConnChastenQuickOfflineIfPolicies>
    <IfPolicy>
      <IfIndex></IfIndex>
      <BlockPeriod></BlockPeriod>
      <CheckType></CheckType>
      <RequestTimes></RequestTimes>
      <RequestPeriod></RequestPeriod>
    </IfPolicy>
  </PppoesConnChastenQuickOfflineIfPolicies>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenQuickOfflineIfPolicies
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BlockPeriod	Blocking period in seconds.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.

Column name	Column description	Column type	Data type and restrictions	Remarks
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. (default) • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnectIfRateLimit/Table

This table contains the information about configuring Pppoes Connect If Rate Limit.

XML structure

```
<PPPOES>
  <PppoesConnectIfRateLimit>
    <IfRateLimit>
      <IfIndex></IfIndex>
      <CheckInterval></CheckInterval>
      <PacketNum></PacketNum>
      <RateLimitPeriod></RateLimitPeriod>
    </IfRateLimit>
  </PppoesConnectIfRateLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnectIfRateLimit
Table type	Multi-instance table
Row name	IfRateLimit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CheckInterval	Check type	N/A	Unsigned integer. 1 to 3600.	N/A
PacketNum	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RateLimitPeriod	Check period of chasten in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.

PPPOES/PppoesSlotLimit/Table

This table contains the information about configuring Pppoes Slot Limit.

XML structure

```
<PPPOES>
  <PppoesSlotLimit>
    <SlotLimit>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <LimitNum></LimitNum>
    </SlotLimit>
  </PppoesSlotLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesSlotLimit
Table type	Multi-instance table
Row name	SlotLimit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	Index	Unsigned integer.	N/A
SlotId	Slot ID.	Index	Unsigned integer.	N/A
LimitNum	Limit on the packet number.	N/A	UnsignedInteger64. Value range: 1 to 2147483647.	N/A

PPPOES/PppoesPadiLimit/Table

This table contains the information about configuring Pppoes Padi Limit.

XML structure

```
<PPPOES>
  <PppoesPadiLimit>
    <PadiLimit>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <LimitNum></LimitNum>
    </PadiLimit>
  </PppoesPadiLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesPadiLimit
Table type	Multi-instance table
Row name	PadiLimit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	Index	Unsigned integer.	N/A
SlotId	Slot ID.	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LimitNum	Limit on the packet number.	N/A	UnsignedInteger64. Value range: 1 to 2147483647.	N/A

PPPOES/PppoesUpPadiLimit/Table

This table contains the information about configuring Pppoes Padi Limit.

XML structure

```
<PPPOES>
  <PppoesUpPadiLimit>
    <UpId></UpId>
    <LimitNum></LimitNum>
  </PppoesUpPadiLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesUpPadiLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	N/A	Unsigned integer.	N/A
LimitNum	Limit on the packet number.	N/A	UnsignedInteger. Value range: 1 to 6000.	N/A

Contents

PPPOES 1

PPPOES/PppoesBind/Table 1
XML structure 1
Table description 1
Columns 2
PPPOES/PppoesIfLimit/Table 2
XML structure 2
Table description 2
Columns 3
PPPOES/PppoesSpecification/Table 3
XML structure 3
Table description 4
Columns 4
PPPOES/PppoesAccessDelay/Table 4
XML structure 4
Table description 4
Columns 5
PPPOES/PppoesConnChastenGlbPolicy/Table 5
XML structure 5
Table description 5
Columns 6
PPPOES/PppoesConnChastenQuickOfflineGlbPolicy/Table 6
XML structure 6
Table description 6
Columns 7
PPPOES/PppoesConnChastenIfPolicies/Table 7
XML structure 7
Table description 7
PPPOES/PppoesConnChastenQuickOfflineIfPolicies/Table 8
XML structure 8
Table description 9
Columns 9
PPPOES/PppoesConnectIfRateLimit/Table 10
XML structure 10
Table description 10
Columns 10
PPPOES/PppoesSlotLimit/Table 11
XML structure 11
Table description 11
Columns 11
PPPOES/PppoesPadiLimit/Table 11
XML structure 12
Table description 12
Columns 12
PPPOES/PppoesChastenStatistics/Table 12
XML structure 12
Table description 13
Columns 13
PPPOES/PppoesUpPadiLimit/Table 14
XML structure 14
Table description 14
Columns 15
PPPOES/PppoesUserSummary/Table 15
XML structure 15
Table description 15
Columns 15

PPPOES

PPPOES/PppoesBind/Table

This table contains the information about using pppoe-server bind to enable the PPPoE server on an interface and bind the interface to a VT interface.

XML structure

```
<PPPOES>
   <PppoesBind>
      <BindVT>
        <IfIndex></IfIndex>
        <IfName></IfName>
        <VTNum></VTNum>
      </BindVT>
   </PppoesBind>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesBind
Table type	Multi-instance table
Row name	BindVT
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
VTNum	VT number.	N/A	Unsigned integer.	The value of VTNum depends on the device model.

PPPOES/PppoesIfLimit/Table

This table contains PPPOE server sessions limit on interface configuration information.

XML structure

```
<PPPOES>
  <PppoesIfLimit>
    <IfLimit>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <LimitIf></LimitIf>
      <LimitClnMac></LimitClnMac>
      <LimitPerVlan></LimitPerVlan>
    </IfLimit>
  </PppoesIfLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesIfLimit
Table type	Multi-instance table
Row name	IfLimit
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface

Item	Description
	Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
LimitIf	The maximum number of PPPoE sessions on an interface.	N/A	Unsigned integer. Value range: 1 to 65534.	N/A
LimitClnMac	The maximum number of PPPoE sessions for a user	N/A	Unsigned integer. Value range: 1 to 65534.	N/A
LimitPerVlan	The maximum number of PPPoE sessions for a VLAN on an interface	N/A	Unsigned integer. Value range: 1 to 65534.	N/A

PPPOES/PppoesSpecification/Table

This table contains the information about specification of VT number.

XML structure

```
<PPPOES>
  <PppoesSpecification>
    <MinVTNum></MinVTNum>
    <MaxVTNum></MaxVTNum>
```

```
  </PppoesSpecification>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinVTNum	Min VT number	N/A	Unsigned intege	N/A
MaxVTNum	Max VT number	N/A	Unsigned intege	N/A

PPPOES/PppoesAccessDelay/Table

This table contains information about setting the response delay time on an interface.

XML structure

```
<PPPOES>
  <PppoesAccessDelay>
    <AccessDelay>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Mode></Mode>
      <DelayTime></DelayTime>
    </AccessDelay>
  </PppoesAccessDelay>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesAccessDelay
Table type	Multi-instance table
Row name	AccessDelay

Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
Mode	The mode of delaytime	Index	Enumeration: • 0—all • 1—even-mac • 2—odd-mac	N/A
DelayTime	Specifies the response delay time	N/A	Unsigned integer. Value range: 10 to 25500.	Unit: milliseconds

PPPOES/PppoesConnChastenGlbPolicy/Table

This table contains the information about configuring Pppoes Conn Chasten Glb Policy.

XML structure

```
<PPPOES>
  <PppoesConnChastenGlbPolicy>
    <BlockPeriod></BlockPeriod>
    <CheckType></CheckType>
    <RequestTimes></RequestTimes>
    <RequestPeriod></RequestPeriod>
  </PppoesConnChastenGlbPolicy>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenGlbPolicy
Table type	Single-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BlockPeriod	Blocking period in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenQuickOfflineGlbPolicy/Table

This table contains the information about configuring Pppoes Conn Chasten Quick Offline Glb Policy.

XML structure

```
<PPPOES>
  <PppoesConnChastenQuickOfflineGlbPolicy>
    <BlockPeriod></BlockPeriod>
    <CheckType></CheckType>
    <RequestTimes></RequestTimes>
    <RequestPeriod></RequestPeriod>
  </PppoesConnChastenQuickOfflineGlbPolicy>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenQuickOfflineGlbPolicy
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BlockPeriod	Blocking period in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenIfPolicies/Table

This table contains the information about configuring Pppoes Conn Chasten If Policies.

XML structure

```
<PPPOES>
  <PppoesConnChastenIfPolicies>
    <IfPolicy>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <BlockPeriod></BlockPeriod>
      <CheckType></CheckType>
      <RequestTimes></RequestTimes>
      <RequestPeriod></RequestPeriod>
    </IfPolicy>
  </PppoesConnChastenIfPolicies>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenIfPolicies

Table type	Multi-instance table
Row name	IfPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
BlockPeriod	Blocking period in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnChastenQuickOfflineIfPolicies/Table

This table contains the information about configuring Pppoes Conn Chasten Quick Offline If Policies.

XML structure

```
<PPPOES>
  <PppoesConnChastenQuickOfflineIfPolicies>
    <IfPolicy>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <BlockPeriod></BlockPeriod>
      <CheckType></CheckType>
```

```
      <RequestTimes></RequestTimes>
      <RequestPeriod></RequestPeriod>
    </IfPolicy>
  </PppoesConnChastenQuickOfflineIfPolicies>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnChastenQuickOfflineIfPolicies
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
BlockPeriod	Blocking period in second.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.
CheckType	Check type	N/A	Enumeration: • 0—Disable chasten function. • 1—MAC-based single session per MAC. • 2—MAC-based multi sessions per MAC. • 3—Option105-based.	N/A
RequestTimes	Request times.	N/A	Unsigned integer. 1 to 10000.	N/A
RequestPeriod	Check period of chasten in second.	N/A	Unsigned integer. 1 to 3600.	N/A

PPPOES/PppoesConnectIfRateLimit/Table

This table contains the information about configuring Pppoes Connect If Rate Limit.

XML structure

```
<PPPOES>
  <PppoesConnectIfRateLimit>
    <IfRateLimit>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <CheckInterval></CheckInterval>
      <PacketNum></PacketNum>
      <RateLimitPeriod></RateLimitPeriod>
    </IfRateLimit>
  </PppoesConnectIfRateLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesConnectIfRateLimit
Table type	Multi-instance table
Row name	IfRateLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
CheckInterval	Detection interval in seconds.	N/A	Unsigned integer. 1 to 3600.	N/A
PacketNum	Packet number.	N/A	Unsigned integer. 1 to 10000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitPeriod	Period of rate limit in seconds.	N/A	Unsigned integer. 0 to 3600.	0 means the blocking function is disabled.

PPPOES/PppoesSlotLimit/Table

This table contains the information about configuring Pppoes Slot Limit.

XML structure

```
<PPPOES>
  <PppoesSlotLimit>
    <SlotLimit>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <LimitNum></LimitNum>
    </SlotLimit>
  </PppoesSlotLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesSlotLimit
Table type	Multi-instance table
Row name	SlotLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	Index	Unsigned integer.	N/A
SlotId	Slot ID.	Index	Unsigned integer.	N/A
LimitNum	Limit on the packet number.	N/A	UnsignedInteger64. Value range: 1 to 2147483647.	N/A

PPPOES/PppoesPadiLimit/Table

This table contains the information about configuring Pppoes Padi Limit.

XML structure

```
<PPPOES>
  <PppoesPadiLimit>
    <PadiLimit>
      <ChassisId></ChassisId>
      <SlotId></SlotId>
      <LimitNum></LimitNum>
    </PadiLimit>
  </PppoesPadiLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesPadiLimit
Table type	Multi-instance table
Row name	PadiLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	Index	Unsigned integer.	N/A
SlotId	Slot ID.	Index	Unsigned integer.	N/A
LimitNum	Limit on the packet number.	N/A	UnsignedInteger64. Value range: 1 to 2147483647.	N/A

PPPOES/PppoesChastenStatistics/Table

This table contains the information about configuring Pppoes Chasten Statistics.

XML structure

```
<PPPOES>
  <PppoesChastenStatistics>
    <ChassisId></ChassisId>
    <SlotId></SlotId>
    <UpId></UpId>
    <IfName></IfName>
    <Mode></Mode>
    <UserMacOFNum></UserMacOFNum>
```

```
    <UserMacQONum></UserMacQONum>
    <UserOpt105OFNum></UserOpt105OFNum>
    <UserOpt105QONum></UserOpt105QONum>
    <OFMacAttNum></OFMacAttNum>
    <QOMacAttNum></QOMacAttNum>
    <OFOptionAttNum></OFOptionAttNum>
    <QOOptionAttNum></QOOptionAttNum>
  </PppoesChastenStatistics>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesChastenStatistics
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisId	Chassis ID.	N/A	Unsigned integer.	N/A
SlotId	Slot ID.	N/A	Unsigned integer.	N/A
UpId	UP ID.	N/A	Unsigned integer. 1024~8192.	Only for CP
IfName	Interface name.	N/A	String, length: 1~48	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Mode	Blocked mode.	N/A	Enumeration: • 0—Mac Address. • 1—Option105.	N/A
UserMacOFNum	MAC Online-Fail User count.	N/A	Unsigned integer.	N/A
UserMacQONum	MAC Quick-Offline User count.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserOpt105OFNum	Option105 Online-Fail User count.	N/A	Unsigned integer.	N/A
UserOpt105QONum	Option105 Quick-Offline User count.	N/A	Unsigned integer.	N/A
OFMacAttNum	MAC Online-Fail Anti-Attack User count.	N/A	Unsigned integer.	N/A
QOMacAttNum	MAC Quick-Offline Anti-Attack User count.	N/A	Unsigned integer.	N/A
OFOptionAttNum	Option105 Online-Fail Anti-Attack User count.	N/A	Unsigned integer.	N/A
QOOptionAttNum	Option105 Quick-Offline Anti-Attack User count.	N/A	Unsigned integer.	N/A

PPPOES/PppoesUpPadiLimit/Table

This table contains the information about configuring Pppoes Padi Limit.

XML structure

```
<PPPOES>
  <PppoesUpPadiLimit>
    <UpId></UpId>
    <LimitNum></LimitNum>
  </PppoesUpPadiLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesUpPadiLimit
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192.	N/A
LimitNum	Limit on the packet number.	N/A	UnsignedInteger. Value range: 1 to 6000.	N/A

PPPOES/PppoesUserSummary/Table

This table contains the information about configuring Pppoes User Summary.

XML structure

```
<PPPOES>
  <PppoesUserSummary>
    <IfName></IfName>
    <TotalNum></TotalNum>
  </PppoesUserSummary>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesUpPadiLimit
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`IfName`	`Interface Name`.	N/A	String	N/A
TotalNum	Total number of user.	N/A	UnsignedInteger.	N/A

Contents

Comware 7 PPPOES NETCONF XML API Error Message Reference 1
PPPOES/PppoesIfLimit 1
PPPOES/PppoesBind 1
PPPOES/PppoesAccessDelay 2

Comware 7 PPPOES NETCONF XML API Error Message Reference

PPPOES/PppoesIfLimit

Message	Explanation
Config interface session limit failed. 配置接口上所能创建PPPoE会话的最大数目失败。	For some reasons like invalid parameter,Config interface session limit failed. 因为参数不在合法范围内等原因，配置接口下最大PPPoE会话限制失败。
Config session limit per client MAC failed. 配置接口上每个用户所能创建PPPoE会话的最大数目失败。	For some reasons like invalid parameter,Config session limit per client MAC failed. 因为参数不在合法范围内等原因，配置每个MAC地址对应的最大PPPoE会话数失败。

PPPOES/PppoesBind

Message	Explanation
Another virtual template is bound with the interface. To bind a new one, remove the existing binding first. 该接口已绑定其他VT口。如果想绑定新的VT口，先删除已经绑定的VT口。	The interface can bind one virtual template. To bind a new one, remove the existing binding first. 接口下只能绑定一个VT口，绑定新VT需要先删除旧的。
The operation is not supported on this interface. 接口上不支持该操作。	The operation is not supported on this interface. 接口上不支持该操作。
Failed to config PPPoE server. 配置失败。	Failed to config PPPoE server. 配置失败。
Operation failed. You can execute this command only after all users on the interface go offline. 操作失败。在此接口所有用户下线后你才能执行这条命令。	You can execute this command only after all users on the interface go offline. 有用户在线不能去捆绑VT口。
Failed to Craete Bas-interface. 创建Bas接口失败。	Failed to Craete Bas-interface. 创建Bas接口失败。
The specified virtual-template interface doesn't exist. 指定的VT口不存在。	You can execute this command only after the specified virtual-template interface exist. VT口存在才能做PPPOES捆绑。
The VTNum cannot be bigger than the supported max VTNum. 下发的VTNum不能大于设备支持的最大VTNum。	The VTNum is out of range. 配置的VTNum超出范围。

PPPOES/PppoesAccessDelay

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。

Contents

PRIMAP 1
PRIMAP/MapTables 1
XML structure 1
Table description 1
Columns 1
PRIMAP/PortPriority 2
XML structure 3
Table description 3
Columns 3
PRIMAP/PortTrustMode 4
XML structure 4
Table description 4
Columns 4
PRIMAP/GlobalTrustMode 5
XML structure 5
Table description 5
Columns 6
PRIMAP/FlexMapTables 6
XML structure 6
Table description 6
Columns 6
PRIMAP/FlexMapItems 7
XML structure 7
Table description 7
Columns 7
PRIMAP/FlexMapTableApply 9
XML structure 9
Table description 9
Columns 9
PRIMAP/RedPortStatus 10
XML structure 10
Table description 10
Columns 10

PRIMAP

PRIMAP/MapTables

This table contains information about priority mapping tables.

XML structure

```
<PRIMAP>
  <MapTables>
    <MapTable>
      <Source></Source>
      <Target></Target>
      <Color></Color>
      <Direction></Direction>
      <Import></Import>
      <Export></Export>
    </MapTable>
  </MapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTables
Table type	Multi-instance table
Row name	MapTable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Source	The source type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—dscp • 4—exp • 5—IP precedence • 6—Local precedence • 7—User priority	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Target	The target type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—Drop priority • 4—dscp • 5—exp • 6—Forwarding-class priority • 7—Local precedence • 8—RPR priority • 9—User priority	N/A
Color	The color of priority mapping table.	Index	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow. • **3**—Red.	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—Both.	N/A
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2

PRIMAP/PortPriority

This table contains information about port priority.

XML structure

```
<PRIMAP>
  <PortPriority>
    <Port>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <Dscp></Dscp>
      <Dot1p></Dot1p>
      <Exp></Exp>
      <DropPriority></DropPriority>
      <LocalPrecedence></LocalPrecedence>
    </Port>
  </PortPriority>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortPriority
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Priority	Port default priority.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 0.
Dscp	DSCP.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Dot1p	Dot1p.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Exp	MPLS EXP.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DropPriority	Drop priority.	N/A	Unsigned integer. Value range: 0 to 2.	When this priority is supported, the default value is 0.
LocalPrecedence	Local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 2.

PRIMAP/PortTrustMode

This table contains information about port priority trust mode.

XML structure

```
<PRIMAP>
  <PortTrustMode>
    <Port>
      <IfIndex></IfIndex>
      <TrustMode></TrustMode>
      <Override></Override>
    </Port>
  </PortTrustMode>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortTrustMode
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your

Column name	Column description	Column type	Data type and restrictions	Remarks
				product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrustMode	Port priority trust mode.	N/A	Enumeration: • **1**—Untrust. • **2**—Dot1p. • **3**—DSCP. • **4**—EXP. • **5**—IP precedence. • **6**—Dot11e. • **7**—Auto. • **8**—Inner-Dot1p	Required. The default priority trust mode on an interface varies by device.
Override	Whether overwrite the original priority carried in the packet	N/A	Boolean: • **false**—Do not overwrite the priority (default). • **true**—Overwrite the priority.	Both TrustMode and Override are specified, or both are not specified.

PRIMAP/GlobalTrustMode

This table contains information about global priority trust mode.

Vxlan mode is supported only.

XML structure

```
<PRIMAP>
  <GlobalTrustMode>
      <TunnelDscp></TunnelDscp>
  </GlobalTrustMode>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	GlobalTrustMode
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDscp	Global priority trust mode specifies the priority mapping for tunnel packets.	N/A	Boolean: • **false**—Trust the inner DSCP value in tunnel packets (default). • **true**—Trust the DSCP value in tunnel encapsulation.	Vxlan mode is supported only

PRIMAP/FlexMapTables

This table contains information about flexible priority mapping tables.

XML structure

```
<PRIMAP>
  <FlexMapTables>
    <FlexMapTable>
      <TableName></TableName>
    </FlexMapTable>
  </FlexMapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapTables
Table type	Multi-instance table
Row name	FlexMapTable
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TableName	The name of flexible priority mapping.table	Index	String. Length: 1 to 31 characters.	N/A

PRIMAP/FlexMapItems

This table contains information about flexible priority mapping items.

XML structure

```
<PRIMAP>
  <FlexMapItems>
    <FlexMapItem>
      <TableName></TableName>
      <Source></Source>
      <Target></Target>
      <ImportColor></ImportColor>
      <Import></Import>
      <Export></Export>
      <ExportColor></ExportColor>
    </FlexMapItem>
  </FlexMapItems>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapItems
Table type	Multi-instance table
Row name	FlexMapItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TableName	The name of flexible priority mapping.table	Index	String. Length: 1 to 31 characters.	N/A
Source	The source type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—dscp • 4—exp • 5—IP precedence • 6—Local precedence • 7—User priority	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Target	The target type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—Drop priority • 4—dscp • 5—exp • 6—Forwarding-class priority • 7—Local precedence • 8—RPR priority • 9—User priority	N/A
ImportColor	The color of priority mapping table.	Index	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow. • **3**—Red.	N/A
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of import values. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Required. Different priority types have different ranges of export values. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2
ExportColor	The color of priority mapping table.	N/A	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow. • **3**—Red.	This column is available when the **ImportColor** column is **0**.

PRIMAP/FlexMapTableApply

This table contains information about flexible priority mapping tables applied to interfaces.

XML structure

```
<PRIMAP>
  <FlexMapTableApply>
    <FlexMapTable>
      <IfIndex></IfIndex>
      <AppDirection></AppDirection>
      <FlexTableName></FlexTableName>
    </FlexMapTable>
  </FlexMapTableApply>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapTableApply
Table type	Multi-instance table
Row name	FlexMapTable
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AppDirection	Application direction.	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
FlexTableName	The name of flexible priority mapping.table	N/A	String. Length: 1 to 31 characters.	Required.

PRIMAP/RedPortStatus

This table contains information about red port status.

XML structure

```
<PRIMAP>
  <RedPortStatus>
    <Status></Status>
  </RedPortStatus>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	RedPortStatus
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Red port status	N/A	Enabling status: • **enable**—Red port is enabled. • **disable**—Red port is disabled.	The default value is disable.

Contents

PRIMAP 1
PRIMAP/MapTables 1
XML structure 1
Table description 1
Columns 1
PRIMAP/PortPriority 2
XML structure 3
Table description 3
Columns 3
PRIMAP/PortTrustMode 4
XML structure 4
Table description 4
Columns 4
PRIMAP/GlobalTrustMode 5
XML structure 5
Table description 5
Columns 6
PRIMAP/MapTablesCapability 6
XML structure 6
Table description 6
Columns 6
PRIMAP/PortTrustCapability 7
XML structure 7
Table description 8
Columns 8
PRIMAP/FlexMapTables 9
XML structure 9
Table description 9
Columns 9
PRIMAP/FlexMapItems 9
XML structure 9
Table description 10
Columns 10
PRIMAP/FlexMapTableApply 11
XML structure 11
Table description 12
Columns 12
PRIMAP/RedPortStatus 12
XML structure 12
Table description 13
Columns 13
PRIMAP/RedPortTable 13
XML structure 13
Table description 13
Columns 14

PRIMAP

PRIMAP/MapTables

This table contains information about priority mapping tables.

XML structure

```
<PRIMAP>
  <MapTables>
    <MapTable>
      <Source></Source>
      <Target></Target>
      <Color></Color>
      <Direction></Direction>
      <Import></Import>
      <Export></Export>
    </MapTable>
  </MapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTables
Table type	Multi-instance table
Row name	MapTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Source	The source type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—dscp • 4—exp • 5—IP precedence • 6—Local precedence • 7—User priority	N/A
Target	The target type of priority.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—dot11e • 2—dot1p • 3—Drop priority • 4—dscp • 5—exp • 6—Forwarding-class priority • 7—Local precedence • 8—RPR priority • 9—User priority	
Color	The color of priority mapping table.	Index	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow. • **3**—Red.	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—Both.	N/A
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2

PRIMAP/PortPriority

This table contains information about port priority.

XML structure

```
<PRIMAP>
  <PortPriority>
    <Port>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <Dscp></Dscp>
      <Dot1p></Dot1p>
      <Exp></Exp>
      <DropPriority></DropPriority>
      <LocalPrecedence></LocalPrecedence>
      <IfName></IfName>
    </Port>
  </PortPriority>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortPriority
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Priority	Port default priority.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 0.
Dscp	DSCP.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Dot1p	Dot1p.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Exp	MPLS EXP.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DropPriority	Drop priority.	N/A	Unsigned integer. Value range: 0 to 2.	When this priority is supported, the default value is 0.
LocalPrecedence	Local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 2.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

PRIMAP/PortTrustMode

This table contains information about port priority trust mode.

XML structure

```
<PRIMAP>
  <PortTrustMode>
    <Port>
      <IfIndex></IfIndex>
      <TrustMode></TrustMode>
      <Override></Override>
      <IfName></IfName>
    </Port>
  </PortTrustMode>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortTrustMode
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrustMode	Port priority trust mode.	N/A	Enumeration: • **1**—Untrust. • **2**—Dot1p. • **3**—DSCP. • **4**—EXP. • **5**—IP precedence. • **6**—Dot11e. • **7**—Auto. • **8**—Inner-Dot1p.	The default priority trust mode on an interface varies by device.
Override	Whether overwrite the original priority carried in the packet	N/A	Boolean: • **false**—Do not overwrite the priority. • **true**—Overwrite the priority.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

PRIMAP/GlobalTrustMode

This table contains information about global priority trust mode.

Vxlan mode is supported only.

XML structure

```
<PRIMAP>
  <GlobalTrustMode>
      <TunnelDscp></TunnelDscp>
  </GlobalTrustMode>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	GlobalTrustMode
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDscp	Global priority trust mode specifies the priority mapping for tunnel packets.	N/A	Boolean: • **false**—Trust the inner DSCP value in tunnel packets. • **true**—Trust the DSCP value in tunnel encapsulation.	Vxlan mode is supported only

PRIMAP/MapTablesCapability

This table contains information about priority mapping table capabilities.

XML structure

```
<PRIMAP>
  <MapTablesCapability>
    <Capability>
      <MapTable></MapTable>
      <MaxExportValue></MaxExportValue>
    </Capability>
  </MapTablesCapability>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTablesCapability
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MapTable	Made up of "map from" priority type and "map	Index	String: • dot1p-lp • dot1p-dp	Different products support different map tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
	to" priority type.		• exp-lp • dscp-lp • exp-dp • dscp-dp • dscp-dot1p • dot1p-dscp • dscp-dscp • dscp-exp • exp-dscp • exp-dot1p • exp-exp • lp-dot1p • dot1p-rpr • dscp-rpr • exp-rpr • ippre-rpr • up-dot1p • up-dscp • up-exp • up-dp • up-lp • up-rpr • up-fc • lp-dscp • dot11e-lp • lp-dot11e • lp-lp • dot1p-exp • lp-exp • lp-dp • up-up • dot1p-dot1p	
MaxExportValue	The max export value of the map table.	N/A	Unsigned integer.	N/A

PRIMAP/PortTrustCapability

This table contains information about port priority trust mode capabilities.

XML structure

```
<PRIMAP>
  <PortTrustCapability>
    <Capability>
      <IfIndex></IfIndex>
      <TrustMode></TrustMode>
      <DefaultMode></DefaultMode>
```

```
      <IfName></IfName>
    </Capability>
  </PortTrustCapability>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortTrustCapability
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrustMode	Port priority trust mode	N/A	Each bit represents a mode as follows: • **1**—Untrust. • **2**—Dot1p. • **4**—DSCP. • **8**—EXP. • **16**—IP precedence. • **32**—Dot11e. • **64**—Auto.	N/A
DefaultMode	Default port priority trust mode	N/A	Enumeration: • **1**—Untrust. • **2**—Dot1p. • **3**—DSCP. • **4**—EXP. • **5**—IP precedence. • **6**—Dot11e. • **7**—Auto.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

PRIMAP/FlexMapTables

This table contains information about flexible priority mapping tables.

XML structure

```
<PRIMAP>
  <FlexMapTables>
    <FlexMapTable>
      <TableName></TableName>
    </FlexMapTable>
  </FlexMapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapTables
Table type	Multi-instance table
Row name	FlexMapTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TableName	The name of flexible priority mapping table.	Index	String. Length: 1 to 31 characters.	N/A

PRIMAP/FlexMapItems

This table contains information about flexible priority mapping items.

XML structure

```
<PRIMAP>
  <FlexMapItems>
    <FlexMapItem>
      <TableName></TableName>
      <Source></Source>
      <Target></Target>
```

```
      <ImportColor></ImportColor>
      <Import></Import>
      <Export></Export>
      <ExportColor></ExportColor>
    </FlexMapItem>
  </FlexMapItems>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapItems
Table type	Multi-instance table
Row name	FlexMapItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TableName	The name of flexible priority mapping.table	Index	String. Length: 1 to 31 characters.	N/A
Source	The source type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—dscp • 4—exp • 5—IP precedence • 6—Local precedence • 7—User priority	N/A
Target	The target type of priority.	Index	Enumeration: • 1—dot11e • 2—dot1p • 3—Drop priority • 4—dscp • 5—exp • 6—Forwarding-class priority • 7—Local precedence • 8—RPR priority • 9—User priority	N/A
ImportColor	The color of priority mapping table.	Index	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Red.	
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of import values. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority types have different ranges of export values. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2
ExportColor	The color of priority mapping table.	N/A	Enumeration: • **0**—Uncolored. • **1**—Green. • **2**—Yellow. • **3**—Red.	N/A

PRIMAP/FlexMapTableApply

This table contains information about flexible priority mapping tables applied to interfaces.

XML structure

```
<PRIMAP>
  <FlexMapTableApply>
    <FlexMapTable>
      <IfIndex></IfIndex>
      <AppDirection></AppDirection>
      <FlexTableName></FlexTableName>
      <IfName></IfName>
    </FlexMapTable>
  </FlexMapTableApply>
```

```
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	FlexMapTableApply
Table type	Multi-instance table
Row name	FlexMapTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AppDirection	Application direction.	Index	Enumeration: • **0**—Inbound • **1**—Outbound.	N/A
FlexTableName	The name of flexible priority mapping.table	N/A	String. Length: 1 to 31 characters.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

PRIMAP/RedPortStatus

This table contains information about red port status.

XML structure

```
<PRIMAP>
  <RedPortStatus>
    <Status></Status>
  </RedPortStatus>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	RedPortStatus
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Red port status	N/A	Enabling status: • **enable**—Red port is enabled. • **disable**—Red port is disabled.	The default value is disable.

PRIMAP/RedPortTable

This table contains information about red port list and status.

XML structure

```
<PRIMAP>
  <RedPortTable>
    <RedPort>
      <IfIndex></IfIndex>
      <Status></Status>
    </RedPort>
  </RedPortTable>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	RedPortTable
Table type	Multi-instance table
Row name	RedPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Status	Red port status	N/A	Enabling status: • **enable**—Red port is enabled. • **disable**—Red port is disabled.	The default value is disable.

Contents

PRIMAP 1
PRIMAP 1

PRIMAP

PRIMAP

Message	Explanation
Failed to configure the mapping. 配置映射表失败。	Failed to configure the mapping. 配置映射表失败。
Failed to set the port priority. 配置端口优先级失败。	Failed to set the port priority. 配置端口优先级失败。
Failed to set the priority trust mode. 配置端口信任模式失败。	Failed to set the priority trust mode. 配置端口信任模式失败。

Contents

PTP 1
PTP/ClearAllIfStatistics 1
XML structure 1
Table description 1
Columns 1
PTP/ClearInterfacesStatistics 1
XML structure 2
Table description 2
Columns 2

PTP

PTP/ClearAllIfStatistics

This table clear statistics about PTP on all interfaces.

XML structure

```
<PTP>
  <ClearAllIfStatistics>
    <InstanceID></InstanceID>
    <Clear></Clear>
  </ClearAllIfStatistics>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	PTP instance ID	N/A	Unsigned integer.
Clear	Clear PTP statistics on all interfaces.	N/A	This column must be empty.

PTP/ClearInterfacesStatistics

This table clears PTP statisitcs per interface.

XML structure

```
<PTP>
  <ClearInterfacesStatistics>
    <ClearInterfaceStatistics>
      <IfIndex></IfIndex>
      <InstanceID></InstanceID>
      <Clear></Clear>
    </ClearInterfaceStatistics>
  </ClearInterfacesStatistics>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	ClearInterfacesStatistics
Table type	Multi-instance table
Row name	ClearInterfaceStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	In certain versions, this column supports interface name-to-index conversion.
InstanceID	PTP instance ID	N/A	Unsigned integer.	The value range depends on capability of the device.
Clear	Clears statistics on the specified interface.	N/A	This column must be empty.	N/A

Contents

PTP 1
PTP/Base 1
XML structure 1
Table description 1
Columns 1
PTP/Sources 3
XML structure 3
Table description 4
Columns 4
PTP/ClockSource 4
XML structure 4
Table description 5
Columns 5
PTP/Interfaces 7
XML structure 7
Table description 8
Columns 8
PTP/Instances 12
XML structure 12
Table description 13
Columns 14
PTP/Instances/ClockSources 14
XML structure 14
Table description 14
Columns 15
PTP/GlobalStatus 16
XML structure 16
Table description 17
Columns 17

PTP

PTP/Base

This table contains global PTP information.

XML structure

```
<PTP>
  <Base>
    <Profile></Profile>
    <Mode></Mode>
    <Domain></Domain>
    <SlaveOnly></SlaveOnly>
    <ActiveForceState></ActiveForceState>
    <UtcOffset></UtcOffset>
    <MaxStepsRemoved></MaxStepsRemoved>
    <PathTrace></PathTrace>
    <TechnicalStandard></TechnicalStandard>
    <AbnormalOffsetThreshold></AbnormalOffsetThreshold>
    <SuppressionTimesThreshold></SuppressionTimesThreshold>
  </Base>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table contains only global PTP information.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	PTP profile	N/A	Enumeration: • **0**—Invalid. • **1**—IEEE 1588 version 2. • **2**—IEEE 802.1AS. • **3**—ITU-T G.8275.1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—SMPTE ST 2059-2 • **5**—AES67-2015. • **6**—ITU-T G.8275.2.	
Mode	Specify the PTP clock node type	N/A	Enumeration: • **0**—Invalid. • **1**—Boundary clock(BC). • **2**—Ordinary clock(OC). • **3**—Peer-to-peer transparent clock(P2PTC). • **4**—End-to-end transparent clock(E2ETC). • **5**—P2PTC-OC. • **6**—E2ETC-OC. • **7**—ITU-T G.8275.1 Telecom Boundary Clock(T-BC). • **8**—ITU-T G.8275.1 Telecom Transparent Clock(T-TC). • **9**—ITU-T G.8275.1 Telecom time slave clock(T-TSC). • **10**-- ITU-T G.8275.2 Partial-Support Telecom Boundary Clock (T-BC-P) • **11**-- ITU-T G.8275.2 Partial-Support Telecom Time Slave Clock(T-TSC-P)	Only BC, OC, P2PTC, E2ETC, P2PTC-OC or E2ETC-OC can be configured when the profile is IEEE 1588 version2. Only BC, OC, P2PTC or P2PTC-OC can be configured when the profile is IEEE 802.1AS. Only T-BC, T-TC or T-TSC can be configured when the profile is ITU-T G.8275.1. Only BC, OC, P2PTC or E2ETC can be configured when the profile is SMPTE ST 2059-2. Only BC, OC, P2PTC or E2ETC can be configured when the profile is AES67-2015. In B64 Trunk, T-BC and T-TC are not supported.
Domain	Specify a PTP domain for the device.	N/A	Unsigned integer. Value range: 0 to 255. when the PTP profile is IEEE 1588 version 2 or IEEE 802.1AS, the default Value is 0. When the PTP profile is ITU-T G.8275.1,the default value is 24. When the PTP profile is SMPTE ST 2059-2,the default value is 127.	When the profile is IEEE 1588 version2 or IEEE 802.1AS, the value range for this column is 0 to 255. When the profile is ITU-T G.8275.1, the value range for this column is 24 to 43. When the profile is SMPTE ST 2059-2, the value range for this column is 0 to 127. When the profile is ITU-T G.8275.2, the value range for this column is 44 to 63.
SlaveOnly	Configure the OC to work as only a slave clock	N/A	Boolean: • true • false(default)	It is configurable only when the mode is OC.
ActiveForceState	Activate the role setting of the	N/A	Boolean: • true	It is not configurable when the mode is

Column name	Column description	Column type	Data type and restrictions	Remarks
	PTP port		• false (default)	T-TSC or T-TSC-P.
UtcOffset	The cumulative offset between UTC and TAI	N/A	Unsigned integer: Value range: value range depend on device customixation The unit is seconds. The default of utcoffset is 0.	N/A
MaxStepsRemoved	The max steps of two PTP device.	N/A	Unsigned integer: Value range: 1 to 255. The default of maxstepsremoved is 255.	N/A
PathTrace	PTP path trace	N/A	Boolean: • true—Enable(default) • false—Disable	N/A
TechnicalStandard	PTP technical standard	N/A	Enumeration: • **0**—Invalid(default). • **1**—oam. • **2**—unicom.	N/A
AbnormalOffsetThreshold	The threshold value of abnormal offset	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation The unit is nanoseconds.	N/A
SuppressionTimesThreshold	The threshold value of suppression times	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation You need to configure the abnormal offset first.	N/A

PTP/Sources

This table contains information about the PTP source VPN and source IPv4 address.

XML structure

```
<PTP>
  <Sources>
    <Source>
      <SourceVpn></SourceVpn>
      <SourceIpv4></SourceIpv4>
    </Source>
```

```
  </Sources>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Sources
Table type	Multi-instance table
Row name	Source
Restrictions	This table contains only PTP Sources information.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceVpn	Specify a VPN instance	Index	String Length: 0 to 31.	An empty string indicates the public network. The SourceIPV4 and SourceVpn attributes are paired. There can be multiple groups. Each group cannot contain the same SourceVpn, but can contain the same SourceIPV4. The SourceVpn can be empty, but only one group can have an empty SourceVpn at most.
SourceIpv4	Specify the source IP address for outgoing PTP multicast packets encapsulated in UDP	N/A	IPv4: String, in dotted decimal notation.	Example:1.1.1.1.

PTP/ClockSource

This table contains information about clock source configuration.

XML structure

```
<PTP>
```

```
  <ClockSources>
    <ClockSource>
      <ClockType></ClockType>
      <Priority1></Priority1>
      <Priority2></Priority2>
      <LocalPriority></LocalPriority>
      <TodDirection></TodDirection>
      <TodDelayTime></TodDelayTime>
      <Class></Class>
      <Accuracy></Accuracy>
      <OffsetLogVariance></OffsetLogVariance>
      <TimeSource></TimeSource>
      <GrandMasterClockId></GrandMasterClockId>
    </ClockSource>
  </ClockSources>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	ClockSources
Table type	Multi-instance table
Row name	ClockSource
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClockType	Specify a PTP clock source	Index	Enumeration: • **1**—Local. • **2**—Tod0. • **3**—Tod1.	N/A
Priority1	Set Priority1	N/A	Unsigned integer: Value range: 0 to 255. When the PTP profile is ITU-T G.8275.1,the default value is 128. When the PTP profile is IEEE 1588 version 2, the default value is 128. When the PTP profile is SMPTE ST 2059-2 , the default value is 128. When the PTP profile is IEEE	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			802.1AS,the default value is 246. When the PTP profile is ITU-T G.8275.2,the default value is 128.	
Priority2	Set Priority2	N/A	Unsigned integer. Value range: 0 to 255. When the PTP profile is IEEE 1588 version 2, the default value is 128. When the PTP profile is SMPTE ST 2059-2, the default value is 128. When the PTP profile is IEEE 802.1AS,the default value is 248. When the PTP profile is ITU-T G.8275.2,the mode is T-BC-P, the default value is 128. the mode is T-TSC-P, the default value is 255	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
TodDirection	Direction of time signels	N/A	Enumeration: • **0—**Invalid(default). • **1**—Input. • **2**—Output.	It is configurable only when the Clocktype is Tod0 or Tod1. TodDirection and TodDelayTime configured in the ClockSource table take effect in ClockSource under all Instance tables. The ClockSource table under the Instance table does not support TodDirection and TodDelayTime.
TodDelayTime	Delay compensation of time signels	N/A	Unsigned integer: Value range: 0 to 2000000. The unit is nanoseconds.	It is configurable only when the Clocktype is Tod0 or Tod1.
Class	Specify the clock class	N/A	Unsigned integer: Value range: 0 to 255. The Local default accuracy of Local source is 248,the default of ToD clock source is 6.	It is configurable only when the Clocktype is Tod0 or Tod1.
Accuracy	Specify the clock accuracy	N/A	Enumeration: • **32**—25ns. • **33**—100ns. • **34**—250ns.	It is configurable only when the Clocktype is Tod0 or Tod1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **35**—1us. • **36**—2.5us. • **37**—10us. • **38**—25us. • **39**—100us. • **40**—250us. • **41**—1ms. • **42**—2.5ms. • **43**—10ms. • **44**—25ms. • **45**—100ms. • **46**—250ms. • **47**—1S. • **48**—10s. • **49**—GT10s. • **254**—Unkown. When the mode is T-TSC or T-TSC-P,the default accuracy of clock source is 254; Otherwise the default accuracy of Local source is 254,the default of ToD clock source is 32.	
OffsetLogVariance	Offset scaled log variance	N/A	Unsigned integer. Value range: 0 to 65535.	It is configurable only when the Clocktype is Tod0 or Tod1.
TimeSource	Specify the clock attribute	N/A	Unsigned integer. Value range: 0 to 255. The default of ToD clock source is 32.	It is configurable only when the Clocktype is Tod0 or Tod1.
GrandMasterClockId	Grand master clockId	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 000FE2-FFFE-FF0000 The value 000000-0000-000000 is not allowed.

PTP/Interfaces

This table contains information about PTP interfaces.

XML structure

```
<PTP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
```

```
      <ForceState></ForceState>
      <ClockStep></ClockStep>
      <SynInterval></SynInterval>
      <AnnounceInterval></AnnounceInterval>
      <AnnounceTimeout></AnnounceTimeout>
      <PdelayRequestInterval></PdelayRequestInterval>
      <MinDelayReqInterval></MinDelayReqInterval>
      <DelayMechanism></DelayMechanism>
      <AsymmetryCorrection></AsymmetryCorrection>
      <PortMode></PortMode>
      <TransportProtocol></TransportProtocol>
      <DestinationMac></DestinationMac>
      <Dscp></Dscp>
      <LocalPriority></LocalPriority>
      <UnicastDestinationIpv4></UnicastDestinationIpv4>
      <UnicastNegotiation></UnicastNegotiation>
      <DelayRespInterval></DelayRespInterval>
      <NotSlave></NotSlave>
      <Vlan>
        <VLANID></VLANID>
        <Dot1p></Dot1p>
      </Vlan>
    </Interface>
  </Interfaces>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	In certain versions, this column supports interface name-to-index conversion.
Enable	Enable PTP on the port	N/A	Boolean: • true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false(default)	
ForceState	Specify the role of the PTP port	N/A	Enumeration: • **0**—Invalid (default). • **6**—Master. • **7**—Passive. • **9**—Slave.	N/A
ClockStep	Specify the mode for carrying timestamps	N/A	Enumeration: • **0**—One step. • **1**—Two step(default).	N/A
SynInterval	Set the Sync message interval in seconds	N/A	Integer. Value range: -5 to 6. When the PTP profile is IEEE 1588 version 2, the default value is 0. When the PTP profile is SMPTE ST 2059-2, the default value is -3. When the PTP profile is IEEE 802.1AS, the default value is –3. When the PTP profile is AES67-2015 the default value is –3. When the PTP profile is ITU-T G.8275.1 or ITU-T G.8275.2, the default value is –4.	When the profile is IEEE 1588 version2, syncInterval range is -1 to 1. When the profile is IEEE 802.1AS or ITU-T G.8275.1, syncInterval range is -4 to 6. When the profile is SMPTE ST 2059-2, syncInterval range is -5 to -1.When the profile is AES67-2015, syncInterval range is -4 to 1. When the profile is ITU-T G.8275.2, syncInterval range is -5 to 0.
AnnounceInterval	Set the Announce message interval in seconds	N/A	Integer. Value range: –3 to 6. When the PTP profile is IEEE 1588 version 2 or AES67-2015, the default value is 1. When the PTP profile is IEEE 802.1AS, the default value is 0. When the PTP profile is SMPTE ST 2059-2, the default value is -2. When the PTP profile is ITU-T G.8275.1, the default value is –3. When the PTP profile is ITU-T G.8275.2, the default value is –3.	When the profile is IEEE 1588 version2 or AES67-2015, AnnounceInterval range is 0 to 4. When the profile is IEEE 802.1AS, AnnounceInterval range is 0 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -3 to 1. When the profile is ITU-T G.8275.1, AnnounceInterval range is -3 to 6. When the profile is ITU-T G.8275.2, AnnounceInterval range is -3 to 0.
AnnounceTimeout	Set the Announce message receiving timeout	N/A	Unsigned integer. Value range: 2 to 10. The default value is 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time			
PdelayRequestInterval	Peer delay request interval (log mean)	N/A	Integer. Value range: –5 to 6. The default value is 0.	When the profile is IEEE 1588 version2 or AES67-2015, AnnounceInterval range is 0 to 5. When the profile is IEEE 802.1AS, AnnounceInterval range is -4 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -5 to 4.
MinDelayReqInterval	Set the minimum interval for sending Delay_Req messages in seconds	N/A	Integer. Value range: –5 to 6. When the PTP protocol is IEEE1588v2 or SMPTE ST 2059-2 or AES67-2015,the default value is 0. When the PTP protocol is ITU-T G.8275.1 or ITU-T G.8275.2,the default value is -4.	When the profile is IEEE 1588 version2, AnnounceInterval range is -4 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -5 to 4. When the profile is AES67-2015, AnnounceInterval range is -3 to 5. When the profile is ITU-T G.8275.1, AnnounceInterval range is -4 to 6. When the profile is ITU-T G.8275.2, AnnounceInterval range is -5 to 0.
DelayMechanism	Specify a delay measurement mechanism	N/A	Enumeration: • **0**—E2E. • **1**—P2P. When the PTP protocol is IEEE1588v2 or SMPTE ST 2059-2 or ITU-T G.8275.1 or AES67-2015 or ITU-T G.8275.2,the default Delay Measurement Mechanism is E2E. When the PTP protocol is IEEE 802.1AS,the default Delay Measurement Mechanism is P2P.	N/A
AsymmetryCorrection	Specify the delay correction value	N/A	Integer. Value range: –2000000 to 2000000. The default value is 0. The unit is nanoseconds.	N/A
PortMode	Configure the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port type for a TC+OC		• **0**—TC (default). • **1**—OC.	
TransportProtocol	Specify the transport protocol for PTP packets	N/A	Enumeration: • **0**—ETH (default). • **1—**UDP.	When the profile is ITU-T G.8275.2,The default value is 1.
DestinationMac	Specify the destination MAC address for PTP messages	N/A	Six groups of two hexadecimal digits, hyphen-separated. For Pdelay Packets, the default destinationMac is 01-80-c2-00-00-0e. For Non Pdelay Packets, the default destinationMac is 01-1b-19-00-00-00.	Example: 00-0c-af-e3-5d-c0.
Dscp	DSCP	N/A	Unsigned integer. Value range: 0 to 63. The default value is 56.	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
UnicastDestination Ipv4	Specify the destination IP address for outgoing PTP unicast packets encapsulated in UDP	N/A	IPv4: String, dotted decimal notation.	It is configurable only when the port link-mode is route. Example: 1.1.1.1.
UnicastNegotiation	Unicast negotiation	N/A	Enumeration: • **0**—Invalid(default). • **1**—Grant-port. • **2**—Request-port	It is configurable only when the Profile is ITU-T G.8275.2 or IEEE 1588 version 2 Must configure the PTP unicast destination command to enable unicast negotiation. Configuration of grant port is not supported on t-tsc-p.
DelayRespInterval	Delay respond interval	N/A	Integer: Value range: -5 to 0	It is configurable only when the Profile is ITU-T G.8275.2 or IEEE 1588 version 2
NotSlave	Not slave	N/A	Boolean: • true(default) • false	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2 When the mode is T-BC, T-TC, or T-BC-P, the default value is true. When the mode is T-TSC or T-TSC-P, the default value is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Vlan	VLAN information	Data structure	Struct,include members: • VlanId. • Dot1pValue.	It is configurable only when the port link-mode is bridge.
VLANID	Specify a VLAN for PTP packets encapsulated by using IEEE 802.3/Ethernet	N/A	Unsigned integer. The value range depends on the device model.	N/A
Dot1p	Specify an 802.1p priority for PTP packets encapsulated by using IEEE 802.3/Ethernet	N/A	Unsigned integer. Value range: 0 to 7. The default value is 7.	N/A

PTP/Instances

This table contains information about PTP instances.

XML structure

```
<PTP>
  <Instances>
    <Instance>
      <InstanceID></InstanceID>
      <Name></Name>
      <Base>
        <Profile></Profile>
        <Mode></Mode>
        <Domain></Domain>
        <SlaveOnly></SlaveOnly>
        <ActiveForceState></ActiveForceState>
        <UtcOffset></UtcOffset>
        <MaxStepsRemoved></MaxStepsRemoved>
        <PathTrace></PathTrace>
      </Base>
      <Sources>
        <Source>
          <SourceVpn></SourceVpn>
          <SourceIpv4></SourceIpv4>
        </Source>
      </Sources>
      <ClockSources>
        <ClockSource>
          <ClockType></ClockType>
          <Priority1></Priority1>
          <Priority2></Priority2>
```

```
        <LocalPriority></LocalPriority>
        <Class></Class>
        <Accuracy></Accuracy>
        <OffsetLogVariance></OffsetLogVariance>
        <TimeSource></TimeSource>
        <GrandMasterClockId></GrandMasterClockId>
      </ClockSource>
    </ClockSources>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <Enable></Enable>
        <ForceState></ForceState>
        <ClockStep></ClockStep>
        <SynInterval></SynInterval>
        <AnnounceInterval></AnnounceInterval>
        <AnnounceTimeout></AnnounceTimeout>
        <PdelayRequestInterval></PdelayRequestInterval>
        <MinDelayReqInterval></MinDelayReqInterval>
        <DelayMechanism></DelayMechanism>
        <AsymmetryCorrection></AsymmetryCorrection>
        <PortMode></PortMode>
        <TransportProtocol></TransportProtocol>
        <DestinationMac></DestinationMac>
        <Dscp></Dscp>
        <LocalPriority></LocalPriority>
        <UnicastDestinationIpv4></UnicastDestinationIpv4>
        <UnicastNegotiation></UnicastNegotiation>
        <DelayRespInterval></DelayRespInterval>
        <NotSlave></NotSlave>
        <Vlan>
          <VLANID></VLANID>
          <Dot1p></Dot1p>
        </Vlan>
      </Interface>
    </Interfaces>
  </Instance>
</Instances>
</PTP>
```


Table description

Item	Description
Feature name	PTP
Table name	Instances
Table type	Multi-instance table
Row name	Instance

Item	Description
Restrictions	This table contains PTP instance information.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	PTP instance ID	Index	Unsigned integer.	The value range depends on the capability of the device.
Name	PTP instance name	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Base	Global PTP information	Subtable	N/A	For more information, see "PTP/Base."
Sources	Information about the PTP source VPN and source IPv4 address	Sublist	N/A	For more information, see "PTP/Sources.".
ClockSources	Clock source information	Sublist	N/A	For more information, see "PTP/ClockSource."
Interfaces	PTP interface information	Sublist	N/A	For more information, see "PTP/Interfaces."

PTP/Instances/ClockSources

This table contains information about clock sources.

XML structure

Please refer to the XML structure of "PTP/Instances".

Table description

Item	Description
Feature name	PTP
Table name	ClockSources
Table type	Multi-instance table
Row name	ClockSource
Restrictions	This table contains clock source information.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClockType	Clock source type	Index	Enumeration: • **1**—Local. • **2**—Tod0. • **3**—Tod1.	N/A
Priority1	Value of Priority 1	N/A	Unsigned integer: Value range: 0 to 255. When the PTP profile is ITU-T G.8275.1,the default value is 128. When the PTP profile is IEEE 1588 version 2, the default value is 128. When the PTP profile is SMPTE ST 2059-2, the default value is 128. When the PTP profile is IEEE 802.1AS, the default value is 246. When the PTP profile is ITU-T G.8275.,the default value is 128.	N/A
Priority2	Value of Priority 2	N/A	Unsigned integer. Value range: 0 to 255. When the PTP profile is IEEE 1588 version 2, the default value is 128. When the PTP profile is SMPTE ST 2059-2, the default value is 128. When the PTP profile is IEEE 802.1AS,the default value is 248. When the PTP profile is ITU-T G.8275.,the mode is T-BC-P, the default value is 128. the mode is T-TSC-P, the default value is 255	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
Class	Clock class	N/A	Unsigned integer: Value range: 0 to 255. The Local default accuracy of Local source is 248,the default of ToD clock source is 6.	It is configurable only when the Clocktype is Tod0 or Tod1.
Accuracy	Clock accuracy	N/A	Enumeration: • **32**—25 ns. • **33**—100 ns.	It is configurable only when the Clocktype is Tod0 or Tod1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **34**—250 ns. • **35**—1 us. • **36**—2.5 us. • **37**—10 us. • **38**—25 us. • **39**—100 us. • **40**—250 us. • **41**—1 ms. • **42**—2.5 ms. • **43**—10 ms. • **44**—25 ms. • **45**—100 ms. • **46**—250 ms. • **47**—1 s. • **48**—10 s. • **49**—GT10 s. • **254**—Unkown. When the mode is T-TSC,the default accuracy of the clock source is 254; Otherwise the default accuracy of the local source is 254, the default accurancy of a ToD clock source is 32.	
OffsetLogVariance	Offset scaled log variance	N/A	Unsigned integer. Value range: 0 to 65535.	It is configurable only when the Clocktype is Tod0 or Tod1.
TimeSource	Time source	N/A	Unsigned integer. Value range: 0 to 255. The default of ToD clock source is 32.	It is configurable only when the Clocktype is Tod0 or Tod1.
GrandMasterClockId	Grand master clockId	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 000FE2-FFFE-FF0000 The value 000000-0000-000000 is not allowed.

PTP/GlobalStatus

This table contains information about global status of the device.

XML structure

```
<PTP>
  <GlobalStatus>
    <Enable></Enable>
```

```
    <LockThreshold></LockThreshold>
    <UnlockThreshold></UnlockThreshold>
  </GlobalStatus>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	This table contains information about global status of the device.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	The PTP functional state of the device	N/A	Boolean: • true(default) • false	N/A
LockThreshold	The threshold value of lock	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation The unit is nanoseconds.	N/A
UnlockThreshold	The threshold value of unlock	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation The unit is nanoseconds.	N/A

Contents

PTP 1

PTP/Base 1
XML structure 1
Table description 1
Columns 1
PTP/Sources 3
XML structure 3
Table description 4
Columns 4
PTP/ClockSources 4
XML structure 4
Table description 5
Columns 5
PTP/Clock 6
XML structure 6
Table description 7
Columns 7
PTP/Parent 8
XML structure 8
Table description 8
Columns 9
PTP/Interfaces 9
XML structure 9
Table description 10
Columns 11
PTP/Corrections 14
XML structure 14
Table description 15
Columns 15
PTP/InterfacesStatistics 15
XML structure 15
Table description 16
Columns 17
PTP/Instances 18
XML structure 18
Table description 21
Columns 21
PTP/Instances/Slave 22
XML structure 22
Table description 22
Columns 22
PTP/Instances/ClockSources 23
XML structure 23
Table description 23
Columns 23
PTP/GlobalStatus 24
XML structure 24
Table description 25
Columns 25

PTP

PTP/Base

This table contains global PTP information.

XML structure

```
<PTP>
  <Base>
    <Profile></Profile>
    <Mode></Mode>
    <Domain></Domain>
    <SlaveOnly></SlaveOnly>
    <ActiveForceState></ActiveForceState>
    <UtcOffset></UtcOffset>
    <MaxStepsRemoved></MaxStepsRemoved>
    <PathTrace></PathTrace>
    <TechnicalStandard></TechnicalStandard>
    <AbnormalOffsetThreshold></AbnormalOffsetThreshold>
    <SuppressionTimesThreshold></SuppressionTimesThreshold>
  </Base>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table contains only global PTP information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	PTP profile	N/A	Enumeration: • **0**—Invalid. • **1**—IEEE 1588 version 2. • **2**—IEEE 802.1AS. • **3**—ITU-T G.8275.1. • **4**—SMPTE ST 2059-2 • **5**—AES67-2015	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **6**—ITU-T G.8275.2	
Mode	Specify the PTP clock node type	N/A	Enumeration: • **0**—Invalid. • **1**—Boundary clock(BC). • **2**—Ordinary clock(OC). • **3**—Peer-to-peer transparent clock(P2PTC). • **4**—End-to-end transparent clock(E2ETC). • **5**—P2PTC-OC. • **6**—E2ETC-OC. • **7**—ITU-T G.8275.1 Telecom Boundary Clock(T-BC). • **8**—ITU-T G.8275.1 Telecom Transparent Clock(T-TC). • **9**—ITU-T G.8275.1 Telecom time slave clock(T-TSC). • **10**-- ITU-T G.8275.2 Partial-Support Telecom Boundary Clock (T-BC-P) • **11**-- ITU-T G.8275.2 Partial-Support Telecom Time Slave Clock(T-TSC-P)	Only BC, OC, P2PTC, E2ETC, P2PTC-OC or E2ETC-OC can be configured when the profile is IEEE 1588 version2. Only BC, OC, P2PTC or P2PTC-OC can be configured when the profile is IEEE 802.1AS. Only T-BC, T-TC or T-TSC can be configured when the profile is ITU-T G.8275.1. Only BC, OC, P2PTC or E2ETC can be configured when the profile is SMPTE ST 2059-2.
Domain	Specify a PTP domain for the device.	N/A	Unsigned integer. Value range: 0 to 255**.**	When the profile is IEEE 1588 version2 or IEEE 802.1AS, the value range for this column is 0 to 255. When the profile is ITU-T G.8275.1, the value range for this column is 24 to 43. When the profile is SMPTE ST 2059-2, the value range for this column is 0 to 127. When the profile is ITU-T G.8275.2, the value range for this column is 44 to 63.
SlaveOnly	Configure the OC to work as only a slave clock	N/A	Boolean: • true • false	It is configurable only when the mode is OC.
ActiveForceState	Activate the role setting of the PTP port	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UtcOffset	The cumulative offset between UTC and TAI	N/A	Unsigned integer: Value range: value range depend on device customixation The unit is seconds.	N/A
MaxStepsRemoved	The max steps of two PTP device.	N/A	Unsigned integer: Value range: 1 to 255.	N/A
PathTrace	PTP path trace	N/A	Boolean: • true—Enable • false—Disable	N/A
TechnicalStandard	PTP technical standard	N/A	Enumeration: • **0**—Invalid. • **1**—oam. • **2**—unicom.	N/A
AbnormalOffsetThreshold	The threshold value of abnormal offset	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation The unit is nanoseconds.	N/A
SuppressionTimesThreshold	The threshold value of suppression times	N/A	Unsigned integer: Value range: value range depend on device customixation The default value depend on device customixation	N/A

PTP/Sources

This table contains information about PTP sources.

XML structure

```
<PTP>
  <Sources>
    <Source>
      <SourceVpn></SourceVpn>
      <SourceIpv4></SourceIpv4>
    </Source>
  </Sources>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Sources
Table type	Multi-instance table
Row name	Source
Restrictions	This table contains only PTP Sources information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceVpn	Specify a VPN instance	Index	String Length: 0 to 31.	An empty string indicates the public network. The SourceIPV4 and SourceVpn attributes are paired. There can be multiple groups. Each group cannot contain the same SourceVpn, but can contain the same SourceIPV4. The SourceVpn can be empty, but only one group can have an empty SourceVpn at most.
SourceIpv4	Specify the source IP address for outgoing PTP multicast packets encapsulated in UDP	N/A	IPv4: String, in dotted decimal notation.	Example:1.1.1.1.

PTP/ClockSources

This table contains information about clock sources.

XML structure

```
<PTP>
  <ClockSources>
    <ClockSource>
      <ClockType></ClockType>
      <Priority1></Priority1>
```

```
      <Priority2></Priority2>
      <LocalPriority></LocalPriority>
      <TodDirection></TodDirection>
      <TodDelayTime></TodDelayTime>
      <Class></Class>
      <Accuracy></Accuracy>
      <OffsetLogVariance></OffsetLogVariance>
      <TimeSource></TimeSource>
      <GrandMasterClockId></GrandMasterClockId>
    </ClockSource>
  </ClockSources>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	ClockSources
Table type	Multi-instance table
Row name	ClockSource
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClockType	Specify a PTP clock source	Index	Enumeration: • **1**—Local. • **2**—Tod0. • **3**—Tod1.	N/A
Priority1	Set Priority1	N/A	Unsigned integer: Value range: 0 to 255.	N/A
Priority2	Set Priority2	N/A	Unsigned integer. Value range: 0 to 255.	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
TodDirection	Direction of time signels	N/A	Enumeration: • **0—**Invalid. • **1**—Input. • **2**—Output.	It is configurable only when the Clocktype is Tod0 or Tod1.
TodDelayTime	Delay compensation of time signels	N/A	Unsigned integer: Value range: 0 to 2000000. The unit is nanoseconds.	It is configurable only when the Clocktype is Tod0 or Tod1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Specify the clock class	N/A	Unsigned integer: Value range: 0 to 255.	It is configurable only when the Clocktype is Tod0 or Tod1.
Accuracy	Specify the clock accuracy	N/A	Enumeration: • **32**—25ns. • **33**—100ns. • **34**—250ns. • **35**—1us. • **36**—2.5us. • **37**—10us. • **38**—25us. • **39**—100us. • **40**—250us. • **41**—1ms. • **42**—2.5ms. • **43**—10ms. • **44**—25ms. • **45**—100ms. • **46**—250ms. • **47**—1S. • **48**—10s. • **49**—GT10s. • **254**—Unkown.	It is configurable only when the Clocktype is Tod0 or Tod1.
OffsetLogVariance	Offset log variance	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
TimeSource	Specify the clock attribute	N/A	Unsigned integer. Value range: 0 to 255.	It is configurable only when the Clocktype is Tod0 or Tod1.
GrandMasterClockId	Grand Master clockId	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 000FE2-FFFE-FF0000

PTP/Clock

This table contains PTP clock information.

XML structure

```
<PTP>
  <Clock>
    <ClockId></ClockId>
    <ClockType></ClockType>
    <PtpPortNumber></PtpPortNumber>
    <OffsetFromMaster></OffsetFromMaster>
    <MeanPathDelay></MeanPathDelay>
    <ReceiveIfIndex></ReceiveIfIndex>
```

```
    <ReceiveIfName></ReceiveIfName>
    <StepsRemoved></StepsRemoved>
    <TimeLockStatus></TimeLockStatus>
    <LocalTime></LocalTime>
  </Clock>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Clock
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClockId	Clock ID	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 18C2DF-FFFE-EA0100.
ClockType	Clock type	N/A	Enumeration: • **1**—Local. • **2**—Tod0. • **3**—Tod1.	N/A
PtpPortNumber	Number of PTP ports	N/A	Unsigned integer. Length: 32 bits.	N/A
OffsetFromMaster	Offset from master	N/A	Integer. Length: 64 bits.	N/A
MeanPathDelay	Mean path delay between master and slave	N/A	Unsigned integer. Length: 64 bits.	N/A
ReceiveIfIndex	Index of the receiving interface	N/A	Unsigned integer. Length: 32 bits.	N/A
ReceiveIfName	Name of the receiving interface	N/A	String. Length: 2 to 47 characters.	N/A
StepsRemoved	Hops from the GM to the device	N/A	Unsigned integer. Value range: 0 to 255, 65535.	The value 65535 is invalid. If the device is a TC node or is in Force state, this column takes this

Column name	Column description	Column type	Data type and restrictions	Remarks
				value.
TimeLockStatus	Whether the device is in locked state	N/A	Boolean: • true • false	N/A
LocalTime	Local clock time of the device	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

PTP/Parent

This table contains information about PTP functions for parent clock information.

XML structure

```
<PTP>
  <Parent>
    <ParentClock>
      <ClockId></ClockId>
      <PortNumber></PortNumber>
    </ParentClock>
    <GmClock>
      <ClockId></ClockId>
      <Class></Class>
      <Accuracy></Accuracy>
      <OffsetLogVariance></OffsetLogVariance>
      <Priority1></Priority1>
      <Priority2></Priority2>
    </GmClock>
  </Parent>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Parent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParentClock	Parent clock information	Data structure	Members include: • ClockId. • PortNumber.	N/A
ClockId	Parent clock identification	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 18C2DF-FFFE-EA0100 .
PortNumber	Port Number of parent clock	N/A	Unsigned integer. Length: 16 bits.	N/A
GmClock	Grandmaster Clock information	Data structure	Members include: • ClockId. • Class. • Accuracy. • Offset. • Priority1. • Priority2.	N/A
ClockId	Grandmaster clock identification	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example: 18C1DF-FFFE-EA0100 .
Class	Grandmaster clock class	N/A	Unsigned integer: Value range: 0 to 255.	N/A
Accuracy	Grandmaster clock accuracy	N/A	Unsigned integer: Value range: 0 to 255.	N/A
OffsetLogVariance	Grandmaster clock offset (log variance)	N/A	Unsigned integer: Value range: 0 to 65535.	N/A
Prioriy1	Grandmaster clock priority1	N/A	Unsigned integer: Value range: 0 to 255.	N/A
Priority2	Grandmaster clock priority2	N/A	Unsigned integer: Value range: 0 to 255.	N/A

PTP/Interfaces

This table contains PTP interface information.

XML structure

```
<PTP>
  <Interfaces>
    <Interface>
```

```
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PortNum></PortNum>
      <Enable></Enable>
      <PortState></PortState>
      <ForceState></ForceState>
      <ClockStep></ClockStep>
      <SynInterval></SynInterval>
      <AnnounceInterval></AnnounceInterval>
      <AnnounceTimeout></AnnounceTimeout>
      <PdelayRequestInterval></PdelayRequestInterval>
      <MinDelayReqInterval></MinDelayReqInterval>
      <DelayRequestInterval></DelayRequestInterval>
      <DelayMechanism></DelayMechanism>
      <AsymmetryCorrection></AsymmetryCorrection>
      <PortMode></PortMode>
      <TransportProtocol></TransportProtocol>
      <DestinationMac></DestinationMac>
      <Dscp></Dscp>
      <LocalPriority></LocalPriority>
      <UnicastDestinationIpv4></UnicastDestinationIpv4>
      <UnicastNegotiation></UnicastNegotiation>
      <DelayRespInterval></DelayRespInterval>
      <NotSlave></NotSlave>
      <Vlan>
        <VLANID></VLANID>
        <Dot1p></Dot1p>
      </Vlan>
      <MeanPathDelay></MeanPathDelay>
    </Interface>
  </Interfaces>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	In certain versions, this column supports interface name-to-index conversion.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
PortNum	Port number	N/A	Unsigned integer. Length: 16 bits.	N/A
Enable	Enable PTP on the port	N/A	Boolean: • true • false	N/A
PortState	Interface state	N/A	Enumeration: • **0**—Invalid. • **1**—Initializing. • **2**—Faulty. • **3**—Disabled. • **4**—Listening. • **5**—Premaster. • **6**—Master. • **7**—Passive. • **8**—Uncalibrated. • **9**—Slave.	N/A
ForceState	Specify the role of the PTP port	N/A	Enumeration: • **0**—Invalid. • **6**—Master. • **7**—Passive. • **9**—Slave.	N/A
ClockStep	Specify the mode for carrying timestamps	N/A	Enumeration: • **0**—One step. • **1**—Two step.	N/A
SynInterval	Set the Sync message interval in seconds	N/A	Integer. Value range: -5 to 6.	When the profile is IEEE 1588 version2, the value range for this column is –1 to 1. When the profile is IEEE 802.1AS or ITU-T G.8275.1, the value range for this column is –4 to 6. When the profile is SMPTE ST 2059-2, syncInterval range is -5 to -1. When the profile is AES67-2015, syncInterval range is -4 to 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When the profile is ITU-T G.8275.2, syncInterval range is -5 to 0.
AnnounceInterval	Set the Announce message interval in seconds	N/A	Integer. Value range: -3 to 6.	When the profile is IEEE 1588 version2 or AES67-2015, the value range for this column is 0 to 4. When the profile is IEEE 802.1AS, the value range for this column is 0 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -3 to 1. When the profile is ITU-T G.8275.1, the value range for this column is –3 to 6. When the profile is ITU-T G.8275.2, AnnounceInterval range is -3 to 0.
AnnounceTimeout	Set the Announce message receiving timeout time	N/A	Unsigned integer. Value range: 2 to 10.	N/A
PdelayRequestInterval	Peer delay request interval (log mean)	N/A	Integer. Value range: -5to 6.	When the profile is IEEE 1588 version2 or AES67-2015, the value range for this column is 0 to 5. When the profile is IEEE 802.1AS, the value range for this column is –4 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -5 to 4.
MinDelayReqInterval	Set the minimum interval for sending Delay_Req messages in seconds	N/A	Integer. Value range: -5to 6.	When the profile is IEEE 1588 version2, AnnounceInterval range is -4 to 6. When the profile is SMPTE ST 2059-2, AnnounceInterval range is -5 to 4. When the profile is AES67-2015, AnnounceInterval range is -3 to 5. When the profile is

Column name	Column description	Column type	Data type and restrictions	Remarks
				ITU-T G.8275.1, AnnounceInterval range is -4 to 6. When the profile is ITU-T G.8275.2, AnnounceInterval range is -5 to 0.
DelayRequestInterval	Delay request interval (log mean)	N/A	Integer. Value range: -5to 6.	N/A
DelayMechanism	Specify a delay measurement mechanism	N/A	Enumeration: • **0**—E2E. • **1**—P2P.	N/A
AsymmetryCorrection	Specify the delay correction value	N/A	Integer. Value range: -2000000 to 2000000. The unit is nanoseconds.	N/A
PortMode	Configure the port type for a TC+OC	N/A	Enumeration: • **0**—TC. • **1**—OC.	N/A
TransportProtocol	Specify the transport protocol for PTP packets	N/A	Enumeration: • **0**—ETH. • **1—**UDP.	N/A
DestinationMac	Specify the destination MAC address for PTP messages	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Dscp	Specify a DSCP value for PTP packets encapsulated by using UDP	N/A	Unsigned integer. Value range: 0 to 63.	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
UnicastDestinationIpv4	Specify the destination IP address for outgoing PTP unicast packets encapsulated in UDP	N/A	IPv4: String, dotted decimal notation.	It is configurable only when the port link-mode is route. Example: 1.1.1.1.
UnicastNegotiation	Unicast negotiation	N/A	Enumeration: • **0**—Invalid • **1**—Grant-port. • **2**—Request-port	It is configurable only when the Profile is ITU-T G.8275.2 or IEEE 1588 version 2 Must configure the PTP unicast destination command to enable unicast negotiation.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Configuration of grant port is not supported on t-tsc-p.
DelayRespInterval	Delay respond interval	N/A	Integer: Value range: -5 to 0	It is configurable only when the Profile is ITU-T G.8275.2 or IEEE 1588 version 2
NotSlave	Not slave	N/A	Boolean: • true • false	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2 When the mode is T-BC, T-TC, or T-BC-P, the default value is true. When the mode is T-TSC or T-TSC-P, the default value is false.
Vlan	Vlan information	Data structure	Members include: • VlanId. • Dot1p.	It is configurable only when the port link-mode is bridge.
VLANID	Specify a VLAN for PTP packets encapsulated by using IEEE 802.3/Ethernet	N/A	Unsigned integer. Different device have different value range.	N/A
Dot1p	Specify a 802.1p priority for PTP packets encapsulated by using IEEE 802.3/Ethernet	N/A	Unsigned integer. Value range: 0 to 7.	N/A
MeanPathDelay	Mean path delay between master and slave	N/A	Unsigned integer. Length: 64 bits.	N/A

PTP/Corrections

This table contains information about PTP corrections.

XML structure

```
<PTP>
  <Corrections>
    <Correction>
      <Index></Index>
      <SlavePort></SlavePort>
      <CorrectionTime></CorrectionTime>
      <Corrections></Corrections>
      <RateRatio></RateRatio>
    </Correction>
```

```
  </Corrections>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Corrections
Table type	Multi-instance table
Row name	Correction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unsigned integer. Length: 32 bits.	N/A
SlavePort	Slave port index	N/A	Unsigned integer. Length: 32 bits.	N/A
CorrectionTime	Date time of Correction	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Corrections	Corrections value	N/A	Integer. Length: 64 bits.	The unit of Corrections is nanoseconds(ns).
RateRatio	RaterRatio value	N/A	Unsigned integer. Length: 64 bits.	The real RateRatio value is RateRatito divided by 1000,000,000.

PTP/InterfacesStatistics

This table contains information about PTP packets.

XML structure

```
<PTP>
  <InterfacesStatistics>
    <InterfaceStatistics>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Recived>
        <Announce></Announce>
```

```
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Recived>
    <Sent>
      <Announce></Announce>
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Sent>
    <Discarded>
      <Announce></Announce>
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Discarded>
  </InterfaceStatistics >
 </InterfacesStatistics >
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	InterfacesStatistics
Table type	Multi-instance table
Row name	InterfaceStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	In certain versions, this column supports interface name-to-index conversion.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Recived	Recived PTP packets	Data structure	Members include: • Announce. • Sync. • Signaling. • DelayReq. • DelayResp. • FollowUp • PdelayReq • PdelayResp • PdelayRespFollowUp	N/A
Sent	Sent PTP packets	Data structure	Members include: • Announce. • Sync. • Signaling. • DelayReq. • DelayResp. • FollowUp • PdelayReq • PdelayResp • PdelayRespFollowUp	N/A
Discarded	Discarded PTP packets	Data structure	Members include: • Announce. • Sync. • Signaling. • DelayReq. • DelayResp. • FollowUp • PdelayReq • PdelayResp • PdelayRespFollowUp	N/A
Announce	Announce packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
Sync	Sync packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
Signaling	Signaling packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
DelayReq	DelayReq packets number	N/A	Unsigned integer. Length: 64 bits.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DelayResp	DelayResp packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
FollowUp	FollowUp packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
PdelayReq	PdelayReq packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
PdelayResp	PdelayResp packets number	N/A	Unsigned integer. Length: 64 bits.	N/A
PdelayRespFollowUp	PdelayRespFollowUp packets number	N/A	Unsigned integer. Length: 64 bits.	N/A

PTP/Instances

This table contains information about PTP instances.

XML structure

```
<PTP>
  <Instances>
    <Instance>
      <InstanceID></InstanceID>
      <Name></Name>
      <Base>
        <Profile></Profile>
        <Mode></Mode>
        <Domain></Domain>
        <SlaveOnly></SlaveOnly>
        <ActiveForceState></ActiveForceState>
        <UtcOffset></UtcOffset>
        <MaxStepsRemoved></MaxStepsRemoved>
        <PathTrace></PathTrace>
      </Base>
      <Sources>
        <Source>
          <SourceVpn></SourceVpn>
          <SourceIpv4></SourceIpv4>
        </Source>
      </Sources>
      <ClockSources>
        <ClockSource>
          <ClockType></ClockType>
          <Priority1></Priority1>
          <Priority2></Priority2>
```

```
    <LocalPriority></LocalPriority>
    <Class></Class>
    <Accuracy></Accuracy>
    <OffsetLogVariance></OffsetLogVariance>
    <TimeSource></TimeSource>
    <GrandMasterClockId></GrandMasterClockId>
  </ClockSource>
</ClockSources>
<Clock>
  <ClockId></ClockId>
  <ClockType></ClockType>
  <PtpPortNumber></PtpPortNumber>
  <OffsetFromMaster></OffsetFromMaster>
  <MeanPathDelay></MeanPathDelay>
  <ReceiveIfIndex></ReceiveIfIndex>
  <ReceiveIfName></ReceiveIfName>
  <StepsRemoved></StepsRemoved>
  <TimeLockStatus></TimeLockStatus>
  <LocalTime></LocalTime>
</Clock>
<Interfaces>
  <Interface>
    <IfIndex></IfIndex>
    <IfName></IfName>
    <PortNum></PortNum>
    <Enable></Enable>
    <PortState></PortState>
    <ForceState></ForceState>
    <ClockStep></ClockStep>
    <SynInterval></SynInterval>
    <AnnounceInterval></AnnounceInterval>
    <AnnounceTimeout></AnnounceTimeout>
    <PdelayRequestInterval></PdelayRequestInterval>
    <MinDelayReqInterval></MinDelayReqInterval>
    <DelayRequestInterval></DelayRequestInterval>
    <DelayMechanism></DelayMechanism>
    <AsymmetryCorrection></AsymmetryCorrection>
    <PortMode></PortMode>
    <TransportProtocol></TransportProtocol>
    <DestinationMac></DestinationMac>
    <Dscp></Dscp>
    <LocalPriority></LocalPriority>
    <UnicastDestinationIpv4></UnicastDestinationIpv4>
    <UnicastNegotiation></UnicastNegotiation>
    <DelayRespInterval></DelayRespInterval>
    <NotSlave></NotSlave>
    <Vlan>
      <VLANID></VLANID>
```

```
      <Dot1p></Dot1p>
    </Vlan>
    <MeanPathDelay></MeanPathDelay>
  </Interface>
</Interfaces>
<InterfacesStatistics>
  <InterfaceStatistics>
    <IfIndex></IfIndex>
    <IfName></IfName>
    <Recived>
      <Announce></Announce>
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Recived>
    <Sent>
      <Announce></Announce>
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Sent>
    <Discarded>
      <Announce></Announce>
      <Sync></Sync>
      <Signaling></Signaling>
      <DelayReq></DelayReq>
      <DelayResp></DelayResp>
      <FollowUp></FollowUp>
      <PdelayReq></PdelayReq>
      <PdelayResp></PdelayResp>
      <PdelayRespFollowUp></PdelayRespFollowUp>
    </Discarded>
  </InterfaceStatistics>
</InterfacesStatistics>
<Slave>
  <SlavePort></SlavePort>
  <SyncState></SyncState>
  <Parent>
```

```
        <ParentClock>
          <ClockId></ClockId>
          <PortNumber></PortNumber>
        </ParentClock>
        <GmClock>
          <ClockId></ClockId>
          <Class></Class>
          <Accuracy></Accuracy>
          <OffsetLogVariance></OffsetLogVariance>
          <Priority1></Priority1>
          <Priority2></Priority2>
        </GmClock>
      </Parent>
      <Corrections>
        <Correction>
          <Index></Index>
          <CorrectionTime></CorrectionTime>
          <Corrections></Corrections>
          <RateRatio></RateRatio>
        </Correction>
      </Corrections>
    </Slave>
  </Instance>
</Instances>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table contains PTP instance information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	PTP instance ID	Index	Unsigned integer.	The value range depends on capability of the device.
Name	PTP instance name	N/A	String, case-insensitive. Length: 0 to 31.	N/A
Base	Global PTP information	Subtable	N/A	For more information, see "PTP/Base."

Column name	Column description	Column type	Data type and restrictions	Remarks
Sources	Information about the PTP source VPN and source IPv4 address	Sublist	N/A	For more information, see "PTP/Sources."
ClockSources	Clock source information	Sublist	N/A	For more information, see "PTP/ClockSources."
Clock	PTP clock information.	Subtable	N/A	For more information, see "PTP/Clock."
Interfaces	PTP interface information.	Sublist	N/A	For more information, see "PTP/Interfaces."
InterfacesStatistics	PTP packet statistics on a PTP interface.	Subtable	N/A	For more information, see "PTP/InterfacesStatistics."
Slave	PTP slave port information.	Subtable	N/A	For more information, see "PTP/Instances/Slave."

PTP/Instances/Slave

This table contains PTP slave port information.

XML structure

Please refer to the XML structure of Instances.

Table description

Item	Description
Feature name	PTP
Table name	Slave
Table type	Single -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlavePort	Slave port index	N/A	Unsigned integer. Length: 32 bits.	N/A
SyncState	Whether the current instance time can be used to synchronize	N/A	Enumeration: • **1**—Active. • **2**—Inactive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the system clock of this device			
Parent	PTP parent clock information.	Subtable	N/A	For more information, see "PTP/Parent."
Corrections	Information about PTP corrections.	Subtable	N/A	For more information, see "PTP/Corrections."

PTP/Instances/ClockSources

This table contains information about clock sources.

XML structure

Please refer to the XML structure of "PTP/Instances".

Table description

Item	Description
Feature name	PTP
Table name	ClockSources
Table type	Multi-instance table
Row name	ClockSource
Restrictions	This table contains Clock source information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClockType	Clock source type	Index	Enumeration: • **1**—Local. • **2**—Tod0. • **3**—Tod1.	N/A
Priority1	Value of Priority 1	N/A	Unsigned integer: Value range: 0 to 255.	N/A
Priority2	Value of Priority 2	N/A	Unsigned integer. Value range: 0 to 255.	N/A
LocalPriority	Set local priority	N/A	Unsigned integer: Value range: 1 to 255	It is configurable only when the Profile is ITU-T G.8275.1 or ITU-T G.8275.2.
Class	Clock class	N/A	Unsigned integer.	It is configurable only when the Clocktype is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 255.	Tod0 or Tod1.
Accuracy	Clock accuracy	N/A	Enumeration: • **32**—25 ns. • **33**—100 ns. • **34**—250 ns. • **35**—1 us. • **36**—2.5 us. • **37**—10 us. • **38**—25 us. • **39**—100 us. • **40**—250 us. • **41**—1 ms. • **42**—2.5 ms. • **43**—10 ms. • **44**—25 ms. • **45**—100 ms. • **46**—250 ms. • **47**—1 s. • **48**—10 s. • **49**—GT10 s. • **254**—Unkown.	It is configurable only when the Clocktype is Tod0 or Tod1.
OffsetLogVariance	Offset scaled log variance	N/A	Unsigned integer. Value range: 0 to 65535.	It is configurable only when the Clocktype is Tod0 or Tod1.
TimeSource	Time source	N/A	Unsigned integer. Value range: 0 to 255.	It is configurable only when the Clocktype is Tod0 or Tod1.
GrandMasterClockId	Grand master clockId	N/A	Octet string. Length: 18 characters.	It's a hexadecimal string. Example:000FE2-FFFE-FF0000 The value 000000-0000-000000 is not allowed.

PTP/GlobalStatus

This table contains information about global status of the device.

XML structure

```
<PTP>
  <GlobalStatus>
    <Enable></Enable>
    <LockThreshold></LockThreshold>
    <UnlockThreshold></UnlockThreshold>
```

```
  </GlobalStatus>
</PTP>
```

Table description

Item	Description
Feature name	PTP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	This table contains information about global status of the device.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	The PTP functional state of the device	N/A	Boolean: • true • false	N/A
LockThreshold	The threshold value of lock	N/A	Unsigned integer: Value range: value range depend on device customixation The unit is nanoseconds.	N/A
UnlockThreshold	The threshold value of unlock	N/A	Unsigned integer: Value range: value range depend on device customixation The unit is nanoseconds.	N/A

Contents

PTP 1
PTP/Base 1
PTP/Sources 2
PTP/ClockSources 2
PTP/Interfaces 3
PTP/Instances 4
PTP/GlobalStatus 4

PTP

PTP/Base

Message	Explanation
“PTP profile not set yet.” “PTP协议未配置。”	配置命令前需要先配置 PTP 协议
"PTP clock node type not set yet." "未配置PTP时钟节点类型。"	配置 PTP 其他命令前需要先配置 PTP 时钟节点类型
"The current PTP profile supports only these clock node types: BC, E2ETC, E2ETC+OC, OC, P2PTC, and P2PTC+OC." "当前PTP协议仅支持以下时钟节点类型：bc、e2etc、e2etc-oc、oc、p2ptc和p2ptc-oc。"	IEEE 1588v2 协议标准仅支持配置 bc，e2etc，e2etc-oc，oc，p2ptc，p2ptc-oc 类型时钟节点
"The current PTP profile supports only these modes: t-bc, t-tc, t-tsc." "当前PTP协议仅支持以下时钟节点类型：t-bc，t-tc，t-tsc。"	ITU-TG.8275.1 协议标准仅支持配置 t-bc，t-tc，t-tsc 类型时钟节点
"The current PTP profile supports only these modes: bc, oc, p2ptc, p2ptc-oc." "当前PTP协议仅支持以下时钟节点类型：bc，oc，p2ptc，p2ptc-oc。"	IEEE 802.1as 协议标准仅支持配置 bc，oc，p2ptc，p2ptc-oc 类型时钟节点
"The current PTP profile supports only these modes: bc, oc, ptptc ,etetc." "当前PTP协议仅支持以下时钟节点类型：bc, oc, ptptc ,etetc。"	SMPTE ST 2059-2 协议标准仅支持配置 bc, oc, ptptc ,etetc 类型时钟节点
"PTP clock mode not set yet." "PTP时钟节点类型未配置。"	配置一般命令前需要先配置 PTP 时钟节点类型
"The device is not in OC mode." "设备时钟节点类型不是OC类型。"	只有 OC 的工作模式才能配置为 Slave-only
"The value is out of range for the current PTP profile." "当前PTP协议下配置值超出范围。"	配置值超出 Domain 允许配置的范围
"PTP profile value is invalid." "当前PTP协议下配置值无效"	Profile 配置值为无效值
"PTP clock mode value is invalid." "当前设备时钟节点下配置值无效"	当前时钟节点配置的 Mode 值无效
"The current PTP profile doesn't support this operation." "当前的PTP协议不支持此操作。"	不同的 PTP Profile 可以配置项不同
"The current PTP profile supports only the T-BC-P and T-TSC-P clock node types." "当前PTP协议仅支持以下时钟节点类型：t-bc-p和t-tsc-p。"	ITU-TG.8275.2 协议标准仅支持配置 t-bc-p，t-tsc-p 类型时钟节点
"The current PTP profile supports only the OC	当前协议标准仅支持配置 OC 类型时钟节点

clock node type." "当前PTP协议仅支持OC时钟节点类型。"	
“In the 1588v2 profile, the ptp unicast-negotiate command is mutually exclusive with the ptp slave-only command.” 在1588v2 协议中， ptp slave-only功能与单播协商功能不能同时使用	在 1588v2 协议中， ptp slave-only 功能与单播协商功能不能同时使用

PTP/Sources

Message	Explanation
“PTP profile not set yet.” “PTP协议未配置。”	配置命令前需要先配置 PTP 协议
"PTP clock node type not set yet." "未配置PTP时钟节点类型。"	配置 PTP 其他命令前需要先配置 PTP 时钟节点类型
"The number of IP addresses has reached the upper limit." "配置ip地址个数超过限制。"	配置 ip 地址个数过多，超过限制

PTP/ClockSources

Message	Explanation
“PTP profile not set yet.” “PTP协议未配置。”	配置命令前需要先配置 PTP 协议
"PTP clock node type not set yet." "未配置PTP时钟节点类型。"	配置 PTP 其他命令前需要先配置 PTP 时钟节点类型
"The value is out of range for the current PTP profile." "值超出当前PTP协议允许的范围。"	配置超出了允许范围
"This operation is not supported." "当前配置不支持。"	Tod的方向配置不成功时返回此错误
"TodDelayTime must be configured together with TodDirection." "配置TodDelayTime同时必须配置TodDirection。"	配置TodDelayTime的同时要求配置TodDirection
"The current PTP profile doesn't support this operation." "当前PTP协议不支持此操作。"	不同的PTP Profile可以配置项不同
“In the 1588v2 profile, the ptp unicast-negotiate command is mutually exclusive with the ptp force-state command on an interface.” 在1588v2 协议中，端口下不能同时配置单播协商功能和ptp force-state功能。	在 1588v2 协议中，端口下不能同时配置单播协商功能和 ptp force-state 功能。
“In the 1588v2 profile, unicast negotiation and the P2P delay mechanism are mutually exclusive on an interface.” 在1588v2 协议中，端口下不能同时配置单播协商功能和P2P时延机制	在 1588v2 协议中，端口下不能同时配置单播协商功能和 P2P 时延机制

Message	Explanation
“With unicast negotiation enabled, you cannot change the interface type from OC to TC.” “接口配置Unicast-negotiation 时，不支持接口模式切换为TC”	接口配置单播协商功能，不支持接口模式修改为 TC
The interface is in TC mode and does not support unicast negotiation. “接口处于TC 模式时，不支持配置Unicast-negotiation”	命令在处于 TC 模式的端口下，配置不成功

PTP/Interfaces

Message	Explanation
“PTP profile not set yet.” “PTP协议未配置。”	配置命令前需要先配置 PTP 协议
"PTP clock node type not set yet." "未配置PTP时钟节点类型。"	配置 PTP 其他命令前需要先配置 PTP 时钟节点类型
"The device supports only one PTP interface in OC or T-TSC mode for the current PTP profile." "OC或T-TSC类型时钟节点仅支持一个PTP接口。"	OC 或 T-TSC 类型时钟节点只能配置一个 PTP 接口
"A slave port already exists on the device for the current PTP profile." "当前设备已经存在一个从端口。"	一个 PTP 节点最多只能有一个从端口
"%s is not one-step capable." "接口%s不支持单步模式。"	该接口不支持单步模式
"The value is out of range for the current PTP profile." "值超出当前PTP协议允许的范围。"	配置超出了允许范围
"The device is not in P2PTC-OC or E2ETC-OC mode." "设备时钟节点类型不是P2PTC-OC或E2ETC-OC类型。"	只有当时钟节点类型是 P2PTC-OC 或 E2ETC-OC 时，才允许配置 ptp port-mode oc
"The delay mechanism can be changed only in BC or OC mode." "只有时钟类型是BC或OC才允许配置PTP延时测量机制。"	只有时钟类型是 BC 或 OC 才允许配置 PTP 延时测量机制
"The device already has an OC interface." "设备已经存在一个OC接口。"	只有当时钟节点类型是 P2PTC-OC 或 E2ETC-OC 时，只允许一个接口配置为 OC 类型
"Invalid destination MAC for PTP packets." "非法目的MAC地址。"	非法目的 MAC 地址
"The command can be configured only on a Layer 3 Ethernet interface." "当前配置仅支持3层以太网接口。"	命令只能在 3 层以太网接口配置
"The command can be configured only on a Layer 2 Ethernet interface." "当前配置仅支持2层以太网接口。"	命令只能在 2 层以太网接口配置
"%s doesn’t support PTP."	接口不支持 PTP 功能

Message	Explanation
"接口%s不支持PTP功能。"	
“Please specify a VLAN ID.” “配置Dot1p时,必须下发VLANID”	配置 Dot1p 时,必须下发 VLANID

PTP/Instances

Message	Explanation
“Please first set a PTP domain.” “PTP域未配置。”	配置命令需要同时配置 PTP 域
"This domain is already used by another PTP instance." "PTP域已经被其他实例使用。"	PTP 域值已经被其他实例使用，需要更换 PTP 域值
"System defined instance name can't be modified or deleted." "缺省PTP实例的名称不能修改和删除。"	缺省 PTP 实例的名称不允许修改和删除
“The name of PTP instance can’t be deleted.” “实例名称不允许删除”	PTP 实例名称不允许删除
"The name is already used by another PTP instance." "实例名称已被使用。"	PTP 实例名称已经被使用

PTP/GlobalStatus

Message	Explanation
“The time-unlock value must be larger than or equal to the time-lock value.” “请保证失锁阈值大于等于锁定阈值。”	失锁阈值需要大于等于锁定阈值

Contents

QBU 2
QBU/Interfaces 2
XML structure 2
Table description 2
Columns 2
QBU/Interfaces/Interface/FramePreemptionStates 3
XML structure 3
Table description 3
Columns 3

QBU

QBU/Interfaces

This table provides Qbu interfaces configuration

XML structure

```
<QBU>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <FramePreemptionStates>
        <FramePreemptionState>
          <TrafficClass></TrafficClass>
          <PreemptionState></PreemptionState>
        <FramePreemptionState>
      <FramePreemptionStates>
    </Interface>
  </Interfaces>
</QBU>
```

Table description

Item	Description
Feature name	QBU
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String • Length: 1 to 47 characters.	N/A
FramePreemptionStates	A table containing a set of frame preemption	Sublist	N/A	For more information, see the QBU/Interfaces/Interface/FramePreemptionStat

Column name	Column description	Column type	Data type and restrictions	Remarks
	parameters, one for each port.			es table.

QBU/Interfaces/Interface/FramePreemptionStates

This table provides QCI/StreamGateInstances/FramePreemptionStates configuration, It consists of 8 PreemptionState values, one per priority.

XML structure

See the XML structure of QBU/Interfaces

Table description

Item	Description
Feature name	QBU
Table name	FramePreemptionStates
Table type	Multi-instance table
Row name	FramePreemptionState
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficClass	Traffic class.	index	Unsigned integer8. Range: 0~7.	N/A
PreemptionState	The value of the framePreemptionAdminStatus parameter for the traffic class. The default value of the framePreemptionAdminStatus parameter is express (1).	N/A	Enumeration: Express - 0x1 Preemptible – 0x2	N/A

Contents

QBU 2
QBU/Interfaces 2
XML structure 2
Table description 2
Columns 2
QBU/Interfaces/Interface/FramePreemptionStates 3
XML structure 3
Table description 3
Columns 4

QBU

QBU/Interfaces

This table provides Qbu interfaces configuration

XML structure

```
<QBU>
  <Interfaces>
    <Interface>
      <IfName></IfName>
      <FramePreemptionStates>
        <FramePreemptionState>
          <TrafficClass></TrafficClass>
          <PreemptionState></PreemptionState>
        </FramePreemptionState>
      </FramePreemptionStates>
      <HoldAdvance></HoldAdvance>
      <ReleaseAdvance></ReleaseAdvance>
      <PreemptionActive></PreemptionActive>
      <HoldRequest></HoldRequest>
    </Interface>
  </Interfaces>
</QBU>
```

Table description

Item	Description
Feature name	QBU
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String • Length: 1 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FramePreemptionStates	A table containing a set of frame preemption parameters, one for each Port.	Sublist	N/A	For more information, see the QBU/Interfaces/Interface/FramePreemptionStates table.
HoldAdvance	The value of the holdAdvance parameter for the Port in nanoseconds.	N/A	Unsigned integer 32.	There is no default value; the holdAdvance is a property of the underlying MAC.
ReleaseAdvance	The value of the releaseAdvance parameter for the Port in nanoseconds.	N/A	Unsigned integer 32.	There is no default value; the releaseAdvance is a property of the underlying MAC.
PreemptionActive	TRUE if preemption is both supported by the MAC and currently active.	N/A	Boolean: ● true ● false	N/A
HoldRequest	The value is hold (1) when the sequence of gate operations for the Port has executed a Set-And-Hold-MAC operation, and release (2) when the sequence of gate operations has executed a Set-And-Release-MAC operation.	N/A	Enumeration: ● Hold – 0x1 ● Release - 0x2	The value of this object is release (2) on system initialization.

QBU/Interfaces/Interface/FramePreemptionStates

This table provides QCI/StreamGateInstances/FramePreemptionStates configuration, It consists of 8 PreemptionState values, one per priority.

XML structure

See the XML structure of QBU/Interfaces

Table description

Item	Description
Feature name	QBU

Table name	FramePreemptionStates
Table type	Multi-instance table
Row name	FramePreemptionState
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficClass	Traffic class.	index	Unsigned integer8. Range: 0~7.	N/A
PreemptionState	The value of the framePreemptionAdminStatus parameter for the traffic class. The default value of the framePreemptionAdminStatus parameter is express (1).	N/A	Enumeration: Express - 0x1 Preemptible – 0x2	N/A

Contents

QCC 1
QCC/StreamIdentifications 1
XML structure 1
Table description 1
Columns 1

QCC

QCC/StreamIdentifications

This table provides qcc configuration.

XML structure

```
<QCC>
  <StreamIdentifications>
    <StreamIdentification>
      <StreamId></StreamId>
      <IfName></IfName>
      <mac-addresses>
        <destination-mac-address></destination-mac-address>
        <source-mac-address></source-mac-address>
      </mac-addresses>
      <vlan-tag>
        <priority-code-point></priority-code-point>
        <vlan-id></vlan-id>
      </vlan-tag>
      <recos></recos>
    </StreamIdentification>
  </StreamIdentifications>
</QCC>
```

Table description

Item	Description
Feature name	QCC
Table name	StreamIdentifications
Table type	Multi-instance table
Row name	StreamIdentification
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StreamId	Stream id number	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String Length: 1 to 47 characters.	N/A
mac-addresses	Group of MAC addresses	Data structure	Members include: • destination-mac-address • source-mac-address	N/A
destination-mac-address	Number of destination MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
source-mac-address	Number of source MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
vlan-tag	Group of VLAN tags	Data structure	Members include: • priority-code-point • vlan-id	N/A
priority-code-point	VLAN priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
vlan-id	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
recos	Class of service	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Contents

QCC 1
QCC/StreamIdentifications 1
XML structure 1
Table description 1
Columns 1
QCC/BridgeDelay 2
XML structure 2
Table description 3
Columns 3
QCC/PropagationDelay 5
XML structure 5
Table description 5
Columns 5

QCC

QCC/StreamIdentifications

This table provides QCC/StreamIdentifications configuration.

XML structure

```
<QCC>
  <StreamIdentifications>
    <StreamIdentification>
      <StreamId></StreamId>
      <IfName></IfName>
      <mac-addresses>
        <destination-mac-address></destination-mac-address>
        <source-mac-address></source-mac-address>
      </mac-addresses>
      <vlan-tag>
        <priority-code-point></priority-code-point>
        <vlan-id></vlan-id>
      </vlan-tag>
      <recos></recos>
    </StreamIdentification>
  </StreamIdentifications>
</QCC>
```

Table description

Item	Description
Feature name	QCC
Table name	StreamIdentifications
Table type	Multi-instance table
Row name	StreamIdentification
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StreamId	Stream ID	Index	Unsigned integer.	N/A
IfName	Interface name	Index	String Length: 1 to 47 characters.	N/A
mac-address	Group of MAC	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
es	addresses	structure	• destination-mac-address • source-mac-address	
destination-mac-address	Number of destination MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
source-mac-address	Number of source MAC addresses	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. This column does not support a multicast, all-zero, or all-F MAC address.
vlan-tag	Group of VLAN tags	Data structure	Members include: • priority-code-point • vlan-id	N/A
priority-code-point	VLAN priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
vlan-id	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
recos	Class of service	N/A	Unsigned integer. Value range: 0 to 7.	N/A

QCC/BridgeDelay

This table provides QCC/BridgeDelay configuration.

XML structure

```
<QCC>
  <BridgeDelay>
    <IngressPort></IngressPort>
    <EgressPort></EgressPort>
    <TrafficClass></TrafficClass>
    <IndependentDelayMin></IndependentDelayMin>
    <IndependentDelayMax></IndependentDelayMax>
    <DependentDelayMin></DependentDelayMin>
    <DependentDelayMax></DependentDelayMax>
  </BridgeDelay>
</QCC>
```

Table description

Item	Description
Feature name	QCC
Table name	BridgeDelay
Table type	Single-instance table
Row name	BridgeDelay
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IngressPort	Ingress port name.	Index	String Length: 1 to 47 characters.	Interface Name
EgressPort	Egress port name.	Index	String Length: 1 to 47 characters.	Interface Name
TrafficClass	Class of traffic	Index	Unsigned32 (0..7)	N/A
Independent DelayMin	This attribute provides the minimum delay independent of the frame length for a frame to forward from ingress port to egress port. Note: This delay includes all aspects of length-independent delay for a frame that is forwarded, including handling of error conditions.	N/A	Unsigned integer.	N/A
Independent DelayMax	This attribute provides the maximum delay independent of the frame length for a frame to forward from ingress port to egress port	N/A	Unsigned integer.	N/A
DependentDelayMin	This attribute provides the minimum length-dependent delay from ingress port to	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	egress port. It provides the portion of delay that is dependent on frame length, where frame length is the number of octets that traverse the MAC Service interfaces			
DependentDelayMax	This attribute provides the maximum length-dependent delay from ingress port to egress port	N/A	Unsigned integer.	N/A

QCC/PropagationDelay

This table provides QCC/PropagationDelay configuration.

XML structure

```
<QCC>
  <PropagationDelay>
    <EgressPort></EgressPort>
    <txPropagationDelay></txPropagationDelay>
  </PropagationDelay>
</QCC>
```

Table description

Item	Description
Feature name	QCC
Table name	PropagationDelay
Table type	Single-instance table
Row name	PropagationDelay
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EgressPort	Egress port name	Index	String Length: 1 to 47 characters.	N/A
txPropagation Delay	This attribute provides the transmission propagation delay. The propagation delay begins when the message timestamp point of an egress frame passes the reference plane marking the boundary between the network media and PHY. It ends when the message timestamp point of an ingress	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	frame on the neighboring Bridge's Port passes the reference plane marking the boundary between the network media and PHY.			

Contents

QCI 2
QCI/StreamFilterInstances 2
XML structure 2
Table description 2
Columns 2
QCI/StreamGateInstances 4
XML structure 4
Table description 5
Columns 5
QCI/StreamGateInstances/StreamGateInstance/AdminControlList 9
XML structure 9
Table description 9
Columns 9
QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries 10
XML structure 10
Table description 10
Columns 10
QCI/FlowMeters 11
XML structure 11
Table description 11
Columns 11
QCI/FlowMeters/FlowMeterInstances 12
XML structure 12
Table description 12
Columns 13
QCI/GlobalApplyFilter 14
XML structure 14
Table description 15
Columns 15

QCI

QCI/StreamFilterInstances

This table provides Qci stream filter instance configuration.

XML structure

```
<QCI>
  <StreamFilterInstances>
    <StreamFilterInstance>
      <Index></Index>
      <FlowMeterID></FlowMeterID>
      <FlowMeterState></FlowMeterState>
      <Priority></Priority>
      <StreamID></StreamID>
      <GateID></GateID>
      <MaxOverFrameSize></MaxOverFrameSize>
      <StreamBlockedDueToOverSizeFrameEnable></StreamBlockedDueToOverSizeFrameEnable>
      <StreamBlockedDueToOverSizeFrame></StreamBlockedDueToOverSizeFrame>
    </StreamFilterInstance>
  </StreamFilterInstances>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	StreamFilterInstances
Table type	Multi-instance table
Row name	StreamFilterInstance
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Stream filter instance identifier	Index	Unsigned integer 32	N/A
FlowMeterID	A reference to the flow meter associated	N/A	Unsigned integer 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	with this filter.			
FlowMeterState	If it is set to TRUE, flow-meter-ref identifies the flow meter instance associated with the stream filter. If it is set to FALSE, no flow meter instance is associated with the stream filter.	N/A	Boolean: • true • false	N/A
Priority	The priority parameter contains a priority specification value.	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A
StreamID	A reference to the stream associated	N/A	Unsigned integer 32	N/A
GateID	The GateID identifies the stream gate that is associated with the stream filter.	N/A	Unsigned integer 32	N/A
MaxOverFrameSize	The max SDU size.	N/A	Unsigned integer 32	N/A
StreamBlockedDueToOverSizeFrameEnable	A Boolean value that indicates whether the ieee8021PSFPStreamBlockedDueToOversizeFrame function is enabled (TRUE) or disabled (FALSE).	N/A	Boolean: • true • false	N/A
StreamBlockedDueToOverSizeFrame	The ieee8021PSFPStreamBlockedDueToOversizeFrame object contains a Boolean value that indicates	N/A	Boolean: • true • false	StreamBlockedDueToOverSizeFrameEnable is TRUE, a value of TRUE in StreamBlockedDueToOverSizeFrame indicates that all frames are dropped (i.e., the gate behaves as if the

Column name	Column description	Column type	Data type and restrictions	Remarks
	whether, if the ieee8021PSFP StreamBlockedDueToOversizeFrame function is enabled, all frames are to be discarded (TRUE)			operational stream gate state is Closed). If StreamBlockedDueToOverSizeFrame is FALSE, it has no effect. The default value of StreamBlockedDueToOverSizeFrame is FALSE; if any frame is discarded because the gate is in the Closed state, then StreamBlockedDueToOverSizeFrame is set TRUE

QCI/StreamGateInstances

This table provides Qci stream gate instance configuration

XML structure

```
<QCI>
  <StreamGateInstances>
    <StreamGateInstance>
      <GateIndex></GateIndex>
      <EnableState></EnableState>
      <AdminIpv></AdminIpv>
      <AdminGateState></AdminGateState>
      <AdminControlList>
         <GateControlEntry>
            <Index></Index>
            <OperationName></OperationName>
            <TimeInterval></TimeInterval>
            <GateStateValue></GateStateValue>
            <IpvSpec></IpvSpec>
         </GateControlEntry>
      </AdminControlList>
      <AdminCycleTime>
        <Numerator></Numerator>
        <Denominator></Denominator>
      </AdminCycleTime>
      <AdminBaseTime>
        <Seconds></Seconds>
        <Nanoseconds></Nanoseconds>
      </AdminBaseTime>
      <AdminCycleTimeExtension></AdminCycleTimeExtension>
      <ConfigChange></ConfigChange>
      <GateClosedDueToInvalidRxEnable></GateClosedDueToInvalidRxEnable>
```

```
      <GateClosedDueToInvalidRx></GateClosedDueToInvalidRx>
      <GateClosedDueOctetsExceededEnable></GateClosedDueOctetsExceededEnable>
      <GateClosedDueOctetsExceeded></GateClosedDueOctetsExceeded>
    </StreamGateInstance>
  </StreamGateInstances>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	StreamGateInstances
Table type	Multi-instance table
Row name	StreamGateInstance
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GateIndex	Stream gate instance identifier	Index	Unsigned integer 32	N/A
EnableState	The GateEnabled parameter determines whether the stream gate is active (true) or inactive (false).	N/A	Boolean: true false	N/A
AdminIpv	The administrative internal priority value	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A
AdminGateState	The administrative value of the GateStates parameter for the stream gate.	N/A	Enumeration. ● open 0x1 ● closed 0x2	N/A
AdminControlList	The AdminControlList and OperControlList are ordered lists containing AdminControlL	Sublist	N/A	For more information, see the QCI/StreamGateInstances/StreamGateInstance/AdminControlList table.

Column name	Column description	Column type	Data type and restrictions	Remarks
	istLength or OperControlListLength entries, respectively. Each entry represents a gate operation. Each entry in the list is structured as a GateControlEntry.			
AdminCycleTime	The administrative value of the numerator of the CycleTime parameter for the gate.The numerator and denominator together represent the cycle time asa rational number of seconds	Data structure	Members include: • Numerator. • Denominator.	N/A
Numerator	Numerator of the rational number	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Denominator	Denominator of the rational number	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AdminCycleTimeExtension	An unsigned integer number of nanoseconds, defining the maximum amount of time by which the gating cycle for the gate is permitted to be extended when a new cycle configuration is being installed.	N/A	Unsigned integer. • Length: 32 bits.	N/A
AdminBaseTime	The administrative value of the BaseTime parameter for the gate.The value is a representation	Data structure	Members include: • Seconds. • Nanoseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of a PTPtime value,consisting of a 48-bit integer number of seconds and a 32-bit integer number of nanoseconds.			
Seconds	The integer portion of the timestamp in units of seconds	N/A	Unsigned integer 64. The upper 16 bits are always zero	N/A
Nanoseconds	This is the fractional portion of the timestamp in units of nanoseconds	N/A	Unsigned integer 32.	N/A
ConfigChange	The parameter signals the start of a configuration change happens whether the port is ready to be copied into their corresponding operational parameters. This should only be done when the various administrative parameters are all set to appropriate values.	N/A	Boolean: • true • false	
GateClosedDueToInvalidRxEnable	A value of TRUE indicates that the GateClosedDueToInvalidRx function is enabled; a value of FALSE indicates that the GateClosedDueToInvalidRx function is disabled.	N/A	Boolean: • true • false	N/A
GateClosedDue	The dropped	N/A	Boolean:	If

Column name	Column description	Column type	Data type and restrictions	Remarks
ToInvalidRx	action on frames		• true • false	GateClosedDueToInvalidRxEnable is TRUE, a value of TRUE in GateClosedDueToInvalidRx indicates that all frames are dropped (i.e., the gate behaves as if the operational stream gate state is Closed). If GateClosedDueToInvalidRx is FALSE, it has no effect. The default value of GateClosedDueToInvalidRx is FALSE; if any frame is discarded because the gate is in the Closed state, then GateClosedDueToInvalidRx is set TRUE.
GateClosedDueOctetsExceededEnable	A value of TRUE indicates that the GateClosedDueToOctetsExceeded function is enabled; a value of FALSE indicates that the GateClosedDueToOctetsExceeded function is disabled. The default value of GateClosedDueToOctetsExceed is FALSE.	N/A	Boolean: • true • false	N/A
GateClosedDueOctetsExceeded	The dropped action on frames	N/A	Boolean: • true • false	If GateClosedDueToOctetsExceededEnable is TRUE, a value of TRUE in GateClosedDueToOctetsExceeded indicates that all frames are dropped (i.e., the gate behaves as if the operational stream gate state is Closed). If GateClosedDueToOctetsExceeded is FALSE, it has no effect. The default value of GateClosedDueToOctetsExceeded is FALSE;

Column name	Column description	Column type	Data type and restrictions	Remarks
				if any frame is discarded because there are insufficient IntervalOctetsLeft, then GateClosedDueToOctetsExceeded is set TRUE

QCI/StreamGateInstances/StreamGateInstance/AdminControlList

This table provides QCI/StreamGateInstances/StreamGateInstance/AdminControlList configuration.

XML structure

See the XML structure of QCI/StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	AdminControlList
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminControlList	The administrative value of the gate control list for the port	Sublist	N/A	For more information, see the QBV/Interfaces table.

QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries

This table provides QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries configuration.

XML structure

See the XML structure of QCI/StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	GateControlEntries
Table type	Multi-instance table
Row name	GateControlEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Control list index	index	Unsigned integer. Length: 32 bits.	N/A
OperationName	The name of the operation for this entry.	N/A	0: SetGateStates 1-255: Reserved for future gate operations	N/A
TimeInterval	A number of nanoseconds	N/A	Unsigned integer. Length: 32 bits.	N/A
GateStateValue	The PSFPgateStatesValue indicates the desired gate state, open or closed, for the stream gate.	N/A	Enumeration. ● Closed 0x1 ● Open 0x2	N/A
IpvSpec	The IPV value indicates the IPV to be associated with frames that pass the	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	gate.			

QCI/FlowMeters

This table provides Qci stream meter instance configuration.

XML structure

```
<QCI>
  <FlowMeters>
    <FlowMeterInstances>
      <FlowMeterInstance>
        <Index></Index>
        <CommittedInformationRate></CommittedInformationRate>
        <CommittedBurstSize></CommittedBurstSize>
        <ExcessInformationRate></ExcessInformationRate>
        <ExcessBurstSize></ExcessBurstSize>
        <CouplingFlag></CouplingFlag>
        <ColorMode></ColorMode>
        <DropOnYellow></DropOnYellow>
        <MarkAllFramesRedEnable></MarkAllFramesRedEnable>
        <MarkAllFramesRed></MarkAllFramesRed>
      </FlowMeterInstance>
    </FlowMeterInstances>
  </FlowMeters>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	FlowMeters
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowMeterInsta	There is one	Sublist	N/A	For more information,

Column name	Column description	Column type	Data type and restrictions	Remarks
nces	Flow Meter Instance Table per Bridge component. Each table row contains a set of parameters that defines a single Flow Meter Instance. Tables can be created or removed dynamically in implementations that support dynamic configuration of Bridge components. Rows in the table can be created or removed dynamically in implementations that support dynamic configuration of flow meters.			see the QCI/FlowMeters/FlowMeterInstances table.

QCI/FlowMeters/FlowMeterInstances

This table provides QCI/FlowMeter/FlowMeterInstances configuration.

XML structure

See the XML structure of QCI/FlowMeters.

Table description

Item	Description
Feature name	QCI
Table name	FlowMeterInstances
Table type	Multi-instance table
Row name	FlowMeterInstance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	An integer table index that allows the Flow Meter to be referenced from Stream Filter Instance Table entries.	index	Unsigned integer. Length: 32 bits.	N/A
CommittedInformationRate	Committed information rate (CIR), in bits per second.	N/A	Unsigned integer64	N/A
CommittedBurstSize	Committed burst size (CBS), in octets.	N/A	Unsigned integer. Length: 32 bits.	N/A
ExcessInformationRate	Excess Information Rate (EIR), in bits per second.	N/A	Unsigned integer64	N/A
ExcessBurstSize	Excess burst size (EBS) per bandwidth profile flow, in octets.	N/A	Unsigned integer. Length: 32 bits.	N/A
CouplingFlag	Coupling flag (CF), which takes the value 0 or 1.	N/A	Enumeration. ● Uncoupled - 0x0 ● Coupled - 0x1	N/A
ColorMode	Color mode (CM), which takes the value color-blind or color-aware, as specified in Bandwidth Profile Parameters and Algorithm in MEF 10.3.	N/A	Enumeration. ● ColorBlind - 0x0 ● ColorAware – 0x1	N/A
DropOnYellow	DropOnYellow, which takes the value TRUE or FALSE. A value of TRUE indicates that yellow frames are dropped (i.e., discarded); a	N/A	Boolean. ● true ● false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	value of FALSE indicates that yellow frames will have the drop_eligible parameter set to TRUE.			
MarkAllFrames RedEnable	A value of TRUE indicates that the MarkAllFrames Red function is enabled; a value of FALSE indicates that the MarkAllFrames Red function is disabled.	N/A	Boolean. ● true ● false	N/A
MarkAllFrames Red	The dropped action of frames.	N/A	Boolean. ● true ● false	MarkAllFramesRed, which takes the value TRUE or FALSE. If MarkAllFramesRedEnable is TRUE, a value of TRUE in MarkAllFramesRed indicates that all frames are dropped (i.e., discarded). If MarkAllFramesRed is False, it has no effect. The default value of MarkAllFramesRed is FALSE; if the operation of the flow meter causes any frame to be discarded, then MarkAllFramesRed is set TRUE.

QCI/GlobalApplyFilter

This table provides global application of Qci filter.

XML structure

```
<QCI>
   <GlobalApplyFilter>
     <FilterList></FilterList>
   </GlobalApplyFilter>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	GlobalApplyFilter
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterList	Filters to be applied	N/A	Number string. It is a comma-separated list of filter IDs. An item can be an individual filter ID or a filter ID range. Use a hyphen (-) to separate the start and end filters of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

Contents

QCI 2

QCI/StreamFilterInstances 2
XML structure 2
Table description 2
Columns 3
QCI/StreamParameters 5
XML structure 5
Table description 5
Columns 5
QCI/StreamGateInstances 6
XML structure 6
Table description 8
Columns 8
QCI/StreamGateInstances/StreamGateInstance/AdminControlList 15
XML structure 15
Table description 15
Columns 15
QCI/StreamGateInstances/StreamGateInstance/OperControlList 15
XML structure 16
Table description 16
Columns 16
QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries 16
XML structure 16
Table description 16
Columns 17
QCI/StreamGateInstances/StreamGateInstance/OperControlList/GateControlEntries 17
XML structure 17
Table description 17
QCI/FlowMeters 18
XML structure 18
Table description 18
Columns 18
QCI/FlowMeters/FlowMeterInstances 19
XML structure 19
Table description 19
Columns 20
QCI/GlobalApplyFilter 21
XML structure 21
Table description 22
Columns 22

QCI

QCI/StreamFilterInstances

This table provides QCI stream filter instances configuration.

XML structure

```
<QCI>
  <StreamFilterInstances>
    <StreamFilterInstance>
      <Index></Index>
      <MatchingFrameCount></MatchingFrameCount>
      <PassingFrameCount></PassingFrameCount>
      <NoPassingFrameCount></NoPassingFrameCount>
      <RedFramesCount></RedFramesCount>
      <PassingSduCount></PassingSduCount>
      <NoPassingSduCount></NoPassingSduCount>
      <FlowMeterID></FlowMeterID>
      <FlowMeterState></FlowMeterState>
      <Priority></Priority>
      <StreamID></StreamID>
      <GateID></GateID>
      <MaxOverFrameSize></MaxOverFrameSize>
      <StreamBlockedDueToOverSizeFrameEnable></StreamBlockedDueToOverSizeFrameEnable>
      <StreamBlockedDueToOverSizeFrame></StreamBlockedDueToOverSizeFrame>
    </StreamFilterInstance>
  </StreamFilterInstances>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	StreamFilterInstances
Table type	Multi-instance table
Row name	StreamFilterInstance
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Stream filter instance identifier	Index	Unsigned integer 32	N/A
MatchingFrameCount	A count of frames matching both the stream handle and priority specifications.	N/A	Unsigned integer 64.	N/A
PassingFrameCount	A count of frames that passed the stream filter.	N/A	Unsigned integer 64.	N/A
NoPassingFrameCount	A count of frames that did not pass the stream filter.	N/A	Unsigned integer 64.	N/A
RedFramesCount	A count of frames that were discarded as a result of the operation of the flow meter.	N/A	Unsigned integer 64.	N/A
PassingSduCount	A count of frames that passed the Maximum SDU size filter.	N/A	Unsigned integer 64.	N/A
NoPassingSduCount	A count of frames that did not pass the Maximum SDU size filter.	N/A	Unsigned integer 64.	N/A
FlowMeterID	A reference to the flow meter associated with this filter.	N/A	Unsigned integer 32	N/A
FlowMeterState	If it is set to TRUE, flow-meter-ref identifies the flow meter instance associated with the stream filter. If it is set to FALSE, no flow meter instance is associated with the stream	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	filter.			
Priority	The Priority parameter contains a priority specification value.	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A
StreamID	A reference to the Stream associated	N/A	Unsigned integer 32	N/A
GateID	The GateID identifies the stream gate that is associated with the stream filter.	N/A	Unsigned integer 32	N/A
MaxOverFrame Size	The max SDU size.	N/A	Unsigned integer 32	N/A
StreamBlocked DueToOverSize FrameEnable	A Boolean value that indicates whether the ieee8021PSFP StreamBlocke dDueToOversi zeFrame function is enabled (TRUE) or disabled (FALSE).	N/A	Boolean: • true • false	N/A
StreamBlocked DueToOverSize Frame	The ieee8021PSFP StreamBlocke dDueToOversi zeFrame object contains a Boolean value that indicates whether, if the ieee8021PSFP StreamBlocke dDueToOversi zeFrame function is enabled, all frames are to be discarded (TRUE)	N/A	Boolean: • true • false	If StreamBlockedDueToO verSizeFrameEnable is TRUE, a value of TRUE in StreamBlockedDueToO verSizeFrame indicates that all frames are dropped (i.e., the gate behaves as if the operational stream gate state is Closed). If StreamBlockedDueToO verSizeFrame is FALSE, it has no effect. The default value of StreamBlockedDueToO verSizeFrame is FALSE; if any frame is discarded because the gate is in the Closed state, then StreamBlockedDueToO verSizeFrame is set TRUE.

QCI/StreamParameters

This table provides QCI stream parameter configuration.

XML structure

```
<QCI>
  <StreamParameters>
    <MaxStreamFilterInstances></MaxStreamFilterInstances>
    <MaxStreamGateInstances></MaxStreamGateInstances>
    <MaxStreamFlowMeterInstances></MaxStreamFlowMeterInstances>
    <SupportedListMax></SupportedListMax>
  </StreamParameters>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	StreamParameters
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxStreamFilterInstances	The MaxStreamFilterInstances parameter defines the maximum number of stream filter instances that are supported by this Bridge component.	N/A	Unsigned integer 32	N/A
MaxStreamGateInstances	The MaxStreamGateInstances parameter defines the maximum number of stream gate instances that	N/A	Unsigned integer 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	are supported by this Bridge component.			
MaxStreamFlowMeterInstances	The MaxFlowMeterInstances parameter defines the maximum number of flow meter instances that are supported by this Bridge component.	N/A	Unsigned integer 32	N/A
SupportedListMax	The maximum value supported by this Bridge component of the AdminControlListLength and OperControlListLength parameters.	N/A	Unsigned integer 32	Augment the Bridge component Stream Gates by maximum control list limits, as used for PTP-controlled open and close transitions.

QCI/StreamGateInstances

This table provides QCI stream gate instance configuration

XML structure

```
<QCI>
  <StreamGateInstances>
    <StreamGateInstance>
      <GateIndex></GateIndex>
      <EnableState></EnableState>
      <AdminIpv></AdminIpv>
      <AdminGateState></AdminGateState>
      <OperGateState></OperGateState>
      <OperIpv></OperIpv>
      <AdminControlList>
          <GateControlEntry>
            <Index></Index>
            <OperationName></OperationName>
            <TimeInterval></TimeInterval>
            <GateStateValue></GateStateValue>
            <IpvSpec></IpvSpec>
          </GateControlEntry>
      </AdminControlList>
```

```
      <OperControlList>
        <GateControlEntry>
          <Index></Index>
          <OperationName></OperationName>
          <TimeInterval></TimeInterval>
          <GateStateValue></GateStateValue>
          <IpvSpec></IpvSpec>
        </GateControlEntry>
      </OperControlList>
      <AdminCycleTime>
        <Numerator></Numerator>
        <Denominator></Denominator>
      </AdminCycleTime>
      <OperCycleTime>
        <Numerator></Numerator>
        <Denominator></Denominator>
      </OperCycleTime>
      <AdminBaseTime>
        <Seconds></Seconds>
        <Nanoseconds></Nanoseconds>
      </AdminBaseTime>
      <OperBaseTime>
        <Seconds></Seconds>
        <Nanoseconds></Nanoseconds>
      </OperBaseTime>
      <AdminCycleTimeExtension></AdminCycleTimeExtension>
      <OperCycleTimeExtension></OperCycleTimeExtension>
      <TickGranularity></TickGranularity>
      <CurrentTime>
        <Seconds></Seconds>
        <Nanoseconds></Nanoseconds>
      </CurrentTime>
      <ConfigChange></ConfigChange>
      <ConfigChangeTime>
        <Seconds></Seconds>
        <Nanoseconds></Nanoseconds>
      </ConfigChangeTime>
      <ConfigPending></ConfigPending>
      <ConfigChangeError></ConfigChangeError>
      <GateClosedDueToInvalidRxEnable></GateClosedDueToInvalidRxEnable>
      <GateClosedDueToInvalidRx></GateClosedDueToInvalidRx>
      <GateClosedDueOctetsExceededEnable></GateClosedDueOctetsExceededEnable>
      <GateClosedDueOctetsExceeded></GateClosedDueOctetsExceeded>
    </StreamGateInstance>
  </StreamGateInstances>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	StreamGateInstances
Table type	Multi-instance table
Row name	StreamGateInstance
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GateIndex	Stream gate instance identifier	Index	Unsigned integer 32	N/A
EnableState	The GateEnabled parameter determines whether the stream gate is active (true) or inactive (false).	N/A	Boolean: true false	N/A
AdminIpv	The administrative internal priority value	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A
AdminGateState	The administrative value of the GateStates parameter for the stream gate.	N/A	Enumeration. ● open 0x1 ● closed 0x2	N/A
OperGateState	The current state of the gate. PSFPOperGateStates is set by the List Execute state machine, and its initial value is determined by the value of the PSFPAdminGateStates variable.	N/A	Enumeration. ● open 0x1 ● closed 0x2	N/A
OperIpv	The operational	N/A	Unsigned integer 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	internal priority value specification.		Value range: 0 to 7.	
AdminControlList	The AdminControlList and OperControlList are ordered lists containing AdminControlListLength or OperControlListLength entries, respectively. Each entry represents a gate operation. Each entry in the list is structured as a GateControlEntry.	Sublist	N/A	For more information, see the QCI/StreamGateInstances/StreamGateInstance/AdminControlList table.
OperControlList	The AdminControlList and OperControlList are ordered lists containing AdminControlListLength or OperControlListLength entries, respectively. Each entry represents a gate operation. Each entry in the list is structured as a GateControlEntry.	Sublist	N/A	For more information, see the QCI/StreamGateInstances/StreamGateInstance/OperControlList table.
AdminCycleTime	The administrative value of the numerator of the CycleTime parameter for the gate.The numerator and denominator together represent the cycle time asa rational number of seconds	Data structure	Members include: • Numerator. • Denominator.	N/A
Numerator	Numerator of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the rational number		Value range: 1 to 4294967295.	
Denominator	Denominator of the rational number	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
OperCycleTime	The operational value of the numerator of the CycleTime parameter for the gate.The numerator and denominator together represent the cycle time asa rational number of seconds	Data structure	Members include: • Numerator. • Denominator.	N/A
Numerator	Numerator of the rational number	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Denominator	Denominator of the rational number	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AdminCycleTimeExtension	An unsigned integer number of nanoseconds, defining the maximum amount of time by which the gating cycle for the gate is permitted to be extended when a new cycle configuration is being installed.	N/A	Unsigned integer. • Length: 32 bits.	N/A
OperCycleTimeExtension	An unsigned integer number of nanoseconds, defining the maximum amount of time by which the gating cycle for the gate is permitted to be extended when a new cycle configuration is being installed.	N/A	Unsigned integer. Length: 32 bits.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminBaseTime	The administrative value of the BaseTime parameter for the gate.The value is a representation of a PTP time value,consisting of a 48-bit integer number of seconds and a 32-bit integer number of nanoseconds.	Data structure	Members include: • Seconds. • Nanoseconds.	N/A
Seconds	The integer portion of the timestamp in units of seconds	N/A	Unsigned integer 64. The upper 16 bits are always zero	N/A
Nanoseconds	This is the fractional portion of the timestamp in units of nanoseconds	N/A	Unsigned integer 32.	N/A
OperBaseTime	The operational value of the BaseTime parameter for the gate.The value is a representation of a PTP time value,consisting of a 48-bit integer number of seconds and a 32-bit integer number of nanoseconds.	Data structure	Members include: • Seconds. • Nanoseconds.	N/A
Seconds	The integer portion of the timestamp in units of seconds	N/A	Unsigned integer 64. The upper 16 bits are always zero.	N/A
Nanoseconds	This is the fractional portion of the timestamp in units of nanoseconds	N/A	Unsigned integer 32.	N/A
CurrentTime	The current time maintained by the local	Data structure	Members include: • Seconds. • Nanoseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	system, expressed as a PTP timescale (see IEEE Std 802.1AS-2011).			
Seconds	The integer portion of the timestamp in units of seconds	N/A	Unsigned integer 64. The upper16 bits arealways zero.	N/A
Nanoseconds	This is the fractional portion of the timestamp in units of nanoseconds	N/A	Unsigned integer 32	N/A
TickGranularity	Characteristics of an implementation's cycle timer clock.	N/A	Unsigned interger32	N/A
ConfigChange	The parameter signals the start of a configuration change happens whether the port is ready to be copied into their corresponding operational parameters. This should only be done when the various administrative parameters are all set to appropriate values.	N/A	Boolean: • true • false	N/A
ConfigChangeTime	The time at which the next configuration change is scheduled to occur	Data structure	Members include: • Seconds • Nanoseconds	N/A
Seconds	The integer portion of the timestamp in units of seconds	N/A	Unsigned integer 64. The upper 16 bits are always zero.	N/A
Nanoseconds	The fractional portion of the	N/A	Unsigned integer 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	timestamp in units of nanoseconds			
ConfigPending	The ConfigChange parameter signals the start of a configuration change when it is set to TRUE, indicating that the administrative parameters for the Port are ready to be copied into their corresponding operational parameters. This should only be done when the various administrative parameters are all set to appropriate values.	N/A	Boolean: • true • false	N/A
ConfigChangeError	An error counter that is incremented if AdminBaseTime specifies a time in the past, and the current schedule is running.	N/A	Unsigned integer 64.	N/A
GateClosedDueToInvalidRxEnable	A value of TRUE indicates that the GateClosedDueToInvalidRx function is enabled; a value of FALSE indicates that the GateClosedDueToInvalidRx function is disabled.	N/A	Boolean: • true • false	N/A
GateClosedDueToInvalidRx	The dropped action on	N/A	Boolean: • true	If GateClosedDueToInval

Column name	Column description	Column type	Data type and restrictions	Remarks
	frames		• false	idRxEnable is TRUE, a value of TRUE in GateClosedDueToInvalidRx indicates that all frames are dropped (i.e., the gate behaves as if the operational stream gate state is Closed). If GateClosedDueToInvalidRx is FALSE, it has no effect. The default value of GateClosedDueToInvalidRx is FALSE; if any frame is discarded because the gate is in the Closed state, then GateClosedDueToInvalidRx is set TRUE.
GateClosedDueOctetsExceededEnable	A value of TRUE indicates that the GateClosedDueToOctetsExceeded function is enabled; a value of FALSE indicates that the GateClosedDueToOctetsExceeded function is disabled. The default value of GateClosedDueToOctetsExceed is FALSE.	N/A	Boolean: • true • false	N/A
GateClosedDueOctetsExceeded	The dropped action on frames	N/A	Boolean: • true • false	If GateClosedDueToOctetsExceededEnable is TRUE, a value of TRUE in GateClosedDueToOctetsExceeded indicates that all frames are dropped (i.e., the gate behaves as if the operational stream gate state is Closed). If GateClosedDueToOctetsExceeded is FALSE, it has no effect. The default value of GateClosedDueToOctetsExceeded is FALSE; if any frame is discarded because

Column name	Column description	Column type	Data type and restrictions	Remarks
				there are insufficient IntervalOctetsLeft, then GateClosedDueToOctetsExceeded is set TRUE

QCI/StreamGateInstances/StreamGateInstance/AdminControlList

This table provides QCI/StreamGateInstances/StreamGateInstance/AdminControlList configuration.

XML structure

See the XML structure of QCI/StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	AdminControlList
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminControlList	The administrative value of the gate control list for the Port	Sublist	N/A	For more information, see the QBV/Interfaces table.

QCI/StreamGateInstances/StreamGateInstance/OperControlList

This table provides QCI/StreamGateInstances/StreamGateInstance/OperControlList configuration.

XML structure

See the XML structure of QCI/ StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	OperControlList
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminControlList	The administrative value of the gate control list for the Port	Sublist	N/A	For more information, see the QBV/Interfaces table.

QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries

This table provides QCI/StreamGateInstances/StreamGateInstance/AdminControlList/GateControlEntries configuration.

XML structure

See the XML structure of QCI/StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	GateControlEntries
Table type	Multi-instance table
Row name	GateControlEntry
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Control list index	index	Unsigned integer. Length: 32 bits.	N/A
OperationName	The name of the operation for this entry.	N/A	0: SetGateStates 1-255: Reserved for future gate operations	N/A
TimeInterval	The number of nanoseconds	N/A	Unsigned integer. Length: 32 bits.	N/A
GateStateValue	The PSFPgateStatesValue indicates the desired gate state, open or closed, for the stream gate.	N/A	Enumeration. ● Closed 0x1 ● Open 0x2	N/A
IpvSpec	The IPV value indicates the IPV to be associated with frames that pass the gate.	N/A	Unsigned integer 32 Value range: 0 to 7.	N/A

QCI/StreamGateInstances/StreamGateInstance/OperControlList/GateControlEntries

This table provides QCI/StreamGateInstances/StreamGateInstance/OperControlList/GateControlEntries configuration.

XML structure

See the XML structure of QCI/StreamGateInstances.

Table description

Item	Description
Feature name	QCI
Table name	GateControlEntries
Table type	Multi-instance table
Row name	GateControlEntry

Restrictions	None
Support for row creation and deletion	No

QCI/FlowMeters

This table provides Qci stream meter instance configuration.

XML structure

```
<QCI>
  <FlowMeters>
    <MaxFlowMeterInstances></MaxFlowMeterInstances>
    <FlowMeterInstances>
      <FlowMeterInstance>
        <Index></Index>
        <CommittedInformationRate></CommittedInformationRate>
        <CommittedBurstSize></CommittedBurstSize>
        <ExcessInformationRate></ExcessInformationRate>
        <ExcessBurstSize></ExcessBurstSize>
        <CouplingFlag></CouplingFlag>
        <ColorMode></ColorMode>
        <DropOnYellow></DropOnYellow>
        <MarkAllFramesRedEnable></MarkAllFramesRedEnable>
        <MarkAllFramesRed></MarkAllFramesRed>
      </FlowMeterInstance>
    </FlowMeterInstances>
  </FlowMeters>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	FlowMeters
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxFlowMeterI	The maximum number of	N/A	Unsigned integer 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nstances	Flow Meter instances supported by this Bridge component.			
FlowMeterInstances	There is one Flow Meter Instance Table per Bridge component. Each table row contains a set of parameters that defines a single Flow Meter Instance. Tables can be created or removed dynamically in implementations that support dynamic configuration of Bridge components. Rows in the table can be created or removed dynamically in implementations that support dynamic configuration of flow meters.	Sublist	N/A	For more information, see the QCI/FlowMeters/FlowMeterInstances table.

QCI/FlowMeters/FlowMeterInstances

This table provides QCI/FlowMeter/FlowMeterInstances configuration.

XML structure

See the XML structure of QCI/FlowMeters.

Table description

Item	Description
Feature name	QCI
Table name	FlowMeterInstances
Table type	Multi-instance table
Row name	FlowMeterInstance

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	An integer table index that allows the Flow Meter to be referenced from Stream Filter Instance Table entries.	index	Unsigned integer. Length: 32 bits.	N/A
CommittedInformationRate	Committed information rate (CIR), in bits per second.	N/A	Unsigned integer64	N/A
CommittedBurstSize	Committed burst size (CBS), in octets.	N/A	Unsigned integer. Length: 32 bits.	N/A
ExcessInformationRate	Excess Information Rate (EIR), in bits per second.	N/A	Unsigned integer64	N/A
ExcessBurstSize	Excess burst size (EBS) per bandwidth profile flow, in octets.	N/A	Unsigned integer. Length: 32 bits.	N/A
CouplingFlag	Coupling flag (CF), which takes the value 0 or 1.	N/A	Enumeration. ● Uncoupled - 0x0 ● Coupled - 0x1	N/A
ColorMode	Color mode (CM), which takes the value color-blind or color-aware, as specified in Bandwidth Profile Parameters and Algorithm in MEF 10.3.	N/A	Enumeration. ● ColorBlind - 0x0 ● ColorAware – 0x1	N/A
DropOnYellow	DropOnYellow, which takes the value TRUE or FALSE. A value of TRUE indicates that	N/A	Boolean.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	yellow frames are dropped (i.e., discarded); a value of FALSE indicates that yellow frames will have the drop_eligible parameter set to TRUE.			
MarkAllFrames RedEnable	A value of TRUE indicates that the MarkAllFrames Red function is enabled; a value of FALSE indicates that the MarkAllFrames Red function is disabled.	N/A	Boolean. true false	N/A
MarkAllFrames Red	The dropped action of frames.	N/A	Boolean. true false	MarkAllFramesRed, which takes the value TRUE or FALSE. If MarkAllFramesRedEnable is TRUE, a value of TRUE in MarkAllFramesRed indicates that all frames are dropped (i.e., discarded). If MarkAllFramesRed is False, it has no effect. The default value of MarkAllFramesRed is FALSE; if the operation of the flow meter causes any frame to be discarded, then MarkAllFramesRed is set TRUE.

QCI/GlobalApplyFilter

This table provides global application of Qci filter.

XML structure

```
<QCI>
   <GlobalApplyFilter>
     <FilterList></FilterList>
```

```
    </GlobalApplyFilter>
</QCI>
```

Table description

Item	Description
Feature name	QCI
Table name	GlobalApplyFilter
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterList	Filters to be applied	N/A	Number string. It is a comma-separated list of filter IDs. An item can be an individual filter ID or a filter ID range. Use a hyphen (-) to separate the start and end filter of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

Contents

QoSSupplement 1
QoSSupplement/InterfaceOverheadCompensation 1
XML structure 1
Table description 1
Columns 1
QoSSupplement/UserProfileOverheadCompensation 2
XML structure 2
Table description 2
Columns 2

QoSSupplement

QoSSupplement/InterfaceOverheadCompensation

This table contains information about processing QoS in which the overhead compensation length of packets on an interface is considered.

XML structure

```
<QoSSupplement>
  <InterfaceOverheadCompensation>
    <CompensationEntry>
      <IfIndex></IfIndex>
      <Length></Length>
    </CompensationEntry>
  </InterfaceOverheadCompensation>
</QoSSupplement>
```

Table description

Item	Description
Feature name	QoSSupplement
Table name	InterfaceOverheadCompensation
Table type	Multi-instance table
Row name	CompensationEntry
Restrictions	Tunnel interface configuration is supported only.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Length	Compensation length	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 256.	

QoSSupplement/UserProfileOverheadCompensation

This table contains information about processing QoS in which the overhead compensation length of packets is considered.

XML structure

```
<QoSSupplement>
  <UserProfileOverheadCompensation>
    <CompensationEntry>
      <Name></Name>
      <Length></Length>
    </CompensationEntry>
  </UserProfileOverheadCompensation>
</QoSSupplement>
```

Table description

Item	Description
Feature name	QoSSupplement
Table name	UserProfileOverheadCompensation
Table type	Multi-instance table
Row name	CompensationEntry
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Length	Compensation	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	length		Value range: 1 to 256.	

Contents

QoSSupplement 1
QoSSupplement/InterfaceOverheadCompensation 1
XML structure 1
Table description 1
Columns 1
QoSSupplement/UserProfileOverheadCompensation 2
XML structure 2
Table description 2
Columns 2

QoSSupplement

QoSSupplement/InterfaceOverheadCompensation

This table contains information about processing QoS in which the overhead compensation length of packets on an interface is considered.

XML structure

```
<QoSSupplement>
  <InterfaceOverheadCompensation>
    <CompensationEntry>
      <IfIndex></IfIndex>
      <Length></Length>
    </CompensationEntry>
  </InterfaceOverheadCompensation>
</QoSSupplement>
```

Table description

Item	Description
Feature name	QoSSupplement
Table name	InterfaceOverheadCompensation
Table type	Multi-instance table
Row name	CompensationEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Length	Compensation length	N/A	Unsigned integer. Value range: 1 to 256.	N/A

QoSSupplement/UserProfileOverheadCompensation

This table contains information about processing QoS in which the overhead compensation length of packets is considered.

XML structure

```
<QoSSupplement>
  <UserProfileOverheadCompensation>
    <CompensationEntry>
      <Name></Name>
      <Length></Length>
    </CompensationEntry>
  </UserProfileOverheadCompensation>
</QoSSupplement>
```

Table description

Item	Description
Feature name	QoSSupplement
Table name	UserProfileOverheadCompensation
Table type	Multi-instance table
Row name	CompensationEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.
Length	Compensation length	N/A	Unsigned integer. Value range: 1 to 256.

Contents

QSTAT 1
QSTAT/QueueCounters 1
XML structure 1
Table description 1
Columns 1
QSTAT/ClearPacketCounters 2
XML structure 2
Table description 2
Columns 2
QSTAT/ClearUserQueues 3
XML structure 3
Table description 3
Columns 3

QSTAT

QSTAT/QueueCounters

This table contains information about queue-based traffic accounting.

XML structure

```
<QSTAT>
  <QueueCounters>
    <QueueCounter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <CountClear></CountClear>
    </QueueCounter>
  </QueueCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	QueueCounters
Table type	Multi-instance table
Row name	QueueCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	N/A	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
CountClear	Clears the counters	N/A	This column must be empty.	N/A

QSTAT/ClearPacketCounters

This table contains information about clearing interface packet statistics.

XML structure

```
<QSTAT>
  <ClearPacketCounters>
    <PacketCounter>
      <Direction></Direction>
      <IfIndex></IfIndex>
      <CountClear></CountClear>
    </PacketCounter>
  </ClearPacketCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	ClearPacketCounters
Table type	Multi-instance table
Row name	PacketCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—Both.	N/A
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CountClear	Clears the counters	N/A	This column must be empty.	N/A

QSTAT/ClearUserQueues

This table contains information about clearing user packet statistics.

XML structure

```
<QSTAT>
  <ClearUserQueues>
    <ClearUserQueue>
      <UserID></UserID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
    </ClearUserQueue>
  </ClearUserQueues>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	ClearUserQueues
Table type	Multi-instance table
Row name	ClearUserQueue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer.	N/A
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A

Contents

QSTAT 1
QSTAT/QueueCounters 1
XML structure 1
Table description 1
Columns 1
QSTAT/PacketCounters 1
XML structure 2
Table description 2
Columns 2

QSTAT

QSTAT/QueueCounters

This table contains information about queue-based traffic accounting.

XML structure

```
<QSTAT>
  <QueueCounters>
    <QueueCounter>
      <Direction></Direction>
      <Counting></Counting>
    </QueueCounter>
  </QueueCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	QueueCounters
Table type	Multi-instance table
Row name	QueueCounter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Counting	Whether to enable queue-based traffic accounting	N/A	Boolean: • **true**—Enable (default). • **false**—Disable.	N/A

QSTAT/PacketCounters

This table contains information about enabling interface packet statistics collection.

XML structure

```
<QSTAT>
  <PacketCounters>
    <PacketCounter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <StatType></StatType>
    </PacketCounter>
  </PacketCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	PacketCounters
Table type	Multi-instance table
Row name	PacketCounter
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
StatType	Statistics type	N/A	Unsigned integer. Value range: 1 to 7.	The statistics types supported can be customized by the product. The value of each statistics type is as follows: • **1**—ECN. • **2**—DSCP. • **4**—DOT1P.

Column name	Column description	Column type	Data type and restrictions	Remarks
				To specify any combination of the three statistics types, enter the sum of their values.

Contents

QSTAT 1
QSTAT/QueueCounters 1
XML structure 1
Table description 1
Columns 1
QSTAT/InterfaceStat 1
XML structure 2
Table description 2
Columns 2
QSTAT/QueueStat 3
XML structure 3
Table description 4
Columns 5
QSTAT/PacketCounters 7
XML structure 7
Table description 8
Columns 8
QSTAT/PacketStat 8
XML structure 8
Table description 9
Columns 9
QSTAT/UserStat 10
XML structure 10
Table description 11
Columns 11
QSTAT/UserQueueStat 12
XML structure 12
Table description 13
Columns 13

QSTAT

QSTAT/QueueCounters

This table contains information about queue-based traffic accounting.

XML structure

```
<QSTAT>
  <QueueCounters>
    <QueueCounter>
      <Direction></Direction>
      <Counting></Counting>
    </QueueCounter>
  </QueueCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	QueueCounters
Table type	Multi-instance table
Row name	QueueCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Counting	Whether to enable queue-based traffic accounting	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

QSTAT/InterfaceStat

This table contains total queue statistics of interfaces.

XML structure

```
<QSTAT>
  <InterfaceStat>
    <Statistics>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PassPacket></PassPacket>
      <PassByte></PassByte>
      <DropPacket></DropPacket>
      <DropByte></DropByte>
      <Passpps></Passpps>
      <Passbps></Passbps>
      <Droppps></Droppps>
      <Dropbps></Dropbps>
      <AgingPacket></AgingPacket>
      <AgingByte></AgingByte>
      <CurrQueLenByte></CurrQueLenByte>
      <PeakQueSize></PeakQueSize>     <IfName></IfName>
    </Statistics>
  </InterfaceStat>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	SumStat
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PassPacket	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassByte	Number of passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropPacket	Number of dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropByte	Number of dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Passpps	Packet forwarding rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Passbps	Packet forwarding rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Droppps	Packet drop rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Dropbps	Packet drop rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AgingPacket	Number of aged packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AgingByte	Number of aged bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
CurrQueLenByte	Current length(in bytes) of all queues	N/A	Unsigned integer.	N/A
PeakQueSize	Total peak size(in bytes) of all queues	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

QSTAT/QueueStat

This table contains per-queue statistics of interfaces.

XML structure

```
<QSTAT>
  <QueueStat>
    <Statistics>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <QueueID></QueueID>
      <PassPkt></PassPkt>
```

```
      <PassByte></PassByte>
      <DropPkt></DropPkt>
      <DropByte></DropByte>
      <GreenPassPkt></GreenPassPkt>
      <GreenPassByte></GreenPassByte>
      <GreenDropPkt></GreenDropPkt>
      <GreenDropByte></GreenDropByte>
      <YellowPassPkt></YellowPassPkt>
      <YellowPassByte></YellowPassByte>
      <YellowDropPkt></YellowDropPkt>
      <YellowDropByte></YellowDropByte>
      <RedPassPkt></RedPassPkt>
      <RedPassByte></RedPassByte>
      <RedDropPkt></RedDropPkt>
      <RedDropByte></RedDropByte>
      <PacketRate></PacketRate>
      <BitRate></BitRate>
      <Droppps></Droppps>
      <Dropbps></Dropbps>
      <GreenPasspps></GreenPasspps>
      <GreenPassbps></GreenPassbps>
      <GreenDroppps></GreenDroppps>
      <GreenDropbps></GreenDropbps>
      <YellowPasspps></YellowPasspps>
      <YellowPassbps></YellowPassbps>
      <YellowDroppps></YellowDroppps>
      <YellowDropbps></YellowDropbps>
      <RedPasspps></RedPasspps>
      <RedPassbps></RedPassbps>
      <RedDroppps></RedDroppps>
      <RedDropbps></RedDropbps>
      <PeakPacketRate></PeakPacketRate>
      <PeakBitRate></PeakBitRate>
      <TotalQueLen></TotalQueLen>
      <TotalQueLenByte></TotalQueLenByte>
      <CurrQueLen></CurrQueLen>
      <CurrQueLenByte></CurrQueLenByte>
      <QueUseRatio></QueUseRatio>
      <QuePeakSize></QuePeakSize>     <IfName></IfName>
    </Statistics>
  </QueueStat>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	QueueStat

Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
QueueID	Queue ID	Index	Unsigned integer.	N/A
PassPkt	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassByte	Number of passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropPkt	Number of dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropByte	Number of dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassPkt	Number of green passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassByte	Number of green passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropPkt	Number of green dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropByte	Number of green dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassPkt	Number of yellow passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassByte	Number of yellow passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropPkt	Number of yellow dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropByte	Number of yellow dropped	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bytes		Value range: 0 to 2^{64} - 1.	
RedPassPkt	Number of red passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPassByte	Number of red passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDropPkt	Number of red dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDropByte	Number of red dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketRate	Rate of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
BitRate	Rate of passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Droppps	Packet drop rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Dropbps	Packet drop rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPasspps	Green packet forwarding rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassbps	Green packet forwarding rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDroppps	Green packet drop rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropbps	Green packet drop rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPasspps	Yellow packet forwarding rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassbps	Yellow packet forwarding rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDroppps	Yellow packet drop rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropbps	Yellow packet drop rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPasspps	Red packet forwarding rate in pps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPassbps	Red packet forwarding rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDroppps	Red packet drop	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	rate in pps		Value range: 0 to 2^{64} - 1.	
RedDropbps	Red packet drop rate in bps	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakPacketRate	Peak rate of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakBitRate	Peak rate of passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
TotalQueLen	Total length of the queue	N/A	Unsigned integer.	N/A
TotalQueLenByte	Total length (in bytes) of the queue	N/A	Unsigned integer.	N/A
CurrQueLen	Current length of the queue	N/A	Unsigned integer.	N/A
CurrQueLenByte	Current length (in bytes) of the queue	N/A	Unsigned integer.	N/A
QueUseRatio	Queue usage ratio	N/A	Unsigned integer.	N/A
QuePeakSize	Peak size (in bytes) of the queue	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

QSTAT/PacketCounters

This table contains information about enabling interface packet statistics collection.

XML structure

```
<QSTAT>
  <PacketCounters>
    <PacketCounter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <StatType></StatType>
    </PacketCounter>
  </PacketCounters>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	PacketCounters
Table type	Multi-instance table
Row name	PacketCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound • **1**—Outbound.	N/A
StatType	Statistics type	N/A	Unsigned integer. Value range: 1 to 7.	N/A

QSTAT/PacketStat

This table contains packet statistics of interfaces.

XML structure

```
<QSTAT>
  <PacketStat>
    <Statistics>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <StatValue></StatValue>
      <Packets></Packets>
      <Bytes></Bytes>
      <IfName></IfName>
    </Statistics>
  </PacketStat>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	PacketStat
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
StatValue	Statistics type value	Index	Unsigned integer.	Currently only DSCP, ECN, and DSCP+ECN combined statistics types are supported. DSCP occupies 6 bits. ECN occupies 2 bits. DSCP+ECN: ECN is represented by lower 2 bits, and DSCP is represented by the higher 6 bits. If you have specified the DSCP+ECN combined statistics type, you can specify the following statistics type values: • 0—DSCP(value:0), ECN(value:0) • 1—DSCP(value:0),ECN(value:1) • 2—DSCP(value:0),ECN(value:2) • 3—DSCP(value:0),ECN(value:3) • 4—DSCP(value:1), ECN(0) • 5—DSCP(value:1),

Column name	Column description	Column type	Data type and restrictions	Remarks
				ECN(value:1) • 6—DSCP(value:1), ECN(value:2) • …… • 255—DSCP(value:63), ECN(value:3).
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Number of bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

QSTAT/UserStat

This table contains total queue statistics of users.

XML structure

```
<QSTAT>
  <UserStat>
    <Statistics>
      <UserID></UserID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
      <PassPacket></PassPacket>
      <PassByte></PassByte>
      <DropPacket></DropPacket>
      <DropByte></DropByte>
      <Passpps></Passpps>
      <Passbps></Passbps>
      <Droppps></Droppps>
      <Dropbps></Dropbps>
      <AgingPacket></AgingPacket>
      <AgingByte></AgingByte>
      <CurrQueLenByte></CurrQueLenByte>
      <PeakQueSize></PeakQueSize>
    </Statistics>
  </UserStat>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	UserStat
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer.	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
PassPacket	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassByte	Number of passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropPacket	Number of dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropByte	Number of dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Passpps	Rate of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Passbps	Rate of passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Droppps	Rate of dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Dropbps	Rate of dropped bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AgingPacket	Number of aged packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
AgingByte	Number of aged bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CurrQueLenByte	Current length(in bytes) of all queues	N/A	Unsigned integer.	N/A
PeakQueSize	Total peak size(in bytes) of all queues	N/A	Unsigned integer.	N/A

QSTAT/UserQueueStat

This table contains per-queue statistics of users.

XML structure

```
<QSTAT>
  <UserQueueStat>
    <Statistics>
      <UserID></UserID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Direction></Direction>
      <QueueID></QueueID>
      <PassPkt></PassPkt>
      <PassByte></PassByte>
      <DropPkt></DropPkt>
      <DropByte></DropByte>
      <GreenPassPkt></GreenPassPkt>
      <GreenPassByte></GreenPassByte>
      <GreenDropPkt></GreenDropPkt>
      <GreenDropByte></GreenDropByte>
      <YellowPassPkt></YellowPassPkt>
      <YellowPassByte></YellowPassByte>
      <YellowDropPkt></YellowDropPkt>
      <YellowDropByte></YellowDropByte>
      <RedPassPkt></RedPassPkt>
      <RedPassByte></RedPassByte>
      <RedDropPkt></RedDropPkt>
      <RedDropByte></RedDropByte>
      <PacketRate></PacketRate>
      <GreenPasspps></GreenPasspps>
      <GreenPassbps></GreenPassbps>
      <GreenDroppps></GreenDroppps>
      <GreenDropbps></GreenDropbps>
      <YellowPasspps></YellowPasspps>
      <YellowPassbps></YellowPassbps>
      <YellowDroppps></YellowDroppps>
```

```
      <YellowDropbps></YellowDropbps>
      <RedPasspps></RedPasspps>
      <RedPassbps></RedPassbps>
      <RedDroppps></RedDroppps>
      <RedDropbps></RedDropbps>
      <BitRate></BitRate>
      <PeakPacketRate></PeakPacketRate>
      <PeakBitRate></PeakBitRate>
      <TotalQueLen></TotalQueLen>
      <TotalQueLenByte></TotalQueLenByte>
      <CurrQueLen></CurrQueLen>
      <CurrQueLenByte></CurrQueLenByte>
      <QueUseRatio></QueUseRatio>
      <QuePeakSize></QuePeakSize>
    </Statistics>
  </UserQueueStat>
</QSTAT>
```

Table description

Item	Description
Feature name	QSTAT
Table name	UserQueueStat
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer.	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
QueueID	Queue ID	Index	Unsigned integer.	N/A
PassPkt	Number of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PassByte	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	passed bytes		Value range: 0 to 2^{64} - 1.	
DropPkt	Number of dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropByte	Number of dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassPkt	Number of green passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassByte	Number of green passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropPkt	Number of green dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropByte	Number of green dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassPkt	Number of yellow passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassByte	Number of yellow passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropPkt	Number of yellow dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropByte	Number of yellow dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPassPkt	Number of red passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPassByte	Number of red passed bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDropPkt	Number of red dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDropByte	Number of red dropped bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPasspps	Rate of green passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenPassbps	Rate of green passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDroppps	Rate of green dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenDropbps	Rate of green dropped bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPasspps	Rate of yellow passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPassbps	Rate of yellow passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowDroppps	Rate of yellow dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowDropbps	Rate of yellow dropped bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPasspps	Rate of red passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPassbps	Rate of red passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDroppps	Rate of red dropped packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedDropbps	Rate of red dropped bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PacketRate	Rate of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
BitRate	Rate of passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakPacketRate	Peak rate of passed packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
PeakBitRate	Peak rate of passed bits	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
TotalQueLen	Total length of the queue	N/A	Unsigned integer.	N/A
TotalQueLenByte	Total length (in bytes) of the queue	N/A	Unsigned integer.	N/A
CurrQueLen	Current length of the queue	N/A	Unsigned integer.	N/A
CurrQueLenByte	Current length (in bytes) of the queue	N/A	Unsigned integer.	N/A
QueUseRatio	Queue usage ratio	N/A	Unsigned integer.	N/A
QuePeakSize	Peak size (in bytes) of the queue	N/A	Unsigned integer.	N/A

Contents

Radius 1
Radius/AuthServerState 1
XML structure 1
Table description 1
Columns 1
Radius/AcctServerState 2
XML structure 2
Table description 2
Columns 3
Radius/ClearAllStatistic 3
XML structure 3
Table description 4
Columns 4

Radius

Radius/AuthServerState

RADIUS authentication server status table.

XML structure

```
<Radius>
  <AuthServerState>
    <VRF></VRF>
    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <State></State>
  </AuthServerState>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServerState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS authentication server address.	Index NULL is allowed.	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS authentication server.	Index NULL is allowed.	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1,

Column name	Column description	Column type	Data type and restrictions	Remarks
			HostName: String of 1 to 253 characters.	this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS authentication server.	Index NULL is allowed.	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
State	Status of the RADIUS authentication server.	N/A	Enumeration: • **0**—Active • **1**—Block	Default: 0.

Radius/AcctServerState

RADIUS accounting server status table.

XML structure

```
<Radius>
  <AcctServerState>
    <VRF></VRF>
    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <State></State>
  </AcctServerState>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctServerState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS accounting server address.	Index NULL is allowed.	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS accounting server.	Index NULL is allowed.	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS accounting server.	Index NULL is allowed.	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
State	Status of the RADIUS accounting server.	N/A	Enumeration: • **0**—Active • **1**—Block	Default: 0.

Radius/ClearAllStatistic

Clear all RADIUS statistics.

XML structure

```
<Radius>
  <CleanAllSatistic>
    <Clear></Clear>
  </CleanAllSatistic>
```

```
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all RADIUS statistics.	N/A	This column must be empty.

Contents

Radius 1

Radius/Trap 1
XML structure 1
Table description 1
Columns 1
Radius/Dscp 3
XML structure 3
Table description 3
Columns 4
Radius/RadiusServerPolicy 4
XML structure 4
Table description 4
Columns 4
Radius/StopAcctBuffer 5
XML structure 5
Table description 5
Columns 5
Radius/AcctCache 6
XML structure 6
Table description 6
Columns 6
Radius/Client/GlobalNasIps 6
XML structure 7
Table description 7
Columns 7
Radius/Client/GlobalNasIpIf 8
XML structure 8
Table description 8
Columns 8
Radius/Client/ServerTestProfiles 8
XML structure 8
Table description 9
Columns 9
Radius/Client/Schemes 10
XML structure 10
Table description 11
Columns 11
Radius/Client/AuthServers 18
XML structure 18
Table description 18
Columns 18
Radius/Client/AcctServers 20
XML structure 20
Table description 20
Columns 20
Radius/Client/MicroSegments 22
XML structure 22
Table description 22
Columns 22
Radius/Client/ConvertAttrs 23
XML structure 23
Table description 23
Columns 23
Radius/Client/RejectAttrs 24
XML structure 25
Table description 25
Columns 25

Radius/Client/ReplyMessageRules 26
XML structure 26
Table description 26
Columns 27
Radius/Server/SessCtrlService 27
XML structure 27
Table description 27
Columns 28
Radius/Server/SessCtrlClients 28
XML structure 28
Table description 28
Columns 29
Radius/Server/DaeService 29
XML structure 29
Table description 30
Columns 30
Radius/Server/DaeClients 30
XML structure 30
Table description 31
Columns 31
Radius/ReportDualNasIp 32
XML structure 32
Table description 32
Columns 32

Radius

Radius/Trap

SNMP notification information table of RADIUS.

XML structure

```
<Radius>
  <Trap>
    <AuthErrThreshold></AuthErrThreshold>
    <Switchs>
      <AuthServerDown></AuthServerDown>
      <AuthServerUp></AuthServerUp>
      <AcctServerDown></AcctServerDown>
      <AcctServerUp></AcctServerUp>
      <AuthErrReachThreshold></AuthErrReachThreshold>
      <AcctCacheDiscard></AcctCacheDiscard>
      <AcctCacheLowerlimit></AcctCacheLowerlimit>
      <AcctCacheUpperlimit></AcctCacheUpperlimit>
    </Switchs>
  </Trap>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthErrThreshold	The threshold for authentication failure notification	N/A	Unsigned integer. Value range: 1 to 100.	Default threshold: 30. An authentication failure notification will be sent if the number of authentication failures compared to the total number of

Column name	Column description	Column type	Data type and restrictions	Remarks
				authentication attempts exceeds the specified threshold. This column is not supported to configure at present.
Switchs	Whether to enable each type of notification	Data structure	Members include: • AuthServerDown. • AuthServerUp. • AcctServerDown. • AcctServerUp. • AuthErrReachThreshold. • AcctCacheDiscard. • AcctCacheLowerlimit. • AcctCacheUpperlimit.	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: • true • false	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: • true • false	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: • true • false	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: • true • false	Default: false.
AuthErrReachThreshold	Whether to send a notification when the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold	N/A	Boolean: • true • false	Default: false.
AcctCacheDiscard	Whether to send a notification when a RADIUS stop-accounting packet is discarded because the	N/A	Boolean: • true • false	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	memory usage has reached the minor alarm threshold			
AcctCacheLowerlimit	Whether to send a notification when the ratio of the number of buffered stop-accounting packets to the maximum number drops below the lower threshold	N/A	Boolean: • true • false	Default: false.
AcctCacheUpperlimit	Whether to send a notification when the ratio of the number of buffered stop-accounting packets to the maximum number reaches the upper threshold	N/A	Boolean: • true • false	Default: false.

Radius/Dscp

The DSCP priority of RADIUS packets.

XML structure

```
<Radius>
  <Dscp>
    <Ipv4></Ipv4>
    <Ipv6></Ipv6>
  </Dscp>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Radius/RadiusServerPolicy

This table contains parameters for periodically checking the status of RADIUS authentication servers.

XML structure

```
<Radius>
  <RadiusServerPolicy>
    <AuthenStateCheckInterval></AuthenStateCheckInterval>
  </RadiusServerPolicy>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	RadiusServerPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenStateCheckInterval	Interval for checking the status of RADIUS authentication servers	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	Default: 10 minutes.

Radius/StopAcctBuffer

This table contains information about discarding RADIUS stop-accounting packets.

XML structure

```
<Radius>
  <StopAcctBuffer>
    <MaxCacheNumber></MaxCacheNumber>
    <OverwriteOldest>
      <Exceed></Exceed>
      <MemoryThreshold></MemoryThreshold>
    </OverwriteOldest>
  </StopAcctBuffer>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	StopAcctBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxCacheNumber	Maximum number of RADIUS stop-accounting packets that can be buffered	N/A	Unsigned integer. Value range: 256 to 2147483647.	N/A
Exceed	Action to take after the number of buffered stop-accounting packets reaches the upper limit	N/A	Boolean: • **true**—Discards the oldest buffered packet to make room for a new buffered packet. • **false**—Discards new stop-accounting packets.	Default: false.
MemoryThreshold	Action to take after the memory usage reaches the minor alarm		Boolean: • **true**—Discards the oldest buffered packet to make room for a new	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	threshold		buffered packet. • **false**—Discards new stop-accounting packets.	

Radius/AcctCache

This table contains information about the thresholds for the ratio of the number of buffered stop-accounting packets to the maximum number.

XML structure

```
<Radius>
  <AcctCache>
    <CacheWarningThreshold>
      <UpperLimit></UpperLimit>
      <LowerLimit></LowerLimit>
    </CacheWarningThreshold>
  </AcctCache>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctCache
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UpperLimit	Upper threshold for the ratio of the number of buffered RADIUS stop-accounting packets to the maximum number	N/A	Unsigned integer. Value range: 1 to 100.
LowerLimit	Lower threshold for the ratio of the number of buffered RADIUS stop-accounting packets to the maximum number	N/A	Unsigned integer. Value range: 0 to 99.

Radius/Client/GlobalNasIps

RADIUS global NAS IP information table.

XML structure

```
<Radius>
  <Client>
    <GlobalNasIps>
      <GlobalNasIp>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </GlobalNasIp>
    </GlobalNasIps>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	A maximum of 16 global NAS IP addresses are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS servers are on the public network.
IpType	Type of the source IP address for outgoing RADIUS packets	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	Source IP address for outgoing RADIUS packets	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents an IPv4 address. For example, 1.0.0.1. If the IpType value is 1, this column represents an IPv6 address. For example, 2001:12::1:2.

Radius/Client/GlobalNasIpIf

This table contains the global source interface of outgoing RADIUS packets.

XML structure

```
<Radius>
  <Client>
    <GlobalNasIpIf>
      <IfIndex></IfIndex>
    </GlobalNasIpIf>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIpIf
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Index of the interface that provides the source IP address of outgoing RADIUS packets	N/A	Unsigned integer.

Radius/Client/ServerTestProfiles

The test profile table for RADIUS server status detection.

XML structure

```
<Radius>
  <Client>
    <ServerTestProfiles>
      <ServerTestProfile>
        <ProfileName></ProfileName>
        <UserName></UserName>
        <UserPassword></UserPassword>
```

```
      <TimeUnitage></TimeUnitage>
      <Interval></Interval>
      <IntervalSec></IntervalSec>
      <ProbeCount></ProbeCount>
    </ServerTestProfile>
  </ServerTestProfiles>
 </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ServerTestProfiles
Table type	Multi-instance table
Row name	ServerTestProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the RADIUS test profile	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
UserName	User name for the RADIUS test profile	N/A	String, case-sensitive. Length: 1 to 253 characters.	This column is required.
UserPassword	User password in the test packets	N/A	String, case-sensitive. Length: 1 to 63 characters.	The user password is in plain text.
TimeUnitage	Measurement unit of the interval for sending test packets	N/A	Enumeration: • **0**—Minute. • **1**—Second.	Default: 0.
Interval	Period for sending test packets	N/A	Unsigned integer. Value range: 1 to 3600, in minutes.	Default: 60 minutes.
IntervalSec	Period for sending test packets	N/A	Unsigned integer. Value range: 10 to 216000, in seconds.	N/A
ProbeCount	Number of consecutive probes used by the system to determine the	N/A	Unsigned integer. Value range: 1 to 10.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	server status			

Radius/Client/Schemes

RADIUS scheme table.

XML structure

```
<Radius>
  <Client>
    <Schemes>
      <Scheme>
        <SchemeName></SchemeName>
        <TimeUnitage></TimeUnitage>
        <RealAcctInterval></RealAcctInterval>
        <RealAcctIntervalMethod></RealAcctIntervalMethod>
        <TimeOut></TimeOut>
        <QuietTime></QuietTime>
        <PktRetryTimes></PktRetryTimes>
        <RealAcctRetryTimes></RealAcctRetryTimes>
        <StopAcctRetryTimes></StopAcctRetryTimes>
        <UserNameFormat></UserNameFormat>
        <BytesUnit></BytesUnit>
        <PacketsUint></PacketsUint>
        <NasIpv4Address></NasIpv4Address>
        <NasIpv6Address></NasIpv6Address>
        <SourceIpv4Address></SourceIpv4Address>
        <SourceIpv6Address></SourceIpv6Address>
        <AuthenKey></AuthenKey>
        <AcctKey></AcctKey>
        <VRF></VRF>
        <ClassType></ClassType>
        <AcctOnEnable></AcctOnEnable>
        <AcctOnSendInterval></AcctOnSendInterval>
        <AcctOnSendTimes></AcctOnSendTimes>
        <ChangePassword></ChangePassword>
        <StopAcctPktSendForce></StopAcctPktSendForce>
        <TranslateEnable></TranslateEnable>
        <StopAcctBufEnable></StopAcctBufEnable>
        <ThresholdRemanVol></ThresholdRemanVol>
        <UserNameAuthorApply></UserNameAuthorApply>
        <AuthenRespPendLimit></AuthenRespPendLimit>
        <AcctRespPendLimit></AcctRespPendLimit>
        <BlockAction></BlockAction>
        <LoadShareEnable></LoadShareEnable>
```

```
        <LoadShareMode></LoadShareMode>
        <Attr5QinQ></Attr5QinQ>
        <Attrs182ConvertVLAN></Attrs182ConvertVLAN>
        <Attr15LooseCheck></Attr15LooseCheck>
        <Attr31MacFormat>
          <SectionNum></SectionNum>
          <SeparatorCharacter></SeparatorCharacter >
          <UpperCase></UpperCase>
        </Attr31MacFormat>
        <Attr85Priority></Attr85Priority>
        <DhcpOptionEnable></DhcpOptionEnable>
        <DhcpOptionFormat></DhcpOptionFormat>
        <IncludeDhcpOption55></IncludeDhcpOption55>
        <IncludeDhcpOption61></IncludeDhcpOption61>
        <DrniLocalNasIpv4Address></DrniLocalNasIpv4Address>
        <DrniLocalNasIpv6Address></DrniLocalNasIpv6Address>
        <DrniPeerNasIpv4Address></DrniPeerNasIpv4Address>
        <DrniPeerNasIpv6Address></DrniPeerNasIpv6Address>
        <MLagLocalNasIpv4Address></MLagLocalNasIpv4Address>
        <MLagLocalNasIpv6Address></MLagLocalNasIpv6Address>
        <MLagPeerNasIpv4Address></MLagPeerNasIpv4Address>
        <MLagPeerNasIpv6Address></MLagPeerNasIpv6Address>
      </Scheme>
    </Schemes>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The device supports a maximum of 16 RADIUS schemes.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
TimeUnitage	Measurement unit of the	N/A	Enumeration:	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
	interval for sending realtime accounting packets		• **0**—Minute. • **1**—Second.	
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 71582.	Default: 12 minutes. Zero indicates that the device does not send realtime accounting packets to the RADIUS accounting server. The unit of the realtime accounting interval is set through the TimeUnitage column. If the TimeUnitage column is not set, the unit is minute. After the realtime accounting interval is set, only deleting the TimeUnitage column does not affect the interval.
RealAcctIntervalMethod	Realtime accounting packet processing method	N/A	Enumeration: • **Keep**—Standard realtime accounting packet processing. **Hash**—Runs hash to scatter realtime-accounting packets.	Default: Keep.
TimeOut	RADIUS server response timeout period	N/A	Unsigned integer. Value range: 1 to 10, in seconds.	Default: 3 seconds.
QuietTime	Quiet timer for the servers specified in the RADIUS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes.
PktRetryTimes	Max number of attempts to send a RADIUS packet to a single RADIUS server	N/A	Unsigned integer. Value range: 1 to 20.	Default: 3.
RealAcctRetryTimes	Max number of realtime accounting attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 5.
StopAcctRetryTimes	Max number of stop accounting attempts	N/A	Unsigned integer. Value range: 10 to 65535.	Default: 500.
UserNameFormat	Format of user names to be sent to RADIUS servers	N/A	Enumeration: • **0**—keep-original. • **1**—with-domain. • **2**—without-domain.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: • **0**—byte. • **1**—kilo-byte. • **2**—mega-byte. • **3**—giga-byte.	Default: 0.
PacketsUint	Packet measurement unit for traffic statistics	N/A	Enumeration: • **0**—one-packet. • **1**—kilo-packet. • **2**—mega-packet. • **3**—giga-packet.	Default: 0.
NasIpv4Address	NAS IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	NAS IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
SourceIpv4Address	Source IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
SourceIpv6Address	Source IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
AuthenKey	Authentication shared key	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
AcctKey	Accounting shared key	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
VRF	VPN instance name for the	N/A	String, case-sensitive.	If this column is empty, the RADIUS servers

Column name	Column description	Column type	Data type and restrictions	Remarks
	RADIUS scheme		Length: 0 to 31 characters.	are on the public network.
ClassType	Whether to interpret the RADIUS class attribute (attribute 25) as CAR parameters	N/A	Enumeration: • **0**—Standard. • **1**—CAR.	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: • true. • false.	Default: false.
AcctOnSendInterval	Interval for retransmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 15, in seconds.	Default: 3 seconds. Only when the AcctOnEnable column is true, this column is effective.
AcctOnSendTimes	Max number of accounting-on packet transmission attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 50. Only when the AcctOnEnable column is true, this column is effective.
ChangePassword	Whether to enable the online password change feature	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Default: 0.
StopAcctPktSendForce	Whether to send stop-accounting packets when users for which no start-accounting packets are sent go offline	N/A	Boolean: • true. • false.	Default: false.
TranslateEnable	Whether to enable the attribute translation feature	N/A	Boolean: • true. • false.	Default: false.
StopAcctBufEnable	Whether to enable buffering of RADIUS stop-accounting requests to which no responses have been received	N/A	Boolean: • true. • false.	Default: true.
ThresholdRemanVol	Available data threshold	N/A	Unsigned integer. Value range: 0 to 4294967295.	Default: 0.
UserNameAuthorApply	Whether to use server-assigned usernames for AAA processes subsequent to	N/A	Boolean: • true. • false.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication			
AuthenRespPendLimit	Max number of authentication requests to which no responses have been received from the authentication servers	N/A	Unsigned integer. Value range: 1 to 255.	N/A
AcctRespPendLimit	Max number of accounting requests to which no responses have been received from the accounting servers	N/A	Unsigned integer. Value range: 1 to 255.	N/A
BlockAction	Request action after all RADIUS servers are in blocked state	N/A	Enumeration: • **0**—Attempts to connect to the server with the highest priority. **1**— Skips all servers in the scheme and turns to the backup method.	Default:0
LoadShareEnable	Whether to enable RADIUS server load sharing	N/A	Enumeration: • **0**—The feature is disabled. The device forwards traffic to the server selected based on primary and secondary server roles. **1**—The feature is enabled. The device distributes traffic among multiple servers for load sharing.	Default: 0.
LoadShareMode	Load sharing mode of RADIUS authentication servers	N/A	Enumeration: • **0**—Session-based. **1**—Packet-based.	Default: 0.
Attr5QinQ	Whether to enable QinQ encapsulation format for the RADIUS NAS-Port attribute (attribute 5)	N/A	Boolean: • true. false.	Default: false.
Attrs182ConvertVLAN	Whether to interpret the H3C-Microsegment-Id attribute as an authorization VLAN	N/A	Boolean: • true. • false.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Attr15LooseCheck	Whether to enable loose check mode for RADIUS attribute 15	N/A	Boolean: • true. false.	Default: false.
Attr31MacFormat	MAC address format of RADIUS attribute 31	Data structure	Members include: • SectionNum. • SeparatorCharacter. UpperCase.	N/A
SectionNum	Number of sections that a MAC address contains	N/A	Enumeration: • **6**—Six. **3**—Three.	Default: 6.
SeparatorCharacter	Character that separates the sections in a MAC address	N/A	String, case-sensitive. Length: 1 character.	Default: Hyphen (-).
UpperCase	Whether letters in a MAC address are in upper case	N/A	Boolean: • true. false.	Default: true.
Attr85Priority	Configure the device to prefer the real-time accounting interval assigned by the RADIUS server through the RADIUS Acct-Interim-Interval attribute (attribute 85)	N/A	Boolean: • true. false.	Default: false.
DhcpOptionEnable	Whether to include the H3C-DHCP-Option attribute in RADIUS request packets	N/A	Boolean: • true. false	Default: true.
DhcpOptionFormat	H3C-DHCP-Option attribute format	N/A	Enumeration: • **0**—Format 1 of the attribute with a 1-byte Type field. • **1**—Format 2 of the attribute with a 2-byte Type field.	Default: 0.
Include DhcpOption55	Whether to include H3C-DHCP-Option attribute with DHCP option 55 information in RADIUS request packet	N/A	Boolean: • true. • false.	Default: false.
Include	Whether to	N/A	Boolean:	Default: true.

Column name	Column description	Column type	Data type and restrictions	Remarks
DhcpOption61	include H3C-DHCP-Option attribute with DHCP option 61 information in RADIUS request packet		• true. • false.	
DrniLocalNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of local DR users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
DrniLocalNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of local DR users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
DrniPeerNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of peer DR users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
DrniPeerNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of peer DR users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
MLagLocalNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of local MLAG users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
MLagLocalNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of local MLAG users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
MLagPeerNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of peer MLAG users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
MLagPeerNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of peer MLAG users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.

Radius/Client/AuthServers

RADIUS authentication server table.

XML structure

```
<Radius>
  <Client>
    <AuthServers>
      <AuthServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Key></Key>
        <Weight></Weight>
        <SvrTestProfileName></SvrTestProfileName>
      </AuthServer>
    </AuthServers>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can create one primary authentication server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authentication	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			server. • **1**—Secondary authentication server.	
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS server is on the public network.
IpType	Type of the RADIUS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
Key	Shared key of RADIUS authentication packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
Weight	Weight of the RADIUS server for load sharing	N/A	Unsigned short. Value range: 0 to 100.	Default: 0.
SvrTestProfileName	Name of the test profile	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Radius/Client/AcctServers

RADIUS accounting server table.

XML structure

```
<Radius>
  <Client>
    <AcctServers>
      <AcctServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Key></Key>
        <Weight></Weight>
      </AcctServer>
    </AcctServers>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can create one primary accounting server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary accounting server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Secondary accounting server.	
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS server is on the public network.
IpType	Type of the RADIUS accounting server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
Key	Shared key of RADIUS accounting packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
Weight	Weight of the RADIUS server for load sharing	N/A	Unsigned short. Value range: 0 to 100.	Default: 0.

Radius/Client/MicroSegments

This table contains microsegment information for RADIUS schemes.

XML structure

```
<Radius>
  <Client>
    <MicroSegments>
      <MicroSegment>
        <SchemeName></SchemeName>
        <MicroSegmentID></MicroSegmentID>
        <VSIName></VSIName>
      </MicroSegment>
    </MicroSegments>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	MicroSegments
Table type	Multi-instance table
Row name	MicroSegment
Restrictions	The device supports a maximum of 256 microsegments.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
MicroSegmentID	Microsegment ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VSIName	VSI name associated with the microsegment	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Radius/Client/ConvertAttrs

This table contains parameters about RADIUS attribute conversion rules. At one time, you can specify only one criterion from the following criteria: packet type (including Access-Accept packets, Access-Request packets, and accounting packets) or direction (including received and sent directions).

XML structure

```
<Radius>
  <Client>
    <ConvertAttrs>
      <ConvertAttr>
        <SchemeName></SchemeName>
        <SrcAttribute></SrcAttribute>
        <DesAttribute></DesAttribute>
        <AccessAccept></AccessAccept>
        <AccessRequest></AccessRequest>
        <Accounting></Accounting>
        <Received></Received>
        <Sent></Sent>
      </ConvertAttr>
    </ConvertAttrs>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ConvertAttrs
Table type	Multi-instance table
Row name	ConvertAttr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeNam e	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	The scheme name must already exist.
SrcAttribute	Source attribute	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DesAttribute	Destination	N/A	String, case-insensitive.	This attribute cannot

Column name	Column description	Column type	Data type and restrictions	Remarks
	attribute		Length: 1 to 63 characters.	have the same name as the source attribute. The destination attribute cannot be deleted alone. To delete the destination attribute, you must delete the entire RADIUS attribute conversion rule.
AccessAccept	Access-Accept packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute conversion rule.
AccessRequest	Access-Request packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute conversion rule.
Accounting	Accounting packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute conversion rule.
Received	Received RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute conversion rule.
Sent	Sent RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute conversion rule.

Radius/Client/RejectAttrs

This table contains parameters about RADIUS attribute rejection rules for RADIUS schemes.

XML structure

```
<Radius>
  <Client>
    <RejectAttrs>
      <RejectAttr>
        <SchemeName></SchemeName>
        <Attribute></Attribute>
        <AccessAccept></AccessAccept>
        <AccessRequest></AccessRequest>
        <Accounting></Accounting>
        <Received></Received>
        <Sent></Sent>
      </RejectAttr>
    </RejectAttrs>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	RejectAttrs
Table type	Multi-instance table
Row name	RejectAttr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	The scheme name must already exist.
Attribute	RADIUS attribute name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AccessAccept	Access-Accept packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute rejection rule.
AccessRequest	Access-Request packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent

Column name	Column description	Column type	Data type and restrictions	Remarks
				column in a RADIUS attribute rejection rule.
Accounting	Accounting packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute rejection rule.
Received	Received RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute rejection rule.
Sent	Sent RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute rejection rule.

Radius/Client/ReplyMessageRules

RADIUS Reply-Message attribute (attribute 18) parsing rule table.

XML structure

```
<Radius>
  <Client>
    <ReplyMessageRules>
      <ReplyMessageRule>
        <SchemeName></SchemeName>
        <MatchString></MatchString>
        <Action></Action>
      </ReplyMessageRule>
    </ReplyMessageRules>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ReplyMessageRules

Item	Description
Table type	Multi-instance table
Row name	ReplyMessageRule
Restrictions	A maximum of 16 rules are supported in a RADIUS scheme.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.
MatchString	Match criterion string	Index	String, case-sensitive. Length: 1 to 255 characters.
Action	Action to take when the Reply-Message attribute value matches the criterion string	N/A	Enumeration: • **0**—Requests a new password. • **1**—Requests the next authentication factor for double-factor authentication.

Radius/Server/SessCtrlService

RADIUS session-control feature table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlService>
      <Status></Status>
      <Port></Port>
    </SessCtrlService>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlService
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS session-control feature	N/A	Boolean: • true. • false.	Default: false.
Port	UDP port listening for RADIUS session-control packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 1812. The value is not supported to configure at present.

Radius/Server/SessCtrlClients

RADIUS session-control client table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlClients>
      <SessCtrlClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Key></Key>
      </SessCtrlClient>
    </SessCtrlClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlClients
Table type	Multi-instance table
Row name	SessCtrlClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the session-control client is on the public network.
IpType	Type of the session-control client IP address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the session-control client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
Key	Shared key of RADIUS session-control packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

Radius/Server/DaeService

RADIUS DAE server feature table.

XML structure

```
<Radius>
  <Server>
    <DaeService>
      <Status></Status>
      <Port></Port>
      <AgencyDialupReplyPort></AgencyDialupReplyPort>
    </DaeService>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS DAE server feature	N/A	Boolean: • true. • false.	Default: false.
Port	UDP port listening for RADIUS DAE packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column is effective only when the Status column is true.
AgencyDialup ReplyPort	UDP listening port of remote servers for PPPoE agency dialup responses	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

Radius/Server/DaeClients

RADIUS DAE client table.

XML structure

```
<Radius>
  <Server>
    <DaeClients>
      <DaeClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Key></Key>
        <Version></Version>
      </DaeClient>
    </DaeClients>
  </Server>
```

```
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeClients
Table type	Multi-instance table
Row name	DaeClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the DAE client is on the public network.
IpType	Type of the DAE client IP address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the DAE client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
Key	Shared key of RADIUS DAE packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character types. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
Version	Version number	N/A	Enumeration: • **0**—1.0. • **1**—1.1.	This column applies to the DAE client with a vendor ID of 2011.The default is 0.

Radius/ReportDualNasIp

This table contains information about whether to enable the feature of including both NAS IPv4 and IPv6 addresses in RADIUS packets sent to RADIUS servers.

XML structure

```
<Radius>
  <ReportDualNasIp>
    <Status></Status>
  </ReportDualNasIp>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ReportDualNasIp
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the feature of including both NAS IPv4 and IPv6 addresses in RADIUS packets sent to RADIUS servers	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.

Contents

Radius 1

Radius/Trap 1
XML structure 1
Table description 1
Columns 1
Radius/Dscp 3
XML structure 3
Table description 3
Columns 4
Radius/RadiusServerPolicy 4
XML structure 4
Table description 4
Columns 4
Radius/StopAcctBuffer 5
XML structure 5
Table description 5
Columns 5
Radius/AcctCache 6
XML structure 6
Table description 6
Columns 6
Radius/Client/GlobalNasIps 6
XML structure 7
Table description 7
Columns 7
Radius/Client/GlobalNasIpIf 8
XML structure 8
Table description 8
Columns 8
Radius/Client/ServerTestProfiles 8
XML structure 8
Table description 9
Columns 9
Radius/Client/Schemes 9
XML structure 10
Table description 11
Columns 11
Radius/Client/AuthServers 17
XML structure 17
Table description 17
Columns 18
Radius/Client/AcctServers 19
XML structure 19
Table description 19
Columns 19
Radius/Client/MicroSegments 20
XML structure 20
Table description 21
Columns 21
Radius/Client/ConvertAttrs 21
XML structure 21
Table description 22
Columns 22
Radius/Client/RejectAttrs 23
XML structure 23
Table description 24
Columns 24

Radius/Client/ReplyMessageRules 25
XML structure 25
Table description 25
Columns 25
Radius/Server/SessCtrlService 26
XML structure 26
Table description 26
Columns 26
Radius/Server/SessCtrlClients 26
XML structure 27
Table description 27
Columns 27
Radius/Server/DaeService 28
XML structure 28
Table description 28
Columns 28
Radius/Server/DaeClients 28
XML structure 29
Table description 29
Columns 29
Radius/Statistic/AuthServers 30
XML structure 30
Table description 30
Columns 30
Radius/Statistic/AcctServers 33
XML structure 33
Table description 34
Columns 34
Radius/Statistic/SessCtrl 36
XML structure 36
Table description 37
Columns 37
Radius/Statistic/Dae 38
XML structure 38
Table description 39
Columns 39
Radius/PasswordLimit 40
XML structure 40
Table description 40
Columns 41
Radius/ReportDualNasIp 41
XML structure 41
Table description 41
Columns 41

Radius

Radius/Trap

SNMP notification information table of RADIUS.

XML structure

```
<Radius>
  <Trap>
    <AuthErrThreshold></AuthErrThreshold>
    <Switchs>
      <AuthServerDown></AuthServerDown>
      <AuthServerUp></AuthServerUp>
      <AcctServerDown></AcctServerDown>
      <AcctServerUp></AcctServerUp>
      <AuthErrReachThreshold></AuthErrReachThreshold>
      <AcctCacheDiscard></AcctCacheDiscard>
      <AcctCacheLowerlimit></AcctCacheLowerlimit>
      <AcctCacheUpperlimit></AcctCacheUpperlimit>
    </Switchs>
  </Trap>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthErrThreshold	The threshold for authentication failure notification	N/A	Unsigned integer. Value range: 1 to 100.	Default: 30. An authentication failure notification will be sent if the number of authentication failures compared to the total number of authentication attempts

Column name	Column description	Column type	Data type and restrictions	Remarks
				exceeds the specified threshold. This column is not supported to configure at present.
Switchs	Whether to enable each type of notification	Data structure	Members include: • AuthServerDown. • AuthServerUp. • AcctServerDown. • AcctServerUp. • AuthErrReachThreshold. • AcctCacheDiscard. • AcctCacheLowerlimit. • AcctCacheUpperlimit.	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: • true • false	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: • true • false	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: • true • false	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: • true • false	Default: false.
AuthErrReachThreshold	Whether to send a notification when the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold	N/A	Boolean: • true • false	Default: false.
AcctCacheDiscard	Whether to send a notification when a RADIUS stop-accounting packet is discarded because the memory usage has reached the	N/A	Boolean: • true • false	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	minor alarm threshold			
AcctCacheLowerlimit	Whether to send a notification when the ratio of the number of buffered stop-accounting packets to the maximum number drops below the lower threshold	N/A	Boolean: • true • false	Default: false.
AcctCacheUpperlimit	Whether to send a notification when the ratio of the number of buffered stop-accounting packets to the maximum number reaches the upper threshold	N/A	Boolean: • true • false	Default: false.

Radius/Dscp

The DSCP priority of RADIUS packets.

XML structure

```
<Radius>
  <Dscp>
    <Ipv4></Ipv4>
    <Ipv6></Ipv6>
  </Dscp>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Radius/RadiusServerPolicy

This table contains parameters for periodically checking the status of RADIUS authentication servers.

XML structure

```
<Radius>
  <RadiusServerPolicy>
    <AuthenStateCheckInterval></AuthenStateCheckInterval>
  </RadiusServerPolicy>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	RadiusServerPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenStateCheckInterval	Interval for checking the status of RADIUS authentication servers	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A

Radius/StopAcctBuffer

This table contains information about discarding RADIUS stop-accounting packets.

XML structure

```
<Radius>
  <StopAcctBuffer>
    <MaxCacheNumber></MaxCacheNumber>
    <OverwriteOldest>
      <Exceed></Exceed>
      <MemoryThreshold></MemoryThreshold>
    </OverwriteOldest>
  </StopAcctBuffer>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	StopAcctBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxCacheNumber	Maximum number of RADIUS stop-accounting packets that can be buffered	N/A	Unsigned integer. Value range: 256 to 2147483647.	N/A
Exceed	Action to take after the number of buffered stop-accounting packets reaches the upper limit	N/A	Boolean: • **true**—Discards the oldest buffered packet to make room for a new buffered packet. • **false**—Discards new stop-accounting packets.	Default: false.
MemoryThreshold	Action to take after the memory usage reaches the minor alarm threshold	N/A	Boolean: • **true**—Discards the oldest buffered packet to make room for a new buffered packet. • **false**—Discards new	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
			stop-accounting packets.	

Radius/AcctCache

This table contains information about the thresholds for the ratio of the number of buffered stop-accounting packets to the maximum number.

XML structure

```
<Radius>
  <AcctCache>
    <CacheWarningThreshold>
      <UpperLimit></UpperLimit>
      <LowerLimit></LowerLimit>
    </CacheWarningThreshold>
  </AcctCache>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctCache
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UpperLimit	Upper threshold for the ratio of the number of buffered RADIUS stop-accounting packets to the maximum number	N/A	Unsigned integer. Value range: 1 to 100.
LowerLimit	Lower threshold for the ratio of the number of buffered RADIUS stop-accounting packets to the maximum number	N/A	Unsigned integer. Value range: 0 to 99.

Radius/Client/GlobalNasIps

RADIUS global NAS IP information table.

XML structure

```
<Radius>
  <Client>
    <GlobalNasIps>
      <GlobalNasIp>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </GlobalNasIp>
    </GlobalNasIps>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	A maximum of 16 global NAS IP addresses are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the NAS IP is on the public network.
IpType	Type of the source IP address for outgoing RADIUS packets	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	Source IP address for outgoing RADIUS packets	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents an IPv4 address. For example, 1.0.0.1. If the IpType value is 1, this column represents an IPv6 address. For example, 2001:12::1:2.

Radius/Client/GlobalNasIpIf

This table contains the global source interface of outgoing RADIUS packets.

XML structure

```
<Radius>
  <Client>
    <GlobalNasIpIf>
      <IfIndex></IfIndex>
    </GlobalNasIpIf>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIpIf
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Index of the interface that provides the source IP address of outgoing RADIUS packets	N/A	Unsigned integer.

Radius/Client/ServerTestProfiles

The test profile table for RADIUS server status detection.

XML structure

```
<Radius>
  <Client>
    <ServerTestProfiles>
      <ServerTestProfile>
        <ProfileName></ProfileName>
        <UserName></UserName>
        <TimeUnitage></TimeUnitage>
        <Interval></Interval>
        <IntervalSec></IntervalSec>
```

```
      <ProbeCount></ProbeCount>
    </ServerTestProfile>
  </ServerTestProfiles>
 </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ServerTestProfiles
Table type	Multi-instance table
Row name	ServerTestProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the RADIUS test profile	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
UserName	User name for the RADIUS test profile	N/A	String, case-sensitive. Length: 1 to 253 characters.	This column is required.
TimeUnitage	Measurement unit of the interval for sending test packets	N/A	Enumeration: • **0**—Minute. • **1**—Second.	N/A
Interval	Period for sending test packets	N/A	Unsigned integer. Value range: 1 to 3600, in minutes.	Default: 60 minutes.
IntervalSec	Period for sending test packets	N/A	Unsigned integer. Value range: 10 to 216000, in seconds.	N/A
ProbeCount	Number of consecutive probes used by the system to determine the server status	N/A	Unsigned integer. Value range: 1 to 10.	Default: 1.

Radius/Client/Schemes

RADIUS scheme table.

XML structure

```
<Radius>
  <Client>
    <Schemes>
      <Scheme>
        <SchemeName></SchemeName>
        <TimeUnitage></TimeUnitage>
        <RealAcctInterval></RealAcctInterval>
        <RealAcctIntervalMethod></RealAcctIntervalMethod>
        <TimeOut></TimeOut>
        <QuietTime></QuietTime>
        <PktRetryTimes></PktRetryTimes>
        <RealAcctRetryTimes></RealAcctRetryTimes>
        <StopAcctRetryTimes></StopAcctRetryTimes>
        <UserNameFormat></UserNameFormat>
        <BytesUnit></BytesUnit>
        <PacketsUint></PacketsUint>
        <NasIpv4Address></NasIpv4Address>
        <NasIpv6Address></NasIpv6Address>
        <SourceIpv4Address></SourceIpv4Address>
        <SourceIpv6Address></SourceIpv6Address>
        <VRF></VRF>
        <ClassType></ClassType>
        <AcctOnEnable></AcctOnEnable>
        <AcctOnSendInterval></AcctOnSendInterval>
        <AcctOnSendTimes></AcctOnSendTimes>
        <ChangePassword></ChangePassword>
        <StopAcctPktSendForce></StopAcctPktSendForce>
        <TranslateEnable></TranslateEnable>
        <StopAcctBufEnable></StopAcctBufEnable>
        <ThresholdRemanVol></ThresholdRemanVol>
        <UserNameAuthorApply></UserNameAuthorApply>
        <AuthenRespPendLimit></AuthenRespPendLimit>
        <AcctRespPendLimit></AcctRespPendLimit>
        <BlockAction></BlockAction>
        <LoadShareEnable></LoadShareEnable>
        <Attrs182ConvertVLAN></Attrs182ConvertVLAN>
        <Attr5QinQ></Attr5QinQ>
        <Attr15LooseCheck></Attr15LooseCheck>
        <Attr31MacFormat>
          <SectionNum></SectionNum>
          <SeparatorCharacter></SeparatorCharacter >
          <UpperCase></UpperCase>
        </Attr31MacFormat>
        <Attr85Priority></Attr85Priority>
        <DhcpOptionEnable></DhcpOptionEnable>
        <DhcpOptionFormat></DhcpOptionFormat>
```

```
      <IncludeDhcpOption55></IncludeDhcpOption55>
      <IncludeDhcpOption61></IncludeDhcpOption61>
      <DrniLocalNasIpv4Address></DrniLocalNasIpv4Address>
      <DrniLocalNasIpv6Address></DrniLocalNasIpv6Address>
      <DrniPeerNasIpv4Address></DrniPeerNasIpv4Address>
      <DrniPeerNasIpv6Address></DrniPeerNasIpv6Address>
      <MLagLocalNasIpv4Address></MLagLocalNasIpv4Address>
      <MLagLocalNasIpv6Address></MLagLocalNasIpv6Address>
      <MLagPeerNasIpv4Address></MLagPeerNasIpv4Address>
      <MLagPeerNasIpv6Address></MLagPeerNasIpv6Address>
    </Scheme>
  </Schemes>
 </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 RADIUS schemes are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
TimeUnitage	Measurement unit of the interval for sending realtime accounting packets	N/A	Enumeration: • **0**—Minute. • **1**—Second.	Default: 0.
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 71582, in seconds.	The device converts the interval value to a value in seconds even if the configured measurement unit is minute. Zero indicates that the device doesn't send realtime accounting packets to the RADIUS accounting server.
RealAcctIntervalMethod	Realtime accounting	N/A	Enumeration: • **Keep**—Standard realtime	Default: Keep.

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet processing method		accounting packet processing. **Hash**—Runs hash to scatter realtime-accounting packets.	
TimeOut	RADIUS server response timeout period	N/A	Unsigned integer. Value range: 1 to 10, in seconds.	Default: 3 seconds.
QuietTime	Quiet timer for the servers specified in the RADIUS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes.
PktRetryTimes	Max number of attempts to send a RADIUS packet to a single RADIUS server	N/A	Unsigned integer. Value range: 1 to 20.	Default: 3.
RealAcctRetryTimes	Max number of realtime accounting attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 5.
StopAcctRetryTimes	Max number of stop accounting attempts	N/A	Unsigned integer. Value range: 10 to 65535.	Default: 500.
UserNameFormat	Format of user names to be sent to RADIUS servers	N/A	Enumeration: • **0**—keep-original. • **1**—with-domain. • **2**—without-domain.	Default: 1.
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: • **0**—byte. • **1**—kilo-byte. • **2**—mega-byte. • **3**—giga-byte.	Default: 0.
PacketsUint	Packet measurement unit for traffic statistics	N/A	Enumeration: • **0**—one-packet. • **1**—kilo-packet. • **2**—mega-packet. • **3**—giga-packet.	Default: 0.
NasIpv4Address	NAS IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	NAS IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
SourceIpv4Address	Source IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIpv6Address	Source IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
VRF	VPN instance name for the RADIUS scheme	N/A	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS servers are on the public network.
ClassType	Whether to interpret the RADIUS class attribute (attribute 25) as CAR parameters	N/A	Enumeration: • **0**—Standard. • **1**—CAR.	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: • true. • false.	Default: false.
AcctOnSendInterval	Time interval for retransmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 15, in seconds.	Default: 3 seconds. This column is effective only when the AcctOnEnable value is true.
AcctOnSendTimes	Max number of attempts for transmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 255.	Default: 50. This column is effective only when the AcctOnEnable value is true.
ChangePassword	Enabling status of the online password change feature	N/A	Enumeration: • **0**—Disabled. • **1**—Enabled.	N/A
StopAcctPktSendForce	Whether to send stop-accounting packets when users for which no start-accounting packets are sent go offline	N/A	Boolean: • true. • false.	Default: false.
TranslateEnable	Whether to enable the attribute translation feature	N/A	Boolean: • true. • false.	Default: false.
StopAcctBufEnable	Whether to enable buffering of RADIUS stop-accounting requests to which no responses have been received	N/A	Boolean: • true. • false.	Default: true.
ThresholdRe	Available data	N/A	Unsigned integer.	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
manVol	threshold		Value range: 0 to 4294967295.	The measurement unit is determined by the **attribute remanent-volume unit** command.
UserNameAuthorApply	Whether to use server-assigned usernames for AAA processes subsequent to authentication	N/A	Boolean: • true. • false.	Default: false.
AuthenRespPendLimit	Max number of authentication requests to which no responses have been received from the authentication servers	N/A	Unsigned integer. Value range: 1 to 255.	N/A
AcctRespPendLimit	Max number of accounting requests to which no responses have been received from the accounting servers	N/A	Unsigned integer. Value range: 1 to 255.	N/A
BlockAction	Request action after all RADIUS servers are in blocked state	N/A	Enumeration: • **0**—Attempts to connect to the server with the highest priority. • **1**— Skips all servers in the scheme and turns to the backup method.	Default:0
LoadShareEnable	Whether RADIUS server load sharing is enabled	N/A	Enumeration: • **0**—The feature is disabled. The device forwards traffic to the server selected based on primary and secondary server roles. • **1**—The feature is enabled. The device distributes traffic among multiple servers for load sharing.	Default: 0.
LoadShareMode	Load sharing mode of RADIUS authentication servers	N/A	Enumeration: • **0**—Session-based. • **1**—Packet-based.	Default: 0.
Attrs182ConvertVLAN	Whether to interpret the H3C-Microsegment-Id attribute	N/A	Boolean: • true. • false.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	as an authorization VLAN			
Attr5QinQ	Whether to enable QinQ encapsulation format for the RADIUS NAS-Port attribute (attribute 5)	N/A	Boolean: • true. • false.	N/A
Attr15LooseCheck	Whether loose check mode is enabled for RADIUS attribute 15	N/A	Boolean: • true. • false.	Default: false.
Attr31MacFormat	MAC address format of RADIUS attribute 31	Data structure	Members include: • SectionNum. • SeparatorCharacter. UpperCase.	N/A
SectionNum	Number of sections that a MAC address contains	N/A	Enumeration: • **6**—Six. • **3**—Three.	Default: 6.
SeparatorCharacter	Character that separates the sections in a MAC address	N/A	String, case-sensitive. Length: 1 character.	Default: Hyphen (-).
UpperCase	Whether letters in a MAC address are in upper case	N/A	Boolean: • true. • false.	Default: true.
Attr85Priority	Configure the device to prefer the real-time accounting interval assigned by the RADIUS server through the RADIUS Acct-Interim-Interval attribute (attribute 85)	N/A	Boolean: • true. • false.	N/A
DhcpOptionEnable	Whether to include the H3C-DHCP-Option attribute in RADIUS request packets	N/A	Boolean: • true. • false.	Default: true.
DhcpOptionFormat	H3C-DHCP-Option attribute format	N/A	Enumeration: • **0**—Format 1 of the attribute with a 1-byte Type field. • **1**—Format 2 of the	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
			attribute with a 2-byte Type field.	
Include DhcpOption55	Whether to include H3C-DHCP-Option attribute with DHCP option 55 information in RADIUS request packet	N/A	Boolean: • true. • false.	Default: false.
Include DhcpOption61	Whether to include H3C-DHCP-Option attribute with DHCP option 61 information in RADIUS request packet	N/A	Boolean: • true. • false.	Default: true.
DrniLocalNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of local DR users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
DrniLocalNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of local DR users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
DrniPeerNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of peer DR users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
DrniPeerNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of peer DR users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
MLagLocalNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of local MLAG users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
MLagLocalNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of local MLAG users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
MLagPeerNasIpv4Address	Source IPv4 address for outgoing RADIUS packets of peer MLAG users	N/A	String in dotted decimal notation.	For example, 10.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
MLagPeerNasIpv6Address	Source IPv6 address for outgoing RADIUS packets of peer MLAG users	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.

Radius/Client/AuthServers

RADIUS authentication server table.

XML structure

```
<Radius>
  <Client>
    <AuthServers>
      <AuthServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <SvrTestProfileName></SvrTestProfileName>
        <State></State>
        <Weight></Weight>
      </AuthServer>
    </AuthServers>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can specify one primary authentication server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authentication server. • **1**—Secondary authentication server.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS server is on the public network.
IpType	Type of the RADIUS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
SvrTestProfileName	Name of the test profile	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
State	Status of the RADIUS authentication server	N/A	Enumeration: • **0**—Active. • **1**—Blocked.	N/A
Weight	Weight of the RADIUS server for load sharing	N/A	Unsigned short. Value range: 0 to 100.	Default: 0.

Radius/Client/AcctServers

RADIUS accounting server table.

XML structure

```
<Radius>
  <Client>
    <AcctServers>
      <AcctServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <State></State>
        <Weight></Weight>
      </AcctServer>
    </AcctServers>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can specify one primary accounting server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeNam e	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary accounting server. • **1**—Secondary accounting	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			server.	
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS servers are on the public network.
IpType	Type of the RADIUS accounting server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
State	Status of the RADIUS accounting server	N/A	Enumeration: • **0**—Active. • **1**—Blocked.	N/A
Weight	Weight of the RADIUS server for load sharing	N/A	Unsigned short. Value range: 0 to 100.	Default: 0.

Radius/Client/MicroSegments

This table contains microsegment information for RADIUS schemes.

XML structure

```
<Radius>
  <Client>
    <MicroSegments>
      <MicroSegment>
```

```
        <SchemeName></SchemeName>
        <MicroSegmentID></MicroSegmentID>
        <VSIName></VSIName>
      </MicroSegment>
    </MicroSegments>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	MicroSegments
Table type	Multi-instance table
Row name	MicroSegment
Restrictions	The device supports a maximum of 256 microsegments.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
MicroSegmentID	Microsegment ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VSIName	VSI name associated with the microsegment	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Radius/Client/ConvertAttrs

This table contains parameters about RADIUS attribute conversion rules.

XML structure

```
<Radius>
  <Client>
    <ConvertAttrs>
      <ConvertAttr>
        <SchemeName></SchemeName>
        <SrcAttribute></SrcAttribute>
        <DesAttribute></DesAttribute>
        <AccessAccept></AccessAccept>
```

```
      <AccessRequest></AccessRequest>
      <Accounting></Accounting>
      <Received></Received>
      <Sent></Sent>
    </ConvertAttr>
  </ConvertAttrs>
 </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ConvertAttrs
Table type	Multi-instance table
Row name	ConvertAttr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	The scheme name must already exist.
SrcAttribute	Source attribute	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DesAttribute	Destination attribute	N/A	String, case-insensitive. Length: 1 to 63 characters.	This attribute cannot have the same name as the source attribute. The destination attribute cannot be deleted alone. To delete the destination attribute, you must delete the entire RADIUS attribute conversion rule.
AccessAccept	Access-Accept packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute conversion rule.
AccessRequest	Access-Request packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS

Column name	Column description	Column type	Data type and restrictions	Remarks
				attribute conversion rule.
Accounting	Accounting packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute conversion rule.
Received	Received RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute conversion rule.
Sent	Sent RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute conversion rule.

Radius/Client/RejectAttrs

This table contains parameters about RADIUS attribute rejection rules for RADIUS schemes.

XML structure

```
<Radius>
  <Client>
    <RejectAttrs>
      <RejectAttr>
        <SchemeName></SchemeName>
        <Attribute></Attribute>
        <AccessAccept></AccessAccept>
        <AccessRequest></AccessRequest>
        <Accounting></Accounting>
        <Received></Received>
        <Sent></Sent>
      </RejectAttr>
    </RejectAttrs>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	RejectAttrs
Table type	Multi-instance table
Row name	RejectAttr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	The scheme name must already exist.
Attribute	RADIUS attribute name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AccessAccept	Access-Accept packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute rejection rule.
AccessRequest	Access-Request packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute rejection rule.
Accounting	Accounting packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the Received or Sent column in a RADIUS attribute rejection rule.
Received	Received RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute rejection rule.
Sent	Sent RADIUS packets	N/A	Boolean: • true. • false.	Default: false. This column cannot be issued together with the AccessAccept, AccessRequest, or Accounting column in a RADIUS attribute

Column name	Column description	Column type	Data type and restrictions	Remarks
				rejection rule.

Radius/Client/ReplyMessageRules

RADIUS Reply-Message attribute (attribute 18) parsing rule table.

XML structure

```
<Radius>
  <Client>
    <ReplyMessageRules>
      <ReplyMessageRule>
        <SchemeName></SchemeName>
        <MatchString></MatchString>
        <Action></Action>
      </ReplyMessageRule>
    </ReplyMessageRules>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ReplyMessageRules
Table type	Multi-instance table
Row name	ReplyMessageRule
Restrictions	A maximum of 16 rules are supported in a RADIUS scheme.

Columns

Column name	Column description	Column type	Data type and restrictions
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.
MatchString	Match criterion string	Index	String, case-sensitive. Length: 1 to 255 characters.
Action	Action to take when the Reply-Message attribute value matches the criterion string	N/A	Enumeration: • **0**—Requests a new password. • **1**—Requests the next authentication factor for double-factor authentication.

Radius/Server/SessCtrlService

RADIUS session-control feature table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlService>
      <Status></Status>
      <Port></Port>
    </SessCtrlService>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlService
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS session-control feature	N/A	Boolean: • true. • false.	Default: false.
Port	UDP port listening for RADIUS session-control packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 1812. The value is not supported to configure at present.

Radius/Server/SessCtrlClients

RADIUS session-control client table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlClients>
      <SessCtrlClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </SessCtrlClient>
    </SessCtrlClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlClients
Table type	Multi-instance table
Row name	SessCtrlClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the session-control client is on the public network.
IpType	Type of the session-control client address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the session-control client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Radius/Server/DaeService

RADIUS DAE server feature table.

XML structure

```
<Radius>
  <Server>
    <DaeService>
      <Status></Status>
      <Port></Port>
      <AgencyDialupReplyPort></AgencyDialupReplyPort>
    </DaeService>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeService
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS DAE server feature	N/A	Boolean: • true. • false.	Default: false.
Port	UDP port listening for RADIUS DAE packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column is effective only when the Status column is true.
AgencyDialup ReplyPort	UDP listening port of remote servers for PPPoE agency dialup responses	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

Radius/Server/DaeClients

RADIUS DAE client table.

XML structure

```
<Radius>
  <Server>
    <DaeClients>
      <DaeClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Version></Version>
      </DaeClient>
    </DaeClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeClients
Table type	Multi-instance table
Row name	DaeClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the DAE client is on the public network.
IpType	Type of the DAE client IP address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the DAE client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
Version	Version number	N/A	Enumeration: • **0**—1.0. • **1**—1.1.	This column applies to the DAE client with a vendor ID of 2011.

Radius/Statistic/AuthServers

RADIUS authentication server statistics table.

XML structure

```
<Radius>
  <Statistic>
    <AuthServers>
      <AuthServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Request></Request>
        <ReTrans></ReTrans>
        <Accept></Accept>
        <Reject></Reject>
        <Challenge></Challenge>
        <Malformed></Malformed>
        <BadAuthenticator></BadAuthenticator>
        <PendingRequest></PendingRequest>
        <TimeOut></TimeOut>
        <UnKnownType></UnKnownType>
        <Dropped></Dropped>
        <LastRoundTripTime></LastRoundTripTime>
      </AuthServer>
    </AuthServers>
  </Statistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance	Index	String, case-sensitive.	If this column is empty,

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 31 characters.	the RADIUS server is on the public network.
IpType	Type of the RADIUS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number for the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
Request	Number of RADIUS Access-Request packets sent to this server	N/A	Unsigned integer.	Only valid Access-Request packets are counted. This column does not include retransmissions.
ReTrans	Number of times that RADIUS Access-Request packets were retransmitted	N/A	Unsigned integer.	N/A
Accept	Number of RADIUS Access-Accept packets (valid or invalid) received from this server	N/A	Unsigned integer.	N/A
Reject	Number of RADIUS Access-Reject packets (valid or invalid) received from this server	N/A	Unsigned integer.	N/A
Challenge	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	RADIUS Access-Challenge packets (valid or invalid) received from this server			
Malformed	Number of malformed RADIUS authentication responses received from this server	N/A	Unsigned integer.	The BadAuthenticator and UnknownType statistics are not included. Malformed packets include packets with an invalid length.
BadAuthenticator	Number of RADIUS authentication responses received from this server	N/A	Unsigned integer.	The packets contain invalid authenticators or Signature attributes.
PendingRequest	Number of RADIUS Access-Request packets waiting for responses	N/A	Unsigned integer.	This variable is incremented when an Access-Request is sent. This variable is decremented because of the receipt of an Access-Accept, Access-Reject, or Access-Challenge, or because of a request timeout or retransmission.
TimeOut	Number of authentication timeouts to this server	N/A	Unsigned integer.	After a timeout, the client may retransmit the authentication request to the same server, send a new request to another server, or give up.
UnKnownType	Number of unknown-type RADIUS packets that were received from this server on the authentication port	N/A	Unsigned integer.	N/A
Dropped	Number of RADIUS packets that were received from this server on the authentication port and dropped for some other reason	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LastRoundTripTime	Time interval (in hundredths of a second) between the most recent authentication response and request exchanged with the RADIUS authentication server	N/A	Unsigned integer.	N/A

Radius/Statistic/AcctServers

RADIUS accounting server statistics table.

XML structure

```
<Radius>
  <Statistic>
    <AcctServers>
      <AcctServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Request></Request>
        <ReTrans></ReTrans>
        <Response></Response>
        <Malformed></Malformed>
        <BadAuthenticator></BadAuthenticator>
        <PendingRequest></PendingRequest>
        <TimeOut></TimeOut>
        <UnKnownType></UnKnownType>
        <Dropped></Dropped>
        <LastRoundTripTime></LastRoundTripTime>
        <AcctStartRequest></AcctStartRequest>
        <AcctStartResponse></AcctStartResponse>
        <AcctUpdateRequest></AcctUpdateRequest>
        <AcctUpdateResponse></AcctUpdateResponse>
        <AcctStopRequest></AcctStopRequest>
        <AcctStopResponse></AcctStopResponse>
      </AcctServer>
    </AcctServers>
  </Statistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the RADIUS server is on the public network.
IpType	Type of the RADIUS accounting server	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—HostName.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: String of 1 to 253 characters.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Request	Number of RADIUS Accounting-Request packets sent to this server	N/A	Unsigned integer.	Only valid Accounting-Request packets are counted. This column does not include retransmissions.
ReTrans	Number of times	N/A	Unsigned integer.	Retransmissions

Column name	Column description	Column type	Data type and restrictions	Remarks
	that RADIUS Accounting-Request packets were retransmitted			include the retries in which the Identifier and Acct-Delay have been updated, as well as the retries in which the Identifier and Acct-Delay have not been updated.
Response	Number of RADIUS packets received on the accounting port from this server	N/A	Unsigned integer.	N/A
Malformed	Number of malformed RADIUS Accounting-Response packets received from this server	N/A	Unsigned integer.	The BadAuthenticator and UnknownType statistics are not included. Malformed packets include packets with an invalid length.
BadAuthenticator	Number of RADIUS Accounting-Response packets received from this server	N/A	Unsigned integer.	The packets contain invalid authenticators.
PendingRequest	Number of RADIUS Accounting-Request packets waiting for responses	N/A	Unsigned integer.	This variable is incremented when an Accounting-Request is sent. This variable is decremented because of the receipt of an Accounting-Response or a request timeout or retransmission.
TimeOut	Number of accounting timeouts to this server	N/A	Unsigned integer.	After a timeout, the client may retransmit the accounting request to the same server, send a new request to another server, or give up.
UnKnownType	Number of unknown-type RADIUS packets that were received from this server on the accounting port	N/A	Unsigned integer.	N/A
Dropped	Number of RADIUS packets that were received from this server on the accounting port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and dropped for some other reason			
LastRoundTripTime	Time interval between the most recent Accounting-Response and the Accounting-Request exchanged with the RADIUS accounting server	N/A	Unsigned integer.	N/A
AcctStartRequest	Number of start accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctStartResponse	Number of start accounting responses received from this server	N/A	Unsigned integer.	N/A
AcctUpdateRequest	Number of realtime accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctUpdateResponse	Number of realtime accounting responses received from this server	N/A	Unsigned integer.	N/A
AcctStopRequest	Number of stop accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctStopResponse	Number of stop accounting responses received from this server	N/A	Unsigned integer.	N/A

Radius/Statistic/SessCtrl

The statistics table of the session-control feature.

XML structure

```
<Radius>
  <Statistic>
    <SessCtrl>
```

```
      <Request></Request>
      <Response></Response>
      <Dropped></Dropped>
      <CheckFail></CheckFail>
      <Terminate></Terminate>
      <SetPolicy></SetPolicy>
      <ReTrans></ReTrans>
      <UnKnownType></UnKnownType>
      <Malformed></Malformed>
    </SessCtrl>
  </Statistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrl
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Request	Number of received session-control request packets	N/A	Unsigned integer.	Only valid session-control request packets are counted. This column does not include retransmissions.
Response	Number of sent session-control response packets	N/A	Unsigned integer.	N/A
Dropped	Number of discarded session-control request packets	N/A	Unsigned integer.	This column includes statistics for session-control request packets that were discarded for reasons other than CheckFail, UnknownType, and Malformed.
CheckFail	Number of check-failed session-control request packets	N/A	Unsigned integer.	Check-failed packets refer to packets that contain invalid authenticators.
Terminate	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	user-offline session-control request packets			
SetPolicy	Number of session-control request packets for modifying user permissions	N/A	Unsigned integer.	N/A
ReTrans	Number of times that session-control request packets were retransmitted	N/A	Unsigned integer.	N/A
UnKnownType	Number of unknown-type session-control request packets	N/A	Unsigned integer.	N/A
Malformed	Number of malformed session-control request packets	N/A	Unsigned integer.	Malformed packets refer to packets with an invalid length and packets received from clients not associated with the session-control server.

Radius/Statistic/Dae

The statistics table of the DAE server feature.

XML structure

```
<Radius>
  <Statistic>
    <Dae>
      <Request></Request>
      <ReTrans></ReTrans>
      <Response></Response>
      <Dropped></Dropped>
      <CheckFail></CheckFail>
      <Disconnect></Disconnect>
      <Coa></Coa>
      <UnknownType></UnknownType>
      <Malformed></Malformed>
    </Dae>
  </Statistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Dae
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Request	Number of received DAE request packets	N/A	Unsigned integer.	Only valid DAE request packets are counted. This column does not include retransmissions.
ReTrans	Number of times that DAE request packets were retransmitted	N/A	Unsigned integer.	N/A
Response	Number of DAE response packets sent to the DAE clients	N/A	Unsigned integer.	N/A
Dropped	Number of discarded DAE request packets	N/A	Unsigned integer.	This column includes statistics for DAE request packets that were discarded for reasons other than CheckFail, UnknownType, and Malformed
CheckFail	Number of check-failed DAE request packets	N/A	Unsigned integer.	Check-failed packets refer to packets that contain invalid authenticators.
UnknownType	Number of unknown DAE request packets	N/A	Unsigned integer.	N/A
Disconnect	Number of user-offline DAE request packets	N/A	Unsigned integer.	N/A
Coa	Number of DAE request packets for modifying user permissions	N/A	Unsigned integer.	N/A
Malformed	Number of malformed DAE request packets	N/A	Unsigned integer.	Malformed packets refer to packets with an invalid length and

Column name	Column description	Column type	Data type and restrictions	Remarks
				packets received from clients not associated with the DAE server.

Radius/PasswordLimit

Requirements to meet when you configure passwords for the RADIUS module.

XML structure

```
<Radius>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	PasswordLimit
Table type	Single-instance table
Row name	None
Restrictions	• The configuration takes effect on the following items: ○ Radius/Client/Schemes table: <AuthenKey></AuthenKey> <AcctKey></AcctKey> ○ Radius/Client/AuthServers table: <Key></Key> ○ Radius/Client/AcctServers table: <Key></Key> ○ Radius/Server/SessCtrlClients table: <Key></Key> ○ Radius/Server/DaeClients table: <Key></Key> ○ Radius/Proxy/DaeProxyClients table: <Key></Key> • Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	Minimum password length	N/A	Unsigned integer.	N/A
MaxLen	Maximum password length	N/A	Unsigned integer.	N/A
MinTypeNum	Minimum number of character types that the password must contain	N/A	Unsigned integer.	Character types include digit, uppercase letter, lowercase letter, and special character. For example, if the value is set to 3, the password string must include three or more character types.

Radius/ReportDualNasIp

This table contains information about whether to enable the feature of including both NAS IPv4 and IPv6 addresses in RADIUS packets sent to RADIUS servers.

XML structure

```
<Radius>
  <ReportDualNasIp>
    <Status></Status>
  </ReportDualNasIp>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ReportDualNasIp
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the feature of	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	including both NAS IPv4 and IPv6 addresses in RADIUS packets sent to RADIUS servers			

Contents

Radius 1

Radius/Client/GlobalNasIps 1
Radius/Client/GlobalNasIpIf 1
Radius/Client/ServerTestProfiles 1
Radius/Client/Schemes 1
Radius/Client/AuthServers 2
Radius/Client/AcctServers 2
Radius/Client/MicroSegments 2
Radius/Client/ConvertAttrs 3
Radius/Client/RejectAttrs 3
Radius/Client/ReplyMessageRules 3
Radius/Server/SessCtrlClients 4
Radius/Server/DaeService 4
Radius/Server/DaeClients 4
Radius/AuthServerState 5
Radius/AcctServerState 5

Radius

Radius/Client/GlobalNasIps

Message	Explanation
Maximum number of NAS-IP addresses already reached. NAS-IP的数目已经达到最大值。	Maximum number of NAS-IP addresses already reached. NAS-IP的数目已经达到最大值。
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Radius/Client/GlobalNasIpIf

Message	Explanation
Interface type not supported. 接口类型不支持。	An interface of the specified type cannot be specified as the source interface of outgoing RADIUS packets. 指定的接口类型不支持作为RADIUS报文的源IP地址所属的接口。

Radius/Client/ServerTestProfiles

Message	Explanation
The number of test-profile has reached the maximum. 探测模版的数目已经达到最大值。	The number of test-profile has reached the maximum. 探测模版的数目已经达到最大值。

Radius/Client/Schemes

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The number of RADIUS schemes has reached the maximum. RADIUS方案的数目已经达到上限。	The number of RADIUS schemes has reached the maximum. RADIUS方案的数目已经达到上限。
The RADIUS scheme does not exist. 指定的RADIUS方案不存在。	The RADIUS scheme does not exist. 指定的RADIUS方案不存在。

Radius/Client/AuthServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The specified server does not exist. 指定的RADIUS服务器不存在。	The specified server does not exist. 指定的RADIUS服务器不存在。
The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。	The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。
Maximum number of RADIUS servers already reached. RADIUS服务器的数目已经达到上限。	Maximum number of RADIUS servers already reached. RADIUS服务器的数目已经达到上限。
Invalid host name. 非法的主机名。	Invalid host name configuration. 非法的主机名。

Radius/Client/AcctServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The specified server does not exist. 指定的RADIUS服务器不存在。	The specified server does not exist. 指定的RADIUS服务器不存在。
The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。	The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。
Maximum number of RADIUS servers already reached. RADIUS服务器的数目已经达到上限。	Maximum number of RADIUS servers already reached. RADIUS服务器的数目已经达到上限。
Only one primary RADIUS accounting or authentication server is supported. 认证和计费主服务器只能有一个主服务器。	Only one primary RADIUS accounting or authentication server is supported.
Invalid host name. 非法的主机名。	Invalid host name configuration. 非法的主机名。

Radius/Client/MicroSegments

Message	Explanation
Maximum number of microsegments already reached. 配置的微分段数目已经达到上限。	Maximum number of microsegments already reached. 该RADIUS方案中配置的微分段数目已经达到上限。

Radius/Client/ConvertAttrs

Message	Explanation
The source and destination attributes are different types. 源属性和目的属性属于不同的类别	The source and destination attributes are different types. 该转换规则中的源属性和目的属性的数据类型不同
Another type of conversion rule already exists for this attribute. Please remove the existing conversion rule before configuring a new rule. 已存在该属性的其它类型的转换规则。如果要为其配置新类型的转换规则，请先删除已存在的规则	Another type of conversion rule already exists for this attribute. Please remove the existing conversion rule before configuring a new rule. 已存在该源属性到相同目的属性的其它类型的转换规则。如果要为该属性对定义新类型的转换规则，请先删除已存在的规则
The destination attribute is not supported. 不支持指定的目的属性	The destination attribute is not supported. 不支持指定的目的属性
The source attribute is not supported. 不支持指定的源属性	The source attribute is not supported. 不支持指定的源属性
A conversion rule already exists for the source attribute. 已存在该源属性的转换规则	A conversion rule already exists for the source attribute. One source RADIUS attribute cannot be converted to multiple destination attributes with the same packet type or direction. 已存在该源属性的转换规则，不能同时再为该属性定义到不同目的属性且相同报文类型或相同方向的转换规则
A rejection rule already exists for the attribute. 已存在该属性的拒绝规则	A rejection rule already exists for the attribute. 已存在该属性的拒绝规则，不能同时再为该属性定义一个转换规则
Destination attribute must be different from source attribute. 目的属性和源属性必须不同	Destination attribute must be different from source attribute. 目的属性和源属性必须不同

Radius/Client/RejectAttrs

Message	Explanation
Another type of rejection rule already exists for this attribute. Please remove the existing rejection rule before configuring a new rule. 已存在该属性的其它类型的拒绝规则。如果要为其配置新类型的拒绝规则，请先删除已存在的规则	Another type of rejection rule already exists for this attribute. Please remove the existing rejection rule before configuring a new rule. 已存在该属性的其它类型的拒绝规则。如果要为该属性定义新类型的拒绝规则，请先删除已存在的规则
The attribute is not supported. 不支持该属性	The attribute is not supported. 不支持该属性
A conversion rule already exists for the source attribute. 已存在该源属性的转换规则	A conversion rule already exists for the source attribute. 已存在该源属性的转换规则，不能同时再为该属性定义一个拒绝规则

Radius/Client/ReplyMessageRules

Message	Explanation
The matching criterion in this rule can't contain or	The matching criterion in this rule can't contain or be contained in

be contained in the matching criterion of an existing rule. 该规则和已配置的规则相冲突。	the matching criterion of an existing rule. 该规则和已配置的规则相冲突。
Maximum number of parsing rules for the RADIUS Reply-Message attribute already reached. 该方案下配置的规则已经达到上限。	Maximum number of parsing rules for the RADIUS Reply-Message attribute already reached. 该方案下配置的规则已经达到上限。
Please specify an action for this rule. 请配置该规则的动作	Please specify an action for this rule. 请配置该规则的动作
The RADIUS scheme doesn't exist. 指定的RADIUS方案不存在。	The RADIUS scheme doesn't exist. 指定的RADIUS方案不存在。

Radius/Server/SessCtrlClients

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Radius/Server/DaeService

Message	Explanation
Can't set the DAE listening port when disabling RADIUS DAE. 关闭RADIUS DAE代理功能的同时不能设置DAE服务器的监听端口。	Can't set the DAE listening port when disabling RADIUS DAE. 关闭RADIUS DAE代理功能的同时不能设置DAE服务器的监听端口。
Can't set the DAE listening port when RADIUS DAE is disabled. RADIUS DAE代理功能处于关闭状态时不能设置DAE服务器的监听端口。	Can't set the DAE listening port when RADIUS DAE is disabled. RADIUS DAE代理功能处于关闭状态时不能设置DAE服务器的监听端口。
You cannot configure the port that remote servers listen to for PPPoE agency dialup responses at the same time when you disable RADIUS DAE proxy. 关闭RADIUS DAE代理功能的同时不能设置PPPoE代拨时监听DAE请求的端口。	You cannot configure the port that remote servers listen to for PPPoE agency dialup responses at the same time when you disable RADIUS DAE proxy. 关闭RADIUS DAE代理功能的同时不能设置PPPoE代拨时监听DAE请求的端口。
You cannot configure the port that remote servers listen to for PPPoE agency dialup responses when RADIUS DAE proxy is disabled. RADIUS DAE代理功能处于关闭状态时不能设置PPPoE代拨时监听DAE请求的端口。	You cannot configure the port that remote servers listen to for PPPoE agency dialup responses when RADIUS DAE proxy is disabled. RADIUS DAE代理功能处于关闭状态时不能设置PPPoE代拨时监听DAE请求的端口。

Radius/Server/DaeClients

Message	Explanation
Invalid IP address.	Invalid IP address.

无效IP地址。	无效IP地址。

Radius/AuthServerState

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Radius/AcctServerState

Message	**Explanation**
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Contents

RADIUS event stream 1
RADIUS event 1
XML structure for event subscription 1
XML structure for event report 1

RADIUS event stream

RADIUS event stream description.

RADIUS event

This event is used to report information about a RADIUS server in a RADIUS scheme, including the server state.

XML structure for event subscription

```
<RadiusServerState >
</RadiusServerState >
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>RADIUS</stream>
    <filter type="subtree">
      <RadiusServerState xmlns="http://www.h3c.com/netconf/event:1.0/RADIUS:1.0">
      </RadiusServerState >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	RADIUS
Event name	RadiusServerState
Event namespace	http://www.h3c.com/netconf/event:1.0/ RADIUS:1.0
Support for extended query	No

XML structure for event report

```
<RadiusServerState>
  <ServerState>
    <ServerType></ServerType>
    <IPAddress></IPAddress>
    <VRF></VRF>
    <Port></Port>
    <State></State>
  </ServerState>
</RadiusServerState>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2019-07-05T10:24:36</eventTime>
  <RadiusServer xmlns="http://www.h3c.com/netconf/event:1.0/RADIUS:1.0">
  <RadiusServerState>
    <SchemeName>rd1</SchemeName>
    <ServerType>1</ServerType>
    <IPAddress>1.2.3.4</IPAddress>
    <VRF>0</VRF>
    <Port>1812</Port>
    <State>1</State>
  </RadiusServerState>
</RadiusServer>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
ServerType	Server type	Enumeration: • **0**—Authentication • **1**—Accounting	No	N/A
IPAddress	Source IP address for outgoing RADIUS packets	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	This column represents an IPv4 address. For example, 1.0.0.1. Or this column represents an IPv6 address. For example, 2001:12::1:2.
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Port	UDP port number of the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
State	Status of the RADIUS authentication server	Enumeration: • **0**—Active. • **1**—Blocked	No	N/A

Contents

RadiusServer 1
RadiusServer/ActivateConfiguration 1
XML structure 1
Table description 1
Columns 1

RadiusServer

RadiusServer/ActivateConfiguration

This table activates all RADIUS server settings.

XML structure

```
<RadiusServer>
  <ActivateConfiguration>
    <Activate></Activate>
  </ActivateConfiguration>
</RadiusServer>
```

Table description

Item	Description
Feature name	RadiusServer
Table name	ActivateConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Activate	Activate all RADIUS server settings	N/A	This column must be empty.

Contents

RadiusServer 1
RadiusServer/Client/ClientInfos 1
XML structure 1
Table description 1
Columns 1

RadiusServer

RadiusServer/Client/ClientInfos

This table contains RADIUS client parameters.

XML structure

```
<RadiusServer>
  <Client>
    <ClientInfos>
      <ClientInfo>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Key></Key>
      </ClientInfo>
    </ClientInfos>
  </Client>
</RadiusServer>
```

Table description

Item	Description
Feature name	RadiusServer
Table name	ClientInfos
Table type	Multi-instance table
Row name	ClientInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the client	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	Only support the public network. The string length must be 0.
Key	Shared key of RADIUS packets	N/A	String, case-sensitive. Length: 1 to 64 characters. In dayou OEM, the shared key must contain a minimum	The shared key is in plaintext form.

Column name	Column description	Column type	Data type and restrictions	Remarks
			of 9 characters and a minimum of 4 character types	

Contents

RadiusServer 1
RadiusServer/Client/ClientInfos 1
XML structure 1
Table description 1
Columns 1
RadiusServer/Client/ActiveClients 1
XML structure 2
Table description 2
Columns 2
RadiusServer/Server/ActiveUsers 2
XML structure 2
Table description 3
Columns 3

RadiusServer

RadiusServer/Client/ClientInfos

This table contains RADIUS client information.

XML structure

```
<RadiusServer>
  <Client>
    <ClientInfos>
      <ClientInfo>
        <IpAddress></IpAddress>
        <VRF></VRF>
      </ClientInfo>
    </ClientInfos>
  </Client>
</RadiusServer>
```

Table description

Item	Description
Feature name	RadiusServer
Table name	ClientInfos
Table type	Multi-instance table
Row name	ClientInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the client	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	Only support the public network. The string length must be 0.

RadiusServer/Client/ActiveClients

This table contains active RADIUS client information.

XML structure

```
<RadiusServer>
  <Client>
    <ActiveClients>
      <ActiveClient>
        <IpAddress></IpAddress>
        <VRF></VRF>
      </ActiveClient>
    </ActiveClients>
  </Client>
</RadiusServer>
```

Table description

Item	Description
Feature name	RadiusServer
Table name	ActiveClients
Table type	Multi-instance table
Row name	ActiveClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the client	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	Only support the public network. The string length must be 0.

RadiusServer/Server/ActiveUsers

This table contains active RADIUS user information for the RADIUS server feature.

XML structure

```
<RadiusServer>
  <Server>
    <ActiveUsers>
      <ActiveUser>
        <Name></Name>
        <Description></Description>
        <ValidityDateTime>
```

```
        <EndValidityDateTime></EndValidityDateTime>
      </ValidityDateTime>
      <AuthorizationInfo>
        <AclNumber></AclNumber>
        <VLANID></VLANID>
      </AuthorizationInfo>
    </ActiveUser>
  </ActiveUsers>
 </Server>
</RadiusServer>
```

Table description

Item	Description
Feature name	RadiusServer
Table name	ActiveUsers
Table type	Multi-instance table
Row name	ActiveUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Username	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @
Description	User description	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
ValidityDateTime	User account validity period	Data structure	Members include: • EndValidityDateTime.	N/A
EndValidityDateTime	Expiration time for the user account	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber. • VLANID.	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Contents

RadiusServer 2
RadiusServer/Client/ClientInfos 2

RadiusServer

RadiusServer/Client/ClientInfos

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
Maximum number of RADIUS clients already reached. RADIUS客户端数目达到最大值。	Maximum number of RADIUS clients already reached. RADIUS客户端数目达到最大值。

Contents

RBAC 1
RBAC/Roles 1
XML structure 1
Table description 1
Columns 1
RBAC/Rules 2
XML structure 2
Table description 2
Columns 3
RBAC/Policies/InterfacePolicies 4
XML structure 4
Table description 4
Columns 5
RBAC/Policies/VLANPolicies 5
XML structure 5
Table description 5
Columns 6
RBAC/Policies/VRFPolicies 6
XML structure 6
Table description 6
Columns 7
RBAC/Policies/SecZonePolicies 7
XML structure 7
Table description 7
Columns 8
RBAC/Policies/LocationPolicies 8
XML structure 8
Table description 8
Columns 9
RBAC/FeatureGroups 9
XML structure 9
Table description 9
Columns 9
RBAC/FeaturesInGroup 10
XML structure 10
Table description 10
Columns 10

RBAC

RBAC/Roles

RBAC role table.

XML structure

```
<RBAC>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <Description></Description>
      <PermitAllInterface></PermitAllInterface>
      <PermitAllVLAN></PermitAllVLAN>
      <PermitAllVRF></PermitAllVRF>
      <PermitAllSecZone></PermitAllSecZone>
      <PermitAllLocation></PermitAllLocation>
    </Role>
  </Roles>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
Description	Description of the role	N/A	String. Length: 1 to 128 characters.	Predefined roles have default descriptions, which are different.

Column name	Column description	Column type	Data type and restrictions	Remarks
				User-defined roles do not have default descriptions.
PermitAllInterface	Whether to allow access to all interfaces	N/A	Boolean: • true • false	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: • true • false	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: • true • false	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: • true • false	The default value is true.
PermitAllLocation	Whether to allow access to all locations	N/A	Boolean: • true • false	The default value is true.

RBAC/Rules

RBAC rule table.

XML structure

```
<RBAC>
  <Rules>
    <Rule>
      <RoleName></RoleName>
      <RuleIndex></RuleIndex>
      <Action></Action>
      <ReadOperation></ReadOperation>
      <WriteOperation></WriteOperation>
      <ExecOperation></ExecOperation>
      <EntityType></EntityType>
      <Entity></Entity>
    </Rule>
  </Rules>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC

Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	When the EntityType value is **feature**, the Entity value must be selected from the RBAC/Features table, and the RoleName value must be selected from the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
RuleIndex	Index of the rule	Index	Unsigned integer. Value range: 1 to 256.	The bigger the index, the higher the priority. RBAC rules are matched in descending order of priority.
Action	Action	N/A	Enumeration: • **0**—permit. • **1**—deny.	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: • true • false	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: • true • false	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: • true • false	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: • **0**—Command. • **1**—Feature. • **2**—Feature group. • **3**—Web menu. • **4**—XML element. • **5**—SNMP OID.	The system ignores values of the ReadOperation, WriteOperation, and ExecOperation columns of entities of **command** type.
Entity	Entity	N/A	Command: String. Length: 1 to 128 characters. Feature: String. Length: 1 to 15 characters. Feature group:	For information about different types of entities, see the RBAC configuration in the user manual.

Column name	Column description	Column type	Data type and restrictions	Remarks
			String. Length: 1 to 31 characters. Web menu: String. Length: 1 to 255 characters. XML element: String. Length: 1 to 255 characters. SNMP OID: String. Length: 1 to 255 characters.	

RBAC/Policies/InterfacePolicies

RBAC interface policy table.

XML structure

```
<RBAC>
  <Policies>
    <InterfacePolicies>
      <Policy>
        <RoleName></RoleName>
        <InterfaceListPermitted></InterfaceListPermitted>
      </Policy>
    </InterfacePolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	InterfacePolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllInterface to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
InterfaceListPermitted	A list of permitted interfaces specified by full names	N/A	String. Length: 0 to 32767 characters.	To specify an interface range, make sure the interfaces are located on the same chassis, slot, or subslot. Specify the interface range with the last portion of the interface number. For example, set the list the following: GigabitEthernet0/0/1, GigabitEthernet0/0/10 to GigabitEthernet0/0/20, GigabitEthernet0/0/25

RBAC/Policies/VLANPolicies

RBAC VLAN policy table.

XML structure

```
<RBAC>
  <Policies>
    <VLANPolicies>
      <Policy>
        <RoleName></RoleName>
        <VLANListPermitted></VLANListPermitted>
      </Policy>
    </VLANPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	VLANPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllVLAN to false in the RBAC/Roles table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
VLANListPermitted	A list of permitted VLANs	N/A	String. Length: 0 to 32767 characters.	The string can contain only numbers, minus signs, and commas, and cannot end with a comma or minus sign. The string does not support blank characters. For example, 1,2,3,5-8,10-20.

RBAC/Policies/VRFPolicies

RBAC VRF policy table.

XML structure

```
<RBAC>
  <Policies>
    <VRFPolicies>
      <Policy>
        <RoleName></RoleName>
        <VRFPermitted></VRFPermitted>
      </Policy>
    </VRFPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	VRFPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllVRF to false in the RBAC/Roles table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
VRFPermitted	Name of the permitted VRF instance	Index	String. Length: 1 to 31 characters.

RBAC/Policies/SecZonePolicies

RBAC security zone policy table.

XML structure

```
<RBAC>
  <Policies>
    <SecZonePolicies>
      <Policy>
        <RoleName></RoleName>
        <SecZonePermitted></SecZonePermitted>
      </Policy>
    </SecZonePolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	SecZonePolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllSecZone to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
SecZonePermitted	Name of the permitted security zone	Index	String. Length: 1 to 13 characters.

RBAC/Policies/LocationPolicies

RBAC location policy table.

XML structure

```
<RBAC>
  <Policies>
    <LocationPolicies>
      <Policy>
        <RoleName></RoleName>
        <LocationPermitted></LocationPermitted>
      </Policy>
    </LocationPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	LocationPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllLocation to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
LocationPermitted	Name of the permitted locations	Index	String. Length: 1 to 31 characters.

RBAC/FeatureGroups

RBAC feature group table.

XML structure

```
<RBAC>
  <FeatureGroups>
    <FeatureGroup>
      <Name></Name>
    </FeatureGroup>
  </FeatureGroups>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	FeatureGroups
Table type	Multi-instance table
Row name	FeatureGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the feature group	Index	String. Length: 1 to 31 characters.	The predefined feature groups named **L2** and **L3** cannot be modified.

RBAC/FeaturesInGroup

RBAC Feature In Group table.

XML structure

```
<RBAC>
  <FeaturesInGroup>
    <Feature>
      <GroupName></GroupName>
      <FeatureName></FeatureName>
    </Feature>
  </FeaturesInGroup>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	FeaturesInGroup
Table type	Multi-instance table
Row name	Feature
Restrictions	The value of FeatureName must be selected from the RBAC/Features table. The value of GroupName must be selected from the RBAC/FeatureGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the group	Index	String. Length: 1 to 31 characters.
FeatureName	Name of the feature	Index	String. Length: 1 to 15 characters.

Contents

RBAC 1
RBAC/Roles 1
XML structure 1
Table description 1
Columns 1
RBAC/Rules 2
XML structure 2
Table description 3
Columns 3
RBAC/Policies/InterfacePolicies 4
XML structure 4
Table description 4
Columns 5
RBAC/Policies/VLANPolicies 5
XML structure 5
Table description 5
Columns 6
RBAC/Policies/VRFPolicies 6
XML structure 6
Table description 6
Columns 7
RBAC/Policies/SecZonePolicies 7
XML structure 7
Table description 7
Columns 7
RBAC/Policies/LocationPolicies 8
XML structure 8
Table description 8
Columns 8
RBAC/Features 8
XML structure 9
Table description 9
Columns 9
RBAC/FeatureGroups 9
XML structure 9
Table description 10
Columns 10
RBAC/FeaturesInGroup 10
XML structure 10
Table description 10
Columns 11

RBAC

RBAC/Roles

RBAC role table.

XML structure

```
<RBAC>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <Description></Description>
      <PermitAllInterface></PermitAllInterface>
      <PermitAllVLAN></PermitAllVLAN>
      <PermitAllVRF></PermitAllVRF>
      <PermitAllSecZone></PermitAllSecZone>
      <PermitAllLocation></PermitAllLocation>
      <IsPreDefined></IsPreDefined>
      <CanAddRules></CanAddRules>
    </Role>
  </Roles>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
Description	Description of the role	N/A	String. Length: 1 to 128 characters.	Predefined roles have default descriptions, which are different. User-defined roles do not have default

Column name	Column description	Column type	Data type and restrictions	Remarks
				descriptions.
PermitAllInterface	Whether to allow access to all interfaces	N/A	Boolean: • true • false	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: • true • false	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: • true • false	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: • true • false	The default value is true.
PermitAllLocation	Whether to allow access to all locations	N/A	Boolean: • true • false	The default value is true.
IsPreDefined	Whether it is a predefined role	N/A	Boolean: • true • false	Predefined roles include network-admin, network-operator, and level-0 to level-15 users.
CanAddRules	Whether to allow users to add rules	N/A	Boolean: • true • false	All user-defined roles, and part of the predefined roles allow users to add rules.

RBAC/Rules

RBAC rule table.

XML structure

```
<RBAC>
  <Rules>
    <Rule>
      <RoleName></RoleName>
      <RuleIndex></RuleIndex>
      <IsPreDefined></IsPreDefined>
      <Action></Action>
      <ReadOperation></ReadOperation>
      <WriteOperation></WriteOperation>
      <ExecOperation></ExecOperation>
      <EntityType></EntityType>
      <Entity></Entity>
    </Rule>
  </Rules>
```

```
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
RuleIndex	Index of the rule	Index	Unsigned integer. Value range: 1 to 256.	The bigger the index, the higher the priority. RBAC rules are matched in descending order of priority.
IsPreDefined	Whether it is a predefined rule	Index	Boolean: true false	Predefine rules can not be modified.
Action	Action	N/A	Enumeration: • **0**—permit. • **1**—deny.	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: • true • false	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: • true • false	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: • true • false	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: • **0**—Command. • **1**—Feature. • **2**—Feature group. • **3**—Web menu. • **4**—XML element. • **5**—SNMP OID.	The system ignores values of the ReadOperation, WriteOperation, and ExecOperation columns of entities of **command** type.
Entity	Entity	N/A	Command:	For information about different types of

Column name	Column description	Column type	Data type and restrictions	Remarks
			String. Length: 1 to 128 characters. Feature: String. Length: 1 to 15 characters. Feature group: String. Length: 1 to 31 characters. Web menu: String. Length: 1 to 255 characters. XML element: String. Length: 1 to 255 characters. SNMP OID: String. Length: 1 to 255 characters.	entities, see the RBAC configuration in the user manual.

RBAC/Policies/InterfacePolicies

RBAC interface policy table.

XML structure

```
<RBAC>
  <Policies>
    <InterfacePolicies>
      <Policy>
        <RoleName></RoleName>
        <InterfaceListPermitted></InterfaceListPermitted>
      </Policy>
    </InterfacePolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	InterfacePolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
InterfaceListPermitted	A list of permitted interfaces specified by full names	N/A	String. Length: 0 to 32767 characters.	To specify an interface range, make sure the interfaces are located on the same chassis, slot, or subslot. Specify the interface range with the last portion of the interface number. For example, set the list the following: GigabitEthernet0/0/1, GigabitEthernet0/0/10 to GigabitEthernet0/0/20, GigabitEthernet0/0/25

RBAC/Policies/VLANPolicies

RBAC VLAN policy table.

XML structure

```
<RBAC>
  <Policies>
    <VLANPolicies>
      <Policy>
        <RoleName></RoleName>
        <VLANListPermitted></VLANListPermitted>
      </Policy>
    </VLANPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	VLANPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
VLANListPermitted	A list of permitted VLANs	N/A	String. Length: 0 to 32767 characters.	The string can contain only numbers, minus signs, and commas, and cannot end with a comma or minus sign. The string does not support blank characters. For example, 1,2,3,5-8,10-20.

RBAC/Policies/VRFPolicies

RBAC VRF policy table.

XML structure

```
<RBAC>
  <Policies>
    <VRFPolicies>
      <Policy>
        <RoleName></RoleName>
        <VRFPermitted></VRFPermitted>
      </Policy>
    </VRFPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	VRFPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
VRFPermitted	Name of the permitted VRF instance	Index	String. Length: 1 to 31 characters.

RBAC/Policies/SecZonePolicies

RBAC security zone policy table.

XML structure

```
<RBAC>
  <Policies>
    <SecZonePolicies>
      <Policy>
        <RoleName></RoleName>
        <SecZonePermitted></SecZonePermitted>
      </Policy>
    </SecZonePolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	SecZonePolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
SecZonePermitted	Name of the permitted	Index	String.

Column name	Column description	Column type	Data type and restrictions
	security zone		Length: 1 to 31 characters.

RBAC/Policies/LocationPolicies

RBAC location policy table.

XML structure

```
<RBAC>
  <Policies>
    <LocationPolicies>
      <Policy>
        <RoleName></RoleName>
        <LocationPermitted></LocationPermitted>
      </Policy>
    </LocationPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	LocationPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
LocationPermitted	Name of the permitted location	Index	String. Length: 1 to 31 characters.

RBAC/Features

RBAC feature table.

XML structure

```
<RBAC>
  <Features>
    <Feature>
      <Name></Name>
      <Description></Description>
    </Feature>
  </Features>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Features
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the feature group	Index	String. Length: 1 to 31 characters.	The predefined feature groups named L2 and L3 cannot be modified.

RBAC/FeatureGroups

RBAC feature group table.

XML structure

```
<RBAC>
  <FeatureGroups>
    <FeatureGroup>
      <Name></Name>
      <IsPreDefined></IsPreDefined>
    </FeatureGroup>
  </FeatureGroups>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	FeatureGroups
Table type	Multi-instance table
Row name	FeatureGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the group	Index	String. Length: 1 to 31 characters.
IsPreDefined	Whether it is a predefined group	N/A	Boolean: • true • false

RBAC/FeaturesInGroup

RBAC Feature In Group table.

XML structure

```
<RBAC>
  <FeaturesInGroup>
    <Feature>
      <GroupName></GroupName>
      <FeatureName></FeatureName>
    </Feature>
  </FeaturesInGroup>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	FeaturesInGroup
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the group	Index	String. Length: 1 to 31 characters.
FeatureName	Name of the feature	Index	String. Length: 1 to 15 characters.

Contents

RBAC 2
RBAC/Roles 2
RBAC/Rules 2
RBAC/Policies/InterfacePolicies 3
RBAC/Policies/VLANPolicies 3
RBAC/Policies/VRFPolicies 3
RBAC/FeatureGroups 4

RBAC

RBAC/Roles

Message	Explanation
Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。	Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。
Maximum number of user roles already reached. 用户角色数量已达到最大。	Maximum number of user roles already reached. 用户角色数量已达到最大。
The user role doesn't exist. 指定的用户角色不存在。	The user role doesn't exist. 指定的用户角色不存在。

RBAC/Rules

Message	Explanation
Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。	Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。
Maximum number of rules already reached. 规则数量已达到最大。	Maximum number of rules already reached. 规则数量已达到最大。
The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。	The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。
The user role doesn't exist. 该用户角色不存在。	The user role doesn't exist. 该用户角色不存在。
Only the middle position of the last segment can contain the wildcard (*). 通配符*只能存在于最后一段的中间位置。	Only the middle position of the last segment can contain the wildcard (*). 通配符*只能存在于最后一段的中间位置。
A segment starting with the wildcard (*) can't contain any other characters, and it must be the last segment. 以通配符*开头的段只能存在通配符且必须是最后一段。	A segment starting with the wildcard (*) can't contain any other characters, and it must be the last segment. 以通配符*开头的段只能存在通配符且必须是最后一段。
No unprintable characters other than TAB anc blank spaces are allowed. 不允许出现TAB键和空格以外的不可见字符。	No unprintable characters other than TAB anc blank spaces are allowed. 不允许出现TAB键和空格以外的不可见字符。
Every segment of the command matching string contains at least one printable character. 命令字符串的每段至少包含一个可见字符。	Every segment of the command matching string contains at least one printable character. 命令字符串的每段至少包含一个可见字符。

RBAC/Policies/InterfacePolicies

Message	Explanation
Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。	Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。
The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。	The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。
The user role doesn't exist. 该用户角色不存在。	The user role doesn't exist. 该用户角色不存在。
The start and end interfaces must be of the same type, and the end interface number must be greater than the start interface number. 起始接口类型必须和终止接口类型一致且结束接口号必须大于起始接口号。	The start and end interfaces must be of the same type, and the end interface number must be greater than the start interface number. 起始接口类型必须和终止接口类型一致且结束接口号必须大于起始接口号。

RBAC/Policies/VLANPolicies

Message	Explanation
Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。	Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。
The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。	The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。
The user role doesn't exist. 该用户角色不存在。	The user role doesn't exist. 该用户角色不存在。
The end VLAN ID must be greater than the start VLAN ID. 结束VLAN ID必须大于起始VLAN ID。	The end VLAN ID must be greater than the start VLAN ID. 结束VLAN ID必须大于起始VLAN ID。

RBAC/Policies/VRFPolicies

Message	Explanation
Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。	Can't delete or modify this system predefined user role. 系统预定义用户角色不能被删除或修改。
The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。	The deny operation should be configured before the permit operation. 配置该策略之前，应该先禁止所有实例的操作权限。
The user role doesn't exist. 该用户角色不存在。	The user role doesn't exist. 该用户角色不存在。

RBAC/FeatureGroups

Message	Explanation
The feature group doesn't exist. 特性组不存在。	The feature group doesn't exist. 特性组不存在。
Can't delete or modify the system predefined feature group. 系统预定义的特性组不能删除或修改。	Can't delete or modify the system predefined feature group. 系统预定义的特性组不能删除或修改。
Maximum number of feature groups already reached. 特性组数量已达到最大。	Maximum number of feature groups already reached. 特性组数量已达到最大。

Contents

RDDC 1
RDDC/RedundancySwitchoverRequest 1
XML structure 1
Table description 1
Columns 1
RDDC/RedundancySwitchoverReset 1
XML structure 1
Table description 2
Columns 2
RDDC/ RedundancyGroupClear 2
XML structure 2
Table description 2
Columns 3

RDDC

RDDC/RedundancySwitchoverRequest

This table is used to switch over the redundancy goup manually.

XML structure

```
<RDDC>
  <RedundancySwitchoverRequest>
    <SwitchoverRequest>
      <GroupName></GroupName>
    </SwitchoverRequest>
  </RedundancySwitchoverRequest>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancySwitchoverRequest
Table type	Multi-instance table
Row name	SwitchoverRequest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.

RDDC/RedundancySwitchoverReset

This table is used to trigger preemption in redundancy goup manually.

XML structure

```
<RDDC>
  <RedundancySwitchoverReset>
    <SwitchoverReset>
      <GroupName></GroupName>
```

```
    </SwitchoverReset>
  </RedundancySwitchoverReset>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancySwitchoverReset
Table type	Multi-instance table
Row name	SwitchoverReset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.

RDDC/ RedundancyGroupClear

This table is used to clear redundancy group node or redundancy group itself.

XML structure

```
<RDDC>
  <RedundancyGroupClear>
    <RedundancyClear>
      <GroupName></GroupName>
      <NodeID></NodeID>
    </RedundancyClear>
  </RedundancyGroupClear>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupClear
Table type	Multi-instance table
Row name	RedundancyClear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	If you do not specify this column, clear the group.

Contents

RDDC 1
RDDC/RedundancyInterfaceMember 1
XML structure 1
Table description 1
Columns 1
RDDC/RedundancyGroup 2
XML structure 2
Table description 2
Columns 2
RDDC/RedundancyGroupMember 3
XML structure 3
Table description 3
Columns 3
RDDC/RedundancyFailoverGroup 4
XML structure 4
Table description 4
Columns 4
RDDC/RedundancyGroupNode 4
XML structure 4
Table description 5
Columns 5
RDDC/RedundancyGroupTrack 5
XML structure 5
Table description 6
Columns 6
RDDC/RedundancyGroupNodeMember 6
XML structure 6
Table description 7
Columns 7

RDDC

RDDC/RedundancyInterfaceMember

This table contains member interface information in redundancy interface.

XML structure

```
<RDDC>
  <RedundancyInterfaceMember>
    <MemberInterface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <Priority></Priority>
    </MemberInterface>
  </RedundancyInterfaceMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyInterfaceMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 3 Ethernet interface Layer 3 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.
MemberIfIndex	Member interface index.	Index	Unsigned integer.	N/A
Priority	Priority of the member interface	N/A	Unsigned integer. Value range: 1 to 255.	Required. The higher the value, the greater the priority.

RDDC/RedundancyGroup

This table contains redundancy group information.

XML structure

```
<RDDC>
  <RedundancyGroup>
    <Group>
      <GroupName></GroupName>
      <PreemptDelay></PreemptDelay>
      <HoldDownInterval></HoldDownInterval>
    </Group>
  </RedundancyGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
PreemptDelay	Preempt delay time of redundancy group node	N/A	Unsigned integer. Value range: 0 to 12 minutes. Default: 1 minute.	0 means no switchover.
HoldDownInterval	Hold-down time	N/A	Unsigned integer. Value range: 0 to 1800 seconds. Default: 1 second	0 means not to hold down in switchover.

RDDC/RedundancyGroupMember

This table contains redundancy interface information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyGroupMember>
    <MemberInterface>
      <GroupName></GroupName>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

RDDC/RedundancyFailoverGroup

This table contains failover group information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyFailoverGroup>
    <FailoverGroup>
      <GroupName></GroupName>
      <FailoverGroupName></FailoverGroupName>
    </FailoverGroup>
  </RedundancyFailoverGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyFailoverGroup
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
FailoverGroupName	Failover group name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A

RDDC/RedundancyGroupNode

This table contains redundancy group node information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyGroupNode>
    <Node>
      <GroupName></GroupName>
```

```
      <NodeID></NodeID>
      <Priority></Priority>
      <BindChassis></BindChassis>
    </Node>
  </RedundancyGroupNode>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNode
Table type	Multi-instance table
Row name	Node
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
Priority	Priority of this redundancy group node	N/A	Unsigned integer. Value range: 1 to 255. Default: 1.	The higher the value, the greater the priority.
BindChassis	The bound chassis ID	N/A	Unsigned integer.	N/A

RDDC/RedundancyGroupTrack

This table contains track information of redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupTrack>
    <Track>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <TrackID></TrackID>
      <ReducePriority></ReducePriority>
```

```
      <IfIndex></IfIndex>
    </Track>
  </RedundancyGroupTrack>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupTrack
Table type	Multi-instance table
Row name	Track
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
TrackID	The track ID	Index	Unsigned integer. Value range: 1to 1024.	N/A
ReducePriority	Reduce priority of redundancy group node	N/A	Unsigned integer. Value range: 1to 255. Default: 255.	N/A
IfIndex	Track interface index.	N/A	Unsigned integer.	N/A

RDDC/RedundancyGroupNodeMember

This table contains member interface information in redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupNodeMember>
    <MemberInterface>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <IfIndex></IfIndex>
    </MemberInterface>
```

```
  </RedundancyGroupNodeMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNodeMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	Bind redundancy group node with chassis first. This table supports member interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The interface must belong to the chassis bound with the redundancy group node. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Contents

RDDC 1
RDDC/RedundancyInterfaceMember 1
XML structure 1
Table description 1
Columns 1
RDDC/RedundancyGroup 2
XML structure 2
Table description 2
Columns 2
RDDC/RedundancyGroupMember 3
XML structure 3
Table description 3
Columns 4
RDDC/RedundancyFailoverGroup 4
XML structure 4
Table description 4
Columns 4
RDDC/RedundancyGroupNode 5
XML structure 5
Table description 5
Columns 5
RDDC/RedundancyGroupTrack 6
XML structure 6
Table description 6
Columns 6
RDDC/RedundancyGroupNodeMember 7
XML structure 7
Table description 7
Columns 8

RDDC

RDDC/RedundancyInterfaceMember

This table contains member interface information in redundancy interface.

XML structure

```
<RDDC>
  <RedundancyInterfaceMember>
    <MemberInterface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <Priority></Priority>
      <ActiveStatus></ActiveStatus>
      <HoldStatus></HoldStatus>
    </MemberInterface>
  </RedundancyInterfaceMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyInterfaceMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 3 Ethernet interface Layer 3 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.
MemberIfIndex	Member interface index.	Index	Unsigned integer.	N/A
Priority	Priority of the member interface	N/A	Unsigned integer. Value range: 1 to 255.	The higher the value, the greater the priority.

Column name	Column description	Column type	Data type and restrictions	Remarks
ActiveStatus	Active status of member interface	N/A	Enumeration: • 0—Inactive. • **1**—Active.	N/A
HoldStatus	Hold status of member interface	N/A	Enumeration: • 0—Absent. • **1**—Normal.	N/A

RDDC/RedundancyGroup

This table contains redundancy group information.

XML structure

```
<RDDC>
  <RedundancyGroup>
    <Group>
      <GroupName></GroupName>
      <PreemptDelay></PreemptDelay>
      <HoldDownInterval></HoldDownInterval>
      <HoldDownTimeRemained></HoldDownTimeRemained>
      <PreemptDelayRemained></PreemptDelayRemained>
      <SwitchoverRequest></SwitchoverRequest>
    </Group>
  </RedundancyGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PreemptDelay	Preempt delay time of redundancy group node	N/A	Unsigned integer. Value range: 0 to 12 minutes.	0 means no switchover.
HoldDownInterval	Hold-down time	N/A	Unsigned integer. Value range: 0 to 1800 seconds.	0 means not to hold down in switchover.
HoldDownTimeRemained	Remained hold-down time when a switchover occurred or a failover recovery.	N/A	Unsigned integer. Value range: 0 to 1800 seconds.	N/A
PreemptDelayRemained	Preempt delay time remained when a failover recovery.	N/A	Unsigned integer. Value range: 0 to 12 minutes.	N/A
SwitchoverRequest	Whether request a switchover to the low-priority node or not.	N/A	Boolean: • **true** • **false(default)**	N/A

RDDC/RedundancyGroupMember

This table contains redundancy interface information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyGroupMember>
    <MemberInterface>
      <GroupName></GroupName>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	**N/A**
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.

RDDC/RedundancyFailoverGroup

This table contains failover group information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyFailoverGroup>
    <FailoverGroup>
      <GroupName></GroupName>
      <FailoverGroupName></FailoverGroupName>
    </FailoverGroup>
  </RedundancyFailoverGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyFailoverGroup
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
FailoverGroupName	Failover group name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A

RDDC/RedundancyGroupNode

This table contains the information of redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupNode>
    <Node>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <Priority></Priority>
      <BindChassis></BindChassis>
      <TrackWeight></TrackWeight>
      <Status></Status>
    </Node>
  </RedundancyGroupNode>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNode
Table type	Multi-instance table
Row name	Node
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
Priority	Priority of this redundancy group node	N/A	Unsigned integer. Value range: 1 to 255.	The higher the value, the greater the priority.
BindChassis	The bound chassis ID	N/A	Unsigned integer.	N/A
TrackWeight	The current weight of this redundancy group node.	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The current status of this redundancy group node.	N/A	Enumeration: • **1**—Secondary. • **2**—Primary.	N/A

RDDC/RedundancyGroupTrack

This table contains track information of redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupTrack>
    <Track>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <TrackID></TrackID>
      <ReducePriority></ReducePriority>
      <Status></Status>
      <IfIndex></IfIndex>
      <FailInterface></FailInterface>
      <HoldStatus></HoldStatus>
    </Track>
  </RedundancyGroupTrack>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupTrack
Table type	Multi-instance table
Row name	Track
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.

Column name	Column description	Column type	Data type and restrictions
TrackID	The track ID	Index	Unsigned integer. Value range: 1to 1024.
ReducePriority	Reduce priority of redundancy group node	N/A	Unsigned integer. Value range: 1to 255.
Status	Track Status	N/A	Enumeration: • **1**—Positive. • **2**—Negative.
IfIndex	Track interface index.	N/A	Unsigned integer.
FailInterface	Whether the trace interface is fault.	N/A	Boolean: • true • false
HoldStatus	The trace interface status.	N/A	Enumeration: • **0**—Absend. • **1**—Normal.

RDDC/RedundancyGroupNodeMember

This table contains member interface information in redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupNodeMember>
    <MemberInterface>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <IfIndex></IfIndex>
      <RedundancyDown></RedundancyDown>
    </MemberInterface>
  </RedundancyGroupNodeMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNodeMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 2 Ethernet interface

	Layer 3 Ethernet interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Redundancy Down	Whether the interface is redundancy down.	N/A	Boolean: • true • false	N/A

Contents

RDDC 1
RDDC/RedundancyInterfaceMember 1
RDDC/RedundancyGroup 2
RDDC/RedundancyGroupMember 2
RDDC/RedundancyFailoverGroup 2
RDDC/RedundancyGroupNode 3
RDDC/RedundancyGroupTrack 3
RDDC/RedundancyGroupNodeMember 4
RDDC/RedundancySwitchoverRequest 5
RDDC/RedundancySwitchoverReset 5
RDDC/RedundancyGroupClear 5

RDDC

RDDC/RedundancyInterfaceMember

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 当前配置不符合配置要求。请按照配置指导进行配置。
Number of redundancy groups exceeded the limit. 冗余组个数超过上限。	Number of redundancy groups exceeded the limit, please check ths specifications of the device. 冗余组个数超过上限。请检查设备规格。
The interface is already a member of another Reth interface. 该接口已经是其它冗余口的成员接口。	The interface is already a member of another Reth interface, please modify configuration under guidance. 该接口已经是其它冗余口的成员接口。请按照配置指导进行配置。
A member interface with the same priority already exists. 相同优先级的成员接口已经存在。	A member interface with the same priority already exists, please modify configuration under guidance. 相同优先级的成员接口已经存在。请按照配置指导进行配置。
Number of members exceeded the limit on the Reth interface. 冗余口的成员接口个数超过上限。	Number of members exceeded the limit on the Reth interface, please check ths specifications of the device. 冗余口的成员接口个数超过上限。请检查设备规格。
This interface is already a member of the Reth interface. 该接口已经是此以太网冗余接口的成员。	This interface is already a member of the Reth interface, please modify configuration under guidance. 该接口已经是此以太网冗余接口的成员。请按照配置指导进行配置。
The interface is already a member of a redundancy group. 该接口已经是一个冗余组的成员接口。	The interface is already a member of a redundancy group, please modify configuration under guidance. 该接口已经是一个冗余组的成员接口。请按照配置指导进行配置。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please modify configuration under guidance. 当前配置不符合配置要求。请按照配置指导进行配置。
Members of a Reth interface can't be members of an aggregation group. 冗余口的成员接口不能为聚合口的成员接口。	Members of a Reth interface can't be members of an aggregation group, please modify configuration under guidance. 冗余口的成员接口不能为聚合口的成员接口。请按照配置指导进行配置。

RDDC/RedundancyGroup

Message	Explanation
Number of redundancy groups exceeded the limit. 冗余组个数超过上限。	Number of redundancy groups exceeded the limit, please check ths specifications of the device. 冗余组个数超过上限。请检查设备规格。
Can't delete the redundancy group because it contains members (Reth interfaces or failover groups) or redundancy group nodes. 冗余组内存在冗余口、备份组或者冗余组节点，不能删除。	Can't delete the redundancy group because it contains members (Reth interfaces or failover groups) or redundancy group nodes, please modify configuration under guidance. 冗余组内存在冗余口、备份组或者冗余组节点，不能删除。请按照配置指导进行配置。

RDDC/RedundancyGroupMember

Message	Explanation
The Reth interface is already in another redundancy group. 该冗余口已加入其它冗余组。	The Reth interface is already in another redundancy group, please modify configuration under guidance. 该冗余口已加入其它冗余组。请按照配置指导进行配置。
The specified redundancy group doesn't exist. 指定的冗余组不存在。	The specified redundancy group doesn't exist, please modify configuration under guidance. 指定的冗余组不存在。请按照配置指导进行配置。

RDDC/RedundancyFailoverGroup

Message	Explanation
The failover group is already in another redundancy group. 该备份组已加入其它冗余组。	The failover group is already in another redundancy group, please modify configuration under guidance. 该备份组已加入其它冗余组。请按照配置指导进行配置。
Number of failover groups exceeded the limit. 备份组成员个数超过上限。	Number of failover groups exceeded the limit, please check ths specifications of the device. 备份组成员个数超过上限。请检查设备规格。
Number of Reth interfaces exceeded the limit. 冗余组的成员接口个数超过上限。	Number of Reth interfaces exceeded the limit, please check ths specifications of the device. 冗余组的成员接口个数超过上限。请检查设备规格。
The specified redundancy group doesn't exist. 指定的冗余组不存在。	The specified redundancy group doesn't exist please modify configuration under guidance. 指定的冗余组不存在。请按照配置指导进行配置。
The specified failover group doesn't exist. 指定的备份组不存在。	The specified failover group doesn't exist please modify configuration under guidance. 指定的备份组不存在。请按照配置指导进行配置。

RDDC/RedundancyGroupNode

Message	Explanation
Please first remove the node and chassis binding. 请先解除冗余组节点和成员设备间的绑定关系。	Invalid configuration, please modify configuration under guidance. 请先解除冗余组节点和成员设备间的绑定关系。请按照配置指导进行配置。
This node has members or Track configuration. 该冗余组节点下存在成员或者Track配置。	This node has members or Track configuration, please modify configuration under guidance. 该冗余组节点下存在成员或者Track配置。请按照配置指导进行配置。
The chassis has been bound to the other node of the redundancy group. 该成员设备已和该冗余组下的另一节点绑定。	The chassis has been bound to the other node of the redundancy group, please modify configuration under guidance. 该成员设备已和该冗余组下的另一节点绑定。请按照配置指导进行配置。
The specified redundancy group doesn't exist. 指定的冗余组不存在。	The specified redundancy group doesn't exist, please modify configuration under guidance. 指定的冗余组不存在。请按照配置指导进行配置。
Invalid chassis number. 非法的成员编号。	Invalid chassis number, please modify configuration under guidance. 非法的成员编号。请按照配置指导进行配置。
Members of a Reth interface can't be interfaces shared by contexts. 冗余口的成员接口不能为共享口。	Members of a Reth interface can't be interfaces shared by contexts, please modify configuration under guidance. 冗余口的成员接口不能为共享口。请按照配置指导进行配置。

RDDC/RedundancyGroupTrack

Message	Explanation
Can't specify the same interface in track entries associated with chassis in the same redundancy group. 同一冗余组的Track项不能关联同一个接口。	Can't specify the same interface in track entries associated with chassis in the same redundancy group, please modify configuration under guidance. 同一冗余组的Track项不能关联同一个接口。请按照配置指导进行配置。
Number of track entries associated with the chassis exceeded the limit. 和冗余组成员设备关联的Track项的个数超过上限。	Number of track entries associated with the chassis exceeded the limit, please modify configuration under guidance. 和冗余组成员设备关联的Track项的个数超过上限。请按照配置指导进行配置。
The track entry has been associated with	The track entry has been associated with another chassis,

another chassis. 该Track项已关联其它成员设备。	please modify configuration under guidance. 该Track项已关联其它成员设备。请按照配置指导进行配置。
Please first bind a chassis to the node. 请先为节点绑定成员设备。	Invalid configuration, please modify configuration under guidance. 请先为节点绑定成员设备。请按照配置指导进行配置。
Malloc failure. 内存分配失败。	The device does not have enough memory resource. 设备内存不足，请减少部门配置，释放内存。
Track entry registration failure. 注册Track项失败。	Track entry registration failure, please modify configuration under guidance. 注册Track项失败。请按照配置指导进行配置。
This interface is not on the chassis bound to the redundancy group. 接口不在与冗余组绑定的成员设备上。	This interface is not on the chassis bound to the redundancy group, please modify configuration under guidance. 接口不在与冗余组绑定的成员设备上。请按照配置指导进行配置。
Number of chassis-specific member interfaces exceeded the limit. 该成员设备绑定的成员接口个数超过上限。	Number of chassis-specific member interfaces exceeded the limit, please modify configuration under guidance. 该成员设备绑定的成员接口个数超过上限。请按照配置指导进行配置。
Can't add the interface because it is a member of a Reth interface. 不能加入该接口，该接口已经是冗余口的成员接口。	Can't add the interface because it is a member of a Reth interface, please modify configuration under guidance. 不能加入该接口，该接口已经是冗余口的成员接口。请按照配置指导进行配置。
This interface has been assigned to another redundancy group. 该接口已加入其它冗余组。	This interface has been assigned to another redundancy group, please modify configuration under guidance. 该接口已加入其它冗余组。请按照配置指导进行配置。
The chassis has been bound to another redundancy group. 该机框已经绑定到其他冗余组上。	The chassis has been bound to another redundancy group, please modify configuration under guidance. 该机框已经绑定到其他冗余组上。请按照配置指导进行配置。
The specified redundancy group doesn't exist. 指定的冗余组不存在。	The specified redundancy group doesn't exist, please modify configuration under guidance. 指定的冗余组不存在。请按照配置指导进行配置。
The specified chassis doesn't exist. 指定的冗余组成员设备不存在。	The specified chassis doesn't exist, please modify configuration under guidance. 指定的冗余组成员设备不存在。请按照配置指导进行配置。

RDDC/RedundancyGroupNodeMember

Message	Explanation
The specified redundancy group doesn't exist. 指定的冗余组不存在。	The specified redundancy group doesn't exist, please modify configuration under guidance. 指定的冗余组不存在。请按照配置指导进行配置。

The specified chassis doesn't exist. 指定的冗余组成员设备不存在。	The specified chassis doesn't exist, please modify configuration under guidance. 指定的冗余组成员设备不存在。请按照配置指导进行配置。

RDDC/RedundancySwitchoverRequest

Message	Explanation

RDDC/RedundancySwitchoverReset

Message	Explanation

RDDC/RedundancyGroupClear

Message	Explanation

Contents

REDISDBM 1
REDISDBM/ServerVpn 1
XML structure 1
Table description 1
Columns 1
REDISDBM/ResumeWaiting 1
XML structure 1
Table description 2
Columns 2

REDISDBM

REDISDBM/ServerVpn

This table is used to specify the VRF used to connect to the Redis servers.

XML structure

```
<REDISDBM>
  <ServerVpn>
    <VRF></VRF>
  </ServerVpn>
</REDISDBM>
```

Table description

Item	Description
Feature name	REDISDBM
Table name	ServerVpn
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Public instances don't support the column.

REDISDBM/ResumeWaiting

This table is used to set the delay time before resuming data from the Redis servers.

XML structure

```
<REDISDBM>
  <ResumeWaiting>
    <ResumeWaitTime></ResumeWaitTime>
  </ResumeWaiting>
</REDISDBM>
```

Table description

Item	Description
Feature name	REDISDBM
Table name	ResumeWaiting
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResumeWaitTime	Resumption delay time	N/A	Unsigned integer. Value range: 0 to 20. Unit: minutes.	0 represents that automatic data resumption is disabled. The default value is 3.

Contents

REDISDBM 1
REDISDBM/ServerVpn 1
XML structure 1
Table description 1
Columns 1
REDISDBM/ResumeWaiting 1
XML structure 1
Table description 2
Columns 2

REDISDBM

REDISDBM/ServerVpn

This table is used to get the VRF used to connect to the Redis servers .

XML structure

```
<REDISDBM>
  <ServerVpn>
    <VRF></VRF>
  </ServerVpn>
</REDISDBM>
```

Table description

Item	Description
Feature name	REDISDBM
Table name	ServerVpn
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

REDISDBM/ResumeWaiting

This table is used to obtain the delay time before resuming data from the Redis servers.

XML structure

```
<REDISDBM>
  <ResumeWaiting>
    <ResumeWaitTime></ResumeWaitTime>
  </ResumeWaiting>
</REDISDBM>
```

Table description

Item	Description
Feature name	REDISDBM
Table name	ResumeWaiting
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResumeWaitTime	Resumption delay time	N/A	Unsigned integer. Value range: 0 to 20. Unit: minutes.	0 represents that automatic data resumption is disabled. The default value is 3.

Contents

ResourceMonitor 1
ResourceMonitor/Configuration 1
XML structure 1
Table description 1
Columns 1
ResourceMonitor/Resources 2
XML structure 2
Table description 2
Columns 3
ResourceMonitor/ResourcesEx 3
XML structure 3
Table description 4
Columns 4

ResourceMonitor

ResourceMonitor/Configuration

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Configuration>
      <MinorResendEnable></MinorResendEnable>
      <SyslogOutput></SyslogOutput>
      <SnmpNotificationOutput></SnmpNotificationOutput>
      <NetconfEventOutput></NetconfEventOutput>
  </Configuration>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinorResendEnable	Minor event resend enable monitoring	N/A	Boolean: • **true** • **false** Default: true	N/A
SyslogOutput	output enable for syslog	N/A	Boolean: • **true** • **false** Default: true	N/A
SnmpNotificationOutput	output enable for SNMP notification		Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false** Default: true	
NetconfEventOutput	output enable for NETCONF event		Boolean: • **true** • **false** Default: true	N/A

ResourceMonitor/Resources

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Resources>
    <Resource>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
    </Resource>
  </Resources>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Resources
Table type	Multi-instance table
Row name	Resource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A

ResourceMonitor/ResourcesEx

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <ResourcesEx>
    <Resource>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
```

```
    </Resource>
  </ResourcesEx>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	ResourcesEx
Table type	Multi-instance table
Row name	Resource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A

Contents

ResourceMonitor 1

ResourceMonitor/Configuration 1
XML structure 1
Table description 1
Columns 1
ResourceMonitor/Resources 2
XML structure 2
Table description 2
Columns 2
ResourceMonitor/Monitors 3
XML structure 3
Table description 4
Columns 4
ResourceMonitor/ResourcesEx 4
XML structure 5
Table description 5
Columns 5
ResourceMonitor/MonitorsEx 6
XML structure 6
Table description 6
Columns 7

ResourceMonitor

ResourceMonitor/Configuration

This table contains system configuration about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Configuration>
      <MinorResendEnable></MinorResendEnable>
      <SyslogOutput></SyslogOutput>
      <SnmpNotificationOutput></SnmpNotificationOutput>
      <NetconfEventOutput></NetconfEventOutput>
  </Configuration>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinorResendEnable	Minor event resend enable monitoring	N/A	Boolean: • **true** • **false** Default: true	N/A
SyslogOutput	Output enable for syslog	N/A	Boolean: • **true** • **false** Default: true	N/A
SnmpNotificationOutput	Output enable for SNMP notification		Boolean: • **true** • **false** Default: true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NetconfEventOutput	Output enable for NETCONF event		Boolean: • **true** • **false** Default: true	N/A

ResourceMonitor/Resources

This table contains thresholds information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Resources>
    <Resource>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
    </Resource>
  </Resources>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Resources
Table type	Multi-instance table
Row name	Resource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Slot • CPUID	
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A

ResourceMonitor/Monitors

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Monitors>
    <Monitor>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <Used></Used>
      <Free></Free>
      <Total></Total>
```

```
    </Monitor>
  </Monitors>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Monitors
Table type	Multi-instance table
Row name	Monitor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
Used	Used resource size	N/A	Unsigned integer Value range: 0 to 2^{32} - 1	N/A
Free	Free resource size	N/A	Unsigned integer Value range: 0 to 2^{32} - 1	N/A
Total	Total resource size	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1	N/A

ResourceMonitor/ResourcesEx

This table contains thresholds information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <ResourcesEx>
    <Resource>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
    </Resource>
  </ResourcesEx>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	ResourcesEx
Table type	Multi-instance table
Row name	Resource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			When uint is absolute, value range 0 to 2^{32} - 1	
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When uint is absolute, value range 0 to 2^{32} - 1	N/A

ResourceMonitor/MonitorsEx

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <MonitorsEx>
    <Monitor>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Name></Name>
      <Unit></Unit>
      <Used></Used>
      <Free></Free>
      <Total></Total>
    </Monitor>
  </MonitorsEx>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	MonitorsEx
Table type	Multi-instance table
Row name	Monitor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: • absolute • percentage	N/A
Used	Used resource size	N/A	Unsigned integer Value range: 0 to 2^{32} - 1	N/A
Free	Free resource size	N/A	Unsigned integer Value range: 0 to 2^{32} - 1	N/A
Total	Total resource size	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1	N/A

Contents

ResourceEvent event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2

ResourceEvent event

This event is used to report resource alarm information.

XML structure for event subscription

```
<ResourceEvent>
  <Resource>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Name></Name>
  </Resource>
</ResourceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ResourceMonitor</stream>
    <filter type="subtree">
      <ResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0">
        <Resource>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <Name>acl</Name>
        </Resource>
      </ResourceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ResourceMonitor
Event name	ResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity	Unsigned integer. Value range: 0 to 65535.	No

Column name	Column description	Data type and restrictions	Support for extended queries
	resides.		
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	No
ResourceName	Resource name	String: Size:1~31	No

XML structure for event report

```
<ResourceEvent>
  <Resource>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Name></Name>
    <Description></Description>
    <Uint></Uint>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <MinorThreshold></MinorThreshold>
    <SevereThreshold></SevereThreshold>
    <AdditionalInfo></AdditionalInfo>
  </Resource>
</ResourceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>ResourceMonitor</stream>
    <filter type="subtree">
      <ResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0">
        <Resource>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <Name>ACL</Name>
         <Description>RESMON_MINOR</Description>
          <Uint>1</Uint>
          <Total>1000</Total>
          <Used>920</Used>
          <Free>80</Free>
          <MinorThreshold>200</MinorThreshold>
```

```
        <SevereThreshold>100</SevereThreshold>
        <AdditionalInfo>check rip</AdditionalInfo>
      </Resource>
    </ResourceEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ResourceMonitor
Event name	ResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	No
Name	Resource name	String: Size:1~31	No
Description	Resmon event description.	Enumeration: • RESMON_MINOR • RESMON_ SEVERE • RESMON_ USEDUP • RESMON_MINOR _RECOVERY • RESMON_ SEVERE _RECOVERY • RESMON_ USEDUP _RECOVERY	No
Uint	Unit of resource	Enumeration: • absolute • percentage	No
Total	Total resource size(absolute)	Unsigned integer. Value range: 0 to 2^{32} - 1	No
Used	Size of the used resource size (absolute)	Unsigned integer. Value range: 0 to 2^{32} - 1	No
Free	Size of the free resource size	Unsigned integer. Value range: 0 to 2^{32} - 1	No

Column name	Column description	Data type and restrictions	Support for extended queries
MinorThreshold	The free resource threshold for minor condition	Unsigned integer. Value range: 0 to 2^{32} - 1	No
SevereThreshold	The free resource threshold for severe condition	Unsigned integer. Value range: 0 to 2^{32} - 1	No
AdditionalInfo	Additional information for the notification.	String: Size:0~255	No

Contents

WLANClient 1
WLANClient/ RfpingInformation 1
XML structure 1
Table description 1
Columns 2

WLANClient

WLANClient/ RfpingInformation

This table contains station 13n information.

XML structure

```
<WLANClient>
  <RfpingInformation>
    <RfpingTest>
      <MacAddress></MacAddress>
      <ErrCode></ErrCode>
      <StaMode></StaMode>
      <Rfping>
        <McsIdx></McsIdx>
        <Nss></Nss>
        <VhtMcsIdx></VhtMcsIdx>
        <TxRate></TxTate>
        <TxPktCnt></TxPktCnt>
        <RxPktCnt></RxPktCnt>
        <Rssi></Rssi>
        <RetryPktCnt></RetryPktCnt>
        <Rtt></Rtt>
      </Rfping>
    </RfpingTest>
  </RfpingInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RfpingInformation
Table type	Multi-instance table
Row name	RfpingTest
Group name	Rfping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC Address of station	index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ErrCode	Rfping Result code	column	unsigned int 0 indicates success 1 indicates STA is offline 2 indicates RF ping conflict 3 indicates STA is sleeping 4 indicates Rf ping fail	Flag of the rfping result.
StaMode	Wireless mode	column	unsigned int . 1: 802.11b 2: 802.11a 4: 802.11g 16: 802.11gn 32: 802.11an 64: 802.11ac	N/A
McsIdx	Index of 11n-MCS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11n mode. This field belong to group of Rfping.
Nss	Index of 11ac-NSS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11ac mode. This field belong to group of Rfping.
VhtMcsIdx	Index of 11ac-VHT-MCS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11ac mode. This field belong to group of Rfping.
TxRate	Transmit rate	column	unsigned int, range: 0-65535. Unit: 100Kbps.	This field belong to group of Rfping.
TxPktCnt	Transmit package count	column	unsigned int, 5 is expected.	This field belong to group of Rfping.
RxPktCnt	Received packet count	column	unsigned int, range: 0-5.	This field belong to group of Rfping.
Rssi	Received signal strength indication	column	unsigned int	This field belong to group of Rfping.
RetryPktCnt	Retried packet count	column	unsigned int, range: 0-15	This field belong to group of Rfping.

Rtt	Round trip time	column	unsigned int. Unit: ms.	This field belong to group of Rfping.

Contents

RIP 1
RIP/Instances 1
XML structure 1
Table description 1
Columns 1
RIP/Networks 2
XML structure 2
Table description 3
Columns 3
RIP/Redistributes 3
XML structure 3
Table description 4
Columns 4
RIP/Interfaces 5
XML structure 5
Table description 6
Columns 6
RIP/FilterPolicyExports 8
XML structure 8
Table description 9
Columns 9
RIP/FilterPolicyImports 10
XML structure 10
Table description 10
Columns 11

RIP

RIP/Instances

This table contains RIP instances information.

XML structure

```
<RIP>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <Summary></Summary>
      <Version></Version>
      <GarbageCollectTimer></GarbageCollectTimer>
      <SuppressTimer></SuppressTimer>
      <TimeoutTimer></TimeoutTimer>
      <UpdateTimer></UpdateTimer>
      <BfdAllInterfaces></BfdAllInterfaces>
    </Instance>
  </Instances>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	Only unsigned integer ranging from 1 to 65535 is supported now.
VRF	Vrf name.	N/A	String.	After an instance is created, its VRF

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	cannot be modified.
Summary	Enable route summarization.	N/A	Boolean: • **true—**Enable route summarization (default). • **false—**Disable route summarization	N/A
Version	Version of RIP.	N/A	Enumeration: • 0—Not specified (default). • 1—Version 1. • 2—Version 2.	N/A
GarbageCollectTimer	RIP garbage-collect interval	N/A	Unsigned integer. Value range: 1 to 3600, in seconds. Default: 120 seconds.	N/A
SuppressTimer	RIP suppress interval.	N/A	Unsigned integer. Value range: 0 to 3600, in seconds. Default: 120 seconds.	N/A
TimeoutTimer	RIP timeout time.	N/A	Unsigned integer. Value range: 1 to 3600, in seconds. Default: 180 seconds.	N/A
UpdateTimer	RIP update interval.	N/A	Unsigned integer. Value range: 1 to 3600, in seconds. Default: 30 seconds.	N/A
BfdAllInterfaces	Whether to enable BFD on all interfaces of a RIP process.	N/A	Enumeration: • 0—Disabled (default). • 1—Enabled echo. • 2—Enabled control.	N/A

RIP/Networks

This table contains RIP network lists information.

XML structure

```
<RIP>
  <Networks>
    <Network>
      <Name></Name>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
    </Network>
  </Networks>
```

```
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an Instance first before you merge or create networks for it. Only unsigned integer ranging from 1 to 65535 is supported now.
NetworkAddr	Network address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

RIP/Redistributes

This table contains RIP route redistribution information.

XML structure

```
<RIP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <Cost></Cost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <AllowDirect></AllowDirect>
```

```
      <Tag></Tag>
    </Redist>
  </Redistributes>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance first before you merge or create redistribute lists for it. Only unsigned integer ranging from 1 to 65535 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct • 2—Static • 3—RIP • 4—OSPF • 5—ISIS • 6—BGP • **7—**EIGRP. • **9—**UNR.	N/A
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static, Guard, or UNR. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is ISIS, OSPF, EIGRP,or RIP.

Column name	Column description	Column type	Data type and restrictions	Remarks
				It must be empty or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.
Cost	Cost for redistributed routes.	N/A	Unsigned integer. Value range: 0 to 16.	N/A
RoutePolicyName	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
AllowIBGP	Allow redistribution of IBGP routes.	N/A	Boolean: • **true—**Allow redistribution of IBGP routes. • **false—**Do not redistribute IBGP routes (default).	This column can be specified only when the protocol is BGP.
AllowDirect	Allow direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	N/A	Boolean: • **true—**Import direct routes when importing ISIS, OSPF, RIP or EIGRP routes. • **false—**Does not import direct routes when importing ISIS, OSPF, RIP or EIGRP routes (default).	This column can be specified only when the Protocol is 3, 4, 5 or 7.
Tag	Redistribute tag.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0	N/A

RIP/Interfaces

This table contains RIP interface information.

XML structure

```
<RIP>
  <Interfaces>
    <If>
      <IfIndex></IfIndex>
      <Version></Version>
      <IfEnable>
        <Name></Name>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <MetricIn></MetricIn>
```

```
      <MetricInPolicy></MetricInPolicy>
      <BfdEnable></BfdEnable>
      <BfdMode></BfdMode>
      <BfdDestination></BfdDestination>
      <Input></Input>
      <Output></Output>
      <Authentication>
        <AuthType></AuthType>
        <PasswordType></PasswordType>
        <Password></Password>
        <KeyId></KeyId>
      </Authentication>
    </If>
  </Interfaces>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Interfaces
Table type	Multi-instance table
Row name	If
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Version	Interface version.	N/A	Enumeration: • 1—RIPV1 • 2—RIPV2 • 3—RIPV2 Broadcast	N/A
IfEnable	Interface enable messages.	N/A	Members include: • Name.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ExcludedSubIp.	
Name	Instance name.	N/A	String. Length: 1 to 31 characters.	Only unsigned integer ranging from 1 to 65535 is supported now.
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: • **true**—Exclude secondary IP addresses. • **false—**Does not exclude secondary IP addresses(default).	N/A
MetricIn	Metric to be added to inbound routes	N/A	Unsigned integer. Value range:0 to 16. Default: 0.	N/A
MetricInPolicy	Name of the routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
BfdEnable	Whether or not to enable BFD for RIP on the interface.	N/A	Enumeration: • 0—Inherit from RIP instance (default). • 1—Enable BFD. • 2—Disable BFD.	N/A
BfdMode	BFD session mode.	N/A	Enumeration: • 0—Not specified. Control-mode BFD is used for indirect neighbors and echo-mode BFD is used for direct neighbors. • 1—Ctrl. Control-mode BFD is used for both indirect neighbors and direct neighbors.	This column can be specified only when BfdEnable is true. You can only set BfdMode or BfdDestination at the same time.
BfdDestination	Destination IP address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	This column can be specified only when BfdEnable is true. You can only set BfdMode or BfdDestination at the same time.
Input	Whether to receive RIPpackets.	N/A	Boolean: • true—Receive RIP packets (default). • false—Does not receive RIP packets.	N/A
Output	Whether to send RIPpackets.	N/A	Boolean: • true—Send RIP packets (default). • false—Does not send RIP packets.	N/A
Authentication	Authentication	N/A	Members include:	The members of AuthType,

Column name	Column description	Column type	Data type and restrictions	Remarks
	messages.		• AuthType. • PasswordType. • Password. • KeyId.	PasswordType and Password must be specified. If AuthType column is Md5Rfc2082, KeyId must be specified.
AuthType	Authentication type.	N/A	Enumeration: • 1—Simple. • 2—Md5Rfc2082. • 3—Md5Rfc2453.	N/A
PasswordType	Password type.	N/A	Enumeration: • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.	N/A	String. Length: • 1 to 16 characters for plain password. • 33 to 53 characters for cipher password.	N/A
KeyId	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	This column is available when the AuthType column is Md5Rfc2082. It must be empty when the AuthType column is Simple or Md5Rfc2453.

RIP/FilterPolicyExports

This table contains redistributed route filtering policy information.

XML structure

```
<RIP>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <IfIndex></IfIndex>
      <ProtocolExport></ProtocolExport>
      <InstanceNameExport></InstanceNameExport>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
    </FilterPolicyExport>
  </FilterPolicyExports>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	FilterPolicyExports
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. You can only set IfIndex or ProtocolExport at the same time.
ProtocolExport	Protocol type.	Index	Enumeration: • **0**—All. • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6—**BGP. • **7—**EIGRP.	You can only set IfIndex or ProtocolExport at the same time.

InstanceNameExport	Instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the ProtocolExport column is Direct, Static, BGP, All, or empty.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set AclNum or PrefixListName at the same time.
PrefixListName	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	You can only set AclNum or PrefixListName at the same time.

RIP/FilterPolicyImports

This table contains received route filtering policy information.

XML structure

```
<RIP>
  <FilterPolicyImports>
    <FilterPolicyImport>
      <Name></Name>
      <IfIndex></IfIndex>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
      <Gateway></Gateway>
    </FilterPolicyImport>
  </FilterPolicyImports>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	FilterPolicyImports
Table type	Multi-instance table
Row name	FilterPolicyImport
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum cannot be specified when PrefixListName or Gateway is set.
PrefixListName	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	PrefixListName cannot be specified when AclNum is set.
Gateway	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Gateway cannot be specified when AclNum is set.

Contents

RIP 1
RIP/Instances 1
XML structure 1
Table description 1
Columns 1
RIP/Networks 2
XML structure 2
Table description 2
Columns 3
RIP/Redistributes 3
XML structure 3
Table description 3
Columns 4
RIP/Interfaces 5
XML structure 5
Table description 6
Columns 6
RIP/FilterPolicyExports 8
XML structure 8
Table description 8
Columns 8
RIP/FilterPolicyImports 10
XML structure 10
Table description 10
Columns 10

RIP

RIP/Instances

This table contains RIP instances information.

XML structure

```
<RIP>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <Summary></Summary>
      <Version></Version>
      <GarbageCollectTimer></GarbageCollectTimer>
      <SuppressTimer></SuppressTimer>
      <TimeoutTimer></TimeoutTimer>
      <UpdateTimer></UpdateTimer>
      <BfdAllInterfaces></BfdAllInterfaces>
    </Instance>
  </Instances>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
VRF	Vrf name.	N/A	String. Length: 1 to 31 characters.	N/A
Summary	Enable route summarization.	N/A	Boolean: • **true**—Enable route	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			summarization. • **false—**Disable route summarization	
Version	Version of RIP.	N/A	Enumeration: • 0—Not specified. • 1—Version 1. • 2—Version 2.	N/A
GarbageCollectTimer	RIP garbage-collect interval	N/A	Unsigned integer. Value range: 1 to 3600, in seconds.	N/A
SuppressTimer	RIP suppress interval.	N/A	Unsigned integer. Value range: 0 to 3600, in seconds.	N/A
TimeoutTimer	RIP timeout time.	N/A	Unsigned integer. Value range: 1 to 3600, in seconds.	N/A
UpdateTimer	RIP update interval.	N/A	Unsigned integer. Value range: 1 to 3600, in seconds.	N/A
BfdAllInterfaces	Whether to enable BFD on all interfaces of a RIP process.	N/A	Enumeration: • 0—Disabled. • 1—Enabled echo. • 2—Enabled control.	N/A

RIP/Networks

This table contains RIP network lists information.

XML structure

```
<RIP>
  <Networks>
    <Network>
      <Name></Name>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
    </Network>
  </Networks>
</RIP>
```

Table description

Item	Description
Feature name	RIP

Item	Description
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
NetworkAddr	Network IPv4 address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

RIP/Redistributes

This table contains RIP redistribute lists information.

XML structure

```
<RIP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <Protocol></Protocol>
      <RedistName></RedistName>
      <Cost></Cost>
      <RoutePolicyName></RoutePolicyName>
      <AllowIBGP></AllowIBGP>
      <AllowDirect></AllowDirect>
      <Tag></Tag>
    </Redist>
  </Redistributes>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Redistributes

Item	Description
Table type	Multi-instance table
Row name	Redist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct • 2—Static • 3—RIP • 4—OSPF • 5—ISIS • 6—BGP • 7—EIGRP. • 9—UNR.	N/A
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static, Guard, or UNR. It must be “all” or an unsigned integer in the range of 1 to 65535 if protocol is ISIS, OSPF, EIGRP,or RIP. It must be empty or an unsigned integer in the range of 1 to 4294967295 if protocol is BGP. “all” means all the process of the protocol.
Cost	Cost for redistributed routes.	N/A	Unsigned integer. Value range: 0 to 16.	N/A
RoutePolicyName	Name of the routing policy.	N/A	String : case-sensitive: Length: 1 to 63 characters.	N/A
AllowIBGP	Allow redistribution of IBGP routes	N/A	Boolean: • **true—**Allow redistribution of IBGP routes. • **false—**Do not redistribute IBGP routes.	This column can be specified only when the protocol is BGP.

Column name	Column description	Column type	Data type and restrictions	Remarks
AllowDirect	Allow direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	N/A	Boolean: • **true—**Import direct routes when importing ISIS, OSPF, RIP or EIGRP routes. • **false—**Does not import direct routes when importing ISIS, OSPF, RIP or EIGRP routes.	This column can be specified only when the Protocol is 3, 4, 5 or 7.
Tag	Redistribute tag.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

RIP/Interfaces

This table contains RIP interface information.

XML structure

```
<RIP>
  <Interfaces>
    <If>
      <IfIndex></IfIndex>
      <Version></Version>
      <IfEnable>
       <Name></Name>
       <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <MetricIn></MetricIn>
      <MetricInPolicy></MetricInPolicy>
      <BfdEnable></BfdEnable>
      <BfdMode></BfdMode>
      <BfdDestination></BfdDestination>
      <Input></Input>
      <Output></Output>
      <Authentication>
       <AuthType></AuthType>
       <PasswordType></PasswordType>
       <Password></Password>
       <KeyId></KeyId>
      </Authentication>
      <IfName></IfName>
    </If>
  </Interfaces>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Interfaces
Table type	Multi-instance table
Row name	If
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Version	Interface version.	N/A	Enumeration: • 1—RIPV1 • 2—RIPV2 • 3—RIPV2 Broadcast	N/A
IfEnable	Interface enable messages.	N/A	Members include: • Name. • ExcludedSubIp.	N/A
Name	Instance name.	N/A	String. Length: 1 to 31 characters.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: • **true**—Exclude secondary IP addresses. • **false—**Does not exclude secondary IP addresses.	N/A
MetricIn	Metric to be added to inbound routes	N/A	Unsigned integer. Value range:0 to 16.	N/A
MetricInPolicy	Name of the routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
BfdEnable	Whether or not to enable BFD for RIP on the interface.	N/A	Enumeration: • 0—Inherit from RIP instance. • 1—Enable BFD.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Disable BFD.	
BfdMode	BFD session mode.	N/A	Enumeration: • 0—Not specified. Control-mode BFD is used for indirect neighbors and echo-mode BFD is used for direct neighbors. • 1—Ctrl. Control-mode BFD is used for both indirect neighbors and direct neighbors.	This column can be specified only when BfdEnable is true. You can only set BfdMode or BfdDestination at the same time.
BfdDestination	Destination IP address of the BFD session.	N/A	IPv4: String, dotted decimal notation.	This column can be specified only when BfdEnable is true. You can only set BfdMode or BfdDestination at the same time.
Input	Whether to receive RIPpackets.	N/A	Boolean: • true—Receive RIP packets. • false—Does not receive RIP packets.	N/A
Output	Whether to send RIPpackets.	N/A	Boolean: • true—Send RIP packets. • false—Does not send RIP packets.	N/A
Authentication	Authentication messages.	N/A	Members include: • AuthType. • PasswordType. • Password. • KeyId.	N/A
AuthType	Authentication type.	N/A	Enumeration: • 1—Simple. • 2—Md5Rfc2082. • 3—Md5Rfc2453.	N/A
PasswordType	Password type.	N/A	Enumeration: • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.	N/A	String. Length: • 1 to 16 characters for plain password. • 33 to 53 characters for cipher password.	N/A
KeyId	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
IfName	Interface name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 2 to 47 characters.	

RIP/FilterPolicyExports

This table contains redistributed route filtering policy information.

XML structure

```
<RIP>
  <FilterPolicyExports>
    <FilterPolicyExport>
      <Name></Name>
      <IfIndex></IfIndex>
      <ProtocolExport></ProtocolExport>
      <InstanceNameExport></InstanceNameExport>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
      <IfName></IfName>
    </FilterPolicyExport>
  </FilterPolicyExports>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	FilterPolicyExports
Table type	Multi-instance table
Row name	FilterPolicyExport
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer

				in the range of 1 to 65535.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*. You can only set IfIndex or ProtocolExport at the same time.
ProtocolExport	Protocol type.	Index	Enumeration: • **0**—All. • **1**—Direct. • **2**—Static. • **3**—RIP. • **4**—OSPF. • **5**—ISIS. • **6—**BGP. • **7—**EIGRP.	You can only set IfIndex or ProtocolExport at the same time.
InstanceNameExport	Instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the ProtocolExport column is Direct, Static, BGP, All or empty.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	You can only set AclNum or PrefixListName at the same time.
PrefixListName	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	You can only set AclNum or PrefixListName at the same time.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	IfName

RIP/FilterPolicyImports

This table contains received route filtering policy information.

XML structure

```
<RIP>
  <FilterPolicyImports>
    <FilterPolicyImport>
      <Name></Name>
      <IfIndex></IfIndex>
      <AclNum></AclNum>
      <PrefixListName></PrefixListName>
      <Gateway></Gateway>
      <IfName></IfName>
    </FilterPolicyImport>
  </FilterPolicyImports>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	FilterPolicyImports
Table type	Multi-instance table
Row name	FilterPolicyImport
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create distributebgplses for it. It must be an unsigned integer in the range of 1 to 65535.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see

				the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum cannot be specified when PrefixListName or Gateway is set.
PrefixListNam e	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	PrefixListName cannot be specified when AclNum is set.
Gateway	Name of the prefix list.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Gateway cannot be specified when AclNum is set.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	IfName

Contents

RIP 2
RIP/Instances 2
RIP/Networks 2
RIP/Redistributes 3
RIP/Interfaces 4
RIP/FilterPolicyExports 5
RIP/FilterPolicyImports 6

RIP

RIP/Instances

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
The specified VRF doesn't exist. 指定的VRF不存在。	The specified VRF doesn't exist. 指定的VRF不存在。
The instance is being deleted. RIP实例正在删除。	The instance is being deleted. RIP实例正在删除。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。
The instance isn't associated with the specified VRF. 实例不属于指定的VRF。	The instance isn't associated with the specified VRF. 实例不属于指定的VRF。
The instance doesn't exist. RIP实例不存在。	The instance doesn't exist. RIP实例不存在。
The instance is being reset. 实例正在清除。	The instance is being reset. 实例正在清除。

RIP/Networks

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
Invalid network address:%s/%s. 网段地址不合法：%s/%s。	Invalid network address:%s/%s. 网段地址不合法：%s/%s。
The network mask doesn't match the network address:%s/%s. 网段地址和子网掩码不匹配：%s/%s。	The network mask doesn't match the network address:%s/%s. 网段地址和子网掩码不匹配：%s/%s。
The network mask isn't contiguous. 网络掩码不连续。	The network mask isn't contiguous. 网络掩码不连续。
The network overlaps with the previously configured network:%s/%s. 与已指定的网段地址重叠：%s/%s。	The network overlaps with the previously configured network:%s/%s. 与已指定的网段地址重叠：%s/%s。
Can't configure network 0.0.0.0 when multiple	Can't configure network 0.0.0.0 when multiple instances exist.

instances exist. 多个RIP实例存在时，不允许配置命令network 0.0.0.0。	多个RIP实例存在时，不允许配置命令network 0.0.0.0。
The network isn't configured. 网段没有配置。	The network isn't configured. 网段没有配置。

RIP/Redistributes

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
Can't be imported to the same instance. 不允许引入RIP协议的当前实例。	Can't be imported to the same instance. 不允许引入RIP协议的当前实例。
The instance doesn't exist. RIP实例不存在。	The instance doesn't exist. RIP实例不存在。
The instance is being reset. 实例正在清除。	The instance is being reset. 实例正在清除。
RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, 6, or 9. 当Protocol属性值为1、2、6或者9时，RedistName属性列应该为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, 6, or 9. 当Protocol属性值为1、2、6或者9时，RedistName属性列应该为空。
RedistName attribute column is required when the value of Protocol attribute column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName属性列不应该为空。	RedistName attribute column is required when the value of Protocol attribute column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName属性列不应该为空。
The AllowIBGP attribute column can be specified only when the value of the Protocol attribute column is 6. 仅当Protocol属性值为6时，才能指定AllowIBGP属性列。	The AllowIBGP attribute column can be specified only when the value of the Protocol attribute column is 6. 仅当Protocol属性值为6时，才能指定AllowIBGP属性列。
The value of RedistName column must be empty or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is 6 对于BGP协议，RedistName列的值必须为空或者1到4294967295之间的整数.	The value of RedistName column must be empty or an unsigned integer in the range of 1 to 4294967295 when the value of protocol column is 6 对于BGP协议，RedistName列的值必须为空或者1到4294967295之间的整数.
The value of RedistName column must be ‘all’ or an unsigned integer in the range of 1 to 65535 when the value of protocol column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName列的值必须为’all’ 或者1到65535之间的整数。	The value of RedistName column must be ‘all’ or an unsigned integer in the range of 1 to 65535 when the value of protocol column is 3, 4, 5, or 7. 对于RIP、OSPF、ISIS、EIGRP协议，RedistName列的值必须为’all’ 或者1到65535之间的整数。

RIP/Interfaces

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
InstanceName attribute columns are required. 需要补齐InstanceName属性列。	InstanceName attribute columns are required. 需要补齐InstanceName属性列。
The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例：%s。	The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例：%s。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。
The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。	The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。
AuthType attribute column is required. 需要补齐AuthType属性列。	AuthType attribute column is required. 需要补齐AuthType属性列。
PasswordType attribute column is required. 需要补齐PasswordType属性列。	PasswordType attribute column is required. 需要补齐PasswordType属性列。
Passward attribute column is required. 需要补齐Password属性列。	Passward attribute column is required. 需要补齐Password属性列。
KeyId attribute column is required. 需要补齐KeyId属性列。	KeyId attribute column is required. 需要补齐KeyId属性列。
KeyId attribute column isn't required. 不需要KeyId属性列。	KeyId attribute column isn't required. 不需要KeyId属性列。
Invalid RIP authentication password. RIP认证密码不合法。	Invalid RIP authentication password. RIP认证密码不合法。
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
InstanceName attribute columns are required. 需要补齐InstanceName属性列。	InstanceName attribute columns are required. 需要补齐InstanceName属性列。
The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例：%s。	The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例：%s。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。

The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。	The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。
The BfdMode and BfdDestination attribute columns can be specified only when the value of the BfdEnable attribute column is 1. 仅当BfdEnable属性列的值为1时，才能指定BfdMode和BfdDestination属性列。	The BfdMode and BfdDestination attribute columns can be specified only when the value of the BfdEnable attribute column is 1. 仅当BfdEnable属性列的值为1时，才能指定BfdMode和BfdDestination属性列。
The BfdMode and BfdDestination attribute columns cannot be both specified. BfdMode和BfdDestination属性列不能同时指定。	The BfdMode and BfdDestination attribute columns cannot be both specified. BfdMode和BfdDestination属性列不能同时指定。
Invalid IP address. 配置了无效的IP地址。	Invalid IP address. 配置了无效的IP地址。

RIP/FilterPolicyExports

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
The IfIndex and ProtocolExport attribute columns cannot be both specified. IfIndex和ProtocolExport属性列不能同时指定。	The IfIndex and ProtocolExport attribute columns cannot be both specified. IfIndex和ProtocolExport属性列不能同时指定。
The IfIndex and ProtocolExport attribute columns cannot be both empty. IfIndex和ProtocolExport属性列不能同时为空。	The IfIndex and ProtocolExport attribute columns cannot be both empty. IfIndex和ProtocolExport属性列不能同时为空。
The InstanceNameExport attribute column must be empty when the value of the ProtocolExport attribute column is 0, 1, 2, or 6. 当ProtocolExport属性值为0、1、2或者6时，InstanceNameExport属性列必须为空。	The InstanceNameExport attribute column must be empty when the value of the ProtocolExport attribute column is 0, 1, 2, or 6. 当ProtocolExport属性值为0、1、2或者6时，InstanceNameExport属性列必须为空。
The InstanceNameExport attribute column is required when the value of the ProtocolExport attribute column is 3, 4, 5, or 7. 当ProtocolExport属性值为3、4、5或7时，InstanceNameExport属性列不能为空。	The InstanceNameExport attribute column is required when the value of the ProtocolExport attribute column is 3, 4, 5, or 7. 当ProtocolExport属性值为3、4、5或7时，InstanceNameExport属性列不能为空。
The ProtocolExport attribute column is required when the InstanceNameExport attribute column is not empty. 当InstanceNameExport属性列不为空时，ProtocolExport属性列也不能为空。	The ProtocolExport attribute column is required when the InstanceNameExport attribute column is not empty. 当InstanceNameExport属性列不为空时，ProtocolExport属性列也不能为空。
The AclNum and PrefixListName attribute columns cannot be both specified. AclNum和PrefixListName属性列不能同时指定。	The AclNum and PrefixListName attribute columns cannot be both specified. AclNum和PrefixListName属性列不能同时指定。
Non-index columns are required. 必须指定非索引列。	Non-index columns are required. 必须指定非索引列。
The specified non-index columns cannot be deleted.	The specified non-index columns cannot be deleted.

不支持删除非索引列。	不支持删除非索引列。

RIP/FilterPolicyImports

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
The AclNum attribute column cannot be specified when PrefixListName or Gateway is specified. 当指定了PrefixListName或Gateway属性列时，不能再同时指定AclNum属性列。	The AclNum attribute column cannot be specified when PrefixListName or Gateway is specified. 当指定了PrefixListName或Gateway属性列时，不能再同时指定AclNum属性列。
Non-index columns are required. 必须指定非索引列。	Non-index columns are required. 必须指定非索引列。
The specified non-index columns cannot be deleted. 不支持删除非索引列。	The specified non-index columns cannot be deleted. 不支持删除非索引列。

Contents

RIR 1

RIR/RirProbeConn 1
XML structure 1
Table description 1
Columns 1
RIR/RirConfig 2
XML structure 2
Table description 2
Columns 3
RIR/RirSla 5
XML structure 5
Table description 5
Columns 6
RIR/RirNqa 6
XML structure 6
Table description 7
Columns 7
RIR/RirFlow 8
XML structure 8
Table description 8
Columns 9
RIR/RirFlow/RirPolicys 9
XML structure 9
Table description 10
Columns 10
RIR/RirFlow/RirProbePolicys 10
XML structure 10
Table description 11
Columns 11
RIR/RirVsiLinkType 11
XML structure 11
Table description 12
Columns 12
RIR/RirTunnelCfg 12
XML structure 12
Table description 13
Columns 13
RIR/RirTunnelCfg/DedicatedFlows 14
XML structure 14
Table description 14
Columns 14
RIR/RirCollaborations 15
XML structure 15
Table description 15
Columns 15
RIR/RirCollaborationRedirections 16
XML structure 16
Table description 16
Columns 16
RIR/SdwanConfig 17
XML structure 17
Table description 17
Columns 18
RIR/SdwanSlas 20
XML structure 20
Table description 20
Columns 21

RIR/SdwanFlows 21
XML structure 21
Table description 22
Columns 22
RIR/SdwanFlows/Paths 23
XML structure 23
Table description 23
Columns 24
RIR/SdwanFlows/PathExs 24
XML structure 24
Table description 24
Columns 25
RIR/SdwanAppQuality 25
XML structure 25
Table description 26
Columns 26
RIR/SdwanAppQuality/Instances 26
Table description 27
Columns 27
RIR/SdwanAppQuality/Instances/ProbeFlows 28
XML structure 28
Table description 28
Columns 29
RIR/Redirects 29
XML structure 29
Table description 29
Columns 30
RIR/RedirectGroups 30
XML structure 30
Table description 30
Columns 31

RIR

RIR/RirProbeConn

This table contains RIR link connectivity probe parameters.

XML structure

```
<RIR>
  <RirProbeConn>
    <Interval></Interval>
    <ConnTimeOut></ConnTimeOut>
  </RirProbeConn>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirProbeConn
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Probe interval	N/A	Unsigned integer. Value range: 0 to 604800000 milliseconds. Default:100
ConnTimeOut	Timeout time for waiting for a response to a probe packet	N/A	Unsigned integer. Value range: 10 to 3600000 milliseconds.

Column name	Column description	Column type	Data type and restrictions
			Default:3000

RIR/RirConfig

This table contains RIR configuration parameters.

XML structure

```
<RIR>
  <RirConfig>
    <Enable></Enable>
    <HubEnable></HubEnable>
    <SpokeEnable></SpokeEnable>
    <PortNum></PortNum>
    <LinkSelectDelay></LinkSelectDelay>
    <LinkSelectSuppressPeriod></LinkSelectSuppressPeriod>
    <PerSessionAdjustLoadBalance>
      <Enable></Enable>
      <AdjustPeriod></AdjustPeriod>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
    </PerSessionAdjustLoadBalance>
    <FlowPriorityBasedScheduling>
      <Enable></Enable>
      <SchedulingPeriod></SchedulingPeriod>
      <LowerThreshold></LowerThreshold>
      <UpperThreshold></UpperThreshold>
    </FlowPriorityBasedScheduling>
    <LogEnable></LogEnable>
  </RirConfig>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable RIR	N/A	Boolean: • true. • false (default).	N/A
HubEnable	Whether to enable RIR server	N/A	Boolean: • true. • false (default)	N/A
SpokeEnable	Whether to enable RIR client	N/A	Boolean: • true. • false (default).	N/A
PortNum	Port for RIR client to synchronize probe information to RIR server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
LinkSelectDelay	Link selection delay for RIR	N/A	Unsigned integer. Value range: 1 to 65535 seconds. Default: 60	N/A
LinkSelectSuppressPeriod	Link selection suppression period for RIR	N/A	Unsigned integer. Value range: 1 to 131070 seconds.	N/A
PerSessionAdjustLoadBalance	Per-session periodic-adjust load-balancing parameters	Data structure	Members include: • Enable. • AdjustPeriod. • UpperThreshold. • LowerThreshold.	N/A
Enable	Whether to enable dynamic load balancing	N/A	Boolean: • true. • false (default).	N/A
AdjustPeri	Scheduling period	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
od	for dynamic load balancing		Value range: 15 to 65535 seconds.	
UpperThreshold	Upper threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template exceeds the upper threshold, dynamic load balancing is triggered.
LowerThreshold	Lower threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template drops below the lower threshold, dynamic load balancing stops.
FlowPriorityBasedScheduling	Parameters for RIR flow priority-based traffic scheduling	Data structure	Members include: • Enable. • SchedulingPeriod. • LowerThreshold. • UpperThreshold.	When the bandwidth utilization of a link exceeds the upper threshold, traffic scheduling is triggered. Within each scheduling period, RIR redistributes the lowest priority flow on this link to other links until the bandwidth utilization of all links is below the lower threshold or only the highest priority flow is left on this link.
Enable	Whether to enable RIR flow priority-based traffic scheduling	N/A	Boolean: • true. • false.(default)	N/A
SchedulingPeriod	Scheduling period	N/A	Unsigned integer. Value range: 15 to 65535 seconds. Default: 30	RIR can redistribute a maximum of one flow on one link to other links in each scheduling period.
LowerThreshold	Bandwidth utilization lower threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 20	The lower threshold cannot be specified alone. If the lower threshold is specified, the upper threshold must also be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperThreshold	Bandwidth utilization upper threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 90	The upper threshold cannot be specified alone. If the upper threshold is specified, the lower threshold must also be specified.
LogEnable	Whether to enable RIR logging	N/A	Boolean: • **true**. • **false** (default).	N/A

RIR/RirSla

This table contains SLA configuration parameters.

XML structure

```
<RIR>
  <RirSla>
    <RirSlaID>
      <SlaId></SlaId>
      <Jitter></Jitter>
      <Loss></Loss>
      <Delay></Delay>
    </RirSlaID>
  </RirSla>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirSla
Table type	Single-instance table
Row name	RirSlaID
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlaId	SLA ID	Index	Unsigned integer. Value range: 0 to 128.	
Jitter	Jitter threshold value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds. Default: 100	N/A
Loss	Packet loss threshold value	N/A	Unsigned integer. Value range: 0 to 1000 in millesimals. Default: 100	N/A
Delay	Delay threshold value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 10	N/A

RIR/RirNqa

This table contains NQA configuration parameters.

XML structure

```
<RIR>
  <RirNqa>
    <RirNqaID>
      <NqaId></NqaId>
      <Dscp></Dscp>
      <Interval></Interval>
      <PacketNum></PacketNum>
      <PktInter></PktInter>
      <PrioTimeOut></PrioTimeOut>
      <Port></Port>
    </RirNqaID>
  </RirNqa>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirNqa
Table type	Single-instance table
Row name	RirNqaID
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NqaId	NQA ID	Index	Unsigned integer. Value range: 0 to 128	
Dscp	DSCP value of probe packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 63	N/A
Interval	Probe interval	N/A	Unsigned integer. Value range: 0 to 604800000 milliseconds. Default: 100	N/A
PacketNum	Number of packets sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 100	N/A
PktInter	Packet sending interval in the probe	N/A	Unsigned integer. Value range: 10 to 60000. Default: 20	N/A
PrioTimeOut	Timeout time for waiting for a response to a probe packet	N/A	Unsigned integer. Value range: 10 to 3600000 milliseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 3000	
Port	Destination port for NQA probes	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A

RIR/RirFlow

This table contains flow configuration parameters.

XML structure

```
<RIR>
  <RirFlow>
    <RirFlowID>
      <FlowId></FlowId>
      <ExpectBandwidth></ExpectBandwidth>
      <FlowLoadBalancingMode></FlowLoadBalancingMode>
      <NoOptimalLinkDrop></NoOptimalLinkDrop>
      <RirPolicys>
        <RirPolicy>
          <Linktype></Linktype>
          <Number></Number>
          <Priority></Priority>
        </RirPolicy>
      </RirPolicys>
      <RirProbePolicys>
        <RirProbePolicy>
          <SlaID></SlaID>
          <NqaID></NqaID>
        </RirProbePolicy>
      </RirProbePolicys>
    </RirFlowID>
  </RirFlow>
</RIR>
```

Table description

Item	Description
Feature name	RIR

Table name	RirFlow
Table type	Multi-instance table
Row name	RirFlowID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
ExpectBandwidth	Bandwidth that a session is expected to occupy	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.
FlowLoadBalancingMode	Flow load balancing mode	N/A	Enumeration: **0**—None. **1**—Per-packet load balancing.
NoOptimalLinkDrop	Whether to drop packets if no optimal link is available	N/A	Boolean: • true. • false (default).
RirPolicys	RIR policy information	Sublist	• The details of the sublist refer to RirPolicys table.
RirProbePolicys	RIR probe policy information	Sublist	• The details of the sublist refer to RirProbePolicys table.

RIR/RirFlow/RirPolicys

This table contains RIR policy configuration information of RIR flow.

XML structure

```
Please refer to the XML Structure of RIR/RirFlow
```

Table description

Item	Description
Feature name	RIR
Table name	RirPolicys
Table type	Multi-instance table
Row name	RirPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Linktype	Link type	Index	Enumeration string: • mpls • mstp • internet. • 4g • vpdn
Number	Link index	Index	Unsigned integer. Value range: 1 to 65535.
Priority	Link preference	N/A	Unsigned integer. Value range: 1 to 255.

RIR/RirFlow/RirProbePolicys

This table contains RIR probe policy configuration information of RIR flow.

XML structure

```
Please refer to the XML Structure of RIR/RirFlow
```

Table description

Item	Description
Feature name	RIR
Table name	RirProbePolicys
Table type	Multi-instance table
Row name	RirProbePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SlaID	SLA bound to the flow	N/A	Unsigned integer. Value range: 0 to 128
NqaID	NQA link-quality operation bound to the flow	N/A	Unsigned integer. Value range: 0 to 128.

RIR/RirVsiLinkType

This table contains link type configuration parameters about VSI interfaces.

XML structure

```
<RIR>
  <RirVsiLinkType>
    <VsiIf>
      <VsiIndex></VsiIndex>
      <VsiLinkType></VsiLinkType>
      <Number></Number>
    </VsiIf>
  </RirVsiLinkType>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirVsiLinkType
Table type	Single-instance table
Row name	VsiIf
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIndex	VSI interface index	Index	Unsigned integer.	The specified VSI interface must already exist
VsiLinkType	Link type	N/A	Enumeration string: • mpls • mstp • internet • 4g • vpdn	N/A
Number	Link index	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

RIR/RirTunnelCfg

This table contains RIR backup tunnel interface information.

XML structure

```
<RIR>
  <RirTunnelCfg>
```

```
    <Tunnel>
      <TunnelNo></TunnelNo>
      <BackupStatus></BackupStatus>
      <Role></Role>
      <CooperationGroup></CooperationGroup>
      <DedicatedFlows>
        <DedicatedFlow>
          <FlowId></FlowId>
        </DedicatedFlow>
      </DedicatedFlows>
      <BindInterface></BindInterface>
    </Tunnel>
  </RirTunnelCfg>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirTunnelCfg
Table type	Single-instance table
Row name	Tunnel
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNo	Tunnel interface number	Index	Unsigned integer.	The specified tunnel interface must already exist
BackupStatus	Whether to configure the tunnel interface as a backup tunnel interface for RIR	N/A	Boolean: • true. • false (default).	N/A
Role	Role type	N/A	Enumeration string: • client. • server	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Cooperation Group	Cooperation group ID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DedicatedFlows	RIR dedicated flow information	Sublist	For more information about the sublist, see the DedicatedFlows table.	N/A
BindInterface	Interface bound to the tunnel interface	N/A	Length: 2 to 47 characters.	N/A

RIR/RirTunnelCfg/DedicatedFlows

This table contains RIR dedicated flow configuration information for an RIR tunnel.

XML structure

Please refer to the XML Structure of RIR/RirTunnelCfg

Table description

Item	Description
Feature name	RIR
Table name	DedicatedFlows
Table type	Multi-instance table
Row name	DedicatedFlow
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.

RIR/RirCollaborations

This table contains RIR collaboration configuration parameters.

XML structure

```
<RIR>
  <RirCollaborations>
    <RirCollaboration>
      <PeerVRF></PeerVRF>
      <PeerAddress></PeerAddress>
      <LocalAddress></LocalAddress>
      <SyncPort></SyncPort>
    </RirCollaboration>
  </RirCollaborations>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirCollaborations
Table type	Multi-instance table
Row name	RirCollaboration
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerVRF	Peer VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerAddress	Peer IPv4 address	Index	IPv4 address string.	N/A
LocalAddress	Local IPv4 address	N/A	IPv4 address string.	N/A
SyncPort	Synchronization	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port number		Value range: 1024 to 65535.	

RIR/RirCollaborationRedirections

This table contains RIR collaboration redirection configuration parameters.

XML structure

```
<RIR>
  <RirCollaborationRedirections>
    <RirCollaborationRedirection>
      <PeerVRF></PeerVRF>
      <PeerAddress></PeerAddress>
      <RedirectionVRF></RedirectionVRF>
      <RedirectionAddress></RedirectionAddress>
    </RirCollaborationRedirection>
  </RirCollaborationRedirections>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirCollaborationRedirections
Table type	Multi-instance table
Row name	RirCollaborationRedirection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerVRF	Peer VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public

Column name	Column description	Column type	Data type and restrictions	Remarks
				network.
PeerAddress	Peer IPv4 address	Index	IPv4 address string.	N/A
RedirectionVRF	Local redirection VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RedirectionAddress	Local redirection IPv4 address	N/A	IPv4 address string.	N/A

RIR/SdwanConfig

This table contains RIR-SDWAN configuration parameters.

XML structure

```
<RIR>
  <SdwanConfig>
    <Enable></Enable>
    <LinkQualInterval></LinkQualInterval>
    <LinkSelectDelay></LinkSelectDelay>
    <LinkSelectSuppressPeriod></LinkSelectSuppressPeriod>
    <PerSessionAdjustLoadBalance>
      <Enable></Enable>
      <AdjustPeriod></AdjustPeriod>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
    </PerSessionAdjustLoadBalance>
    <FlowPriorityBasedScheduling>
      <Enable></Enable>
      <SchedulingPeriod></SchedulingPeriod>
      <LowerThreshold></LowerThreshold>
      <UpperThreshold></UpperThreshold>
    </FlowPriorityBasedScheduling>
  </SdwanConfig>
</RIR>
```

Table description

Item	Description
Feature name	RIR

Table name	RirSdwanConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable RIR-SDWAN	N/A	Boolean: • true. • false (default).	N/A
LinkQualInterval	Link quality iNQA probe interval	N/A	Enumeration: • 60. • 600. Default: 60 seconds.	N/A
LinkSelectDelay	Link selection delay for RIR-SDWAN	N/A	Unsigned integer. Value range: 1 to 65535 seconds. Default: 60 seconds.	N/A
LinkSelectSuppressPeriod	Link selection suppression period for RIR-SDWAN	N/A	Unsigned integer. Value range: 1 to 131070 seconds.	N/A
PerSessionAdjustLoadBalance	Per-session periodic-adjust load-balancing parameters	Data structure	Members include: • Enable. • AdjustPeriod. • UpperThreshold. LowerThreshold.	N/A
Enable	Whether to enable dynamic load balancing	N/A	Boolean: • true. false (default).	N/A
AdjustPeri	Scheduling period	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
od	for dynamic load balancing		Value range: 15 to 65535 seconds.	
UpperThreshold	Upper threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template exceeds the upper threshold, dynamic load balancing is triggered.
LowerThreshold	Lower threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template drops below the lower threshold, dynamic load balancing stops.
FlowPriorityBasedScheduling	Parameters for RIR-SDWAN flow priority-based traffic scheduling	Data structure	Members include: • Enable. • SchedulingPeriod. • LowerThreshold. • UpperThreshold.	When the bandwidth utilization of a link exceeds the upper threshold, traffic scheduling is triggered. Within each scheduling period, RIR-SDWAN redistributes the lowest priority flow on this link to other links until the bandwidth utilization of all links is below the lower threshold or only the highest priority flow is left on this link.
Enable	Whether to enable RIR-SDWAN flow priority-based traffic scheduling	N/A	Boolean: • true. • false (default).	N/A
SchedulingPeriod	Scheduling period	N/A	Unsigned integer. Value range: 15 to 65535 seconds. Default: 30 seconds.	RIR-SDWAN can redistribute a maximum of one flow on one link to other links in each scheduling period.
LowerThreshold	Bandwidth utilization lower threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 20%.	The lower threshold and the upper threshold must be specified in pairs.

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperThreshold	Bandwidth utilization upper threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 90%.	The lower threshold and the upper threshold must be specified in pairs.

RIR/SdwanSlas

This table contains RIR-SDWAN SLA configuration parameters.

XML structure

```
<RIR>
  <SdwanSlas>
    <SdwanSla>
      <SlaID></SlaID>
      <LossThreshold></LossThreshold>
      <DelayThreshold></DelayThreshold>
      <JitterThreshold></JitterThreshold>
    </SdwanSla>
  </SdwanSlas>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanSlas
Table type	Multi-instance table
Row name	SdwanSla
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlaID	SLA ID	Index	Unsigned integer. Value range: 0 to 128.	N/A
LossThreshold	Packet loss threshold value	N/A	Unsigned integer. Value range: 0 to 1000 per thousand. Default: 100 per thousand.	N/A
DelayThreshold	Delay threshold value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 1000 milliseconds.	N/A
JitterThreshold	Jitter threshold value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds. Default: 1000 milliseconds.	N/A

RIR/SdwanFlows

This table contains RIR-SDWAN flow template configuration parameters.

XML structure

```
<RIR>
  <SdwanFlows>
    <SdwanFlow>
      <FlowID></FlowID>
      <ExpectBandwidth></ExpectBandwidth>
      <FlowLoadBalancingMode></FlowLoadBalancingMode>
      <QualPolicySlaID></QualPolicySlaID>
      <CQIWeight>
        <Delay</Delay>
        <Jitter></Jitter>
        <Loss></Loss>
      </CQIWeight>
      <Paths>
        <Path>
```

```
        <TransportNetwork></TransportNetwork>
        <Priority></Priority>
      </Path>
    </Paths>
    <PathExs>
      <PathEx>
        <TransportNetwork></TransportNetwork>
        <GroupID></GroupID>
        <Priority></Priority>
      </PathEx>
    </PathExs>
  </SdwanFlow>
</SdwanFlows>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanFlows
Table type	Multi-instance table
Row name	SdwanFlow
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
ExpectBandwidth	Bandwidth that a session is expected to occupy	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.
FlowLoadBalancingMode	Flow load balancing mode	N/A	Enumeration: **0**—None. **1**—Per-packet load balancing.
QualPolicySlaID	SLA bound to the flow	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	template		Value range: 0 to 128.
CQIWeight	Parameters for RIR-SDWAN flow comprehensive quality indicator (CQI) weights	Data structure	Members include: • Delay. • Jitter. • Loss.
Delay	Delay weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Jitter	Jitter weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Loss	Packet loss weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Paths	RIR-SDWAN link path information	Sublist	The details of the sublist refer to LinkPaths table.
PathExs	RIR-SDWAN link path extension information	Sublist	The details of the sublist refer to PathExs table.

RIR/SdwanFlows/Paths

This table contains RIR-SDWAN link path information in RIR-SDWAN flow templates.

XML structure

Please refer to the XML Structure of RIR/SdwanFlows

Table description

Item	Description
Feature name	RIR
Table name	LinkPaths
Table type	Multi-instance table

Row name	LinkPath
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
TransportNetwork	Transport network name	Index	String. Length: 1 to 31 characters.
Priority	Link preference	N/A	Unsigned integer. Value range: 1 to 255.

RIR/SdwanFlows/PathExs

This table contains RIR-SDWAN link path extension information in RIR-SDWAN flow templates.

XML structure

Please refer to the XML Structure of RIR/SdwanFlows

Table description

Item	Description
Feature name	RIR
Table name	PathExs
Table type	Multi-instance table
Row name	PathEx
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TransportNetwork	Transport network name	Index	String. Length: 1 to 31 characters.	N/A
GroupID	SDWAN tunnel group-id value	Index	Unsigned integer. Value range: 1 to 65535	N/A
Priority	Link preference	N/A	Unsigned integer. Value range: 1 to 255.	N/A

RIR/SdwanAppQuality

This table contains RIR-SDWAN application quality probe configuration parameters.

XML structure

```
<RIR>
  <SdwanAppQuality>
    <Global>
      <Enable></Enable>
    </Global>
    <Instances>
      <Instance>
        <Name></Name>
        <ProbeInterval></ProbeInterval>
        <Peer>
          <Role></Role>
          <SiteID></SiteID>
          <DeviceID></DeviceID>
        </Peer>
        <Signature>
          <SourceIP></SourceIP>
          <SourceIPMask></SourceIPMask>
          <DestIP></DestIP>
          <DestIPMask></DestIPMask>
          <SourceIPv6></SourceIPv6>
          <SourceIPv6Prefix></SourceIPv6Prefix>
          <DestIPv6></DestIPv6>
          <DestIPv6Prefix></DestIPv6Prefix>
        </Signature>
        <ProbeFlows>
```

```
        <ProbeFlow>
          <FlowID></FlowID>
        </ProbeFlow>
      </ProbeFlows>
    </Instance>
  </Instances>
 </SdwanAppQuality>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanApplicationQuality
Table type	Single-instance table
Row name	SdwanApplicationQuality
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable application quality probe and enter application quality probe view	N/A	N/A
Instances	Probe instance information	Sublist	The details of the sublist refer to Instances table.

RIR/SdwanAppQuality/Instances

This table contains application quality probe instance parameters for RIR-SDWAN.

Table description

Item	Description
Feature name	RIR
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name	Index	String Length: 1 to 63 characters.
ProbeInterval	Application quality probe interval	N/A	Enumeration: • 30. • 60. • 300. • 600. Default: 60 seconds.
Peer	Peer configuration information	Data structure	Members include: • Role. • SiteID. • DeviceID.
Role	Source or destination	N/A	Enumeration: • **1**—Source. • **2**—Destination.
SiteID	Peer site ID	N/A	Unsigned short. Value range: 1 to 65535.
DeviceID	Peer device ID	N/A	Unsigned char. Value range: 1 to 255.
Signature	Application signature	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	information		• SourceIP. • SourceIPMask. • DestIP. • DestIPMask.
SourceIP	Source IP address	N/A	IPv4 address string.
SourceIPMask	Mask length of source IP address	N/A	Unsigned char. Value range: 1 to 32.
DestIP	Destination IP address	N/A	IPv4 address string.
DestIPMask	Mask length of destination IP address	N/A	Unsigned char. Value range: 1 to 32.
SourceIPv6	Source IPv6 address	N/A	IPv6 address string.
SourceIPv6Prefix	Prefix length of source IPv6 address	N/A	Unsigned char. Value range: 1 to 128.
DestIPv6	Destination IPv6 address	N/A	IPv6 address string.
DestIPv6Prefix	Prefix length of destination IPv6 address	N/A	Unsigned char. Value range: 1 to 128.
ProbeFlows	Application flow ID information	Sublist	The details of the sublist refer to ProbeFlows table.

RIR/SdwanAppQuality/Instances/ProbeFlows

This table contains flow ID information for RIR-SDWAN application quality probe instances.

XML structure

Please refer to the XML Structure of RIR/RirApplicationQuality.

Table description

Item	Description
Feature name	RIR
Table name	ProbeFlows
Table type	Multi-instance table

Row name	ProbeFlow
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.

RIR/Redirects

This table contains redirection interface paramaters for RIR.

XML structure

```
<RIR>
  <Redirects>
    <Redirect>
      <PeerAddress></PeerAddress>
      <RedirectIfName></RedirectIfName>
    </Redirect>
  </Redirects>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	Redirects
Table type	Multi-instance table
Row name	Redirect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
PeerAddress	Peer device IP address	Index	N/A
RedirectIfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2

RIR/RedirectGroups

This table contains redirection interface group parameters for RIR.

XML structure

```
<RIR>
  <RedirectGroups>
    <RedirectGroup>
      <IfName></IfName>
      <GroupId></GroupId>
    </RedirectGroup>
  </RedirectGroups>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RedirectGroups
Table type	Multi-instance table
Row name	RedirectGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
GroupId	Interface group ID	N/A	N/A

Contents

RIR 1

RIR/RirProbeConn 1
XML structure 1
Table description 1
Columns 1
RIR/RirConfig 2
XML structure 2
Table description 2
Columns 3
RIR/RirSla 5
XML structure 5
Table description 5
Columns 6
RIR/RirNqa 6
XML structure 6
Table description 7
Columns 7
RIR/RirFlow 8
XML structure 8
Table description 9
Columns 9
RIR/RirFlow/RirPolicys 9
XML structure 9
Table description 10
Columns 10
RIR/RirFlow/RirProbePolicys 10
XML structure 10
Table description 11
Columns 11
RIR/RirVsiLinkType 11
XML structure 11
Table description 12
Columns 12
RIR/RirTunnelCfg 12
XML structure 12
Table description 13
Columns 13
RIR/RirTunnelCfg/DedicatedFlows 14
XML structure 14
Table description 14
Columns 14
RIR/RirTunnelQuality 15
XML structure 15
Table description 15
Columns 16
RIR/RirTunnelQuality/PrioProbeInfos 16
XML structure 16
Table description 16
Columns 17
RIR/RirTunnelQuality/PrioProbeResults 17
XML structure 17
Table description 17
Columns 18
RIR/RirCollaborations 18
XML structure 18
Table description 18
Columns 19

RIR/RirCollaborationRedirections 19
XML structure 19
Table description 19
Columns 20
RIR/SdwanConfig 20
XML structure 20
Table description 21
Columns 21
RIR/SdwanSlas 23
XML structure 23
Table description 23
Columns 24
RIR/SdwanFlows 24
XML structure 24
Table description 25
Columns 25
RIR/SdwanFlows/Paths 26
XML structure 26
Table description 26
Columns 27
RIR/SdwanFlows/PathExs 27
XML structure 27
Table description 27
Columns 27
RIR/SdwanAppQuality 28
XML structure 28
Table description 29
Columns 29
RIR/SdwanAppQuality/Instances 29
Table description 29
Columns 30
RIR/SdwanAppQuality/Instances/ProbeFlows 31
XML structure 31
Table description 31
Columns 31
RIR/SdwanTunnelBandwidth 32
XML structure 32
Table description 32
Columns 32
RIR/SdwanFlowPaths 33
XML structure 33
Table description 34
Columns 34
RIR/SdwanFlowPaths/Paths 35
XML structure 35
Table description 35
Columns 35
RIR/SdwanFlowPaths/Paths/Tunnels 36
XML structure 36
Table description 36
Columns 36
RIR/SdwanFlowPaths/Paths/Tunnels/PeerTTEs 36
XML structure 37
Table description 37
Columns 37
RIR/SdwanLinkQualites 37
XML structure 37
Table description 38
Columns 38
RIR/SdwanLinkQualities/PeerTTEs 39
XML structure 39
Table description 39

Columns ····· 39
RIR/SdwanLinkQualities/PeerTTEs/Results ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
RIR/SdwanAppQualityResults ····· 40
XML structure ····· 41
Table description ····· 41
Columns ····· 42
RIR/SdwanAppQualityResults/ProbeFlows ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42
RIR/SdwanAppQualityResults/ProbeFlows/Tunnels ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 43
RIR/SdwanAppQualityResults/ProbeFlows/Tunnels/PeerTTEs ····· 43
XML structure ····· 44
Table description ····· 44
Columns ····· 44
RIR/SdwanAppQualityResults/ProbeFlows/Tunnels/PeerTTEs/ProbeResults ····· 44
XML structure ····· 44
Table description ····· 45
Columns ····· 45
RIR/Redirects ····· 45
XML structure ····· 45
Table description ····· 46
Columns ····· 46
RIR/RedirectGroups ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47

RIR

RIR/RirProbeConn

This table contains RIR link connectivity probe parameters.

XML structure

```
<RIR>
  <RirProbeConn>
    <Interval></Interval>
    <ConnTimeOut></ConnTimeOut>
  </RirProbeConn>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirProbeConn
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Probe interval	N/A	Unsigned integer. Value range: 0 to 604800000 milliseconds. Default:100
ConnTimeOut	Timeout time for waiting for a response to a probe packet	N/A	Unsigned integer. Value range: 10 to 3600000 milliseconds. Default:3000

RIR/RirConfig

This table contains RIR configuration parameters.

XML structure

```
<RIR>
  <RirConfig>
    <Enable></Enable>
    <HubEnable></HubEnable>
    <SpokeEnable></SpokeEnable>
    <PortNum></PortNum>
    <LinkSelectDelay></LinkSelectDelay>
    <LinkSelectSuppressPeriod></LinkSelectSuppressPeriod>
    <PerSessionAdjustLoadBalance>
      <Enable></Enable>
      <AdjustPeriod></AdjustPeriod>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
    </PerSessionAdjustLoadBalance>
    <FlowPriorityBasedScheduling>
      <Enable></Enable>
      <SchedulingPeriod></SchedulingPeriod>
      <LowerThreshold></LowerThreshold>
      <UpperThreshold></UpperThreshold>
    </FlowPriorityBasedScheduling>
    <LogEnable></LogEnable>
  </RirConfig>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable RIR	N/A	Boolean: • true. • false. (default).	N/A
HubEnable	Whether to enable RIR server	N/A	Boolean: • true. • false (default).	N/A
SpokeEnable	Whether to enable RIR client	N/A	Boolean: • true. • false. (default).	N/A
PortNum	Port for RIR client to synchronize probe information to RIR server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
LinkSelectDelay	Link selection delay for RIR	N/A	Unsigned integer. Value range: 1 to 65535 seconds. Default: 60	N/A
LinkSelectSuppressPeriod	Link selection suppression period for RIR	N/A	Unsigned integer. Value range: 1 to 131070 seconds.	N/A
PerSessionAdjustLoadBalance	Per-session periodic-adjust load-balancing parameters	Data structure	Members include: • Enable. • AdjustPeriod. • UpperThreshold. • LowerThreshold.	N/A
Enable	Whether to enable dynamic load balancing	N/A	Boolean: • true. • false (default).	N/A
AdjustPeriod	Scheduling period for dynamic load balancing	N/A	Unsigned integer. Value range: 15 to 65535 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UpperThreshold	Upper threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template exceeds the upper threshold, dynamic load balancing is triggered.
LowerThreshold	Lower threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template drops below the lower threshold, dynamic load balancing stops.
FlowPriorityBasedScheduling	Parameters for RIR flow priority-based traffic scheduling	Data structure	Members include: • Enable. • SchedulingPeriod. • LowerThreshold. • UpperThreshold.	When the bandwidth utilization of a link exceeds the upper threshold, traffic scheduling is triggered. Within each scheduling period, RIR redistributes the lowest priority flow on this link to other links until the bandwidth utilization of all links is below the lower threshold or only the highest priority flow is left on this link.
Enable	Whether to enable RIR flow priority-based traffic scheduling	N/A	Boolean: • true. • false (default)	N/A
SchedulingPeriod	Scheduling period	N/A	Unsigned integer. Value range: 15 to	RIR can redistribute a maximum of one flow

Column name	Column description	Column type	Data type and restrictions	Remarks
			65535 seconds. Default: 30	on one link to other links in each scheduling period.
LowerThreshold	Bandwidth utilization lower threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 20	N/A
UpperThreshold	Bandwidth utilization upper threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 90	N/A
LogEnable	Whether RIR logging is enabled	N/A	Boolean: • **true**. • **false** (default).	N/A

RIR/RirSla

This table contains SLA configuration parameters.

XML structure

```
<RIR>
  <RirSla>
    <RirSlaID>
      <SlaId></SlaId>
      <Jitter></Jitter>
      <Loss></Loss>
      <Delay></Delay>
    </RirSlaID>
  </RirSla>
</RIR>
```

Table description

Item	Description
Feature name	RIR

Table name	RirSla
Table type	Single-instance table
Row name	RirSlaID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlaId	SLA ID	Index	Unsigned integer. Value range: 0 to 128.	N/A
Jitter	Jitter threshold value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds. Default: 100	N/A
Loss	Packet loss threshold value	N/A	Unsigned integer. Value range: 0 to 1000 in millesimals. Default: 100	N/A
Delay	Delay threshold value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 10	N/A

RIR/RirNqa

This table contains NQA configuration parameters.

XML structure

```
<RIR>
  <RirNqa>
    <RirNqaID>
      <NqaId></NqaId>
      <Dscp></Dscp>
      <Interval></Interval>
```

```
      <PacketNum></PacketNum>
      <PktInter></PktInter>
      <PrioTimeOut></PrioTimeOut>
      <Port></Port>
    </RirNqaID>
  </RirNqa>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirNqa
Table type	Single-instance table
Row name	RirNqaID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NqaId	NQA ID	Index	Unsigned integer. Value range: 0 to 128	N/A
Dscp	DSCP value of probe packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 63	N/A
Interval	Probe interval	N/A	Unsigned integer. Value range: 0 to 604800000 milliseconds. Default: 100	N/A
PacketNum	Number of packets sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 100	N/A
PktInter	Packet sending interval in the probe	N/A	Unsigned integer. Value range: 10 to 60000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 20	
PrioTimeOut	Timeout time for waiting for a response to a probe packet	N/A	Unsigned integer. Value range: 10 to 3600000 milliseconds. Default: 3000	N/A
Port	Destination port for NQA probes	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A

RIR/RirFlow

This table contains flow configuration parameters.

XML structure

```
<RIR>
  <RirFlow>
    <RirFlowID>
      <FlowId></FlowId>
      <ExpectBandwidth></ExpectBandwidth>
      <FlowLoadBalancingMode></FlowLoadBalancingMode>
      <NoOptimalLinkDrop></NoOptimalLinkDrop>
      <RirPolicys>
        <RirPolicy>
          <Linktype></Linktype>
          <Number></Number>
          <Priority></Priority>
        </RirPolicy>
      </RirPolicys>
      <RirProbePolicys>
        <RirProbePolicy>
          <SlaID></SlaID>
          <NqaID></NqaID>
        </RirProbePolicy>
      </RirProbePolicys>
    </RirFlowID>
  </RirFlow>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirFlow
Table type	Multi-instance table
Row name	RirFlowID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
ExpectBandwidth	Bandwidth that a session is expected to occupy	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.
FlowLoadBalancingMode	Flow load balancing mode	N/A	Enumeration: • 0—None. • **1**—Per-packet load balancing.
NoOptimalLinkDrop	Whether to drop packets if no optimal link is available	N/A	Boolean: • true. • false (default).
RirPolicys	RIR policy information	Sublist	• The details of the sublist refer to RirPolicys table.
RirProbePolicys	RIR probe policy information	Sublist	• The details of the sublist refer to RirProbePolicys table.

RIR/RirFlow/RirPolicys

This table contains RIR policy configuration information of RIR flow.

XML structure

```
Please refer to the XML Structure of RIR/RirFlow
```

Table description

Item	Description
Feature name	RIR
Table name	RirPolicys
Table type	Multi-instance table
Row name	RirPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Linktype	Link type	Index	Enumeration string: • mpls • mstp • internet • 4g • vpdn
Number	Link index	Index	Unsigned integer. Value range: 1 to 65535.
Priority	Link preference	N/A	Unsigned integer. Value range: 1 to 255.

RIR/RirFlow/RirProbePolicys

This table contains RIR probe policy configuration information of RIR flow.

XML structure

```
Please refer to the XML Structure of RIR/RirFlow
```

Table description

Item	Description
Feature name	RIR
Table name	RirProbePolicys
Table type	Multi-instance table
Row name	RirProbePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SlaID	SLA bound to the flow	N/A	Unsigned integer. Value range: 0 to 128
NqaID	NQA link-quality operation bound to the flow	N/A	Unsigned integer. Value range: 0 to 128.

RIR/RirVsiLinkType

This table contains link type configuration parameters about VSI interfaces.

XML structure

```
<RIR>
  <RirVsiLinkType>
    <VsiIf>
      <VsiIndex></VsiIndex>
      <VsiLinkType></VsiLinkType>
      <Number></Number>
    </VsiIf>
  </RirVsiLinkType>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirVsiLinkType
Table type	Single-instance table
Row name	VsiIf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiIndex	VSI interface index	Index	Unsigned integer.	The specified VSI interface must already exist
VsiLinkType	Link type	N/A	Enumeration string: • mpls • mstp • internet • 4g • vpdn	N/A
Number	Link index	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

RIR/RirTunnelCfg

This table contains RIR tunnel interface configuration information.

XML structure

```
<RIR>
  <RirTunnelCfg>
    <Tunnel>
      <TunnelNo></TunnelNo>
```

```
      <BackupStatus></BackupStatus>
      <Role></Role>
      <CooperationGroup></CooperationGroup>
      <DedicatedFlows>
        <DedicatedFlow>
          <FlowId></FlowId>
        </DedicatedFlow>
      </DedicatedFlows>
      <BindInterface></BindInterface>
    </Tunnel>
  </RirTunnelCfg>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirTunnelCfg
Table type	Single-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNo	Tunnel interface number	Index	Unsigned integer.	The specified tunnel interface must already exist
BackupStatus	Whether to configure the tunnel interface as a backup tunnel interface for RIR	N/A	Boolean: • true. • false. (default).	N/A
Role	Role type	N/A	Enumeration string: • client • server	N/A
Cooperation	Cooperation group ID	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Group			Value range: 1 to 65535.	
DedicatedFlows	RIR dedicated flow information	Sublist	For more information about the sublist, see the DedicatedFlows table.	N/A
BindInterface	Interface bound to the tunnel interface	N/A	Length: 2 to 47 characters.	N/A

RIR/RirTunnelCfg/DedicatedFlows

This table contains RIR dedicated flow configuration information for an RIR tunnel.

XML structure

Please refer to the XML Structure of RIR/RirTunnelCfg

Table description

Item	Description
Feature name	RIR
Table name	DedicatedFlows
Table type	Multi-instance table
Row name	DedicatedFlow
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.

RIR/RirTunnelQuality

This table contains RIR tunnel quality information.

XML structure

```
<RIR>
  <RirTunnelQuality>
    <Tunnel>
      <TunnelNo></TunnelNo>
      <ConnProbeResult></ConnProbeResult>
      <PrioProbeInfos>
        <PrioProbeInfo>
          <NqaID></NqaID>
          <Jitter></Jitter>
          <Delay></Delay>
          <Loss></Loss>
        </PrioProbeInfo>
      </PrioProbeInfos>
      <PrioProbeResults>
        <PrioProbeResult>
          <FlowID></FlowID>
          <ProbeResult></ProbeResult>
        </PrioProbeResult>
      </PrioProbeResults>
    </Tunnel>
  </RirTunnelQuality>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirTunnelQuality
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNo	Tunnel interface number	Index	Unsigned integer.	The specified tunnel interface must already exist
ConnProbeResult	Nqa connect probe result	N/A	Boolean: • true. • false.	N/A
PrioProbeInfos	Information of the PrioProbeInfos	Sublist	The details of the sublist refer to PrioProbeInfos table.	N/A
PrioProbeResults	Information of the PrioProbeResults	Sublist	The details of the sublist refer to PrioProbeResults table.	N/A

RIR/RirTunnelQuality/PrioProbeInfos

This table contains priority probe information of RIR tunnel quality.

XML structure

```
Please refer to the XML Structure of RIR/RirTunnelQuality
```

Table description

Item	Description
Feature name	RIR
Table name	PrioProbeInfos
Table type	Multi-instance table
Row name	PrioProbeInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
NqaID	Priority probe NQA ID	Index	Unsigned integer. Value range: 0 to 128
Jitter	Priority probe jitter value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds. Default: 100.
Delay	Priority probe delay value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 10
Loss	Priority probe packet loss	N/A	Unsigned integer. Value range: 0 to 1000 percent. Default: 100

RIR/RirTunnelQuality/PrioProbeResults

This table contains priority probe result information of RIR tunnel quality.

XML structure

```
Please refer to the XML Structure of RIR/RirTunnelQuality
```

Table description

Item	Description
Feature name	RIR
Table name	PrioProbeResults
Table type	Multi-instance table
Row name	PrioProbeResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowId	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
ProbeResult	NQA priority probe result	N/A	Boolean: • true. • false.

RIR/RirCollaborations

This table contains RIR collaboration configuration parameters.

XML structure

```
<RIR>
  <RirCollaborations>
    <RirCollaboration>
      <PeerVRF></PeerVRF>
      <PeerAddress></PeerAddress>
      <LocalAddress></LocalAddress>
      <SyncPort></SyncPort>
    </RirCollaboration>
  </RirCollaborations>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirCollaborations
Table type	Multi-instance table
Row name	RirCollaboration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerVRF	Peer VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerAddress	Peer IPv4 address	Index	IPv4 address string.	N/A
LocalAddress	Local IPv4 address	N/A	IPv4 address string.	N/A
SyncPort	Synchronization port number	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A

RIR/RirCollaborationRedirections

This table contains RIR collaboration redirection configuration parameters.

XML structure

```
<RIR>
  <RirCollaborationRedirections>
    <RirCollaborationRedirection>
      <PeerVRF></PeerVRF>
      <PeerAddress></PeerAddress>
      <RedirectionVRF></RedirectionVRF>
      <RedirectionAddress></RedirectionAddress>
    </RirCollaborationRedirection>
  </RirCollaborationRedirections>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RirCollaborationRedirections
Table type	Multi-instance table
Row name	RirCollaborationRedirection
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerVRF	Peer VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerAddress	Peer IPv4 address	Index	IPv4 address string.	N/A
RedirectionVRF	Local redirection VPN instance	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RedirectionAddress	Local redirection IPv4 address	N/A	IPv4 address string.	N/A

RIR/SdwanConfig

This table contains RIR-SDWAN configuration parameters.

XML structure

```
<RIR>
  <SdwanConfig>
    <Enable></Enable>
    <LinkQualInterval></LinkQualInterval>
    <LinkSelectDelay></LinkSelectDelay>
    <LinkSelectSuppressPeriod></LinkSelectSuppressPeriod>
    <PerSessionAdjustLoadBalance>
      <Enable></Enable>
      <AdjustPeriod></AdjustPeriod>
      <UpperThreshold></UpperThreshold>
      <LowerThreshold></LowerThreshold>
    </PerSessionAdjustLoadBalance>
    <FlowPriorityBasedScheduling>
      <Enable></Enable>
      <SchedulingPeriod></SchedulingPeriod>
      <LowerThreshold></LowerThreshold>
      <UpperThreshold></UpperThreshold>
    </FlowPriorityBasedScheduling>
```

```
  </SdwanConfig>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable RIR-SDWAN	N/A	Boolean: • true. • false (default).	N/A
LinkQualInterval	Link quality iNQA probe interval	N/A	Enumeration: • 60. • 600. Default: 60 seconds.	iNQA probe interval.
LinkSelectDelay	Link selection delay for RIR-SDWAN	N/A	Unsigned integer. Value range: 1 to 65535 seconds. Default: 60 seconds.	N/A
LinkSelectSuppressPeriod	Link selection suppression period for RIR-SDWAN	N/A	Unsigned integer. Value range: 1 to 131070 seconds.	N/A
PerSessionAdjustLoadBalance	Per-session periodic-adjust load-balancing parameters	Data structure	Members include: • Enable. • AdjustPeriod. • UpperThreshold.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			LowerThreshold.	
Enable	Whether to enable dynamic load balancing	N/A	Boolean: • true. false (default).	N/A
AdjustPeriod	Scheduling period for dynamic load balancing	N/A	Unsigned integer. Value range: 15 to 65535 seconds.	N/A
UpperThreshold	Upper threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template exceeds the upper threshold, dynamic load balancing is triggered.
LowerThreshold	Lower threshold for the maximum difference in remaining bandwidth among links	N/A	Unsigned integer. Value range: 1 to 100 in percentage.	If the maximum difference in remaining bandwidth among the links that have the same preference in a flow template drops below the lower threshold, dynamic load balancing stops.
FlowPriorityBasedScheduling	Parameters for RIR-SDWAN flow priority-based traffic scheduling	Data structure	Members include: • Enable. • SchedulingPeriod. • LowerThreshold. • UpperThreshold.	When the bandwidth utilization of a link exceeds the upper threshold, traffic scheduling is triggered. Within each scheduling period, RIR-SDWAN redistributes the lowest priority flow on this link to other links until the bandwidth utilization of all links is below the lower threshold or only the highest priority flow is left on this link.
Enable	Whether to enable RIR-SDWAN flow priority-based traffic scheduling	N/A	Boolean: • true. • false (default).	N/A
SchedulingPeriod	Scheduling period	N/A	Unsigned integer. Value range: 15 to 65535 seconds.	RIR-SDWAN can redistribute a maximum of one flow on one link to other links in each scheduling

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 30 seconds.	period.
LowerThreshold	Bandwidth utilization lower threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 20%.	The lower threshold and the upper threshold must be specified in pairs.
UpperThreshold	Bandwidth utilization upper threshold	N/A	Unsigned integer. Value range: 1 to 100 in percentage. Default: 90%.	The lower threshold and the upper threshold must be specified in pairs.

RIR/SdwanSlas

This table contains RIR-SDWAN SLA configuration parameters.

XML structure

```
<RIR>
  <SdwanSlas>
    <SdwanSla>
      <SlaID></SlaID>
      <LossThreshold></LossThreshold>
      <DelayThreshold></DelayThreshold>
      <JitterThreshold></JitterThreshold>
    </SdwanSla>
  </SdwanSlas>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanSlas
Table type	Multi-instance table
Row name	SdwanSla
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlaID	SLA ID	Index	Unsigned integer. Value range: 0 to 128.	N/A
LossThreshold	Packet loss threshold value	N/A	Unsigned integer. Value range: 0 to 1000 per thousand. Default: 100 per thousand.	N/A
DelayThreshold	Delay threshold value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 1000 milliseconds.	N/A
JitterThreshold	Jitter threshold value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds. Default: 1000 milliseconds.	N/A

RIR/SdwanFlows

This table contains RIR-SDWAN flow template configuration parameters.

XML structure

```
<RIR>
  <SdwanFlows>
    <SdwanFlow>
      <FlowID></FlowID
      <ExpectBandwidth></ExpectBandwidth>
      <FlowLoadBalancingMode></FlowLoadBalancingMode>
      <QualPolicySlaID></QualPolicySlaID>
      <CQIWeight>
        <Delay></Delay>
        <Jitter></Jitter>
        <Loss></Loss>
      </CQIWeight>
      <Paths>
        <Path>
```

```
        <TransportNetwork></TransportNetwork>
        <Priority></Priority>
      </Path>
    </Paths>
    <PathExs>
      <PathEx>
        <TransportNetwork></TransportNetwork>
        <GroupID></GroupID>
        <Priority></Priority>
      </PathEx>
    </PathExs>
  </SdwanFlow>
</SdwanFlows>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanFlows
Table type	Multi-instance table
Row name	SdwanFlow
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
ExpectBandwidth	Bandwidth that a session is expected to occupy	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.
FlowLoadBalancingMode	Flow load balancing mode	N/A	Enumeration: **1**—Per-packet load balancing.
QualPolicySlaID	SLA bound to the flow template	N/A	Unsigned integer. Value range: 0 to 128.
CQIWeight	Parameters for	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	RIR-SDWAN flow comprehensive quality indicator (CQI) weights		• Delay. • Jitter. • Loss.
Delay	Delay weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Jitter	Jitter weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Loss	Packet loss weight	N/A	Unsigned integer. Value range: 1 to 10. Default: 1.
Paths	RIR-SDWAN link path information	Sublist	The details of the sublist refer to LinkPaths table.
PathExs	RIR-SDWAN link path extension information	Sublist	The details of the sublist refer to PathExs table.

RIR/SdwanFlows/Paths

This table contains RIR-SDWAN link path information in RIR-SDWAN flow templates.

XML structure

Please refer to the XML Structure of RIR/SdwanFlows.

Table description

Item	Description
Feature name	RIR
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TransportNetwork	Transport network name	Index	String Length: 1 to 31 characters.
Priority	Link preference	N/A	Unsigned integer. Value range: 1 to 255.

RIR/SdwanFlows/PathExs

This table contains RIR-SDWAN link path extension information in RIR-SDWAN flow templates.

XML structure

Please refer to the XML Structure of RIR/SdwanFlows.

Table description

Item	Description
Feature name	RIR
Table name	PathExs
Table type	Multi-instance table
Row name	PathEx
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TransportNetwork	Transport network name	Index	String Length: 1 to 31 characters.	N/A
GroupID	SDWAN tunnel group-id value	Index	Unsigned integer. Value range: 1 to 65535	N/A
Priority	Link preference	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 255.	

RIR/SdwanAppQuality

This table contains RIR-SDWAN application quality probe configuration parameters.

XML structure

```
<RIR>
  <SdwanAppQuality>
    <Global>
      <Enable></Enable>
    </Global>
    <Instances>
      <Instance>
        <Name></Name>
        <ProbeInterval></ProbeInterval>
        <Peer>
          <Role></Role>
          <SiteID></SiteID>
          <DeviceID></DeviceID>
        </Peer>
        <Signature>
          <SourceIP></SourceIP>
          <SourceIPMask></SourceIPMask>
          <DestIP></DestIP>
          <DestIPMask></DestIPMask>
          <SourceIPv6></SourceIPv6>
          <SourceIPv6Prefix></SourceIPv6Prefix>
          <DestIPv6></DestIPv6>
          <DestIPv6Prefix></DestIPv6Prefix>
        </Signature>
        <ProbeFlows>
          <ProbeFlow>
            <FlowID></FlowID>
          </ProbeFlow>
        </ProbeFlows>
      </Instance>
    </Instances>
  </SdwanAppQuality>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanApplicationQuality
Table type	Single-instance table
Row name	SdwanApplicationQuality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable application quality probe and enter application quality probe view	N/A	Boolean: • true. • false (default).
Instances	Probe instance information	Sublist	The details of the sublist refer to Instances table.

RIR/SdwanAppQuality/Instances

This table contains application quality probe instance parameters for RIR-SDWAN.

Table description

Item	Description
Feature name	RIR
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name	Index	String Length: 1 to 63 characters.
ProbeInterval	Application quality probe interval	N/A	Enumeration: • 30. • 60. • 300. • 600. Default: 60 seconds.
Peer	Peer configuration information	Data structure	Members include: • Role. • SiteID. • DeviceID.
Role	Source or destination	N/A	Enumeration : • **1**—Source. • **2**—Destination.
SiteID	Peer site ID	N/A	Unsigned short. Value range: 1 to 65535.
DeviceID	Peer device IDs	N/A	Unsigned char. Value range: 1 to 255.
Signature	Application signature information	Data structure	Members include: • SourceIP. • SourceIPMask. • DestIP. • DestIPMask.
SourceIP	Source IP address	N/A	IPv4 address string.
SourceIPMask	Mask length of source IP address	N/A	Unsigned char Value range: 1 to 32.
DestIP	Destination IP address	N/A	IPv4 address string.
DestIPMask	Mask length of destination IP address	N/A	Unsigned char. Value range: 1 to 32.
SourceIPv6	Source IPv6 address	N/A	IPv6 address string.

Column name	Column description	Column type	Data type and restrictions
SourceIPv6Prefix	Prefix length of source IPv6 address	N/A	Unsigned char. Value range: 1 to 128.
DestIPv6	Destination IPv6 address	N/A	IPv6 address string.
DestIPv6Prefix	Prefix length of destination IPv6 address	N/A	Unsigned char. Value range: 1 to 128.
ProbeFlows	Application flow ID information	Sublist	The details of the sublist refer to ProbeFlows table.

RIR/SdwanAppQuality/Instances/ProbeFlows

This table contains flow ID information for RIR-SDWAN application quality probe instances.

XML structure

Please refer to the XML Structure of RIR/SdwanAppQuality

Table description

Item	Description
Feature name	RIR
Table name	ProbeFlows
Table type	Multi-instance table
Row name	ProbeFlow
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.

RIR/SdwanTunnelBandwidth

This table contains RIR-SDWAN tunnel bandwidth information.

XML structure

```
<RIR>
  <SdwanTunnelBandwidths>
    <SdwanTunnelBandwidth>
      <TunnelNO></TunnelNO>
      <OutInterface></OutInterface>
      <TunnelBandwidth>
        <Total></Total>
        <Remaining></Remaining>
        <Usage></Usage>
      <TunnelBandwidth>
      <OutInterfaceBandwidth>
        <Total></Total>
        <Remaining></Remaining>
        <Usage></Usage>
      </OutInterfaceBandwidth>
    </SdwanTunnelBandwidth>
  </SdwanTunnelBandwidths>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanTunnelBandwidths
Table type	Multi-instance table
Row name	SdwanTunnelBandwidth
Restrictions	None `

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNO	Tunnel interface number	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutInterface	Physical output interface	N/A	Unsigned integer.	N/A
TunnelBandwidth	Tunnel interface bandwidth information	Data structure	Members include: • Total. • Remaining. • Usage.	N/A
Total	Total bandwidth	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.	N/A
Remaining	Remaining bandwidth	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.	N/A
Usage	Bandwidth usage in percentage	N/A	Unsigned integer. Value range: 0 to 100 percent.	N/A
OutInterfaceBandwidth	Physical output interface bandwidth information	Data structure	Members include: • Total. • Remaining. • Usage.	N/A
Total	Total bandwidth	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.	N/A
Remaining	Remaining bandwidth	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.	N/A
Usage	Bandwidth usage in percentage	N/A	Unsigned integer. Value range: 0 to 100 percent.	N/A

RIR/SdwanFlowPaths

This table contains RIR-SDWAN flow routing information.

XML structure

```
<RIR>
  <SdwanFlowPaths>
```

```
    <SdwanFlowPath>
      <FlowID></FlowID>
      <ExpectBandwidth></ExpectBandwidth>
      <QualityPolicy></QualityPolicy>
      <Paths>
        <Path>
          <Preference></Preference>
          <Tunnels>
            <Tunnel>
              <TunnelNO></TunnelNO>
              <PeerTTEs>
                <PeerTTE>
                  <SiteID></SiteID>
                  <DeviceID></DeviceID>
                  <InterfaceID></InterfaceID>
                  <CQI></CQI>
                </PeerTTE>
              </PeerTTEs>
            </Tunnel>
          </Tunnels>
        </Path>
      </Paths>
    </SdwanFlowPath>
  </SdwanFlowPaths>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanFlowPaths
Table type	Multi-instance table
Row name	SdwanFlowPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
ExpectBandwidth	Session expected bandwidth	N/A	Unsigned integer. Value range: 1 to 400000000 kbps.
QualityPolicy	Whether a quality policy is configured	N/A	Boolean: • **true** (yes). • **false** (no).
Paths	Information about all link paths	Sublist	The details of the sublist refer to AllLinkPaths table.

RIR/SdwanFlowPaths/Paths

This table contains information about all link paths for an RIR-SDWAN flow template.

XML structure

Please refer to the XML Structure of RIR/SdwanFlowPaths.

Table description

Item	Description
Feature name	RIR
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Preference	Link path preference	Index	Unsigned integer. Value range: 1 to 255.
Tunnels	Information about local tunnels bound to the	Sublist	The details of the sublist refer to Tunnels table.

Column name	Column description	Column type	Data type and restrictions
	RIR-SDWAN flow template		

RIR/SdwanFlowPaths/Paths/Tunnels

This table contains information about local tunnels bound to an RIR-SDWAN flow template.

XML structure

Please refer to the XML Structure of RIR/RirFlowInfos.

Table description

Item	Description
Feature name	RIR
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelNO	Local tunnel interface number	Index	Unsigned integer.
PeerTTEs	Peer tunnel information	Sublist	The details of the sublist refer to PeerTTEs table.

RIR/SdwanFlowPaths/Paths/Tunnels/PeerTTEs

This table contains peer tunnel information about all tunnels bound to an RIR-SDWAN flow template.

XML structure

Please refer to the XML Structure of RIR/SdwanFlowPaths.

Table description

Item	Description
Feature name	RIR
Table name	PeerTTEs
Table type	Multi-instance table
Row name	PeerTTE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SiteID	Site ID	Index	Unsigned short. Value range: 1 to 65535.
DeviceID	Device ID	Index	Unsigned char. Value range: 1 to 255.
InterfaceID	Interface ID	Index	Unsigned char. Value range: 1 to 255.
CQI	Comprehensive quality indicator	N/A	Unsigned integer. Value range: 1 to 100.

RIR/SdwanLinkQualites

This table contains RIR-SDWAN tunnel quality probe result information.

XML structure

```
<RIR>
  <SdwanLinkQualities>
    <SdwanLinkQuality>
      <TunnelNO></TunnelNO>
```

```
      <PeerTTEs>
        <PeerTTE>
          <SiteID></SiteID>
          <DeviceID></DeviceID>
          <InterfaceID></InterfaceID>
          <ConnProbeResult></ConnProbeResult>
          <Results>
            <Result>
              <PeriodID></PeriodID>
              <Delay></Delay>
              <Jitter></Jitter>
              <PktLoss></PktLoss>
            </Result>
          </Results>
        </PeerTTE>
      </PeerTTEs>
    </SdwanLinkQuality>
  </SdwanLinkQualities>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanLinkQualities
Table type	Multi-instance table
Row name	SdwanLinkQuality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNO	Local tunnel interface number	Index	Unsigned integer.	N/A
PeerTTEs	Peer tunnel TTE information	Sublist	The details of the sublist refer to PeerTTEs table.	N/A

RIR/SdwanLinkQualities/PeerTTEs

This table contains peer tunnel TTE information for RIR-SDWAN tunnel quality probe results.

XML structure

Please refer to the XML Structure of RIR/SdwanLinkQualities.

Table description

Item	Description
Feature name	RIR
Table name	PeerTTEs
Table type	Multi-instance table
Row name	PeerTTE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SiteID	Site ID	Index	Unsigned short. Value range: 1 to 65535.
DeviceID	Device ID	Index	Unsigned char. Value range: 1 to 255.
InterfaceID	Interface ID	Index	Unsigned char. Value range: 1 to 255.
ConnProbeResult	ConnProbeResult	N/A	Boolean: • True. • False.
Results	Probe results	Sublist	The details of the sublist refer to Results table.

RIR/SdwanLinkQualities/PeerTTEs/Results

This table contains results about RIR-SDWAN tunnel quality probes for a peer.

XML structure

Please refer to the XML Structure of RIR/SdwanLinkQualities.

Table description

Item	Description
Feature name	RIR
Table name	Results
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PeriodID	Period identifier	Index	Unsigned integer. Value range: 0 to 2^{64}- 1.
Delay	Quality probe delay value	N/A	Unsigned integer. Unit: Millisecond.
Jitter	Quality probe jitter value	N/A	Unsigned integer. Unit: Millisecond.
PktLoss	Quality probe packet loss	N/A	Unsigned integer. Value range: 0 to 1000 per thousand.

RIR/SdwanAppQualityResults

This table contains information about RIR-SDWAN application quality probe results.

XML structure

```
<RIR>
  <SdwanAppQualityResults>
    <SdwanAppQualityResult>
      <InstanceName></InstanceName>
      <ProbeFlows>
        <ProbeFlow>
          <FlowID></FlowID>
          <Tunnels>
            <Tunnel>
              <TunnelNO></TunnelNO>
              <PeerTTEs>
                <PeerTTE>
                  <SiteID></SiteID>
                  <DeviceID></DeviceID>
                  <InterfaceID></InterfaceID>
                  <ProbeResults>
                    <ProbeResult>
                      <PeriodID></PeriodID>
                      <PktCount></PktCount>
                      <Timestamp></Timestamp>
                    </ProbeResult>
                  </ProbeResults>
                </PeerTTE>
              </PeerTTEs>
            </Tunnel>
          </Tunnels>
        </ProbeFlow>
      </ProbeFlows>
    </SdwanAppQualityResult>
  </SdwanAppQualityResults>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	SdwanAppQualityResults
Table type	Multi-instance table
Row name	SdwanAppQualityResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
InastanceName	Application quality probe instance name	Index	String Length: 1 to 63 characters.
ProbeFlows	Probe flow information	Sublist	N/A

RIR/SdwanAppQualityResults/ProbeFlows

This table contains flow information about an application quality probe instance.

XML structure

Please refer to the XML Structure of RIR/SdwanAppQualityResults.

Table description

Item	Description
Feature name	RIR
Table name	ProbeFlows
Table type	Multi-instance table
Row name	ProbeFlow
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer. Value range: 1 to 65535.
Tunnels	Tunnel information	Sublist	N/A

RIR/SdwanAppQualityResults/ProbeFlows/Tunnels

This table contains tunnel information for a flow template in an RIR-SDWAN application quality probe instance.

XML structure

Please refer to the XML Structure of RIR/SdwanAppQualityResults.

Table description

Item	Description
Feature name	RIR
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelNO	Local tunnel interface number	Index	Unsigned integer.
PeerTTEs	Peer tunnel information	Sublist	N/A

RIR/SdwanAppQualityResults/ProbeFlows/Tunnels/PeerTTEs

This table contains peer tunnel information for a tunnel bound to a flow template in an RIR-SDWAN application quality probe instance.

XML structure

Please refer to the XML Structure of RIR/SdwanAppQualityResults.

Table description

Item	Description
Feature name	RIR
Table name	PeerTTEs
Table type	Multi-instance table
Row name	PeerTTE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SiteID	Site ID	Index	Unsigned short. Value range: 1 to 65535.
DeviceID	Device ID	Index	Unsigned char. Value range: 1 to 255.
InterfaceID	Interface ID	Index	Unsigned char. Value range: 1 to 255.
ProbeResults	Probe result information	Sublist	N/A

RIR/SdwanAppQualityResults/ProbeFlows/Tunnels/PeerTTEs/ProbeResults

This table contains probe result information for the peer of a tunnel bound to a flow template in an RIR-SDWAN application quality probe instance.

XML structure

Please refer to the XML Structure of RIR/SdwanAppQualityResults.

Table description

Item	Description
Feature name	RIR
Table name	ProbeResults
Table type	Multi-instance table
Row name	ProbeResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PeriodID	Period identifier	Index	Unsigned integer. Value range: 0 to 2^{64}- 1.
PktCount	Packet count	N/A	Unsigned integer. Value range: 0 to 2^{64}- 1.
Timestamp	Timestamp	N/A	Unsigned integer. Value range: 0 to 2^{64}- 1.

RIR/Redirects

This table contains redirection interface information for RIR.

XML structure

```
<RIR>
  <Redirects>
    <Redirect>
      <PeerAddress></PeerAddress>
      <RedirectIfName></RedirectIfName>
    </Redirect>
  </Redirects>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	Redirects
Table type	Multi-instance table
Row name	Redirect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
PeerAddress	Peer device IP address	Index	N/A
RedirectIfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2

RIR/RedirectGroups

This table contains information about redirection interface groups for RIR.

XML structure

```
<RIR>
  <RedirectGroups>
    <RedirectGroup>
      <IfName></IfName>
      <GroupId></GroupId>
    </RedirectGroup>
  </RedirectGroups>
</RIR>
```

Table description

Item	Description
Feature name	RIR
Table name	RedirectGroups
Table type	Multi-instance table
Row name	RedirectGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
GroupId	Interface group ID	N/A	N/A

Contents

RIR 1
RIR/RirConfig 1
RIR/RirFlow 1
RIR/RirFlow/RirPolicys 2
RIR/RirFlow/RirProbePolicys 2
RIR/RirTunnelCfg 2
RIR/RirNqa 3
RIR/RirSla 3
RIR/RirVsiLinkType 3
RIR/RirCollaborations 3
RIR/RirCollaborationRedirections 4
RIR/SdwanFlows 4
RIR/SdwanAppQuality 4
RIR/RIRSdwanTunnelCfg 5
RIR/Redirects 5
RIR/RedirectGroups 5
RIR/SdwanFlows/Paths 5
RIR/SdwanFlows/PathExs 5

RIR

RIR/RirConfig

Message	Explanation
Global server function already configured. 全局服务器功能已配置。	在已开启RIR全局服务器功能时开启RIR全局客户端功能失败。 Failed to enable the global RIR client function when the global RIR server function is enabled.
Global client function already configured. 全局客户端功能已配置。	在已开启RIR全局客户端功能时开启RIR全局服务器功能失败。 Failed to enable the global RIR server function when the global RIR client function is enabled.
Failed to close daemon because other columns exist. 关闭进程失败，因为有其他列存在。	因为有其他列存在导致RIR进程关闭失败。 Failed to close daemon because other columns exist.
The synchronization port is in use. 同步端口号已被占用。	设置的同步端口号已被占用。 The synchronization port is in use.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.
The upper threshold for dynamic load balancing must be larger than the lower threshold. 动态负载均衡的阈值上限比下限小。	配置动态负载均衡阈值的下限值大于上限值。 The lower threshold for dynamic load balancing can't be larger than the upper threshold.
The lower threshold can't be larger than the upper threshold. 带宽利用率下限阈值不应该大于上限阈值。	配置带宽的利用率下限值大于带宽利用率上限值。 The lower bandwidth usage threshold is can't be larger than the upper bandwidth usage threshold.
The lower or upper threshold can't be specified alone. If one threshold is specified, the other threshold must also be specified. 带宽利用率上下限阈值需要同时指定或者同时不指定。	带宽利用率上下限阈值需要同时指定或者同时不指定。 The upper and lower bandwidth usage thresholds must be both specified or left unspecified.

RIR/RirFlow

Message	Explanation
Number of flow templates reaches the upper limit. 业务流量模板数达到最大值。	RIR下业务流量模板数目达到上限。 Number of flow templates reaches the upper limit.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.

RIR/RirFlow/RirPolicys

Message	Explanation
Number of link preferences reaches the upper limit. 链路优先级配置数达到最大值。	链路优先级配置数达到上限。 Number of link preferences reaches the upper limit.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.

RIR/RirFlow/RirProbePolicys

Message	Explanation
The SLA doesn't exist. 该SLA不存在。	为流量模板质量策略绑定的SLA不存在。 The SLA bound to the flow template quality policy does not exist.
The NQA operation doesn't exist. 该NQA链路质量探测不存在。	为流量模板质量策略绑定的NQA不存在。 The NQA operation bound to the flow template quality policy does not exist.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.

RIR/RirTunnelCfg

Message	Explanation
Failed to configure server because client is configured on the tunnel interface. 配置服务器功能失败，该Tunnel接口下已配置客户端功能。	Tunnel接口下不能同时开启RIR客户端功能和RIR服务器功能。 Cannot enable both RIR client and server functions for a tunnel interface.
Failed to configure client because server is configured on the tunnel interface. 配置客户端功能失败，该Tunnel接口下已配置服务器功能。	Tunnel接口下不能同时开启RIR客户端功能和RIR服务器功能。 Cannot enable both RIR client and server functions for a tunnel interface.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.
The tunnel is not a VXLAN tunnel. 只有VXLAN模式的隧道支持配置RIR功能。	Invalid configuration. Please modify configuration under the guidance.
Failed to specify the flow ID because another flow ID has been specified for the tunnel interface. 一条隧道只能配置为一条业务流量的专用链路。	Tunnel接口下不能同时配置在多个Flow。 Cannot configure more than one flow on the same tunnel interface.

RIR/RirNqa

Message	Explanation
Number of NQA operations reaches the upper limit. NQA 链路质量探测数已达到最大值。	配置的NQA链路质量探测数达到上限。 Number of NQA operations reaches the upper limit.
The probe port already exists. 探测端口号已存在。	不能在同一个NQA链路质量探测下重复配置探测端口号。 The probe port number has already been configured.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR未使能导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.

RIR/RirSla

Message	Explanation
Number of SLAs reaches the upper limit. SLA数已达到最大值。	配置的SLA数量达到上限。 Number of SLAs reaches the upper limit.
Operation failed. The daemon didn't start. 操作失败，守护进程未启动。	因RIR进程未启动导致下发配置操作失败。 Failed to deploy the configuration because the daemon has not started.

RIR/RirVsiLinkType

Message	Explanation
Link-type and link-index already exists. 链路类型和索引已经存在。	已在其他VSI虚接口下同时配置了该链路类型和索引。 The link type and link index has already been configured for another VSI interface.

RIR/RirCollaborations

Message	Explanation
The peer address and local address can't be the same one. 对端IP地址与本端IP地址不能相同。	配置本端设备与对端设备建立选路协同关系时，协同选路的对端设备IP地址与本端设备IP地址不能相同。 When you configure an RIR collaboration relationship, the IP addresses cannot be the same for the local and peer devices.
The peer address is invalid. 对端IP地址无效。	配置本端设备与对端设备建立选路协同关系时，协同选路的对端设备IP地址无效。 When you configure an RIR collaboration relationship, the peer device IP address is invalid.
The local address is invalid. 本端IP地址无效。	配置本端设备与对端设备建立选路协同关系时，本端设备IP地址无效。 When you configure an RIR collaboration relationship, the local device IP address is invalid.
The parameter is incomplete.	配置本端设备与对端设备建立选路协同关系时，没有同时配置本端

参数不全。	设备IP地址和同步端口号，返回参数不全。 When you configure an RIR collaboration relationship, the local device IP address and synchronization port number are not configured. The returned parameter is incomplete.
The peer VPN instance does not exist. 对端VPN实例不存在。	配置本端设备与对端设备建立选路协同关系时，与对端设备建立的选路协同关系所属的VPN实例不存在。 When you configure an RIR collaboration relationship, its VPN instance does not exist.

RIR/RirCollaborationRedirections

Message	Explanation
The peer address is invalid. 对端IP地址无效。	配置协同选路对端设备的报文重定向地址时，协同选路对端设备IP地址无效。 When you configure the redirect IP address for packets redirected to the peer device, the peer device IP address is invalid.
The redirect address is invalid. 重定向IP地址无效。	配置协同选路对端设备的报文重定向地址时，协同选路对端设备的报文重定向IP地址无效。 When you configure the redirect IP address for packets redirected to the peer device, the redirect IP address is invalid.
The peer VPN instance does not exist. 对端VPN实例不存在。	配置协同选路对端设备的报文重定向地址时，与对端设备建立选路协同关系所属的VPN实例不存在。 When you configure the redirect IP address for packets redirected to the peer device, the VPN instance of the RIR collaboration relationship does not exist.
The redirect VPN instance does not exist. 重定向VPN实例不存在。	配置协同选路对端设备的报文重定向地址时，协同选路对端设备报文重定向IP地址所属的VPN实例不存在。 When you configure the redirect IP address for packets redirected to the peer device, the VPN instance of the redirect IP address does not exist.

RIR/SdwanFlows

Message	Explanation
延时、抖动、丢包率权重没有同时下发。	延时、抖动、丢包权重必须同时下发。

RIR/SdwanAppQuality

Message	Explanation
应用质量探测未使能。	当用户需要探测某种应用业务基于隧道的质量时，首先要配置应用质量探测使能。

RIR/RIRSdwanTunnelCfg

Message	Explanation
The tunnel is not a VXLAN or SDWAN tunnel. 只有VXLAN或者SDWAN模式的隧道支持配置RIR功能。	Invalid configuration. Please modify configuration under the guidance.

RIR/Redirects

Message	Explanation
Maximum number of Redirect Peer already reached. 透传通道只支持配置一个	Maximum number of Redirect Peer already reached.
The peer address is invalid. 对端IP地址无效	The peer address is invalid.

RIR/RedirectGroups

Message	Explanation
The VPN instances are inconsistent for the local and peer devices that have interfaces in the same redirection interface group. 本端和远端协同设备groupid一致时，vpn信息也需要一致	The VPN instances are inconsistent for the local and peer devices that have interfaces in the same redirection interface group.

RIR/SdwanFlows/Paths

Message	Explanation
Maximum number of paths already reached for this command in a flow template. 该业务流量模板下的此命令配置数量已达到最大值。	该业务流量模板下的此命令配置数量已达到最大值。 Maximum number of paths already reached for this command in a flow template.
SDWAN based RIR process has not been enabled. RIR-SDWAN守护进程未启动。	RIR-SDWAN守护进程未启动。 SDWAN based RIR process has not been enabled.

RIR/SdwanFlows/PathExs

Message	Explanation
Maximum number of paths already reached for this command in a flow template. 该业务流量模板下的此命令配置数量已达到最大值。	该业务流量模板下的此命令配置数量已达到最大值。 Maximum number of paths already reached for this command in a flow template.
SDWAN based RIR process has not been enabled.	RIR-SDWAN守护进程未启动。

RIR-SDWAN守护进程未启动。	SDWAN based RIR process has not been enabled.

Contents

TunnelQuality event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1
AppQuality event ····· 3
XML structure for event subscription ····· 3
XML structure for event report ····· 4

TunnelQuality event

This event is used to report RIR tunnel quality information when the tunnel quality is updated.

XML structure for event subscription

```
<SdwanTunnelQualityEvent>
  <TunnelNO></TunnelNO>
</SdwanTunnelQualityEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>RIR</stream>
    <filter type="subtree">
    <SdwanTunnelQualityEvent xmlns="http://www.h3c.com/netconf/event:1.0/rir:1.0">
      <SdwanTunnelQuality>
        <TunnelNO>257</TunnelNO>
      </SdwanTunnelQuality>
    </SdwanTunnelQualityEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	RIR
Event name	SdwanTunnelQualityEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/rir:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelNO	Local tunnel interface number	Unsigned integer.	N/A

XML structure for event report

```
<TunnelQualityEvent>
  <SdwanTunnelQuality>
```

```
    <TunnelNO></TunnelNO>
    <SiteID></SiteID>
    <DeviceID></DeviceID>
    <InterfaceID></InterfaceID>
    <ConnProbeResult></ConnProbeResult>
    <PeriodID></PeriodID>
    <Delay></Delay>
    <Jitter></Jitter>
    <PktLoss></PktLoss>
  </SdwanTunnelQuality>
</TunnelQualityEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TunnelQualityEvent xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
    <SdwanTunnelQualityEvent>
      <TunnelNO>257</TunnelNO>
      <SiteID>100</SiteID>
      <DeviceID>1</DeviceID>
      <InterfaceID>120</InterfaceID>
      <ConnProbeResult>1</ConnProbeResult>
      <PeriodID>26780169</PeriodID>
      <Delay>1000</Delay>
      <Jitter>1000</Jitter>
      <PktLoss>100</PktLoss>
    </SdwanTunnelQuality>
  </SdwanTunnelQualityEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelNO	Tunnel ID	Unsigned integer	No
SiteID	Site ID	Unsigned integer. Value range: 1 to 65535.	No
DeviceID	Device ID	Unsigned integer. Value range: 1 to 255.	No
InterfaceID	Interface ID	Unsigned in. Value range: 1 to 255.	No

Column name	Column description	Data type and restrictions	Support for extended queries
ConnProbeResult	ConnProbeResult	N/A	Boolean: • True. • False.
PeriodID	Period identifier	Unsigned integer. Value range: 0 to 2^{64}- 1.	No practical significance, reserved for compatibility.
Delay	Quality probe delay value	Unsigned integer. • Unit: Millisecond.	No
Jitter	Quality probe jitter value	Unsigned integer. • Unit: Millisecond.	No
PktLoss	Quality probe packet loss	Unsigned integer. Value range: 0 to 1000 per thousand.	No

AppQuality event

This event is used to report RIR application quality information when have new application quality probe

XML structure for event subscription

```
<SdwanAppQualityEvent>
  <InstanceName></InstanceName>
  <FlowID></FlowID>
<SdwanAppQualityEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>RIR</stream>
    <filter type="subtree">
      <SdwanAppQualityEvent xmlns="http://www.h3c.com/netconf/event:1.0/rir:1.0">
        <InstanceName>abc</InstanceName>
        <FlowID>1</FlowID>
      </SdwanAppQualityEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	RIR
Event name	SdwanAppQualityEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/rir:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
InastanceName	Application quality probe instance name	String Length: 1 to 63 characters.	N/A
FlowID	Flow ID	Unsigned integer. Value range: 1 to 65535.	N/A

XML structure for event report

```
<SdwanAppQualityEvent>
  <InstanceName></InstanceName>
  <FlowID></FlowID>
  <TunnelNO></TunnelNO>
  <SiteID></SiteID>
  <DeviceID></DeviceID>
  <InterfaceID></InterfaceID>
  <PeerRole></PeerRole>
  <ProbeInterval></ProbeInterval>
  <PeriodID></PeriodID>
  <PktCount></PktCount>
  <Timestamp></Timestamp>
</SdwanAppQualityEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SdwanAppQualityEvent xmlns="http://www.h3c.com/netconf/event:1.0/advpn:1.0">
     <InstanceName>abc</InstanceName>
     <FlowID>1</FlowID>
     <TunnelNO>1</TunnelNO>
     <SiteID>100</SiteID>
     <DeviceID>1</DeviceID>
     <InterfaceID>120</InterfaceID>
     <PeerRole>Destination</PeerRole>
     <ProbeInterval>60</ProbeInterval>
     <PeriodID>5458545887</PeriodID>
     <PktCount>100</PktCount>
```

```
    <Timestamp>1596273655</Timestamp>
  </SdwanAppQualityEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
InstanceName	Application probe instance	String Length: 1 to 31characters.	No
FlowID	Remask flow id	Unsigned integer. Value range: 1 to 65535.	No
TunnelNO	Tunnel port number	Unsigned int	No
SiteID	Site ID	Unsigned integer. Value range: 1 to 65535.	No
DeviceID	Device ID	Unsigned integer. Value range: 1 to 255.	No
InterfaceID	Interface ID	Unsigned integer. Value range: 1 to 255.	No
PeerRole	PeerRole	Enumeration string: • Source • destination	No
ProbeInterval	Application quality probe interval	Enumeration: • 30. • 60. • 300. • 600. Default: 60 seconds.	No
PeriodID	Period identifier	Unsigned integer. Value range: 0 to 2^{64}- 1.	No
PktCount	Packet count	Unsigned integer. Value range: 0 to 2^{64}- 1.	No
TimeStamp	Timestamp	Unsigned integer. Value range: 0 to 2^{64}- 1.	No

Contents

RMDB 1
RMDB/StableState 1
XML structure 1
Table description 1
Columns 1

RMDB

RMDB/StableState

This table is used to get the stable state of rmdb.

XML structure

```
<RMDB>
  <StableState>
    <BatchBackUpState></BatchBackUpState>
    <BatchBackUpDesp></BatchBackUpDesp>
    <RecoverState></RecoverState>
    <RecoverDesp></RecoverDesp>
    <ConfigState></ConfigState>
    <ConfigDesp></ConfigDesp>
    <ConnectionState></ConnectionState>
    <ConnectionDesp></ConnectionDesp>
</StableState>
</RMDB>
```

Table description

Item	Description
Feature name	RMDB
Table name	StableState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BatchBackUpState	The state of batch backup	N/A	String, case-sensitive: • Stable. • Processing.	N/A
BatchBackUpDesp	The description of batch backup	N/A	String, case insensitive. Length: 1 to 1023 characters.	If BatchBackUpState is Processing, BatchBackUpDesp is not empty, otherwise is empty.

Column name	Column description	Column type	Data type and restrictions	Remarks
RecoverState	The state of recover	N/A	String, case-sensitive: • Stable. • Processing.	N/A
RecoverDesp	The description of recover	N/A	String, case insensitive. Length: 1 to 1023 characters.	If RecoverState is Processing, RecoverDesp is not empty, otherwise is empty.
ConfigState	The state of configuration	N/A	String, case-sensitive: • Stable. • Unstable.	If RMDB is enable and zookeeper is unconfigured, ConfigState is Unstable, otherwise ConfigState is Stable.
ConfigDesp	The description of configuration	N/A	String, case insensitive. Length: 1 to 511 characters.	N/A
ConnectionState	The state of connection	N/A	String, case-sensitive: • Connected. • Disconnected.	N/A
ConnectionDesp	The description of connection	N/A	String, case insensitive. Length: 1 to 511 characters.	N/A

Contents

RMON 1
RMON/EtherStats 1
XML structure 1
Table description 1
Columns 1
RMON/EtherHistoryControls 2
XML structure 2
Table description 2
Columns 2
RMON/Alarms 3
XML structure 3
Table description 4
Columns 4
RMON/Events 6
XML structure 6
Table description 7
Columns 7
RMON/UsrHistoryControls 8
XML structure 8
Table description 8
Columns 9
RMON/ExtAlarms 9
XML structure 10
Table description 10
Columns 10

RMON

RMON/EtherStats

This table contains ethernet statistics information.

XML structure

```
<RMON>
  <EtherStats>
    <Statistic>
      <Index></Index>
      <DataSource></DataSource>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Statistic>
  </EtherStats>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherStats
Table type	Multi-instance table
Row name	Statistic
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEtherStats in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The particular ethernet interface to be sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configurated, which defined in RFC2836.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/EtherHistoryControls

This table contains ethernet history controls information.

XML structure

```
<RMON>
  <EtherHistoryControls>
    <Control>
      <Index></Index>
      <DataSource></DataSource>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </EtherHistoryControls>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxHistoryControls in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataSource	The source of the data for which historical data was sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configurated, which defined in RFC2836.
BucketsRequested	The requested number of records to be saved for each interface.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxEtherHistorySamples in the data namespace.
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 5 to 3600. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/Alarms

This table contains alarms information.

XML structure

```
<RMON>
  <Alarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <SampleType></SampleType>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEventIndex></RisingEventIndex>
      <FallingEventIndex></FallingEventIndex>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </Alarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Alarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxAlarms in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 5 to 65535.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEventIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FallingEventIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/Events

This table contains events information.

XML structure

```
<RMON>
```

```
  <Events>
    <Event>
      <Index></Index>
      <Description></Description>
      <Type></Type>
      <Community></Community>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Event>
  </Events>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Events
Table type	Multi-instance table
Row name	Event
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEvents in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	A comment describing this event entry.	N/A	String. Length: 1 to 127 characters.	N/A
Type	The type of notification that the probe will make about this event.	N/A	Enumeration: • 1—None. • 2—Log. • 3—SnmpTrap. • 4—LogAndTrap.	N/A
Community	If an SNMP trap is to be sent, it will be sent to the SNMP community specified by this octet string.	N/A	String. Length: 1 to 127 characters.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/UsrHistoryControls

This table contains user history controls information.

XML structure

```
<RMON>
  <UsrHistoryControls>
    <Control>
      <Index></Index>
      <MaxObjects></MaxObjects>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
      </Objects>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </UsrHistoryControls>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	UsrHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxUsrHistoryControls in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
MaxObjects	The number of objects to be sampled.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	The max number depends on RMON/Capabilities/MaxUsrHistoryObjects in the data namespace.
Objects	The objects to be sampled.	N/A	Members include: • Variable • SampleType	Multi-instance. Maximum occurrence is MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variables.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be copied directly into the history bucket. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket.
BucketsRequested	The requested number of records to be saved.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	N/A
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2^{31} - 1. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/ExtAlarms

This table contains extended alarms information.

XML structure

```
<RMON>
  <ExtAlarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <Description></Description>
      <SampleType></SampleType>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEvtIndex></RisingEvtIndex>
      <FallingEvtIndex></FallingEvtIndex>
      <StatCycle></StatCycle>
      <StatType></StatType>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </ExtAlarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	ExtAlarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxExtAlarms in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 10 to 65535. Default: 1800.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation. Length: 1 to 255 characters.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Unsigned32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
Description	A comment describing this alarm entry.	N/A	String. Length: 1 to 127 characters.	N/A
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.

Column name	Column description	Column type	Data type and restrictions	Remarks
RisingThreshold	A rising threshold for the sampled statistic.	N/A	Signed integer. Default: 1.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.
FallingThreshold	A falling threshold for the sampled statistic.	N/A	Signed integer. Default: 0.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
RisingEvtIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
FallingEvtIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
StatType	Type of statistic period.	N/A	Enumeration: • 1—Forever. • 2—Cycle. Default: 1.	N/A
StatCycle	The lifetime starts when an alarm entry is set in valid state. Unit: second.	N/A	Unsigned integer. Value range: 0 to 4294967. Default: 0.	It must be zero when StatType is 1-Forever. Otherwise it must be greater than the value of Interval.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • true • false	N/A

Contents

RMON 1
RMON/Capabilities 1
XML structure 1
Table description 1
Columns 1
RMON/EtherStats 2
XML structure 2
Table description 3
Columns 3
RMON/EtherHistoryControls 7
XML structure 7
Table description 8
Columns 8
RMON/EtherHistorySamples 8
XML structure 8
Table description 9
Columns 9
RMON/Alarms 13
XML structure 13
Table description 13
Columns 14
RMON/Events 16
XML structure 16
Table description 17
Columns 17
RMON/Logs 18
XML structure 18
Table description 18
Columns 19
RMON/UsrHistoryControls 19
XML structure 19
Table description 19
Columns 20
RMON/UsrHistorySamples 21
XML structure 21
Table description 21
Columns 22
RMON/ExtAlarms 24
XML structure 24
Table description 24
Columns 25

RMON

RMON/Capabilities

This table contains capabilities information.

XML structure

```
<RMON>
  <Capabilities>
    <MaxEtherStats></MaxEtherStats>
    <MaxHistoryControls></MaxHistoryControls>
    <MaxEtherHistorySamples></MaxEtherHistorySamples>
    <MaxAlarms></MaxAlarms>
    <MaxEvents></MaxEvents>
    <MaxLogs></MaxLogs>
    <MaxUsrHistoryControls></MaxUsrHistoryControls>
    <MaxUsrHistoryObjects></MaxUsrHistoryObjects>
    <MaxUsrHistorySamples></MaxUsrHistorySamples>
    <MaxExtAlarms></MaxExtAlarms>
  </Capabilities>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxEtherStats	Max number of entry in EtherStats	N/A	Unsigned integer. Value range: 1 to 65535.
MaxHistoryControls	Max number of entry in EtherHistoryControls	N/A	Unsigned integer. Value range: 1 to 65535.
MaxEtherHistorySamples	Max number of entry in EtherHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
MaxAlarms	Max number of entry in Alarms	N/A	Unsigned integer. Value range: 1 to 65535.
MaxEvents	Max number of entry in Events	N/A	Unsigned integer. Value range: 1 to 65535.
MaxLogs	Max number of entry in Logs	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistoryControls	Max number of entry in UsrHistoryControls	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistoryObjects	Max number of Objects group in UsrHistoryControls and UsrHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistorySamples	Max number of entry in UsrHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.
MaxExtAlarms	Max number of entry in ExtAlarms	N/A	Unsigned integer. Value range: 1 to 65535.

RMON/EtherStats

This table contains ethernet statistics information.

XML structure

```
<RMON>
  <EtherStats>
    <Statistic>
      <Index></Index>
      <DataSource></DataSource>
      <DropEvents></DropEvents>
      <Octets></Octets>
      <Pkts></Pkts>
      <BroadcastPkts></BroadcastPkts>
      <MulticastPkts></MulticastPkts>
      <CRCAlignErrors></CRCAlignErrors>
      <UndersizePkts></UndersizePkts>
      <OversizePkts></OversizePkts>
      <Fragments></Fragments>
      <Jabbers></Jabbers>
      <Collisions></Collisions>
      <Pkts64Octets></Pkts64Octets>
      <Pkts65to127Octets></Pkts65to127Octets>
      <Pkts128to255Octets></Pkts128to255Octets>
      <Pkts256to511Octets></Pkts256to511Octets>
      <Pkts512to1023Octets></Pkts512to1023Octets>
```

```
      <Pkts1024to1518Octets></Pkts1024to1518Octets>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Statistic>
  </EtherStats>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherStats
Table type	Multi-instance table
Row name	Statistic
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEtherStats.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The particular ethernet interface to be sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configurated, which defined in RFC2836.
DropEvents	The total number of events in which packets were dropped by the probe due to lack of resources.	N/A	Unsigned integer.	N/A
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts	The total number of packets (including bad packets, broadcast packets, and multicast packets) received.	N/A	Unsigned integer.	N/A
BroadcastPkts	The total number of good packets received that were directed to the broadcast address.	N/A	Unsigned integer.	N/A
MulticastPkts	The total number of good packets received that were directed to a multicast address.	N/A	Unsigned integer.	N/A
CRCAlignErrors	The total number of packets received that had a length (excluding framing bits, but including FCS octets) between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
UndersizePkts	The total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OversizePkts	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A
Fragments	The total number of packets received that were less than 64 octets in length (excluding framing bits but including FCS octets) and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Jabbers	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Collisions	The best estimate of the total number of collisions on this ethernet segment.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts64Octets	The total number of packets (including bad packets) received that were 64 octets in length (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts65to127Octets	The total number of packets (including bad packets) received that were between 65 and 127 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts128to255Octets	The total number of packets (including bad packets) received that were between 128 and 255 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts256to511Octets	The total number of packets (including bad packets) received that were between 256 and 511 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts512to1023Octets	The total number of packets (including bad packets) received that were between 512 and 1023 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts1024to1518Octets	The total number of packets (including bad packets) received that were between 1024 and 1518 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/EtherHistoryControls

This table contains ethernet history controls information.

XML structure

```
<RMON>
  <EtherHistoryControls>
    <Control>
      <Index></Index>
      <DataSource></DataSource>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </EtherHistoryControls>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxHistoryControls.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The source of the data for which historical data was sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configurated, which defined in RFC2836.
BucketsRequested	The requested number of records to be saved in RMON/EtherHistorySamples for each interface.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxEtherHistorySamples.
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 5 to 3600. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/EtherHistorySamples

This table contains ethernet historical samples information.

XML structure

```
<RMON>
  <EtherHistorySamples>
```

```
    <Sample>
      <ControlIndex></ControlIndex>
      <SampleIndex></SampleIndex>
      <IntervalStart></IntervalStart>
      <DropEvents></DropEvents>
      <Octets></Octets>
      <Pkts></Pkts>
      <BroadcastPkts></BroadcastPkts>
      <MulticastPkts></MulticastPkts>
      <CRCAlignErrors></CRCAlignErrors>
      <UndersizePkts></UndersizePkts>
      <OversizePkts></OversizePkts>
      <Fragments></Fragments>
      <Jabbers></Jabbers>
      <Collisions></Collisions>
      <Utilization></Utilization>
    </Sample>
  </EtherHistorySamples>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistorySamples
Table type	Multi-instance table
Row name	Sample
Restrictions	The max number of entrys depends on both RMON/Capabilities/MaxHistoryControls and RMON/Capabilities/MaxEtherHistorySamples.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlIndex	The controls index.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SampleIndex	The samples index.	Index	Unsigned integer. Value range: 1 to 2^{31} - 1.	This index starts at 1 and increases by one as each new sample is taken.
IntervalStart	Time at the start of the interval over which this sample was measured. Unit: second.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.

Column name	Column description	Column type	Data type and restrictions	Remarks
DropEvents	The total number of events in which packets were dropped by the probe due to lack of resources during this sampling interval.	N/A	Unsigned integer.	N/A
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets) during this sampling interval.	N/A	Unsigned integer.	N/A
Pkts	The total number of packets (including bad packets) received during this sampling interval.	N/A	Unsigned integer.	N/A
BroadcastPkts	The total number of good packets received during this sampling interval that were directed to the broadcast address.	N/A	Unsigned integer.	N/A
MulticastPkts	The total number of good packets received during this sampling interval that were directed to a multicast address.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CRCAlignErrors	The number of packets received during this sampling interval that had a length (excluding framing bits but including FCS octets) between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
UndersizePkts	The number of packets received during this sampling interval that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A
OversizePkts	The number of packets received during this sampling interval that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fragments	The total number of packets received during this sampling interval that were less than 64 octets in length (excluding framing bits but including FCS octets) had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Jabbers	The number of packets received during this sampling interval that were longer than 1518 octets (excluding framing bits but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Collisions	The best estimate of the total number of collisions on this ethernet segment during this sampling interval.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Utilization	The best estimate of the mean physical layer network utilization on this interface during this sampling interval. Unit: percent.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

RMON/Alarms

This table contains alarms information.

XML structure

```
<RMON>
  <Alarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <SampleType></SampleType>
      <Value></Value>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEventIndex></RisingEventIndex>
      <FallingEventIndex></FallingEventIndex>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </Alarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Alarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxAlarms.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 5 to 65535.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
Value	The value of the statistic during the last sampling period.	N/A	Signed integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEventIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FallingEventIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/Events

This table contains events information.

XML structure

```
<RMON>
```

```
  <Events>
    <Event>
      <Index></Index>
      <Description></Description>
      <Type></Type>
      <Community></Community>
      <LastTimeSent></LastTimeSent>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Event>
  </Events>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Events
Table type	Multi-instance table
Row name	Event
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEvents.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	A comment describing this event entry.	N/A	String. Length: 1 to 127 characters.	N/A
Type	The type of notification that the probe will make about this event.	N/A	Enumeration: • 1—None. • 2—Log. • 3—SnmpTrap. • 4—LogAndTrap.	N/A
Community	If an SNMP trap is to be sent, it will be sent to the SNMP community specified by this octet string.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LastTimeSent	Time at the time this event entry last generated an event. Unit: second	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/Logs

This table contains logs information.

XML structure

```
<RMON>
  <Logs>
    <Log>
      <EventIndex></EventIndex>
      <LogIndex></LogIndex>
      <Time></Time>
      <Description></Description>
    </Log>
  </Logs>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Logs
Table type	Multi-instance table
Row name	Log
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxLogs.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EventIndex	The event index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
LogIndex	The log index	Index	Unsigned integer. Value range: 1 to 2^{31} - 1.	N/A
Time	Time when this log entry was created.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Description	An implementation dependent description of the event that activated this log entry.	N/A	String. Length: 1 to 255 characters.	N/A

RMON/UsrHistoryControls

This table contains user history controls information.

XML structure

```
<RMON>
  <UsrHistoryControls>
    <Control>
      <Index></Index>
      <MaxObjects></MaxObjects>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
      </Objects>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </UsrHistoryControls>
</RMON>
```

Table description

Item	Description
Feature name	RMON

Table name	UsrHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxUsrHistoryControls.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
MaxObjects	The number of objects to be sampled.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxUsrHistoryObjects.
Objects	The objects to be sampled.	N/A	Members include: • Variable • SampleType	Multi-instance. Maximum occurrence is MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variables.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue. • Default: DeltaValue	For AbsoluteValue, the value of the selected variable will be copied directly into the history bucket. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket.
BucketsRequested	The requested number of records to be saved in RMON/UsrHistorySamples.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	N/A
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2^{31} - 1. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TemporaryStatus	The status of this entry.	N/A	Boolean: • **true** • **false**	N/A

RMON/UsrHistorySamples

This table contains user history samples information.

XML structure

```
<RMON>
  <UsrHistorySamples>
    <Sample>
      <ControlIndex></ControlIndex>
      <SampleIndex></SampleIndex>
      <IntervalStart></IntervalStart>
      <IntervalEnd></IntervalEnd>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
        <AbsValue></AbsValue>
        <ValStatus></ValStatus>
      </Objects>
    </Sample>
  </UsrHistorySamples>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	UsrHistorySamples
Table type	Multi-instance table
Row name	Sample
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxUsrHistoryControls, RMON/Capabilities/MaxUsrHistoryObjects and RMON/Capabilities/MaxUsrHistorySamples.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlIndex	The controls index.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SampleIndex	The samples index.	Index	Unsigned integer. Value range: 1 to 2147483647.	This index starts at 1 and increases by one as each new sample is taken.
IntervalStart	Time at the start of the interval over which this sample was measured.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
IntervalEnd	Time at the end of the interval over which this sample was measured.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Objects	The objects which was sampled.	N/A	Members include: • Variable • SampleType • Value • ValStatus	Multi-instance. Maximum occurrence is RMON/UsrHistoryControls/Control/MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	N/A
SampleType	The method of sampling the selected variables.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AbsValue	The absolute value (i.e., unsigned value) of the user-specified statistic during the last sampling period.	N/A	Unsigned integer.	The value during the current sampling period is not made available until the period is completed. To obtain the true value for this sampling interval, the associated instance of ValStatus must be checked, and AbsValue adjusted as necessary. If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of ValStatus will be set to NotAvailable. The access control check prescribed in the definition of RMON/UsrHistoryControls/Control/Objects/Variable SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of ValStatus will be set to NotAvailable.
ValStatus	Validity and sign of the data.	N/A	Enumeration: • 1—NotAvailable. • 2—Positive. • 3—Negative.	If the MIB instance could not be accessed during the sampling interval, then NotAvailable will be returned. If the sample is valid and the actual value of the sample is greater than or equal to zero, then Positive is returned. If the sample is valid and the actual value of the sample is less than zero, Negative will be returned. The associated instance of AbsValue should be multiplied by -1 to obtain the true sample value.

RMON/ExtAlarms

This table contains extended alarms information.

XML structure

```
<RMON>
  <ExtAlarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <Description></Description>
      <SampleType></SampleType>
      <Value></Value>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEvtIndex></RisingEvtIndex>
      <FallingEvtIndex></FallingEvtIndex>
      <StatCycle></StatCycle>
      <StatType></StatType>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </ExtAlarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	ExtAlarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxExtAlarms.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 10 to 65535. Default: 1800.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation. Length: 1 to 255 characters.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Unsigned32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
Description	A comment describing this alarm entry.	N/A	String. Length: 1 to 127 characters.	N/A
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: • 1—AbsoluteValue. • 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
Value	The value of the statistic during the last sampling period.	N/A	Signed integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A rising threshold for the sampled statistic.	N/A	Signed integer. Default: 1.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A falling threshold for the sampled statistic.	N/A	Signed integer. Default: 0.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEvtIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
FallingEvtIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
StatType	Type of statistic period.	N/A	Enumeration: • 1—Forever. • 2—Cycle. Default: 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StatCycle	The lifetime starts when an alarm entry is set in valid state. Unit: second.	N/A	Unsigned integer. Value range: 0 to 4294967. Default: 0.	It must be zero when StatType is 1-Forever. Otherwise it must be greater than the value of Interval.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: • true • false	N/A

Contents

RMON 2
RMON/EtherStats 2
RMON/EtherHistoryControls 2
RMON/Alarms 2
RMON/UsrHistoryControls 3
RMON/ExtAlarms 3

RMON

RMON/EtherStats

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true. 修改列的值，行状态必须是临时态。	Merge, delete or replace operation failed. 修改列的值，行状态必须是临时态。
When you create a new row,make sure the value of column TemporaryStatus is false. 创建新行，行状态必须是非临时态。	Create operation failed. 创建新行，行状态必须是非临时态。
Please enter a value for the DataSource column to create a new Ethernet statistics entry. 创建新的以太网统计表项，请指定DataSource列的值。	During executing create or replace operation, ‘DataSource’ must be specified. 采样以太网接口地址，必须指定。

RMON/EtherHistoryControls

Message	Explanation
The DataSource column can't be removed. DataSource列不能删除。	The DataSource column can't be removed. 采样以太网接口地址列不能删除。
Please enter a value for the DataSource column to create a new Ethernet history control entry. 创建新的以太网历史控制表项，请指定DataSource列的值。	During executing create or replace operation, ‘DataSource’ must be specified. 采样以太网接口地址，必须指定。
An entry with the same datasource and interval already exists. 同数据源相同采样间隔的表项已经存在。	No need to create a new table. 同数据源相同采样间隔的表项已经存在。
An entry with the same datasource already exists. 同数据源的表项已经存在。	No need to create a new table. 同数据源相同采样间隔的表项已经存在。

RMON/Alarms

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true. 修改列的值，行状态必须是临时态。	Merge, delete or replace operation failed. 修改列的值，行状态必须是临时态。
When you create a new row,make sure the value of column TemporaryStatus is false. 创建新行，行状态必须是非临时态。	Create operation failed. 创建新行，行状态必须是非临时态。
The Variable column can't be removed.	‘Variable’ shows the object identifier of the particular variable to be sampled, and it can't be removed.

Variable列不能删除。	采样对象标识符不能被删除。
Please enter a value for the Variable column to create a new alarm. 创建新的告警，请指定Variable列的值。	‘Variable’ shows the object identifier of the particular variable to be sampled, and it must be specified. 创建新的告警，请指定采样对象标识符。

RMON/UsrHistoryControls

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true. 修改列的值，行状态必须是临时态。	Merge, delete or replace operation failed. 修改列的值，行状态必须是临时态。
When you create a new row,make sure the value of column TemporaryStatus is false. 创建新行，行状态必须是非临时态。	Create operation failed. 创建新行，行状态必须是非临时态。
Operation failed.The number of objects exceed the value of column Maxobjects. Objects的个数超出Maxobjects的值。	Create new object failed. Objects 的个数超出本地可维护最大值，创建失败。

RMON/ExtAlarms

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true. 修改列的值，行状态必须是临时态。	Merge, delete or replace operation failed. 修改列的值，行状态必须是临时态。
When you create a new row,make sure the value of column TemporaryStatus is false. 创建新行，行状态必须是非临时态。	Create operation failed. 创建新行，行状态必须是非临时态。
Please enter a value for the Variable column to create a new extalarm. 创建新的扩展告警，请指定Variable列的值。	Please specify a dotted decimal notation string. 创建新的扩展告警，请指定采样对象标识符。
Please enter a value for the Description column to create a new extalarm. 创建新的扩展告警，请指定Description列的值。	The ‘Description’ is a comment describing the alarm entry. 创建新的扩展告警，请指定告警描述。
The Variable column can't be removed. Variable列不能删除。	‘Variable’ shows the object identifier of the particular variable to be sampled, and it can't be removed. 采样对象标识符不能被删除。
The Description column can't be removed. Description列不能删除。	The ‘Description’ can't be removed. 告警描述不能删除。

Contents

Route 1

Route/Ipv4BandwidthBasedSharing 1
XML structure 1
Table description 1
Columns 1
Route/Ipv6BandwidthBasedSharing 1
XML structure 1
Table description 2
Columns 2
Route/Ipv4FRR 2
XML structure 2
Table description 2
Columns 3
Route/Ipv6FRR 3
XML structure 3
Table description 3
Columns 4
Route/Ipv4RoutingTableLimit 4
XML structure 4
Table description 4
Columns 4
Route/Ipv6RoutingTableLimit 5
XML structure 5
Table description 5
Columns 5
Route/Ipv4NexthopRoutePolicys 6
XML structure 6
Table description 6
Columns 6
Route/Ipv6NexthopRoutePolicys 7
XML structure 7
Table description 7
Columns 7
Route/Ipv4AddrFamily 7
XML structure 7
Table description 8
Columns 8
Route/Ipv6AddrFamily 9
XML structure 9
Table description 9
Columns 9

Route

Route/Ipv4BandwidthBasedSharing

This table contains IPv4 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv4BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv4BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions Support for row creation and deletion	None No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv4 bandwidth-based load sharing mode.	N/A	Enumeration: • 0—Disabled(default). • 1—Enabled.	N/A

Route/Ipv6BandwidthBasedSharing

This table contains IPv6 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv6BandwidthBasedSharing>
```

```
    <Mode></Mode>
  </Ipv6BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions Support for row creation and deletion	None No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv6 bandwidth-based load sharing mode.	N/A	Enumeration: • 0—Disabled(default). • 1—Enabled.	N/A

Route/Ipv4FRR

This table contains IPv4 inter-protocol FRR information.

XML structure

```
<Route>
  <Ipv4FRR>
    <Ipv4InterProtocolFRR>
      <VRF></VRF>
      <InterProtocolFRR></InterProtocolFRR>
    </Ipv4InterProtocolFRR>
  </Ipv4FRR>
</Route>
```

Table description

Item	Description
Feature name	Route

Item	Description
Table name	Ipv4FRR
Table type	Multi-instance table
Row name	Ipv4InterProtocolFRR
Restrictions Support for row creation and deletion	None Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VPN instance.	index	String, case-sensitive. Length: 0 to 31 characters.	Null indicates public network.
InterProtocolFRR	Whether to enable inter-protocol FRR	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv6FRR

This table contains IPv6 inter-protocol FRR information.

XML structure

```
<Route>
  <Ipv6FRR>
    <Ipv6InterProtocolFRR>
      <VRF></VRF>
      <InterProtocolFRR></InterProtocolFRR>
    </Ipv6InterProtocolFRR>
  </Ipv6FRR>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6FRR
Table type	Multi-instance table
Row name	Ipv6InterProtocolFRR
Restrictions Support for row creation and deletion	None Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VPN instance.	index	String, case-sensitive. Length: 0 to 31 characters.	Null indicates public network.
InterProtocolFRR	Whether to enable inter-protocol FRR	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv4RoutingTableLimit

This table contains IPv4 Max active routes information.

XML structure

```
<Route>
  <Ipv4RoutingTableLimit>
    <Ipv4MaxRoutes></Ipv4MaxRoutes>
    <Ipv4RouteThreshold></Ipv4RouteThreshold>
    <Ipv4SimplyAlert></Ipv4SimplyAlert>
  </Ipv4RoutingTableLimit>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RoutingTableLimit
Table type	Single-instance table
Row name	None
Restrictions Support for row creation and deletion	None None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family	N/A	Unsigned integer. • Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	view.			
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	N/A

Route/Ipv6RoutingTableLimit

This table contains IPv6 Max active routes information.

XML structure

```
<Route>
  <Ipv6RoutingTableLimit>
    <Ipv6MaxRoutes></Ipv6MaxRoutes>
    <Ipv6RouteThreshold></Ipv6RouteThreshold>
    <Ipv6SimplyAlert></Ipv6SimplyAlert>
  </Ipv6RoutingTableLimit>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RoutingTableLimit
Table type	Single-instance table
Row name	None
Restrictions Support for row creation and deletion	None None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer. • Value range: 1 to 4294967295.	N/A
Ipv6RouteThresh	Threshold value.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
old			Value range: 1 to 100.	
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog (default).	N/A

Route/Ipv4NexthopRoutePolicys

This table contains IPv4 routing policy based recursive lookup information.

XML structure

```
<Route>
  <Ipv4NexthopRoutePolicys>
    <Ipv4NexthopRoutePolicy>
      <Protol></Protol>
      <NexthopRoutePolicy></NexthopRoutePolicy>
    </Ipv4NexthopRoutePolicy>
  </Ipv4NexthopRoutePolicys>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4NexthopRoutePolicys
Table type	Multi-instance table
Row name	Ipv4NexthopRoutePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protol	Specifies a routing protocol	index	Enumeration: • 1—BGP. • 2—Static.	N/A
NexthopRoutePolicy	Specifies a routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Route/Ipv6NexthopRoutePolicys

This table contains IPv6 routing policy based recursive lookup information.

XML structure

```
<Route>
  <Ipv6NexthopRoutePolicys>
    <Ipv6NexthopRoutePolicy>
      <Protol></Protol>
      <NexthopRoutePolicy></NexthopRoutePolicy>
    </Ipv6NexthopRoutePolicy>
  </Ipv6NexthopRoutePolicys>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6NexthopRoutePolicys
Table type	Multi-instance table
Row name	Ipv6NexthopRoutePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protol	Specifies a routing protocol	index	Enumeration: • 1—BGP4+.	N/A
NexthopRoutePolicy	Specifies a routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Route/Ipv4AddrFamily

This table contains route IPv4 address family information.

XML structure

```
<Route>
  <Ipv4AddrFamily>
    <NexthopRecursiveRestrain>
```

```
      <Maximum></Maximum>
      <Minimum></Minimum>
      <Incremental></Incremental>
      <Millisecond></Millisecond>
    </NexthopRecursiveRestrain>
  </Ipv4AddrFamily>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4AddrFamily
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Millisecond.	N/A
Maximum	The maximum restraint time for next hop recursive lookup in seconds.	N/A	Unsigned integer. Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup in	N/A	Unsigned integer. Value range: 10 to 60000.	Incremental cannot be set at the same time as Fixed. When configuring Maximum

Column name	Column description	Column type	Data type and restrictions	Remarks
	milliseconds.			and Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.

Route/Ipv6AddrFamily

This table contains route IPv6 address family information.

XML structure

```
<Route>
  <Ipv6AddrFamily>
    <NexthopRecursiveRestrain>
      <Maximum></Maximum>
      <Minimum></Minimum>
      <Incremental></Incremental>
      <Millisecond></Millisecond>
    </NexthopRecursiveRestrain>
  </Ipv6AddrFamily>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6AddrFamily
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Incremental. • Millisecond.	
Maximum	The maximum restraint time for next hop recursive lookup in seconds.	N/A	Unsigned integer. • Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	Incremental cannot be set at the same time as Fixed. When configuring Maximum and Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.

Contents

Route 1

Route/Ipv4Routes 1
XML structure 1
Table description 2
Columns 2
Route/Ipv4RoutingTable 5
XML structure 5
Table description 6
Columns 6
Route/Ipv6Routes 9
XML structure 9
Table description 10
Columns 11
Route/Ipv6RoutingTable 13
XML structure 13
Table description 14
Columns 14
Route/Ipv4RouteStatistics 17
XML structure 17
Table description 18
Columns 18
Route/Ipv6RouteStatistics 18
XML structure 19
Table description 19
Columns 19
Route/Ipv4RouteECMPNumbers 20
XML structure 20
Table description 20
Columns 21
Route/Ipv4ECMPNumbers 21
XML structure 21
Table description 21
Columns 22
Route/Ipv6RouteECMPNumbers 22
XML structure 22
Table description 22
Columns 23
Route/Ipv6ECMPNumbers 23
XML structure 23
Table description 24
Columns 24
Route/Ipv4BandwidthBasedSharing 24
XML structure 24
Table description 24
Columns 25
Route/Ipv6BandwidthBasedSharing 25
XML structure 25
Table description 25
Columns 25
Route/Ipv4FRR 26
XML structure 26
Table description 26
Columns 26
Route/Ipv6FRR 26
XML structure 26
Table description 27
Columns 27

Route/Ipv4RoutingTableLimit ····· 27
XML structure ····· 27
Table description ····· 28
Columns ····· 28
Route/Ipv6RoutingTableLimit ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
Route/Ipv4NexthopRoutePolicys ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 30
Route/Ipv6NexthopRoutePolicys ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
Route/Ipv4AddrFamily ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 31
Route/Ipv6AddrFamily ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33

Route

Route/Ipv4Routes

This table contains IPv4 route information.

XML structure

```
<Route>
  <Ipv4Routes>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <FlushLabel></FlushLabel>
      <FlushNID></FlushNID>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
        <BackupFlushLabel></BackupFlushLabel>
        <BackupFlushNID></BackupFlushNID>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <IfName></IfName>
    </RouteEntry>
  </Ipv4Routes>
```

```
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4	Destination IPv4 prefix.	Data structure	Members include: • Ipv4Address. • Ipv4PrefixLength.	The two members must both be specified. Support filter, for more information, see Table 1
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop IPv4 or IPv6 address.	index	String, dotted decimal notation if nexthop is ipv4 address, or colon-separated hexadecimal string if nexthop is ipv6 address.	Example: 1.1.1.1 or 1::1. 0.0.0.0 and 0::0 are invalid values.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Get all routes from private network while index “VRF” is Null and “AllVRF” is Enable.

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Routing protocol.	Data structure	Members include: • ProtocolID. • SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIP. • **4**—OSPF. • **5**—IS-IS. • **6**—BGP. • **7**—LISP. • **8**—EIGRP. • **9**—OpenR. • **11**—UNR.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	String, dotted decimal notation if neighbor is ipv4 address, or colon-separated hexadecimal string if neighbor is ipv6 address.	Example: 1.1.1.1 or 1::1.
FlushLabel	Route label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
FlushNID	NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ASNumber	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthop. • BackupFlushLabel. • BackupFlushNID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• BackupIfName.	
BackupIfIndex	Backup interface index.	N/A	• Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthop	Backup nexthop IPv4 or IPv6 address.	N/A	• String, dotted decimal notation if backup nexthop is ipv4 address, or colon-separated hexadecimal string if backup nexthop is ipv6 address.	Example: 1.1.1.1 or 1::1. 0.0.0.0 and 0::0 are invalid values.
BackupFlushLabel	Backup label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupFlushNID	Backup NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupIfName	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Table 1 Route filter Type

Filter	Description	**Example**
Ip-address	Use ip-address to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.1*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.1*">
Ip-address longer	Use ip-address to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.1* longer"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.1* longer">
Ip-address MaskLen	Use ip-address MaskLen to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* MaskLen *24*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* MaskLen *24*">

Ip-address MaskLen Longer	Use ip-address MaskLen to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* MaskLen *24* longer"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* MaskLen *24* longer">
Ip-address 1 to Ip-address 2	Use ip-address1 to ip-address2 to get information about routes to a range of destination. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* to *10.1.1.1*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* to *10.1.1.1*">
Prefix-List	Use prefix-list to get Routes permitted by an IP prefix list. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="Prefix-List *aaa*"> <RouteEntry base:filter="vrf *vpn1* Prefix-List *aaa*">
ACL	Use acl to get routes permitted by a basic ACL. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="ACL *2000*"> <RouteEntry base:filter="vrf *vpn1* ACL *2000*">

Route/Ipv4RoutingTable

This table contains IPv4 route information.

XML structure

```
<Route>
  <Ipv4RoutingTable>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
```

```
      <Tag></Tag>
      <Neighbor></Neighbor>
      <FlushLabel></FlushLabel>
      <FlushNID></FlushNID>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
        <BackupFlushLabel></BackupFlushLabel>
        <BackupFlushNID></BackupFlushNID>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <IfName></IfName>
    </RouteEntry>
  </Ipv4RoutingTable>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RoutingTable
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop IPv4 or IPv6 address.	index	String, dotted decimal notation if nexthop is ipv4 address, or colon-separated hexadecimal	Example: 1.1.1.1 or 1::1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			string if nexthop is ipv6 address.	0.0.0.0 and 0::0 are invalid values.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Get all routes from private network while index “VRF” is Null and “AllVRF” is Enable.
Protocol	Routing protocol.	Data structure	Members include: • ProtocolID. • SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIP. • **4**—OSPF. • **5**—IS-IS. • **6**—BGP. • **7**—LISP. • **8**—EIGRP. • **9**—OpenR. • **11**—UNR.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	String, dotted decimal notation if neighbor is ipv4 address, or colon-separated hexadecimal string if neighbor is ipv6 address.	Example: 1.1.1.1 or 1::1.
FlushLabel	Route label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FlushNID	NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ASNumber	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthop. • BackupFlushLabel. • BackupFlushNID. • BackupIfName.	N/A
BackupIfIndex	Backup interface index.	N/A	• Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthop	Backup nexthop IPv4 or IPv6 address.	N/A	• String, dotted decimal notation if backup nexthop is ipv4 address, or colon-separated hexadecimal string if backup nexthop is ipv6 address.	Example: 1.1.1.1 or 1::1. 0.0.0.0 and 0::0 are invalid values.
BackupFlushLabel	Backup label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupFlushNID	Backup NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupIfName	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Table 2 Route filter Type

Filter	Description	**Example**
Ip-address	Use ip-address to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.1*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.1*">

Ip-address longer	Use ip-address to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.1* longer"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.1* longer">
Ip-address MaskLen	Use ip-address MaskLen to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* MaskLen *24*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* MaskLen *24*">
Ip-address MaskLen Longer	Use ip-address MaskLen to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* MaskLen *24* longer"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* MaskLen *24* longer">
Ip-address 1 to Ip-address 2	Use ip-address1 to ip-address2 to get information about routes to a range of destination. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP *1.1.1.0* to *10.1.1.1*"> <RouteEntry base:filter="vrf *vpn1* IP *1.1.1.0* to *10.1.1.1*">
Prefix-List	Use prefix-list to get Routes permitted by an IP prefix list. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="Prefix-List *aaa*"> <RouteEntry base:filter="vrf *vpn1* Prefix-List *aaa*">
ACL	Use acl to get routes permitted by a basic ACL. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="ACL *2000*"> <RouteEntry base:filter="vrf *vpn1* ACL *2000*">

Route/Ipv6Routes

This table contains IPv6 route information.

XML structure

```
<Route>
  <Ipv6Routes>
    <RouteEntry>
      <VRF></VRF>
```

```
      <Topology></Topology>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <FlushLabel></FlushLabel>
      <FlushNID></FlushNID>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
        <BackupFlushLabel></BackupFlushLabel>
        <BackupFlushNID></BackupFlushNID>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <IfName></IfName>
    </RouteEntry>
  </Ipv6Routes>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Prefix	Destination IPv6 prefix.	Data structure	Members include: • Ipv6Address. • Ipv6PrefixLength.	The two members must both be specified. Support filter, for more information, see Table 3
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
Nexthop	Nexthop IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Get all routes from private network while index “VRF” is Null and “AllVRF” is Enable.
Protocol	Routing protocol.	Data structure	Members include: • ProtocolID. • SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIPng. • **4**—OSPFv3. • **5**—IS-ISv6. • **6**—BGP4+. • **9**—OpenR. • **10**—SRv6. • **11**—UNR.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
FlushLabel	Route label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
FlushNID	NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ASNumber	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthop. • BackupFlushLabel. • BackupFlushNID. • BackupIfName.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthop	Backup nexthop IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
BackupFlushLabel	Backup label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupFlushNID	Backup NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupIfName	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Table 3 Route filter Type

Filter	Description	**Example**
Ipv6-address	Use ipv6-address to get matched route entries.	<RouteEntry base:filter="IPv6 *1::1*"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::1*">
Ipv6-address longer	Use ipv6-address to get the route entry with the longest prefix.	<RouteEntry base:filter="IPv6 *1::1* longer"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::1* longer">
Ipv6-address PrefixLen	Use ipv6-address PrefixLen to get matched route entries.	<RouteEntry base:filter="IPv6 *1::* PrefixLen *64*"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::* PrefixLen *64*">
Ipv6-address PrefixLen Longer	Use ipv6-address PrefixLen to get the route entry with the longest prefix.	<RouteEntry base:filter="IPv6 *1::* PrefixLen *64* longer"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::* PrefixLen *64* longer">
Ipv6-address 1 to Ipv6-address 2	Use ipv6-address1 to ipv6-address2 to get information about routes to a range of destination.	<RouteEntry base:filter="IPv6 *1::1* to *10::1*"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::1* to *10::1*">
Prefix-List	Use prefix-list to get routes permitted by an IPv6 prefix list.	<RouteEntry base:filter="Prefix-List *aaa*"> <RouteEntry base:filter="vrf *vpn2* Prefix-List *aaa*">
ACL	Use acl to get routes permitted by an IPv6 basic ACL.	<RouteEntry base:filter="ACL *2000*"> <RouteEntry base:filter="vrf *vpn2* ACL *2000*">

Route/Ipv6RoutingTable

This table contains IPv6 route information.

XML structure

```
<Route>
  <Ipv6RoutingTable>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
```

```
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <FlushLabel></FlushLabel>
      <FlushNID></FlushNID>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
        <BackupFlushLabel></BackupFlushLabel>
        <BackupFlushNID></BackupFlushNID>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <IfName></IfName>
    </RouteEntry>
  </Ipv6RoutingTable>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RoutingTable
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive.	Null denotes public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 31 characters.	
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
Nexthop	Nexthop IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	Get all routes from private network while index “VRF” is Null and “AllVRF” is Enable.
Protocol	Routing protocol.	Data structure	Members include: • ProtocolID. • SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIPng. • **4**—OSPFv3. • **5**—IS-ISv6. • **6**—BGP4+. • **9**—OpenR. • **10**—SRv6. • **11**—UNR.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
FlushLabel	Route label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
FlushNID	NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ASNumber	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthop. • BackupFlushLabel. • BackupFlushNID. • BackupIfName.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthop	Backup nexthop IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
BackupFlushLabel	Backup label flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupFlushNID	Backup NHLFE ID flushed to the FIB	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
BackupIfName	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

Table 4 Route filter Type

Filter	Description	**Example**
Ipv6-address	Use ipv6-address to get matched route	<RouteEntry base:filter="IPv6 *1::1*">

	entries.	<RouteEntry base:filter="vrf *vpn2* IPv6 *1::1*">
Ipv6-address longer	Use ipv6-address to get the route entry with the longest prefix.	<RouteEntry base:filter="IPv6 *1::1* longer"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::1* longer">
Ipv6-address PrefixLen	Use ipv6-address PrefixLen to get matched route entries.	<RouteEntry base:filter="IPv6 *1::* PrefixLen *64*"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::* PrefixLen *64*">
Ipv6-address PrefixLen Longer	Use ipv6-address PrefixLen to get the route entry with the longest prefix.	<RouteEntry base:filter="IPv6 *1::* PrefixLen *64* longer"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::* PrefixLen *64* longer">"
Ipv6-address 1 to Ipv6-address 2	Use ipv6-address1 to ipv6-address2 to get information about routes to a range of destination.	<RouteEntry base:filter="IPv6 *1::1* to *10::1*"> <RouteEntry base:filter="vrf *vpn2* IPv6 *1::1* to *10::1*">
Prefix-List	Use prefix-list to get routes permitted by an IPv6 prefix list.	<RouteEntry base:filter="Prefix-List *aaa*"> <RouteEntry base:filter="vrf *vpn2* Prefix-List *aaa*">
ACL	Use acl to get routes permitted by an IPv6 basic ACL.	<RouteEntry base:filter="ACL *2000*"> <RouteEntry base:filter="vrf *vpn2* ACL *2000*">

Route/Ipv4RouteStatistics

This table contains IPv4 route statistic information.

XML structure

```
<Route>
  <Ipv4RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv4RouteStatistics>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIP. • **4**—OSPF. • **5**—IS-IS. • **6**—BGP. • **7**—LISP. • **8**—EIGRP • **9**—OpenR. • **10**—SRv6. • **11**—UNR.	N/A
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Route/Ipv6RouteStatistics

This table contains IPv6 route statistic information.

XML structure

```
<Route>
  <Ipv6RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv6RouteStatistics>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIPng. • **4**—OSPFv3. • **5**—IS-ISv6. • **6**—BGP4+. • **7**—LISP. • **8**—EIGRPv6. • **9**—OpenR. • **10**—SRv6. • **11**—UNR.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Route/Ipv4RouteECMPNumbers

This table contains IPv4 route ECMP numbers.

XML structure

```
<Route>
  <Ipv4RouteECMPNumbers>
    <RouteECMPNumber>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4>
      <ECMPNumber></ECMPNumber>
    </RouteECMPNumber>
  </Ipv4RouteECMPNumbers>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RouteECMPNumbers
Table type	Multi-instance table
Row name	RouteECMPNumber
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4	Destination IPv4 prefix.	Data structure	Members include: • Ipv4Address. • Ipv4PrefixLength.	The two members must both be specified.
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv4ECMPNumbers

This table contains IPv4 route ECMP numbers.

XML structure

```
<Route>
  <Ipv4ECMPNumbers>
    <RouteECMPNumber>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <ECMPNumber></ECMPNumber>
    </RouteECMPNumber>
  </Ipv4ECMPNumbers>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4ECMPNumbers
Table type	Multi-instance table
Row name	RouteECMPNumber

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv6RouteECMPNumbers

This table contains IPv6 route ECMP numbers.

XML structure

```
<Route>
  <Ipv6RouteECMPNumbers>
    <RouteECMPNumber>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ECMPNumber></ECMPNumber>
    </RouteECMPNumber>
  </Ipv6RouteECMPNumbers>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RouteECMPNumbers

Item	Description
Table type	Multi-instance table
Row name	RouteECMPNumber
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Prefix	Destination IPv6 prefix.	Data structure	Members include: • Ipv6Address. • Ipv6PrefixLength.	The two members must both be specified.
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv6ECMPNumbers

This table contains IPv6 route ECMP numbers.

XML structure

```
<Route>
  <Ipv6ECMPNumbers>
    <RouteECMPNumber>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <ECMPNumber></ECMPNumber>
    </RouteECMPNumber>
  </Ipv6ECMPNumbers>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6ECMPNumbers
Table type	Multi-instance table
Row name	RouteECMPNumber
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv4BandwidthBasedSharing

This table contains IPv4 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv4BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv4BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4BandwidthBasedSharing

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv4 bandwidth-based load sharing mode.	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv6BandwidthBasedSharing

This table contains IPv6 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv6BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv6BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv6 bandwidth-based load sharing mode.	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv4FRR

This table contains IPv4 inter-protocol FRR information.

XML structure

```
<Route>
  <Ipv4FRR>
    <Ipv4InterProtocolFRR>
      <VRF></VRF>
      <InterProtocolFRR></InterProtocolFRR>
    </Ipv4InterProtocolFRR>
  </Ipv4FRR>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4FRR
Table type	Multi-instance table
Row name	Ipv4InterProtocolFRR
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VPN instance.	index	String, case-sensitive. Length: 0 to 31 characters.	Null indicates public network.
InterProtocol FRR	Whether to enable the inter-protocol FRR	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv6FRR

This table contains IPv6 inter-protocol FRR information.

XML structure

```
<Route>
  <Ipv6FRR>
```

```
    <Ipv6InterProtocolFRR>
      <VRF></VRF>
      <InterProtocolFRR></InterProtocolFRR>
    </Ipv6InterProtocolFRR>
  </Ipv6FRR>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6FRR
Table type	Multi-instance table
Row name	Ipv6InterProtocolFRR
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VPN instance.	index	String, case-sensitive. Length: 0 to 31 characters.	Null indicates public network.
InterProtocol FRR	Whether to enable the inter-protocol FRR	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Route/Ipv4RoutingTableLimit

This table contains IPv4 Max active routes information.

XML structure

```
<Route>
  <Ipv4RoutingTableLimit>
    <Ipv4MaxRoutes></Ipv4MaxRoutes>
    <Ipv4RouteThreshold></Ipv4RouteThreshold>
    <Ipv4SimplyAlert></Ipv4SimplyAlert>
  </Ipv4RoutingTableLimit>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RoutingTableLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family view.	N/A	Unsigned integer. • Value range: 1 to 4294967295.	N/A
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog.	N/A

Route/Ipv6RoutingTableLimit

This table contains IPv6 Max active routes information.

XML structure

```
<Route>
  <Ipv6RoutingTableLimit>
    <Ipv6MaxRoutes></Ipv6MaxRoutes>
    <Ipv6RouteThreshold></Ipv6RouteThreshold>
    <Ipv6SimplyAlert></Ipv6SimplyAlert>
  </Ipv6RoutingTableLimit>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RoutingTableLimit

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer. • Value range: 1 to 4294967295.	N/A
Ipv6RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: • true—Print syslog. • false—Does not print syslog.	N/A

Route/Ipv4NexthopRoutePolicys

This table contains IPv4 routing policy based recursive lookup information.

XML structure

```
<Route>
  <Ipv4NexthopRoutePolicys>
    <Ipv4NexthopRoutePolicy>
      <Protol></Protol>
      <NexthopRoutePolicy></NexthopRoutePolicy>
    </Ipv4NexthopRoutePolicy>
  </Ipv4NexthopRoutePolicys>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4NexthopRoutePolicys
Table type	Multi-instance table
Row name	Ipv4NexthopRoutePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protol	Specifies a routing protocol	index	Enumeration: • 1—BGP. • 2—Static	N/A
NexthopRoutePolicy	Specifies a routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Route/Ipv6NexthopRoutePolicys

This table contains IPv6 routing policy based recursive lookup information.

XML structure

```
<Route>
  <Ipv6NexthopRoutePolicys>
    <Ipv6NexthopRoutePolicy>
      <Protol></Protol>
      <NexthopRoutePolicy></NexthopRoutePolicy>
    </Ipv6NexthopRoutePolicy>
  </Ipv6NexthopRoutePolicys>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6NexthopRoutePolicys
Table type	Multi-instance table
Row name	Ipv6NexthopRoutePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protol	Specifies a routing protocol	index	Enumeration: • 1—BGP4+.	N/A
NexthopRoutePolicy	Specifies a routing policy	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

Route/Ipv4AddrFamily

This table contains route IPv4 address family information.

XML structure

```
<Route>
  <Ipv4AddrFamily>
    <NexthopRecursiveRestrain>
      <Maximum></Maximum>
      <Minimum></Minimum>
      <Incremental></Incremental>
      <Millisecond></Millisecond>
    </NexthopRecursiveRestrain>
  </Ipv4AddrFamily>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4AddrFamily
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Millisecond.	N/A
Maximum	The maximum restraint time for next hop recursive lookup in seconds.	N/A	Unsigned integer. • Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for	N/A	Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum

Column name	Column description	Column type	Data type and restrictions	Remarks
	next hop recursive lookup in milliseconds.			must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	Incremental cannot be set at the same time as Fixed. When configuring Maximum and Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.

Route/Ipv6AddrFamily

This table contains route IPv6 address family information.

XML structure

```
<Route>
  <Ipv6AddrFamily>
    <NexthopRecursiveRestrain>
      <Maximum></Maximum>
      <Minimum></Minimum>
      <Incremental></Incremental>
      <Millisecond></Millisecond>
    </NexthopRecursiveRestrain>
  </Ipv6AddrFamily>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6AddrFamily
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopRecursiveRestrain	Time interval of next hop recursive lookup restraint.	Data structure	Members include: • Maximum. • Minimum. • Incremental. • Millisecond.	N/A
Maximum	The maximum restraint time for next hop recursive lookup in seconds.	N/A	Unsigned integer. • Value range: 1 to 60.	When configuring Minimum and Incremental, Maximum must be set; Maximum cannot be set at the same time as Fixed.
Minimum	The minimum restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	When configuring Incremental, Minimum must be set; Minimum cannot be set at the same time as Fixed.When only configuring Maximum without Minimum, the default value of Minimum is 50.
Incremental	The incremental restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 60000.	Incremental cannot be set at the same time as Fixed. When configuring Maximum and Minimum without Incremental, the default value of Incremental is 200.
Millisecond	The fixed restraint time for next hop recursive lookup in milliseconds.	N/A	Unsigned integer. Value range: 10 to 10000.	Fixed cannot be set at the same time as Maximum ,Minimum and Incremental.

Contents

Route 2
Route/Ipv4Routes 2
Route/Ipv6Routes 2
Route/Ipv4RouteStatistics 3
Route/Ipv6RouteStatistics 3
Route/Ipv4RouteECMPNumbers 3
Route/Ipv6RouteECMPNumbers 3
Route/Ipv4BandwidthBasedSharing 3
Route/Ipv6BandwidthBasedSharing 3
Route/Ipv4FRR 4
Route/Ipv6FRR 4
Route/Ipv4RoutingTableLimit 4
Route/Ipv6RoutingTableLimit 4
Route/Ipv4NexthopRoutePolicys 4
Route/Ipv6NexthopRoutePolicys 4
Route/Ipv4AddrFamily 4
Route/Ipv6AddrFamily 5

Route

Route/Ipv4Routes

Message	Explanation
The input format is incorrect. 输入的格式不正确。	Invalid configuration, please modify configuration under the guidance.
The length of the prefix list name is incorrect. 前缀列表的名字长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect ACL number. ACL号不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect address. 地址不正确。	Invalid configuration, please modify configuration under the guidance.
VRF name doesn’t exist. VRF名不存在。	Invalid configuration, please modify configuration under the guidance.
Incorrect prefix length. 前缀长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect mask length. 掩码长度不正确。	Invalid configuration, please modify configuration under the guidance.
Invalid character. 存在非法字符。	Invalid configuration, please modify configuration under the guidance.

Route/Ipv6Routes

Message	Explanation
The input format is incorrect. 输入的格式不正确。	Invalid configuration, please modify configuration under the guidance.
The length of the prefix list name is incorrect. 前缀列表的名字长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect ACL number. ACL号不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect address. 地址不正确。	Invalid configuration, please modify configuration under the guidance.
VRF name doesn’t exist. VRF名不存在。	Invalid configuration, please modify configuration under the guidance.
Incorrect prefix length. 前缀长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect mask length.	Invalid configuration, please modify configuration under the guidance.

掩码长度不正确。	
Invalid character. 存在非法字符。	Invalid configuration, please modify configuration under the guidance.

Route/Ipv4RouteStatistics

Message	Explanation
NULL	NULL

Route/Ipv6RouteStatistics

Message	Explanation
NULL	NULL

Route/Ipv4RouteECMPNumbers

Message	Explanation
NULL	NULL

Route/Ipv6RouteECMPNumbers

Message	Explanation
NULL	NULL

Route/Ipv4BandwidthBasedSharing

Message	Explanation
NULL	NULL

Route/Ipv6BandwidthBasedSharing

Message	Explanation
NULL	NULL

Route/Ipv4FRR

Message	Explanation
NULL	NULL

Route/Ipv6FRR

Message	Explanation
NULL	NULL

Route/Ipv4RoutingTableLimit

Message	Explanation
NULL	NULL

Route/Ipv6RoutingTableLimit

Message	Explanation
NULL	NULL

Route/Ipv4NexthopRoutePolicys

Message	Explanation
NULL	NULL

Route/Ipv6NexthopRoutePolicys

Message	Explanation
NULL	NULL

Route/Ipv4AddrFamily

The maximum restraint time interval should not be less than the minimum restraint time interval. 最大抑制时间应当不小于最小抑制时间。	Minimum interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的最小抑制时间不应当大于最大抑制时间。
The maximum restraint time interval should not be less than the penalty restraint time interval. 最大抑制时间应当不小于抑制惩罚时间。	Incremental interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的惩罚抑制时间不应当大于最大抑制时间。
The fixed restraint time interval cannot be	Fixed interval of next hop recursive lookup restraint and

configured at the same time as the maximum time interval, minimum time interval, and penalty time. 固定抑制时间不能和最大抑制时间、最小抑制时间，及抑制惩罚时间同时配置。	maximum, minimum, incremental are mutually exclusive. 下一跳迭代的固定抑制时间和最大时间间隔，最小时间间隔，惩罚时间不能同时配置。
Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。	Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。

Route/Ipv6AddrFamily

The maximum restraint time interval should not be less than the minimum restraint time interval. 最大抑制时间应当不小于最小抑制时间。	Minimum interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的最小抑制时间不应当大于最大抑制时间。
The maximum restraint time interval should not be less than the penalty restraint time interval. 最大抑制时间应当不小于抑制惩罚时间。	Incremental interval of next hop recursive lookup restraint should be not greater than maximum interval. 下一跳迭代的惩罚抑制时间不应当大于最大抑制时间。
The fixed restraint time interval cannot be configured at the same time as the maximum time interval, minimum time interval, and penalty time. 固定抑制时间不能和最大抑制时间、最小抑制时间，及抑制惩罚时间同时配置。	Fixed interval of next hop recursive lookup restraint and maximum, minimum, incremental are mutually exclusive. 下一跳迭代的固定抑制时间和最大时间间隔，最小时间间隔，惩罚时间不能同时配置。
Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。	Need to be configured in the order of the maximum, the minimum and the penalty restraint time interval. 需要依照最大抑制时间、最小抑制时间、抑制惩罚时间顺序配置。

Contents

ROUTE event stream 1
IPv4 Route Event 1
XML structure for event subscription 1
XML structure for event report 1
IPv6 Route Event 4
XML structure for event subscription 4
XML structure for event report 4

ROUTE event stream

Route stream description.

IPv4 Route Event

This event is used to report ipv4 route change information.

XML structure for event subscription

```
<Ipv4RouteEvent>
</Ipv4RouteEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>route_stream</stream>
    <filter type="subtree">
      <Ipv4RouteEvent xmlns="http://www.h3c.com/netconf/event:1.0/ROUTE:1.0">
      </Ipv4RouteEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ROUTE
Event name	Ipv4RouteEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ROUTE:1.0
Support for extended query	No

XML structure for event report

```
<Ipv4RouteEvent>
  <Ipv4Routes>
    <EventType></EventType>
    <VRF></VRF>
    <Topology></Topology>
    <DestAddress></DestAddress>
    <Mask></Mask>
    <Nexthop></Nexthop>
    <IfIndex></IfIndex>
    <Token></Token>
    <RealNexthop></RealNexthop>
    <Protocol></Protocol>
    <Preference></Preference>
```

```
    <Cost></Cost>
    <Flag></Flag>
    <Label></Label>
    <Sequence></Sequence>
    <IfName></IfName>
  </Ipv4Routes>
</Ipv4RouteEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <Ipv4RouteEvent xmlns="http://www.h3c.com/netconf/event:1.0/ROUTE:1.0">
    <Ipv4Routes>
      <EventType>1</EventType>
      <VRF>vpn1</VRF>
      <Topology>topo1</Topology>
      <DestAddress>1.1.1.1</DestAddress>
      <Mask>32</Mask>
      <Nexthop>2.2.2.2</Nexthop>
      <IfIndex>1</IfIndex>
      <Token>0</Token>
      <RealNexthop>12.1.1.2</RealNexthop>
      <Protocol>BGP</Protocol>
      <Preference>255</Preference>
      <Cost>0</Cost>
      <Flag>6</Flag>
      <Label>16001</Label>
      <Sequence>20</Sequence>
      <IfName>GigabitEthernet2/0/2</IfName>
    </Ipv4Routes>
  </Ipv4RouteEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration 1 – Add 2 – Delete 3 – Update 4 – BatchStart 5 – Batch 6 – BatchEnd	The operation type specifies the operation that ROUTE should perform.
VRF	VRF name	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Topology	Topology name.	String, case-sensitive. Length: 0 to 31 characters.	An empty string indicates the default topology.
DestAddress	Destination address	String, dotted decimal notation.	An IPv4 address.
Mask	mask length	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Next hop address of the route	String.	IPv4 address string or IPv6 address string.
IfIndex	Output interface index for packets to be forwarded along the route	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Token	LSP index number.	Unsigned integer.	N/A
RealNexthop	Real next hop of the route.	String.	IPv4 address string or IPv6 address string.
Protocol	Routing protocol ID	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIP. • **4**—OSPF. • **5**—IS-IS. • **6**—BGP. • **7**—LISP. • **8**—GUARD.	N/A
Preference	Preference of the route	Unsigned integer. Value range: 0 to 255.	N/A
Cost	Cost of the route	Unsigned integer. Value range: 0 to 4294967295	N/A
Flag	Flags of routes.	Each bit represents a route attribute. Values:	Examples: 6—means the frr backup route.

Column name	Column description	Data type and restrictions	Remarks
		• 2—Fast reroute. • 4—Backup route	
Label	Inner label.	Unsigned integer. Value range: 0 to 4294967295.	N/A
Sequence	Sequence	Unsigned integer. Value range: 1 to 4294967295.	N/A
IfName	Interface name	String. Length: 2 to 47 characters.	N/A

IPv6 Route Event

This event is used to report ipv6 route change information.

XML structure for event subscription

```
<Ipv6RouteEvent>
</Ipv6RouteEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>route_stream</stream>
    <filter type="subtree">
      <Ipv6RouteEvent xmlns="http://www.h3c.com/netconf/event:1.0/ROUTE:1.0">
      </Ipv6RouteEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ROUTE
Event name	Ipv6RouteEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ROUTE:1.0
Support for extended query	No

XML structure for event report

```
<Ipv6RouteEvent>
  <Ipv6Routes>
    <EventType></EventType>
    <VRF></VRF>
    <Topology></Topology>
    <DestAddress></DestAddress>
```

```
    <Mask></Mask>
    <Nexthop></Nexthop>
    <IfIndex></IfIndex>
    <Token></Token>
    <RealNexthop></RealNexthop>
    <Protocol></Protocol>
    <Preference></Preference>
    <Cost></Cost>
    <Flag></Flag>
    <Label></Label>
    <Sequence></Sequence>
    <IfName></IfName>
  </Ipv6Routes>
</Ipv6RouteEvent>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-08-29T09:10:51</eventTime>
  <Ipv6RouteEvent xmlns="http://www.h3c.com/netconf/event:1.0/ROUTE:1.0">
    <Ipv6Routes>
      <EventType>1</EventType>
      <VRF>vpn1</VRF>
      <Topology>topo1</Topology>
      <DestAddress>1::1</DestAddress>
      <Mask>128</Mask>
      <Nexthop>2::2</Nexthop>
      <IfIndex>1</IfIndex>
      <Token>0</Token>
      <RealNexthop>12:1:1::2</RealNexthop>
      <Protocol>BGP4+</Protocol>
      <Preference>255</Preference>
      <Cost>0</Cost>
      <Flag>6</Flag>
      <Label>16001</Label>
      <Sequence>21</Sequence>
      <IfName>GigabitEthernet2/0/2</IfName>
    </Ipv6Routes>
  </Ipv6RouteEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type	Enumeration 1 – Add 2 – Delete 3 – Update 4 – BatchStart 5 – Batch 6 – BatchEnd	The operation type specifies the operation that ROUTE should perform.
VRF	VRF name	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Topology	Topology name.	String, case-sensitive. Length: 0 to 31 characters.	An empty string indicates the default topology.
DestAddress	Destination address	Hexadecimal string, colon-separated.	An IPv6 address.
Mask	mask length	Unsigned integer. Value range: 0 to 128.	N/A
Nexthop	Next hop address of the route	String.	IPv4 address string or IPv6 address string.
IfIndex	Output interface index for packets to be forwarded along the route	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Token	LSP index number.	Unsigned integer.	N/A
RealNexthop	Real next hop of the route.	String.	IPv4 address string or IPv6 address string.
Protocol	Routing protocol ID	Enumeration: • **1**—DIRECT. • **2**—STATIC. • **3**—RIPng. • **4**—OSPFv3. • **5**—IS-ISv6. • **6**—BGP4+. • **7**—LISP.	N/A
Preference	Preference of the route	Unsigned integer. Value range: 0 to 255.	N/A
Cost	Cost of the route	Unsigned integer. Value range: 0 to 4294967295	N/A
Flag	Flags of routes.	Each bit represents a route attribute. Values: • 2—Fast reroute.	Examples: 6—means the frr backup route.

Column name	Column description	Data type and restrictions	Remarks
		• 4—Backup route	
Label	Inner label.	Unsigned integer. Value range: 0 to 4294967295.	N/A
Sequence	Sequence	Unsigned integer. Value range: 1 to 4294967295.	N/A
IfName	Interface name	String. Length: 2 to 47 characters.	N/A

Contents

RoutePolicy 1

RoutePolicy/IPv4Prefix 1
XML structure 1
Table description 1
Columns 1
RoutePolicy/IPv6PrefixList 2
XML structure 2
Table description 3
Columns 3
RoutePolicy/ASpathList 4
XML structure 4
Table description 4
Columns 5
RoutePolicy/Policy 5
XML structure 5
Table description 8
Columns 8
RoutePolicy/ExtcommunityList 19
XML structure 19
Table description 20
Columns 20
RoutePolicy/ExtcommunityListName 21
XML structure 21
Table description 21
Columns 22
RoutePolicy/CommunityList 22
XML structure 22
Table description 23
Columns 23
RoutePolicy/TagList 24
XML structure 24
Table description 24
Columns 25
RoutePolicy/RdList 25
XML structure 25
Table description 25
Columns 26
RoutePolicy/MacList 26
XML structure 26
Table description 27
Columns 27
RoutePolicy/TunnelSelector 27
XML structure 27
Table description 28
Columns 28
RoutePolicy/Global 30
XML structure 30
Table description 30
Columns 31

RoutePolicy

RoutePolicy/IPv4Prefix

This table contains route policy IPv4 prefix information.

XML structure

```
<RoutePolicy>
  <IPv4PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv4PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv4PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: • **0**—permit.	To perform create or replace operation,

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—deny.	Mode can't be empty. To perform Merge operation to create a row, Mode can't be empty. Delete or remove operation is not supported.
Ipv4Address	IPv4 address.		IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1 To perform create or replace operation, Ipv4Address can't be empty. To perform Merge operation to create a row, Ipv4Address can't be empty. Delete or remove operation is not supported.
Ipv4PrefixLength	Mask length of IP address.		Unsigned integer. Value range: 0 to 32.	To perform create or replace operation, Ipv4PrefixLength can't be empty. To perform Merge operation to create a row, Ipv4PrefixLength can't be empty. Delete or remove operation is not supported.
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength

RoutePolicy/IPv6PrefixList

This table contains route policy IPv6 prefix information.

XML structure

```
<RoutePolicy>
  <IPv6PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv6Address></Ipv6Address>
```

```
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv6PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv6PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: • **0**—permit. • **1**—deny.	To perform create or replace operation, Mode can’t be empty. To perform Merge operation to create a row, Mode can’t be empty. Delete or remove operation is not supported.
Ipv6Address	IPv6 address.		IPv6: String, hexadecimal notation.	IPv6 example: 1:1::1:1 To perform create or replace operation, Ipv6Address can’t be empty. To perform Merge operation to create a row, Ipv6Address can’t be empty. Delete or remove operation is not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	Prefix length of IPv6 address.		Unsigned integer. Value range: 0 to 128.	To perform create or replace operation, Ipv4PrefixLength can't be empty. To perform Merge operation to create a row, Ipv4PrefixLength can't be empty. Delete or remove operation is not supported.
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 128.	Ipv6PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 128.	Ipv6PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength

RoutePolicy/ASpathList

This table contains AS path list information.

XML structure

```
<RoutePolicy>
  <ASpathList>
    <List>
      <ListName></ListName>
      <Index></Index>
      <Mode></Mode>
      <RegularExpression></RegularExpression>
    </List>
  </ASpathList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ASpathList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	AS path list number: Unsigned integer. Value range: 1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
RegularExpression	Regular expression.		String. Length: 1 to 256 characters.	Example: ^10

RoutePolicy/Policy

This table contains route policy information.

XML structure

```
<RoutePolicy>
  <Policy>
    <Entry>
      <PolicyName></PolicyName>
      <Index></Index>
      <Mode></Mode>
      <Description></Description>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <IPv6AddressPrefixList></IPv6AddressPrefixList>
        <ExtcommunityList></ExtcommunityList>
        <Tag></Tag>
        <Interface></Interface>
        <L3vni></L3vni>
        <RouteType></RouteType>
        <TagList></TagList>
        <RdList></RdList>
        <Cost></Cost>
        <IPv4AddressAcl></IPv4AddressAcl>
```

```
  <IPv4NextHopAcl></IPv4NextHopAcl>
  <IPv4NextHopPrefixList></IPv4NextHopPrefixList>
  <IPv4RouteSourceAcl></IPv4RouteSourceAcl>
  <IPv4RouteSourcePrefixList></IPv4RouteSourcePrefixList>
  <IPv6AddressAcl></IPv6AddressAcl>
  <IPv6NextHopAcl></IPv6NextHopAcl>
  <IPv6NextHopPrefixList></IPv6NextHopPrefixList>
  <IPv6RouteSourceAcl></IPv6RouteSourceAcl>
  <IPv6RouteSourcePrefixList></IPv6RouteSourcePrefixList>
  <LocalPreference></LocalPreference>
  <MacList></MacList>
  <MplsLabel></MplsLabel>
  <Rpki></Rpki>
  <ChildRoutePolicy></ChildRoutePolicy>
  <Protocol></Protocol>
</Match>
<MatchCommunityList>
  <List></List>
  <WholeMatch></WholeMatch>
</MatchCommunityList>
<MatchASPathList>
  <AspathList></AspathList>
</MatchASPathList>
<MatchVlan>
  <VlanId></VlanId>
  <VlanIdRangeStart></VlanIdRangeStart>
  <VlanIdRangeEnd></VlanIdRangeEnd>
</MatchVlan>
<Apply>
  <ExtCommunityRtValue></ExtCommunityRtValue>
  <ExtCommunityRtType></ExtCommunityRtType>
  <ExtCommunityColorValue></ExtCommunityColorValue>
  <ExtCommunityColorType></ExtCommunityColorType>
  <ExtCommunityBandWidthValue></ExtCommunityBandWidthValue>
  <ExtCommunityBandWidthType></ExtCommunityBandWidthType>
  <ExtCommunitySooValue></ExtCommunitySooValue>
  <ExtCommunitySooType></ExtCommunitySooType>
  <ExtCommunityPriorityColorValue></ExtCommunityPriorityColorValue>
  <ExtCommunityPriorityColorType></ExtCommunityPriorityColorType>
  <VpnPeerId></VpnPeerId>
  <CostValue></CostValue>
  <CostMode></CostMode>
  <LocalPreference></LocalPreference>
  <L3vni></L3vni>
  <ASPath></ASPath>
  <ASPathType></ASPathType>
  <CommunityNumber></CommunityNumber>
  <CommunityAttr></CommunityAttr>
```

```
  <CommunityType></CommunityType>
  <Exp></Exp>
  <CommListDelete></CommListDelete>
  <CostType></CostType>
  <IPv6NextHop></IPv6NextHop>
  <ISIS></ISIS>
  <MplsLabel></MplsLabel>
  <Preference></Preference>
  <PreferredValue></PreferredValue>
  <PrefixPriority></PrefixPriority>
  <Tag></Tag>
  <IPv4NextHopPeerAddress></IPv4NextHopPeerAddress>
  <IPv6NextHopPeerAddress></IPv6NextHopPeerAddress>
  <FlexAlgo></FlexAlgo>
</Apply>
<ApplyIpv4NextHop>
  <NextHopAddr></NextHopAddr>
  <Public></Public>
  <VrfName></VrfName>
</ApplyIpv4NextHop>
<ApplyFastReroute>
  <InterfaceName></InterfaceName>
  <IpAddress></IpAddress>
</ApplyFastReroute>
<ApplyIPv6FastReroute>
  <Ipv6InterfaceName></Ipv6InterfaceName>
  <Ipv6Address></Ipv6Address>
</ApplyIPv6FastReroute>
<ApplyOrigin>
  <Origin></Origin>
  <OriginAsNum></OriginAsNum>
</ApplyOrigin>
<ApplyIpPrecedence>
  <IpPrecValue></IpPrecValue>
  <IpPrecClear></IpPrecClear>
</ApplyIpPrecedence>
<ApplyQosLocId>
  <QosLocIdValue></QosLocIdValue>
  <QosLocIdClear></QosLocIdClear>
</ApplyQosLocId>
<ApplyTrafIndex>
  <TrafIndexValue></TrafIndexValue>
  <TrafIndexClear></TrafIndexClear>
</ApplyTrafIndex>
<Continue></Continue>
<ApplyAigp>
  <CostValue></CostValue>
  <IgpCost></IgpCost>
```

```
      </ApplyAigp>
      <ApplyLabelValue></ApplyLabelValue>
      <ApplyLabelIndex></ApplyLabelIndex>
      <ApplyIpv4GwNextHop>
        <Type></Type>
        <NextHopAddr></NextHopAddr>
      </ApplyIpv4GwNextHop>
      <ApplyIpv6GwNextHop>
        <Type></Type>
        <NextHopAddr></NextHopAddr>
      </ApplyIpv6GwNextHop>
    </Entry>
  </Policy>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Policy
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of route policy.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Operation type of Route Policy.		Enumeration: • 0—permit. • **1**—deny.	To perform create or replace operation, Mode can’t be empty. To perform Merge operation to create a row, Mode can’t be empty. Delete or remove operation is not supported.
Description	Description of route policy.		String, case-sensitive. Length: 1 to 80 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Match	If match condition.	Data structure	Members include: • IPv4AddressPrefixList. • IPv6AddressPrefixList. • ExtcommunityList • Tag • Interface • L3vni • RouteType • TagList • RdList • Cost • IPv4AddressAcl • IPv4NextHopAcl • IPv4NextHopPrefixList • IPv4RouteSourceAcl • IPv4RouteSourcePrefixList • IPv6AddressAcl • IPv6NextHopAcl • IPv6NextHopPrefixList • IPv6RouteSourceAcl • IPv6RouteSourcePrefixList • LocalPreference • MacList • MplsLabel • Rpki • ChildRoutePolicy • Protocol	N/A
IPv4AddressPrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv6AddressPrefixList	Match IPv6 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		List number: Unsigned integer. Value range: 1 to 65535. List name: String, case-sensitive. Length: 1 to 63 characters.	Repeat supported for 32 times.
Tag	Match IGP routes with specified tag		Unsigned integer. Value range: 0 to 4294967295	N/A
Interface	Match routes with specified Interface.		Interface name: String, interface type and interface number.	Support interface name or interface index. Repeat supported for

Column name	Column description	Column type	Data type and restrictions	Remarks
			Interface index: Unsigned integer. Length: 32 bits.	16 times.
L3vni	Match the L3 VXLAN ID of BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
RouteType	Match route type.		Enumeration: • **1**—internal. • **2**—external-type1or2. • **3**—external-type1. • **4**—external-type2. • **5**—nssa-external-type1or2. • **6**—nssa-external- type1. • **7**—nssa-external- type2. • **8**—is-is-level-1. • **9**—is-is-level-2. • **10**—bgp-evpn-mac-ip. • **11**—bgp-evpn-imet. • **12**—bgp-evpn-ip-prefix. • **13**—eigrp-internal. • **14**—eigrp-external. • **15**—bgp-even-ad. • **16**—bgp-evpn-smet • **17**—bgp-evpn-spmsi	Repeat supported for 14 times. One route type cannot be configured twice in one command.
TagList	Match IGP routes with the specified tag list.		Unsigned integer. Value range: 1 to 65535.	N/A
RdList	Match VPN routes with the specified RD list.		Unsigned integer. Value range: 1 to 65535.	N/A
Cost	Match routes with the specified cost.		Unsigned integer. Value range: 0 to 4294967295.	
IPv4Address Acl	Match the desination address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv4NextHop Acl	Match the next hop of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv4NextHop PrefixList	Match the next hop of IPv4 routes using a prefix list.		String, case-sensitive. Length: 1 to 63 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4RouteSourceAcl	Match the source address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv4RouteSourcePrefixList	Match the source address of IPv4 routes using an IP prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
IPv6AddressAcl	Match the desination address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv6NextHopAcl	Match the next hop of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv6NextHopPrefixList	Match the next hop of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
IPv6RouteSourceAcl	Match the source address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv6RouteSourcePrefixList	Match the source address of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
LocalPreference	Match BGP routes that have the specified local preference.		Unsigned integer. Value range: 0 to 4294967295.	
MacList	Match MAC addresses that are contained in EVI IS-IS packets.		String, case-sensitive. Length: 1 to 63 characters.	
MplsLabel	Match routes with the specified MPLS labels.		Enumeration: • 0—Not configured. • 1—Configured.	
Rpki	Match routes with the specified RPKI validation state.		Enumeration: • 0—invalid • 1—not-found • 2—valid	
ChildRoutePolicy	Match child route policy		String, case-sensitive. Length: 1 to 63 characters.	Loop-nesting child policies are not supported.
Protocol	Match routes with protocol.		Enumeration: • 1—direct. • 2—static.	Repeat supported for 10 times. One protocol cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—bgp. • 4—ospf. • 5—ospfv3. • 6—isis. • 7—rip. • 8—ripng. • 9—eigrp. • 10—unr.	configured duplicately in one command.
MatchCommunityList	If match communitylist condition.	Data structure	Members include: • List. • WholeMatch	Repeat supported for 32 times.
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	List name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: • 0—Disable. • 1—Enable.	Not supported when specifying an advanced community list number.
MatchASPathList	If-match AS path list condition.	Data structure	Members include: AspathList.	Repeat supported for 32 times.
AspathList	Match BGP routes whose AS path attribute matches a specified AS path list.		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name: String, case-sensitive. • Length: 1 to 51 characters.	List name cannot be all made up of numbers.
MatchVlan	Match routes that contain the specified VLANs.	Data structure	Members include: • VlanId • VlanIdRangStart VlanIdRangeEnd.	A maximum of 16 VLAN ID items can be specified.
VlanId	Specify a VLAN ID.		Unsigned integer. Value range: 1 to 4094.	N/A
VlanIdRangeStart	Specify the start VLAN ID of a VLAN ID range.		Unsigned integer. Value range: 1 to 4094.	You must set both VlanIdRangeStart and VlanIdRangeEnd, or set neither of them.
VlanIdRangeEnd	Specify the end VLAN ID of a VLAN ID range.		Unsigned integer. Value range:	You must set both of VlanIdRangeStart and VlanIdRangeEnd, or set

Column name	Column description	Column type	Data type and restrictions	Remarks
			1 to 4094.	neither of them.
Apply	Apply action.	Data structure	Members include: • ExtCommunityRtValue. • ExtCommunityRtType. • ExtCommunityColorValue. • ExtCommunityColorType. • ExtCommunityBandWidthValue. • ExtCommunityBandWidthType. • ExtCommunitySooValue. • ExtCommunitySooType. • ExtCommunityPriorityColorValue. • ExtCommunityPriorityColorType. • VpnPeerId. • CostValue. • CostMode. • LocalPreference. • L3vni. • ASPath. • ASPathType. • CommunityNumber. • CommunityAttr. • CommunityType. • Exp. • CommListDelete. • CostType. • IPv6NextHop. • ISIS. • MplsLabel. • Preference. • PreferredValue. • PrefixPriority. • Tag. • IPv4NextHopPeerAddress • IPv6NextHopPeerAddress • FlexAlgo	N/A
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 24 characters. • The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-6553	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
			5> or AS<X.Y>:NN<0-65535>.	
ExtCommunityRtType	The Ext Community RT additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityColorValue	The value of Ext Community color.		String. Length: 4 to 13 characters. The format is CO<00-11>:Color<0-4294967295>.	Example: 10:30.
ExtCommunityColorType	The Ext Community color type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityBandwidthValue	The value of Ext Community Link-bandwidth.		String. Length: 3 to 16 characters. The format is AS<0-65535>:NN<0-4294967295>	Example: 70000:3.
ExtCommunityBandwidthType	The Ext Community Link-bandwidth additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunitySooValue	The value of Ext Community Soo.		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for Get and Get-Bulk action.
ExtCommunitySooType	The Ext Community Soo additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityPriorityColorValue	Value of extended community priority color.		String. Length: 3 to 12 characters. The format is Priority<0-15>: SiteID <1-65535>:DeviceID<1-255> or Priority<0-15>: SiteID <1-65535>	Example: 10:30:10. A maximum of 32 entries can be specified.
ExtCommunityPriorityColorType	Extended community priority color additive type.		Enumeration: • 1—Additive • 2—Replace	N/A
VpnPeerId	Set vpn-peer-id		Unsigned integer. Value range: 1 to 134217727	N/A
CostValue	Route cost value		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 4294967295	
CostMode	Route cost change mode.		Enumeration: • 0—Update. • 1—Increase. • 2—Decrease.	N/A
LocalPreference	BGP route local preference		Unsigned integer. Value range: 0 to 4294967295	N/A
L3vni	Specify an L3 VXLAN ID for BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
ASPath	AS_PATH attribute value.		Unsigned integer. Value range: 1 to 4294967295	Repeat supported for 32 times.
ASPathType	AS_PATH attribute additive type.		Enumeration: • 1—Additive. • 2—Replace. • 3—Clear. • 4—Delete.	The ASPath column can't be configured when the ASPathType column is Clear.
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>.	Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr.
CommunityAttr	Community attribute.		Enumeration: • 1—Internet. • 2—No-advertise. • 3—no-export. • 4—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber.
CommunityType	Community additive type.		Enumeration: • 0—Replace. • 1—Additive. • 2—None.	N/A
Exp	Specify an MPLS EXP value		Unsigned integer. Value range: 0 to 7	N/A
CommListDelete	Delete the COMMUNITY attributes from BGP routes.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	
CostType	Specify a cost type.		Enumeration: • 1—external. • 2—internal. • 3—type-1 • 4—type-2 • 5—inherit-link-cost • 6—med-plus-igp • 7—internal-inc-ibgp	N/A
IPv6NextHop	Specify a next hop for IPv6 routes.		Hexadecimal string, colon-separated.	N/A
ISIS	Specify an IS-IS level.		Enumeration: • 1—level-1. • 2—level-1-2. • 3—level-2.	N/A
MplsLabel	Specify whether to configure an MPLS label or not.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
Preference	Specify a preference for a routing protocol.		Unsigned integer. Value range: 1 to 255.	N/A
PreferredValue	Specify a preferred value for BGP routes.		Unsigned integer. Value range: 0 to 65535.	N/A
PrefixPriority	Specify a prefix priority.		Enumeration: • 1—critical. • 2—high. • 3—medium.	N/A
Tag	Specify a tag for IGP routes.		Unsigned integer. Value range: 0 to 4294967295.	N/A
IPv4NextHopPeerAddress	Apply IPv4 peer address as next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
IPv6NextHopPeerAddress	Apply IPv6 peer address as next hop		Enumeration: • 0—Not configured. • 1—Configured.	N/A
FlexAlgo	Specify the algorithm of		Unsigned integer. Value range: 128 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	route			
ApplyIpv4NextHop	Set the next hop of an IPv4 route.	Data structure	Members include: • NextHopAddr. • Public. • VrfName	N/A
NextHopAddr	Specify a next hop for IPv4 routes.		Hexadecimal string, colon-separated.	N/A
Public	Specify public network		Enumeration: • 0—Not configured. • 1—Configured.	N/A
VrfName	Specify the VPN instance name for the next hop of an IPv4 route		String. Length: 1 to 31 characters.	N/A
ApplyFastReroute	Set a backup link for IPv4 fast reroute.	Data structure	Members include: • InterfaceName. • IpAddress.	N/A
InterfaceName	Specify a backup output interface by its Name.		String. Length: 0 to 47 characters.	Example: • NULL0. M-GigabitEthernet0/0/0
IpAddress	Specify a backup next hop.		IPv4: String, dotted decimal notation.	N/A
ApplyIPv6FastReroute	Set a backup link for IPv6 fast reroute.	Data structure	Members include: • Ipv6InterfaceName. • Ipv6Address.	N/A
Ipv6InterfaceName	Specify a backup output interface by its Name.		String. Length: 0 to 47 characters.	Example: • NULL0. M-GigabitEthernet0/0/0
Ipv6Address	Specify a backup next hop.		Hexadecimal string, colon-separated.	N/A
ApplyOrigin	Set the ORIGIN attribute for BGP routes.	Data structure	Members include: • Origin • OriginAsNum	N/A
Origin	Specify an ORIGIN attribute.		Enumeration: • 1—egp. • 2—igp. • 3—incomplete.	N/A
OriginAsNum	Specify the AS number for EGP routes.		Unsigned integer. Value range: 1 to 4294967295.	The AsNumber can be set only when the Origin is set to egp.
ApplyIpPrecedence	Set an IP precedence.	Data structure	Members include: • IpPrecValue	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• IpPrecClear	
IpPrecValue	Specify an IP precedence.		Unsigned integer. Value range: 0 to 7.	You cannot set IpPrecValue and IpPrecClear at the same time.
IpPrecClear	Clear the IP precedence of matching routes.		Enumeration: • 0—Not configured. • 1—Configured..	You cannot set IpPrecValue and IpPrecClear at the same time.
ApplyQosLocId	Set a local QoS ID.	Data structure	Members include: • QosLocIdValue • QosLocIdClear	N/A
QosLocIdValue	Specify a local QoS ID.		Unsigned integer. Value range: 1 to 4095.	You can not set QosLocIdValue and QosLocIdClear at the same time.
QosLocIdClear	Clear the local QoS ID of matching routes.		Enumeration: • 0—Not configured. • 1—Configured..	You cannot set QosLocIdValue and QosLocIdClear at the same time.
ApplyTrafIndex	Set a traffic index.	Data structure	Members include: • TrafIndexValue • TrafIndexClear	N/A
TrafIndexValue	Specify a traffic index.		Unsigned integer. Value range: 1 to 64.	You cannot set TrafIndexValue and TrafIndexClear at the same time.
TrafIndexClear	Clear the traffic index of BGP routes.		Enumeration: • 0—Not configured. • 1—Configured..	You cannot set TrafIndexValue and TrafIndexClear at the same time.
Continue	Set the next node to be matched.		Unsigned integer. Value range: 0 to 65535.	N/A
ApplyAigp	Apply AIGP attribute.	Data structure	Members include: • TrafIndexValue • TrafIndexClear	N/A
CostValue	AIGP attribute value of BGP route.		Unsigned integer. Value range: 0 to 4294967295.	If IgpCost is set to 0, AIGP attribute value of BGP route is CostValue,else set AIGP attribute value of BGP route to IGP route cost.
IgpCost	Set AIGP attribute value of BGP route to IGP route cost.		Enumeration: • 0—Not configured. • 1—Configured.	If IgpCost is set to 0, AIGP attribute value of BGP route is CostValue,else set AIGP attribute value of BGP route to IGP route cost.

Column name	Column description	Column type	Data type and restrictions	Remarks
ApplyLabelValue	SID value		Unsigned integer. Value range: 16 to 1048575.	N/A
ApplyLabelIndex	Label index value of route.		Unsigned integer. Value range: 0 to 1048575.	N/A
ApplyIpv4GwNextHop	Set the next hop of an IPv4 route to the gateway IP address.	Data structure	Members include: • Type. • NextHopAddr.	N/A
Type	Specify the type of the next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
NextHopAddr	Specify the next hop address.		IPv4: String, dotted decimal notation.	An empty IPv4 address string indicates the gateway address.
ApplyIpv6GwNextHop	Set the next hop of an IPv6 route to the gateway IP address.	Data structure	Members include: • Type. • NextHopAddr.	N/A
Type	Specify the type of the next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
NextHopAddr	Specify the next hop address.		String, IPv6 address string.	An empty IPv6 address string indicates the gateway address.

RoutePolicy/ExtcommunityList

This table contains route policy extcommunity list information.

XML structure

```
<RoutePolicy>
  <ExtcommunityList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <SoO></SoO>
      <Bandwidth></Bandwidth>
      <PriorityColor></PriorityColor>
      <PriorityColorMode></PriorityColorMode>
      <PriorityColorRegExp></PriorityColorRegExp>
    </List>
```

```
  </ExtcommunityList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Rt	Route Target		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO and Bandwidth configuration.
SoO	Site of Origin		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with Rt and Bandwidth configuration.

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Link bandwidth		String. Length: 3 to 16 characters. Format: AS<0-65535>:NN<0-4294967295>.	Example: 6000:3. Repeat supported for 32 times along with Rt and SoO configuration.
PriorityColor	Priority color value		String. Length: 3 to 12 characters. The format is Priority<0-15>: SiteID <1-65535>:DeviceID<1-255> or Priority<0-15>: SiteID <1-65535>	Example: 1:150:1 A maximum of 32 entries can be specified.
PriorityColor Mode	Priority color match type		Enumeration: • 0—MatchPriority. • 1—NotMatchPriority.	The PriorityColorMode must be configured with the PriorityColor together.
PriorityColorRegExp	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10

RoutePolicy/ExtcommunityListName

This table contains route policy extcommunity list information.

XML structure

```
<RoutePolicy>
  <ExtcommunityListName>
    <List>
      <ListName></ListName>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <SoO></SoO>
      <Bandwidth></Bandwidth>
    </List>
  </ExtcommunityListName>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityListName
Table type	Multi-instance table
Row name	List

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	String, case-sensitive. Length: 1 to 63 characters.	Ext-Community list name cannot be all made up of numbers.
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Rt	Route Target		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO and Bandwidth configuration.
SoO	Site of Origin		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with Rt and Bandwidth configuration.
Bandwidth	Link bandwidth		String. Length: 3 to 16 characters. Format: AS<0-65535>:NN<0-4294967295>.	Example: 6000:3. Repeat supported for 32 times along with Rt and SoO configuration.

RoutePolicy/CommunityList

This table contains route policy community list information.

XML structure

```
<RoutePolicy>
```

```
  <CommunityList>
    <List>
      <ListName></ListName>
      <Level></Level>
      <Index></Index>
      <Mode></Mode>
      <CommunityNumber></CommunityNumber>
      <CommunityAttr></CommunityAttr>
      <RegularExpression></RegularExpression>
    </List>
  </CommunityList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	CommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	Community list number: Unsigned integer. Value range: Basic:1 to 99. Advanced:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	Community list name cannot be all made up of numbers.
Level	List level.	Index	Enumeration: • **1**—Basic. • **2**—Advanced.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: • **0**—permit. • **1**—deny.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr. Only supported for basic community list.
CommunityAttr	Community attribute.		Enumeration: • **1**—Internet. • **2**—No-advertise. • **3**—no-export. • **4**—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber. Only supported for basic community list.
RegularExpression	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10 Only supported for advanced community list.

RoutePolicy/TagList

This table contains route policy tag list information.

XML structure

```
<RoutePolicy>
  <TagList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <TagValue></TagValue>
    </List>
  </TagList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TagList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and	Yes

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of tag list		Enumeration: • **0**—permit. • **1**—deny.	N/A
TagValue	Tag value		Unsigned integer. Value range: 0 to 4294967295.	Repeat supported for 32 times.

RoutePolicy/RdList

This table contains route policy Rd list information.

XML structure

```
<RoutePolicy>
  <RdList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <RdValue></RdValue>
    </List>
  </RdList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	RdList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and	Yes

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of RD list		Enumeration: • **0**—permit. • **1**—deny.	N/A
RdValue	Rd value		String. Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or IP<X.X.X.X>:* or AS<0-65535>:NN<0-4294967295> or AS<0-65535>:* or AS<65536-4294967295>:NN<0-65535> or AS<65536-4294967295>:*	Repeat supported for 10 times.

RoutePolicy/MacList

This table contains route policy MAC list information.

XML structure

```
<RoutePolicy>
  <MacList>
    <List>
      <MaclistName></MaclistName>
      <Index></Index>
      <Mode></Mode>
      <MacAddress></MacAddress>
      <MaskLength></MaskLength>
    </List>
  </MacList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	MacList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaclistName	Name of the MAC list.	Index	String. Length: 1 to 63 characters.	N/A
Index	MAC list item index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of MAC list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
MacAddress	MAC address		Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
MaskLength	Mask length		Unsigned integer. Value range: 0 to 48.	N/A

RoutePolicy/TunnelSelector

This table contains tunnel selector information.

XML structure

```
<RoutePolicy>
  <TunnelSelector>
    <Entry>
      <TunnelSelectorName></TunnelSelectorName>
      <Index></Index>
      <Mode></Mode>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <IPv6AddressPrefixList></IPv6AddressPrefixList>
```

```
        <RdList></RdList>
        <Cost></Cost>
        <IPv4AddressAcl></IPv4AddressAcl>
        <IPv4NextHopAcl></IPv4NextHopAcl>
        <IPv4NextHopPrefixList></IPv4NextHopPrefixList>
        <IPv6AddressAcl></IPv6AddressAcl>
        <IPv6NextHopAcl></IPv6NextHopAcl>
        <IPv6NextHopPrefixList></IPv6NextHopPrefixList>
        <ExtcommunityList></ExtcommunityList>
      </Match>
      <MatchCommunityList>
        <List></List>
        <WholeMatch></WholeMatch>
      </MatchCommunityList>
      <ApplyTunnelPolicy></ApplyTunnelPolicy>
    </Entry>
  </TunnelSelector>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TunnelSelector
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSelectorName	Name of tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Operation type of tunnel selector.		Enumeration: • 0—permit. • 1—deny.	To perform create or replace operation, Mode can’t be empty. To perform Merge operation to create a row, Mode can’t be empty. Delete or remove operation is not

Column name	Column description	Column type	Data type and restrictions	Remarks
				supported.
Match	If match condition.	Data structure	Members include: • IPv4AddressPrefixList. • IPv6AddressPrefixList. • RdList • IPv4AddressAcl • IPv4NextHopAcl • IPv4NextHopPrefixList • IPv6AddressAcl • IPv6NextHopAcl • IPv6NextHopPrefixList • ExtcommunityList	N/A
IPv4Address PrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv6Address PrefixList	Match IPv6 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
RdList	Match VPN routes with the specified RD list.		Unsigned integer. Value range: 1 to 65535.	N/A
Cost	Match routes with the specified cost.		Unsigned integer. Value range: 0 to 4294967295.	
IPv4Address Acl	Match the desination address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv4NextHop Acl	Match the next hop of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv4NextHop PrefixList	Match the next hop of IPv4 routes using a prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
IPv6Address Acl	Match the desination address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv6NextHop Acl	Match the next hop of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv6NextHop PrefixList	Match the next hop of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		List number: Unsigned integer. Value range: 1 to 65535. List name: String, case-sensitive. Length: 1 to 63 characters.	Repeat supported for 32 times. The value range is related to the model of the equipment. Please refer to the actual condition of the equipment.
MatchCommunityList	If match communitylist condition.	Data structure	Members include: • List. • WholeMatch	
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	A community list name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: • 0—Disable. 1—Enable.	
ApplyTunnelPolicy	Tunnel policy name.		String, case-sensitive. Length: 1 to 126 characters.	

RoutePolicy/Global

This table contains route policy configuration information.

XML structure

```
<RoutePolicy>
  <Global>
    <PrefixProtocolCheck></PrefixProtocolCheck>
  </Global>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Global

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixProtocolCheck	Check the protocol consistency between a BGP route and the prefix list.		Enumeration: • 0—Not configured. • 1—Configured.	

Contents

RoutePolicy 1

RoutePolicy/IPv4Prefix 1
XML structure 1
Table description 1
Columns 1
RoutePolicy/IPv6PrefixList 2
XML structure 2
Table description 2
Columns 3
RoutePolicy/ASpathList 3
XML structure 3
Table description 3
Columns 4
RoutePolicy/Policy 4
XML structure 4
Table description 7
Columns 7
RoutePolicy/ExtcommunityList 18
XML structure 18
Table description 19
Columns 19
RoutePolicy/ExtcommunityListName 20
XML structure 20
Table description 20
Columns 21
RoutePolicy/CommunityList 21
XML structure 21
Table description 22
Columns 22
RoutePolicy/TagList 23
XML structure 23
Table description 23
Columns 24
RoutePolicy/RdList 24
XML structure 24
Table description 24
Columns 25
RoutePolicy/MacList 25
XML structure 25
Table description 26
Columns 26
RoutePolicy/TunnelSelector 26
XML structure 26
Table description 27
Columns 27
RoutePolicy/Global 29
XML structure 29
Table description 29
Columns 30

RoutePolicy

RoutePolicy/IPv4Prefix

This table contains route policy IPv4 prefix information.

XML structure

```
<RoutePolicy>
  <IPv4PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv4PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv4PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Ipv4Address	IPv4 address.		IPv4: String, dotted decimal	IPv4 example: 1.1.1.1

Column name	Column description	Column type	Data type and restrictions	Remarks
			notation.	
Ipv4PrefixLength	Mask length of IP address.		Unsigned integer. Value range: 0 to 32.	N/A
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength.
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength.

RoutePolicy/IPv6PrefixList

This table contains route policy IPv6 prefix information.

XML structure

```
<RoutePolicy>
  <IPv6PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv6PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv6PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Ipv6Address	IPv6 address.		IPv6: String, hexadecimal notation.	IPv6 example: 1:1::1:1
Ipv6PrefixLength	Prefix length of IP address.		Unsigned integer. Value range: 0 to 128.	N/A
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 128	Ipv6PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength.
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 128.	Ipv6PrefixLength ≤ MinPrefixLength ≤ MaxPrefixLength.

RoutePolicy/ASpathList

This table contains AS path list information.

XML structure

```
<RoutePolicy>
  <ASpathList>
    <List>
      <ListName></ListName>
      <Index></Index>
      <Mode></Mode>
      <RegularExpression></RegularExpression>
    </List>
  </ASpathList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ASpathList
Table type	Multi-instance table

Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	AS path list number: Unsigned integer. Value range: 1 to 256. AS path list name: String, case-sensitive. Length: 1 to 51 characters.	An AS path list name cannot be all made up of numbers.
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
RegularExpression	Regular expression.		String. Length: 1 to 256 characters.	Example: ^10

RoutePolicy/Policy

This table contains route policy information.

XML structure

```
<RoutePolicy>
  <Policy>
    <Entry>
      <PolicyName></PolicyName>
      <Index></Index>
      <Mode></Mode>
      <Description></Description>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <IPv6AddressPrefixList></IPv6AddressPrefixList>
        <ExtcommunityList></ExtcommunityList>
        <Tag></Tag>
        <Interface></Interface>
        <L3vni></L3vni>
        <RouteType></RouteType>
```

```
  <TagList></TagList>
  <RdList></RdList>
  <Cost></Cost>
  <IPv4AddressAcl></IPv4AddressAcl>
  <IPv4NextHopAcl></IPv4NextHopAcl>
  <IPv4NextHopPrefixList></IPv4NextHopPrefixList>
  <IPv4RouteSourceAcl></IPv4RouteSourceAcl>
  <IPv4RouteSourcePrefixList></IPv4RouteSourcePrefixList>
  <IPv6AddressAcl></IPv6AddressAcl>
  <IPv6NextHopAcl></IPv6NextHopAcl>
  <IPv6NextHopPrefixList></IPv6NextHopPrefixList>
  <IPv6RouteSourceAcl></IPv6RouteSourceAcl>
  <IPv6RouteSourcePrefixList></IPv6RouteSourcePrefixList>
  <LocalPreference></LocalPreference>
  <MacList></MacList>
  <MplsLabel></MplsLabel>
  <Rpki></Rpki>
  <ChildRoutePolicy></ChildRoutePolicy>
  <Protocol></Protocol>
</Match>
<MatchCommunityList>
  <List></List>
  <WholeMatch></WholeMatch>
</MatchCommunityList>
<MatchASPathList>
  <AspathList></AspathList>
</MatchASPathList>
<MatchVlan>
  <VlanId></VlanId>
  <VlanIdRangeStart></VlanIdRangeStart>
  <VlanIdRangeEnd></VlanIdRangeEnd>
</MatchVlan>
<Apply>
  <ExtCommunityRtValue></ExtCommunityRtValue>
  <ExtCommunityRtType></ExtCommunityRtType>
  <ExtCommunityColorValue></ExtCommunityColorValue>
  <ExtCommunityColorType></ExtCommunityColorType>
  <ExtCommunityBandWidthValue></ExtCommunityBandWidthValue>
  <ExtCommunityBandWidthType></ExtCommunityBandWidthType>
  <ExtCommunitySooValue></ExtCommunitySooValue>
  <ExtCommunitySooType></ExtCommunitySooType>
  <ExtCommunityPriorityColorValue></ExtCommunityPriorityColorValue>
  <ExtCommunityPriorityColorType></ExtCommunityPriorityColorType>
  <VpnPeerId></VpnPeerId>
  <CostValue></CostValue>
  <CostMode></CostMode>
  <LocalPreference></LocalPreference>
  <L3vni></L3vni>
```

```
  <ASPath></ASPath>
  <ASPathType></ASPathType>
  <CommunityNumber></CommunityNumber>
  <CommunityAttr></CommunityAttr>
  <CommunityType></CommunityType>
  <Exp></Exp>
  <CommListDelete></CommListDelete>
  <CostType></CostType>
  <IPv6NextHop></IPv6NextHop>
  <ISIS></ISIS>
  <MplsLabel></MplsLabel>
  <Preference></Preference>
  <PreferredValue></PreferredValue>
  <PrefixPriority></PrefixPriority>
  <Tag></Tag>
  <IPv4NextHopPeerAddress></IPv4NextHopPeerAddress>
  <IPv6NextHopPeerAddress></IPv6NextHopPeerAddress>
  <FlexAlgo></FlexAlgo>
</Apply>
<ApplyIpv4NextHop>
  <NextHopAddr></NextHopAddr>
  <Public></Public>
  <VrfName></VrfName>
</ApplyIpv4NextHop>
<ApplyFastReroute>
  <InterfaceName></InterfaceName>
  <IpAddress></IpAddress>
</ApplyFastReroute>
<ApplyIPv6FastReroute>
  <Ipv6InterfaceName></Ipv6InterfaceName>
  <Ipv6Address></Ipv6Address>
</ApplyIPv6FastReroute>
<ApplyOrigin>
  <Origin></Origin>
  <OriginAsNum></OriginAsNum>
</ApplyOrigin>
<ApplyIpPrecedence>
  <IpPrecValue></IpPrecValue>
  <IpPrecClear></IpPrecClear>
</ApplyIpPrecedence>
<ApplyQosLocId>
  <QosLocIdValue></QosLocIdValue>
  <QosLocIdClear></QosLocIdClear>
</ApplyQosLocId>
<ApplyTrafIndex>
  <TrafIndexValue></TrafIndexValue>
  <TrafIndexClear></TrafIndexClear>
</ApplyTrafIndex>
```

```
      <Continue></Continue>
      <ApplyAigp>
        <CostValue></CostValue>
        <IgpCost></IgpCost>
      </ApplyAigp>
      <ApplyLabelValue></ApplyLabelValue>
      <ApplyLabelIndex></ApplyLabelIndex>
      <ApplyIpv4GwNextHop>
        <Type></Type>
        <NextHopAddr></NextHopAddr>
      </ApplyIpv4GwNextHop>
      <ApplyIpv6GwNextHop>
        <Type></Type>
        <NextHopAddr></NextHopAddr>
      </ApplyIpv6GwNextHop>
    </Entry>
  </Policy>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Policy
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of route policy.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Operation type of Route Policy.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Description	Description of route policy.		String, case-sensitive. Length: 1 to 80 characters.	N/A
Match	If match condition.	Data structure	Members include: • IPv4AddressPrefixList. • IPv6AddressPrefixList • ExtcommunityList	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Tag • Interface • L3vni • RouteType • TagList • RdList • Cost • IPv4AddressAcl • IPv4NextHopAcl • IPv4NextHopPrefixList • IPv4RouteSourceAcl • IPv4RouteSourcePrefixList • IPv6AddressAcl • IPv6NextHopAcl • IPv6NextHopPrefixList • IPv6RouteSourceAcl • IPv6RouteSourcePrefixList • LocalPreference • MacList • MplsLabel • Rpki • ChildRoutePolicy • Protocol	
IPv4AddressPrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv6AddressPrefixList	Match IPv6 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		List number: Unsigned integer. Value range: 1 to 65535. List name: String, case-sensitive. Length: 1 to 63 characters.	Repeat supported for 32 times.
Tag	Match IGP routes with specified tag		Unsigned integer. Value range: 0 to 4294967295	N/A
Interface	Match routes with specified Interface.		Interface name: String, interface type and interface number. Interface index: Unsigned integer. Length: 32 bits.	Support interface name or interface index. Repeat supported for 16 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
L3vni	Match the L3 VXLAN ID of BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
RouteType	Match route type.		Enumeration: • **1**—internal. • **2**—external-type1or2. • **3**—external-type1. • **4**—external-type2. • **5**—nssa-external-type1or2. • **6**—nssa-external- type1. • **7**—nssa-external- type2. • **8**—is-is-level-1. • **9**—is-is-level-2. • **10**—bgp-evpn-mac-ip. • **11**—bgp-evpn-imet. • **12**—bgp-evpn-ip-prefix. • **13**—eigrp-internal. • **14**—eigrp-external. • **15**—bgp-evpn-ad. • **16**—bgp-evpn-smet • **17**—bgp-evpn-spmsi	Repeat supported for 14 times. One route type cannot be configured twice in one command.
TagList	Match IGP routes with the specified tag list.		Unsigned integer. Value range: 1 to 65535.	N/A
RdList	Match VPN routes with the specified RD list.		Unsigned integer. Value range: 1 to 65535.	N/A
Cost	Match routes with the specified cost.		Unsigned integer. Value range: 0 to 4294967295.	N/A
IPv4Address Acl	Match the desination address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	N/A
IPv4NextHop Acl	Match the next hop of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4NextHop PrefixList	Match the next hop of IPv4 routes using a prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv4RouteSo urceAcl	Match the source address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4RouteSourcePrefixList	Match the source address of IPv4 routes using an IP prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv6AddressAcl	Match the desination address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	N/A
IPv6NextHopAcl	Match the next hop of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6NextHopPrefixList	Match the next hop of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		List number: Unsigned integer. Value range: 1 to 65535. List name: String, case-sensitive. Length: 1 to 63 characters.	Repeat supported for 32 times.
IPv6RouteSourceAcl	Match the source address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6RouteSourcePrefixList	Match the source address of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
LocalPreference	Match BGP routes that have the specified local preference.		Unsigned integer. Value range: 0 to 4294967295.	N/A
MacList	Match MAC addresses that are contained in EVI IS-IS packets.		String, case-sensitive. Length: 1 to 63 characters.	N/A
MplsLabel	Match routes with the specified MPLS labels.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
Rpki	Match routes with the specified RPKI validation state.		Enumeration: • 0—invalid • 1—not-found • 2—valid	N/A
ChildRoutePo	Match child route		String, case-sensitive.	Loop-nesting child

Column name	Column description	Column type	Data type and restrictions	Remarks
licy	policy		Length: 1 to 63 characters.	policies are not supported.
Protocol	Match routes with protocol.		Enumeration: • 1—direct. • 2—static. • 3—bgp. • 4—ospf. • 5—ospfv3. • 6—isis. • 7—rip. • 8—ripng. • 9—eigrp. • 10—unr.	Repeat supported for 10 times. One protocol cannot be configured duplicately in one command.
MatchCommunityList	If match communitylist condition.	Data structure	Members include: • List. • WholeMatch	Repeat supported for 32 times.
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	List name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: • 0—Disable. • 1—Enable.	Not supported when specifying an advanced community list number.
VlanId	Specify a VLAN ID.		Unsigned integer. Value range: 1 to 4094.	N/A
VlanIdRangeStart	Specify the start VLAN ID of a VLAN ID range.		Unsigned integer. Value range: 1 to 4094.	You must set both VlanIdRangeStart and VlanIdRangeEnd, or set neither of them.
VlanIdRangeEnd	Specify the end VLAN ID of a VLAN ID range.		Unsigned integer. Value range: 1 to 4094.	You must set both of VlanIdRangeStart and VlanIdRangeEnd, or set neither of them.
MatchASPathList	If-match AS path list condition.	Data structure	Members include: List.	Repeat supported for 32 times.
AspathList	Match BGP routes whose AS path attribute matches a specified AS path list.		AS path list number: Unsigned integer. Value range:1 to 256. AS path list name:	List name cannot be all made up of numbers.

Column name	Column description	Column type	Data type and restrictions	Remarks
			String, case-sensitive. Length: 1 to 51 characters.	
Apply	Apply action.	Data structure	Members include: • ExtCommunityRtValue. • ExtCommunityRtType. • ExtCommunityColorValue. • ExtCommunityColorType. • ExtCommunityBandWidthValue. • ExtCommunityBandWidthType. • ExtCommunitySooValue. • ExtCommunitySooType. • ExtCommunityPriorityColorValue. • ExtCommunityPriorityColorType. • VpnPeerId. • CostValue. • CostMode. • LocalPreference. • L3vni. • ASPath. • ASPathType. • CommunityNumber. • CommunityAttr. • CommunityType. • Exp. • CommListDelete. • CostType. • IPv6NextHop. • ISIS. • MplsLabel. • Preference. • PreferredValue. • PrefixPriority. • Tag. • IPv4NextHopPeerAddress • IPv6NextHopPeerAddress • FlexAlgo	N/A
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 24 characters. • The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
			IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	
ExtCommunityRtType	The Ext Community RT additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityColorValue	The value of Ext Community color.		String. Length: 4 to 13 characters. The format is CO<00-11>:Color<0-4294967295>.	Example: 10:30.
ExtCommunityColorType	The Ext Community color type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityBandwidthValue	The value of Ext Community Link-bandwidth.		String. Length: 3 to 16 characters. The format is AS<0-65535>:NN<0-4294967295>	Example: 70000:3.
ExtCommunityBandwidthType	The Ext Community Link-bandwidth additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunitySooValue	The value of Ext Community Soo.		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for Get and Get-Bulk action.
ExtCommunitySooType	The Ext Community Soo additive type.		Enumeration: • 1—Additive. • 2—Replace.	N/A
ExtCommunityPriorityColorValue	Value of extended community priority color.		String. Length: 5 to 12 characters. The format is Priority<0-15>:SiteID <1-65535>:DeviceID<1-255>	Example: 10:30:10. A maximum of 32 entries can be specified.
ExtCommunityPriorityColorType	Extended community priority color additive type.		Enumeration: • 1—Additive • 2—Replace	N/A
VpnPeerId	Set vpn-peer-id		Unsigned integer. Value range: 1 to 134217727	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CostValue	Route cost value.		Unsigned integer. Value range: 0 to 4294967295	N/A
CostMode	Route cost change mode.		Enumeration: • 0—Update. • 1—Increase. • 2—Decrease.	N/A
LocalPreference	BGP route local preference.		Unsigned integer. Value range: 0 to 4294967295	N/A
L3vni	Specify an L3 VXLAN ID for BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
ASPath	AS_PATH attribute value.		Unsigned integer. Value range: 1 to 4294967295	Repeat supported for 32 times.
ASPathType	AS_PATH attribute additive type.		Enumeration: • 1—Additive. • 2—Replace. • 3—Clear. • 4—Delete.	The ASPath column can't be configured when the ASPathType column is Clear.
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>.	Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr.
CommunityAttr	Community attribute.		Enumeration: • 1—Internet. • 2—No-advertise. • 3—no-export. • 4—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber.
CommunityType	Community additive type.		Enumeration: • 0—Replace. • 1—Additive. • 2—None.	N/A
Exp	Specify an MPLS EXP value		Unsigned integer. Value range: 0 to 7	N/A
CommListDelete	Delete the COMMUNITY attributes from BGP		Basic community list number: Unsigned integer. Value range:1 to 99.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	routes.		Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	
CostType	Specify a cost type.		Enumeration: • 1—external. • 2—internal. • 3—type-1 • 4—type-2 • 5—inherit-link-cost • 6—med-plus-igp • 7—internal-inc-ibgp	N/A
IPv6NextHop	Specify a next hop for IPv6 routes.		Hexadecimal string, colon-separated.	N/A
ISIS	Specify an IS-IS level.		Enumeration: • 1—level-1. • 2—level-1-2. • 3—level-2.	N/A
MplsLabel	Specify whether to configure an MPLS label or not.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
Preference	Specify a preference for a routing protocol.		Unsigned integer. Value range: 1 to 255.	N/A
PreferredValue	Specify a preferred value for BGP routes.		Unsigned integer. Value range: 0 to 65535.	N/A
PrefixPriority	Specify a prefix priority.		Enumeration: • 1—critical. • 2—high. • 3—medium.	N/A
Tag	Specify a tag for IGP routes.		Unsigned integer. Value range: 0 to 4294967295.	N/A
IPv4NextHopPeerAddress	Apply IPv4 peer address as next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
IPv6NextHopPeerAddress	Apply IPv6 peer address as next hop		Enumeration: • 0—Not configured.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Configured.	
FlexAlgo	Specify the algorithm of route		Unsigned integer. Value range:128 to 255.	N/A
ApplyIpv4NextHop	Set the next hop of an IPv4 route.	Data structure	Members include: • NextHopAddr. • Public. • VrfName	N/A
NextHopAddr	Specify a next hop for IPv4 routes.		Hexadecimal string, colon-separated.	N/A
Public	Specify public network		Enumeration: • 0—Not configured. • 1—Configured.	N/A
VrfName	Specify the VPN instance name for the next hop of an IPv4 route		String. Length: 1 to 31 characters.	N/A
ApplyFastReroute	Set a backup link for IPv4 fast reroute.	Data structure	Members include: • InterfaceName. • IpAddress.	N/A
InterfaceName	Specify a backup output interface by itsname.		String. Length: 0 to 47 characters.	Example: • NULL0. • M-GigabitEthernet0/0/0
IpAddress	Specify a backup next hop.		IPv4: String, dotted decimal notation.	N/A
ApplyIPv6FastReroute	Set a backup link for IPv6 fast reroute.	Data structure	Members include: • Ipv6InterfaceName. • Ipv6Address.	N/A
*Ipv6*InterfaceName	Specify a backup output interface by itsname.		String. Length: 0 to 47 characters.	Example: • NULL0. • M-GigabitEthernet0/0/0
Ipv6Address	Specify a backup next hop.		Hexadecimal string, colon-separated.	N/A
ApplyOrigin	Set the ORIGIN attribute for BGP routes.	Data structure	Members include: • Origin • OriginAsNum	N/A
Origin	Specify an ORIGIN attribute.		Enumeration: • 1—egp. • 2—igp. • 3—incomplete.	N/A
OriginAsNum	Specify the AS number for EGP routes.		Unsigned integer. Value range: 1 to 4294967295.	The AsNumber can be set only when Origin is set to egp.

Column name	Column description	Column type	Data type and restrictions	Remarks
ApplyIpPrecedence	Set an IP precedence.	Data structure	Members include: • IpPrecValue • IpPrecClear	N/A
IpPrecValue	Specify an IP precedence.		Unsigned integer. Value range: 0 to 7.	You cannot set IpPrecValue and IpPrecClear at the same time.
IpPrecClear	Clear the IP precedence off matching routes.		Enumeration: • 0—Not configured. • 1—Configured..	You cannot set IpPrecValue and IpPrecClear at the same time.
ApplyQosLocId	Set a local QoS ID.	Data structure	Members include: • QosLocIdValue • QosLocIdClear	N/A
QosLocIdValue	Specify a local QoS ID.		Unsigned integer. Value range: 1 to 4095.	You cannot set QosLocIdValue and QosLocIdClear at the same time.
QosLocIdClear	Clear the local QoS ID of matching routes.		Enumeration: • 0—Not configured. • 1—Configured..	You cannot set QosLocIdValue and QosLocIdClear at the same time.
ApplyTrafIndex	Set a traffic index.	Data structure	Members include: • TrafIndexValue • TrafIndexClear	N/A
TrafIndexValue	Specify a traffic index.		Unsigned integer. Value range: 1 to 64.	You cannot set TrafIndexValue and TrafIndexClear at the same time.
TrafIndexClear	Clear the traffic index of BGP routes.		Enumeration: • 0—Not configured. • 1—Configured.	You cannot set TrafIndexValue and TrafIndexClear at the same time.
Continue	Set the next node to be matched.		Unsigned integer. Value range: 0 to 65535.	N/A
ApplyAigp	Apply AIGP attribute.	Data structure	Members include: • TrafIndexValue • TrafIndexClear	N/A
CostValue	AIGP attribute value of BGP routes.		Unsigned integer. Value range: 0 to 4294967295.	If IgpCost is set to 0, AIGP attribute value of BGP routes is CostValue. If not, AIGP attribute value of BGP routes is set to the IGP route cost.
IgpCost	Set AIGP attribute value of BGP routes to the IGP route		Enumeration: • 0—Not configured(default). • 1—Configured.	If IgpCost is set to 0, AIGP attribute value of BGP routes is CostValue. If not, AIGP

Column name	Column description	Column type	Data type and restrictions	Remarks
	cost.			attribute value of BGP routes is set to the IGP route cost.
ApplyLabelValue	Set the SID value		Unsigned integer. Value range: 16 to 1048575.	N/A
ApplyLabelIndex	Set the label index value.		Unsigned integer. Value range: 0 to 1048575.	N/A
ApplyIpv4GwNextHop	Set the next hop of an IPv4 route to the gateway IP address.	Data structure	Members include: • Type. • NextHopAddr.	N/A
Type	Specify the type of the next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
NextHopAddr	Specify the next hop address.		IPv4: String, dotted decimal notation.	An empty IPv4 address string indicates the gateway address.
ApplyIpv6GwNextHop	Set the next hop of an IPv6 route to the gateway IP address.	Data structure	Members include: • Type. • NextHopAddr.	N/A
Type	Specify the type of the next hop.		Enumeration: • 0—Not configured. • 1—Configured.	N/A
NextHopAddr	Specify the next hop address.		String, IPv6 address string.	An empty IPv6 address string indicates the gateway address.

RoutePolicy/ExtcommunityList

This table contains route policy extcommunity list information.

XML structure

```
<RoutePolicy>
  <ExtcommunityList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <SoO></SoO>
      <Bandwidth></Bandwidth>
      <PriorityColor></PriorityColor>
```

```
      <PriorityColorMode></PriorityColorMode>
      <PriorityColorRegExp></PriorityColorRegExp>
    </List>
  </ExtcommunityList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Rt	Route Target		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO and Bandwidth configuration.
SoO	Site of Origin		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with Rt and Bandwidth configuration.

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Link bandwidth		String. Length: 3 to 16 characters. Format: AS<0-65535>:NN<0-4294967295>.	Example: 6000:3. Repeat supported for 32 times along with Rt and SoO configuration.
PriorityColor	Priority color value		String. Length: 5 to 12 characters. The format is Priority<0-15>: SiteID <1-65535>:DeviceID<0-255>	Example: 1:150:1 A maximum of 32 entries can be specified.
PriorityColorMode	Priority color match type		Enumeration: • 0—MatchPriority. • 1—NotMatchPriority.	The PriorityColorMode must be configured with the PriorityColor together.
PriorityColorRegExp	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10

RoutePolicy/ExtcommunityListName

This table contains route policy extcommunity list information.

XML structure

```
<RoutePolicy>
  <ExtcommunityListName>
    <List>
      <ListName></ListName>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <SoO></SoO>
      <Bandwidth></Bandwidth>
    </List>
  </ExtcommunityListName>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityListName
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	String, case-sensitive. Length: 1 to 63 characters.	Ext-Community list name cannot be all made up of numbers.
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
Rt	Route Target		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO and Bandwidth configuration.
SoO	Site of Origin		String. Length: 3 to 24 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535> or IP<X.X.X.X/M>:NN<0-65535> or AS<X.Y>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with Rt and Bandwidth configuration.
Bandwidth	Link bandwidth		String. Length: 3 to 16 characters. Format: AS<0-65535>:NN<0-4294967295>.	Example: 6000:3. Repeat supported for 32 times along with Rt and SoO configuration.

RoutePolicy/CommunityList

This table contains route policy community list information.

XML structure

```
<RoutePolicy>
  <CommunityList>
    <List>
```

```
      <ListName></ListName>
      <Level></Level>
      <Index></Index>
      <Mode></Mode>
      <CommunityNumber></CommunityNumber>
      <CommunityAttr></CommunityAttr>
      <RegularExpression></RegularExpression>
    </List>
  </CommunityList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	CommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	Community list number: Unsigned integer. Value range: Basic:1 to 99. Advanced:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	Community list name cannot be all made up of numbers.
Level	List level.	Index	Enumeration: • **1**—Basic. • **2**—Advanced.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295.	Example: 10 or 1:65535 Repeat supported for 32 times along with

Column name	Column description	Column type	Data type and restrictions	Remarks
			String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	CommunityAttr. Only supported for basic community list.
CommunityAttr	Community attribute.		Enumeration: • **1**—Internet. • **2**—No-advertise. • **3**—no-export. • **4**—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber. Only supported for basic community list.
RegularExpression	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10 Only supported for advanced community list.

RoutePolicy/TagList

This table contains route policy tag list information.

XML structure

```
<RoutePolicy>
  <TagList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <TagValue></TagValue>
    </List>
  </TagList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TagList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of tag list		Enumeration: • **0**—permit. • **1**—deny.	N/A
TagValue	Tag value		Unsigned integer. Value range: 0 to 4294967295.	Repeat supported for 32 times.

RoutePolicy/RdList

This table contains route policy Rd list information.

XML structure

```
<RoutePolicy>
  <RdList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <RdValue></RdValue>
    </List>
  </RdList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	RdList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of RD list		Enumeration: • **0**—permit. • **1**—deny.	N/A
RdValue	Rd value		String. Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or IP<X.X.X.X>:* or AS<0-65535>:NN<0-4294967295> or AS<0-65535>:* or AS<65536-4294967295>:NN<0-65535> or AS<65536-4294967295>:*	Repeat supported for 10 times.

RoutePolicy/MacList

This table contains route policy MAC list information.

XML structure

```
<RoutePolicy>
  <MacList>
    <List>
      <MaclistName></MaclistName>
      <Index></Index>
      <Mode></Mode>
      <MacAddress></MacAddress>
      <MaskLength></MaskLength>
    </List>
  </MacList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	MacList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaclistName	Name of the MAC list.	Index	String. Length: 1 to 63 characters.	N/A
Index	MAC list item index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of MAC list.		Enumeration: • **0**—permit. • **1**—deny.	N/A
MacAddress	MAC address		Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
MaskLength	Mask length		Unsigned integer. Value range: 0 to 48.	N/A

RoutePolicy/TunnelSelector

This table contains tunnel selector information.

XML structure

```
<RoutePolicy>
  <TunnelSelector>
    <Entry>
      <TunnelSelectorName></TunnelSelectorName>
      <Index></Index>
      <Mode></Mode>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <IPv6AddressPrefixList></IPv6AddressPrefixList>
        <RdList></RdList>
        <Cost></Cost>
```

```
        <IPv4AddressAcl></IPv4AddressAcl>
        <IPv4NextHopAcl></IPv4NextHopAcl>
        <IPv4NextHopPrefixList></IPv4NextHopPrefixList>
        <IPv6AddressAcl></IPv6AddressAcl>
        <IPv6NextHopAcl></IPv6NextHopAcl>
        <IPv6NextHopPrefixList></IPv6NextHopPrefixList>
        <ExtcommunityList></ExtcommunityList>
      </Match>
      <MatchCommunityList>
        <List></List>
        <WholeMatch></WholeMatch>
      </MatchCommunityList>
      <ApplyTunnelPolicy></ApplyTunnelPolicy>
    </Entry>
  </TunnelSelector>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TunnelSelector
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSelectorName	Name of tunnel selector.	Index	String, case-sensitive. Length: 1 to 40 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Operation type of tunnel selector.		Enumeration: • 0—permit. • 1—deny.	To perform create or replace operation, Mode can’t be empty. To perform Merge operation to create a row, Mode can’t be empty. Delete or remove operation is not supported.
Match	If match	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	condition.	structure	• IPv4AddressPrefixList. • IPv6AddressPrefixList. • RdList • IPv4AddressAcl • IPv4NextHopAcl • IPv4NextHopPrefixList • IPv6AddressAcl • IPv6NextHopAcl • IPv6NextHopPrefixList • ExtcommunityList	
IPv4Address PrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
IPv6Address PrefixList	Match IPv6 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
RdList	Match VPN routes with the specified RD list.		Unsigned integer. Value range: 1 to 65535.	N/A
Cost	Match routes with the specified cost.		Unsigned integer. Value range: 0 to 4294967295.	
IPv4Address Acl	Match the desination address of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv4NextHop Acl	Match the next hop of IPv4 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv4NextHop PrefixList	Match the next hop of IPv4 routes using a prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
IPv6Address Acl	Match the desination address of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 3999.	
IPv6NextHop Acl	Match the next hop of IPv6 routes using an ACL.		Unsigned integer. Value range: 2000 to 2999.	
IPv6NextHop PrefixList	Match the next hop of IPv6 routes using an IPv6 prefix list.		String, case-sensitive. Length: 1 to 63 characters.	
Extcommunit yList	Match BGP routes whose		List number: Unsigned integer.	Repeat supported for 32 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
	extended community attribute matches a specified extended community list		Value range: 1 to 65535. List name: String, case-sensitive. Length: 1 to 63 characters.	The value range is related to the model of the equipment. Please refer to the actual condition of the equipment.
MatchCommunityList	If match communitylist condition.	Data structure	Members include: • List. • WholeMatch	
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	A community list name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: • 0—Disable. 1—Enable.	
ApplyTunnelPolicy	Tunnel policy name.		String, case-sensitive. Length: 1 to 126 characters.	

RoutePolicy/Global

This table contains route policy config information.

XML structure

```
<RoutePolicy>
  <Global>
    <PrefixProtocolCheck></PrefixProtocolCheck>
  </Global>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Global
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixProtocolCheck	Check the protocol consistency between a BGP route and the prefix list.		Enumeration: • 0—Not configured. • 1—Configured.	

Contents

RoutePolicy 2
RoutePolicy/IPv4Prefix 2
RoutePolicy/Aspath 2
RoutePolicy/Policy 2
RoutePolicy/ExtcommunityList 4
RoutePolicy/ExtcommunityListName 5
RoutePolicy/CommunityList 5
RoutePolicy/TagList 6
RoutePolicy/RdList 6
RoutePolicy/MacList 6
RoutePolicy/TunnelSelector 6

RoutePolicy

RoutePolicy/IPv4Prefix

Message	Explanation
Invalid MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最小前缀长度的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid MaxPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最大前缀长度的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid combination of mask length, MaxPrefixLength value and MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 前缀长度、最小前缀长度和最大前缀长度之间的大小关系非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid MaxPrefixLength value or MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最小前缀长度或最大前缀长度之间的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/Aspath

Message	Explanation
Configuration already exists. 已有相同配置，此配置不能下刷。	Same configuration already exists when you create a new configuration.

RoutePolicy/Policy

Message	Explanation
ExtCommunityRtValue and ExtCommunityRtType must be configured together. 扩展团体属性值和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid or unusable interfaces. 无效的或不可下刷的接口索引。	Invalid configuration, please modify configuration under the guidance.

Configuration number has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.
Vpnpeer is not customized on this device. 设备没有定制vpnpeer特性。	Configuration is not supported.
Same value of List is not supported in current repeat-group. 当前可重复组中不支持配置相同的团体属性。	Invalid configuration, please modify configuration under the guidance.
The CostValue and CostMode column must be configured at the same time. 必须同时配置路由开销值和模式。	Invalid configuration, please modify configuration under the guidance.
The ASPath and ASPathType column must be configured together. AS路径访问列表和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Configuration failed. Multilevel references are not supported. 最多只能嵌套一层。	Invalid configuration, please modify configuration under the guidance.
The color and RT attributes cannot coexist. 扩展团体的Color属性不能与RT共存。	The color and RT attributes cannot coexist.
Can't configure the CommunityNumber or CommunityAttr column when the CommunityType column is None. 指定CommunityType为None时不允许携带CommunityNumber和CommunityAttr。	Invalid configuration, please modify configuration under the guidance.
You must configure the CommunityNumber or CommunityAttr column when the CommunityType column is Replace. 指定CommunityType为Replace时必须携带CommunityNumber或CommunityAttr。	Invalid configuration, please modify configuration under the guidance.
The next node number must be greater than current node number. 下一个执行节点序列号必须大于当前节点序列号。	Invalid configuration, please modify configuration under the guidance.
Invalid IPv4 address. 非法的IPv4地址。	Invalid configuration, please modify configuration under the guidance.
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance.
Need to specify the type of the next hop. 需要指定下一跳类型。	Invalid configuration, please modify configuration under the guidance.
This type can’t specify the IP address. 此类型不允许配置地址值。	Invalid configuration, please modify configuration under the guidance.
Need to specify the IP address of the next hop. 需要指定下一跳的地址。	Invalid configuration, please modify configuration under the guidance.
One protocol cannot be configured duplicately in one command.	One protocol cannot be configured duplicately in one command.

同一协议不能在一条命令中重复配置。	
The ASPath column can’t be configured when the ASPathType column is Clear. 当AS路径访问列表类型为Clear时，不能配置AS路径访问列表。	Invalid configuration, please modify configuration under the guidance.
Can't configure the NextHopAddr or NextHopPeerAddress at the same time. 不能同时配置NextHopAddr和NextHopPeerAddress。	Invalid configuration, please modify configuration under the guidance.
Can't configure the Public or VrfName at the same time. 不能同时配置Public和VrfName。	Invalid configuration, please modify configuration under the guidance.
The extended community attribute of PriorityColor can’t be configured with other extended community attributes together. 扩展团体属性PriorityColor不能和其他扩展团体属性一起配置。	Invalid configuration, please modify configuration under the guidance.
Invalid parameter. 参数不合法。	Invalid configuration, please modify configuration under the guidance.
The ExtCommunityColorValue and ExtCommunityColorType colum must be configured together. 扩展团体的Color属性值和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.
The ExtCommunityBandWidthValue and ExtCommunityBandWidthType colum must be configured together. 扩展团体的链路带宽属性值和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.
The ExtCommunitySooValue and ExtCommunitySooType colum must be configured together. 扩展团体的SoO属性值和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/ExtcommunityList

Message	Explanation
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.
The configuration not supported on the specified target. 指定配置对象不支持对应配置。	The specified target does not support row creation and deletion.
The number of entries has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.
The PriorityColorMode column must be configured with the PriorityColor column together. PriorityColorMode字段一定要和PriorityColor字段一起配置。	Invalid configuration, please modify configuration under the guidance.

The PriorityColor or PriorityColorMode column can't be configured with the PriorityColorRegExp column together. PriorityColor和PriorityMode字段不能和PriorityColorRegExp字段一起配置。	Invalid configuration, please modify configuration under the guidance.
The PriorityColor or PriorityColorRegExp column can't be configured with Rt and SoO column together. PriorityColor和PriorityColorRegExp字段不能和Rt、SoO字段一起配置	Invalid configuration, please modify configuration under the guidance.
Wrong regular expression. 正则表达式不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid parameter. 参数不合法。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/ExtcommunityListName

Message	Explanation
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.
The configuration not supported on the specified target. 指定配置对象不支持对应配置。	The specified target does not support row creation and deletion.

RoutePolicy/CommunityList

Message	Explanation
Configuration number has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.
Configuration is not supported in current community-list level. 当前团体属性列表级别下不支持此配置。	Invalid configuration, check community-list level.
Invalid index of community-list. 团体属性列表索引列配置错误。	Invalid configuration, please modify configuration under the guidance.
Wrong format in current operation mode. 带非索引列删除时，必须同时下刷匹配模式及对应配置。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/TagList

Message	Explanation
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.

RoutePolicy/RdList

Message	Explanation
Configuration already exists. 已有相同配置，此配置不能下刷。	The new configuration conflicts with existing configuration.

RoutePolicy/MacList

Message	Explanation
Operation failed. The configuration already exists. 已有相同配置，此配置不能下刷。	Operation failed. The configuration already exists.

RoutePolicy/TunnelSelector

Message	Explanation
Configuration number has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.

Contents

ietf-routing 1
ietf-routing/routing 1
XML structure 1
Table description 1
Columns 1
ietf-routing/routing/control-plane-protocols 2
XML structure 2
Table description 2
Columns 2
Example 2

ietf-routing

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-routing".

The Example on the end of the module sets an instance that the module can't be under top node.

ietf-routing/routing

This table contains routing information.

XML structure

```
<routing>
  <control-plane-protocols>
    <control-plane-protocol>
      <type></type>
      <name></name>
      <mode></mode>
    </control-plane-protocol>
  </control-plane-protocols>
</routing>
```

Table description

Item	Description
Feature name	ietf-routing
Table name	routing
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
control-plane-protocols	Information of the control-plane-protocols	Sublist	The details of the sublist refer to control-plane-protocols table.	N/A

ietf-routing/routing/control-plane-protocols

This table contains control-plane-protocol information.

XML structure

Please refer to the XML Structure of ietf-routing/touting.

Table description

Item	Description
Feature name	ietf-routing
Table name	control-plane-protocols
Table type	Multi-instance table
Row name	control-plane-protocol
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
type	Routing protocol type	Index	String: case-sensitive • ospfv3.	N/A
name	Instance name	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
mode	Mode of the OSPFv3 process.	N/A	Enumeration: • **0**—Normal process (default). • **1**—Lite process.	After a process is created, its mode cannot be modified. The column is only supported in non-defalut vSystem.

Example

配置一个 vpn 为 a 的 ospfv3 实例，并在该实例下创建一个 area

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
        <v:network-instances
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-network-instance">
          <v:network-instance xc:operation="merge">
            <v:name>a</v:name>
            <v:vrf-root>
              <v:routing>
                <v:control-plane-protocols>
                  <v:control-plane-protocol>
                    <v:type>ospfv3</v:type>
                    <v:name>12</v:name>
                    <v:mode>0</v:mode>
                    <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
                      <b:instance>
                        <b:af>ipv6</b:af>
                        <b:areas>
                          <b:area>
                            <b:area-id>255.255.255.255</b:area-id>
                          </b:area>
                        </b:areas>
                      </b:instance>
                    </b:ospfv3>
                  </v:control-plane-protocol>
                </v:control-plane-protocols>
              </v:routing>
            </v:vrf-root>
          </v:network-instance>
        </v:network-instances>
     </config>
   </edit-config>
</rpc>
```

Contents

ietf-routing 1
ietf-routing/routing 1
XML structure 1
Table description 1
Columns 1
ietf-routing/routing/control-plane-protocols 2
XML structure 2
Table description 2
Columns 2
Example 2

ietf-routing

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-routing".

The Example on the end of the module sets an instance that the module can't be under top node.

ietf-routing/routing

This table contains routing information.

XML structure

```
<routing>
  <control-plane-protocols>
    <control-plane-protocol>
      <type></type>
      <name></name>
      <mode></mode>
    </control-plane-protocol>
  </control-plane-protocols>
</routing>
```

Table description

Item	Description
Feature name	ietf-routing
Table name	routing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
control-plane-protocols	Information of the control-plane-protocols	Sublist	The details of the sublist refer to control-plane-protocols table.	N/A

ietf-routing/routing/control-plane-protocols

This table contains control-plane-protocol information.

XML structure

Please refer to the XML Structure of ietf-routing/routing.

Table description

Item	Description
Feature name	ietf-routing
Table name	control-plane-protocols
Table type	Multi-instance table
Row name	control-plane-protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
type	Routing protocol type	Index	String: case-sensitive • ospfv3.	N/A
name	Instance name	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
mode	Mode of the OSPFv3 process.	N/A	Enumeration: • **0**—Normal process. • **1**—Lite process.	After a process is created, its mode cannot be modified. The column is only supported in non-defalut vSystem.

Example

配置一个 vpn 为 a 的 ospfv3 实例，并在该实例下创建一个 area

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:network-instances
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-network-instance">
```

```
          <v:network-instance xc:operation="merge">
            <v:name>a</v:name>
            <v:vrf-root>
              <v:routing>
                <v:control-plane-protocols>
                  <v:control-plane-protocol>
                    <v:type>ospfv3</v:type>
                    <v:name>12</v:name>
                    <v:mode>0</v:mode>
                    <b:ospfv3 xmlns:b="urn:ietf:params:xml:ns:yang:ietf-ospfv3">
                      <b:instance>
                        <b:af>ipv6</b:af>
                        <b:areas>
                          <b:area>
                            <b:area-id>255.255.255.255</b:area-id>
                          </b:area>
                        </b:areas>
                      </b:instance>
                    </b:ospfv3>
                  </v:control-plane-protocol>
                </v:control-plane-protocols>
              </v:routing>
            </v:vrf-root>
          </v:network-instance>
        </v:network-instances>
      </config>
    </edit-config>
  </rpc>
```

Contents

RRM 1
RRM/ChlProntoAll 1
XML structure 1
Table description 1
Columns 1
RRM/PwrProntoAll 1
XML structure 1
Table description 2
Columns 2
RRM/ApChlPronto 2
XML structure 2
Table description 2
Columns 3
RRM/ApGroupChlPronto 3
XML structure 3
Table description 3
Columns 4
RRM/ApBaselineSave 4
XML structure 4
Table description 4
Columns 4
RRM/ApGroupBaselineSave 5
XML structure 5
Table description 5
Columns 5
RRM/GlobalBaselineSave 6
XML structure 6
Table description 6
Columns 6
RRM/BaselineRemove 6
XML structure 7
Table description 7
Columns 7
RRM/BaselineApply 7
XML structure 7
Table description 8
Columns 8

RRM

RRM/ChlProntoAll

This table contains the operation to make all the radios trigger channel change at next calibration cycle.

XML structure

```
<RRM>
  <ChlProntoAll>
    <Pronto></Pronto>
  </ChlProntoAll>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlProntoAll
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Pronto	Trigger change channel at next calibration cycle	N/A	This column must be empty.	Required.

RRM/PwrProntoAll

This table contains the operation to make all the radios trigger power change at next calibration cycle.

XML structure

```
<RRM>
  <PwrProntoAll>
    <Pronto></Pronto>
  </PwrProntoAll>
```

```
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrProntoAll
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Pronto	Trigger power change at next calibration cycle	N/A	This column must be empty.	Required.

RRM/ApChlPronto

This table contains radio channel adjustment information.

XML structure

```
<RRM>
  <ChlPronto>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Pronto></Pronto>
    </Radio>
  </ChlPronto>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlPronto
Table type	Multi-instance table
Row name	Radio

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Pronto	Channel adjustment triggering	N/A	This column must be empty.	Required.

RRM/ApGroupChlPronto

This table contains AP group channel adjustment information.

XML structure

```
<RRM>
  <ApGroupChlPronto>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <Pronto></Pronto>
    </Radio>
  </ApGroupChlPronto>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlPronto
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Pronto	Channel adjustment triggering	N/A	This column must be empty.	Required.

RRM/ApBaselineSave

This table contains radio baseline saving information.

XML structure

```
<RRM>
  <BaselineSave>
    <BaselineName></BaselineName>
    <ApName></ApName>
    <RadioID></RadioID>
    <Save></Save>
  </BaselineSave>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/ApGroupBaselineSave

This table contains AP group baseline saving information.

XML structure

```
<RRM>
  <ApGroupBaselineSave>
    <BaselineName></BaselineName>
    <ApGroupName></ApGroupName>
    <ApModel></ApModel>
    <RadioID></RadioID>
    <Save></Save>
  </ApGroupBaselineSave>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupBaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/GlobalBaselineSave

This table contains global baseline saving information.

XML structure

```
<RRM>
  <GlobalBaselineSave>
    <BaselineName></BaselineName>
    <Save></Save>
  </GlobalBaselineSave>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	GlobalBaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/BaselineRemove

This table contains baseline deleting information.

XML structure

```
<RRM>
  <BaselineRemove>
    <BaselineName></BaselineName>
    <Remove></Remove>
  </BaselineRemove>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineRemove
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Remove	Remove baseline	N/A	This column must be empty.	Required.

RRM/BaselineApply

This table contains baseline application information.

XML structure

```
<RRM>
  <BaselineApply>
    <BaselineName></BaselineName>
    <Apply></Apply>
  </BaselineApply>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineApply
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Apply	Apply baseline	N/A	This column must be empty.	Required.

Comware V7 RRM NETCONF XML API Configuration Reference

Copyright © 2013 Hangzhou H3C Technologies Co., Ltd. All rights reserved.
No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Hangzhou H3C Technologies Co., Ltd.
The information in this document is subject to change without notice.

Contents

RRM 1
RRM/ClbInterval 1
XML structure 1
Table description 1
Columns 1
RRM/PwrClbInterval 1
XML structure 2
Table description 2
Columns 2
RRM/ApPowerCfg 2
XML structure 2
Table description 3
Columns 3
RRM/ApGroupPowerCfg 3
XML structure 4
Table description 4
Columns 4
RRM/ApChannelCfg 5
XML structure 5
Table description 5
Columns 6
RRM/ApGroupChannelCfg 6
XML structure 6
Table description 7
Columns 7
RRM/ApWsaCfg 8
XML structure 8
Table description 8
Columns 9
RRM/ApGroupWsaCfg 9
XML structure 9
Table description 9
Columns 10
RRM/ClbGroupCfg 10
XML structure 10
Table description 10
Columns 11
RRM/ClbGroupMemberCfg 11
XML structure 11
Table description 11
Columns 12
RRM/ClbGroupCreate 12
XML structure 12
Table description 12
Columns 12
RRM/ClbGroupDelete 13
XML structure 13
Table description 13

Columns 13
RRM/ClbGroupMerge 13
XML structure 13
Table description 14
Columns 14
RRM/ApPwrClbModeCfg 14
XML structure 15
Table description 15
Columns 15
RRM/ApGroupPwrClbModeCfg 15
XML structure 16
Table description 16
Columns 16
RRM/ApChlClbModeCfg 17
XML structure 17
Table description 17
Columns 17
RRM/ApGroupChlClbModeCfg 17
XML structure 18
Table description 18
Columns 18
RRM/ApTimeRangeNameCfg 18
XML structure 19
Table description 19
Columns 19
RRM/ApGroupTimeRangeNameCfg 19
XML structure 19
Table description 20
Columns 20
RRM/ApScanOnlyCfg 20
XML structure 20
Table description 21
Columns 21
RRM/ApGroupScanOnlyCfg 21
XML structure 21
Table description 22
Columns 22
RRM/HierarchyClbMode 22
XML structure 22
Table description 23
Columns 23
RRM/ApChlClbSntCfg 23
XML structure 23
Table description 23
Columns 24
RRM/ApGroupChlClbSntCfg 24
XML structure 24
Table description 24
Columns 25
RRM/ApRadioSelectionCfg 25
XML structure 25
Table description 25
Columns 26
RRM/ApGroupRadioSelectionCfg 26

XML structure 26
Table description 26
Columns 27
RRM/ApSuppressionStatusCfg 27
XML structure 27
Table description 27
Columns 28
RRM/ApGroupSuppressionStatusCfg 28
XML structure 28
Table description 28
Columns 29
RRM/GlobalCfg 29
XML structure 29
Table description 30
Columns 30

RRM

RRM/ClbInterval

This table contains channel and bandwidth calibration interval information.

XML structure

```
<RRM>
  <ClbInterval>
    <Interval></Interval>
    <BandwidthInterval></BandwidthInterval>
  </ClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Channel calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 23.
BandwidthInterval	Bandwidth calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 13.

RRM/PwrClbInterval

This table contains power calibration interval information.

XML structure

```
<RRM>
  <PwrClbInterval>
    <Interval></Interval>
  </PwrClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Power calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 180. Default: 11.

RRM/ApPowerCfg

This table contains the operation to set Ap radio's adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <PowerCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
```

```
  </PowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16.	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20.	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 50 to 90.	Optional
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: • **0**—Disable auto power selection. • **1**—Enable auto power selection. • **2**—Inherit auto power selection.	Optional

RRM/ApGroupPowerCfg

This table contains the operation to set ApGroup radios' adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <ApGroupPowerCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </ApGroupPowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
ApModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16.	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20.	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 1 to 196.	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: • **0**—Disable auto power selection(default). • **1**—Enable auto power selection. • **2**—Inherit auto power selection.	Optional

RRM/ApChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically, and a switch to enable one radio calibrate bandwidth automatically.

XML structure

```
<RRM>
  <ChannelCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
      <BandwidthClbMode></BandwidthClbMode>
    </Radio>
  </ChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 0 to 100.	Optional
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: • **0**—Disable auto channel selection. • **1**—Enable auto channel selection. • **2**—Inherit auto channel selection.	Optional
BandwidthClbMode	Enable/Disable auto bandwidth selection of radio	N/A	Enumeration: • **0**—Disable auto bandwidth selection. • **1**—Enable auto bandwidth selection. • 2—Inherit auto bandwidth selection.	Optional

RRM/ApGroupChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one ApGroup radios' current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically, and a switch to enable one radio calibrate bandwidth automatically.

XML structure

```
<RRM>
  <ApGroupChannelCfg>
    <Radio>
```

```
      <ApGroupName></ApGroupName>
       <ApModel></ApModel>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
      <BandwidthClbMode></BandwidthClbMode>
    </Radio>
  </ApGroupChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
ApModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 0 to 100.	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: • **0**—Disable auto channel selection(default). • **1**—Enable auto channel selection. • **2**—Inherit auto channel selection.	Optional
BandwidthClbMode	Enable/Disable auto bandwidth selection of radio	N/A	Enumeration: • **0**—Disable auto bandwidth selection(default). • **1**—Enable auto bandwidth selection. • 2—Inherit auto bandwidth selection.	Optional

RRM/ApWsaCfg

This table contains the operation to set a switch to enable radio responds to the event reported by WLAN Spectrum Analysis.

XML structure

```
<RRM>
  <ApWsaCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApWsaCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: • **0**—Disable WSA collaboration . • **1**—Enable WSA collaboration.	Optional

RRM/ApGroupWsaCfg

This table contains information about a switch to enable one ApGroup radio collaborates with WSA automatically.

XML structure

```
<RRM>
  <ApGroupWsaCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
       <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApGroupWsaCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration o f radio	N/A	Enumeration: • **0**—Disable WSA collaboration (default). • **1**—Enable WSA collaboration.	Optional

RRM/ClbGroupCfg

This table contains calibration group

XML structure

```
<RRM>
  <ClbGroupCfg>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCfg
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Not support creation/merge/deletion/remove

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ClbGroupMemberCfg

This table contains calibration group member

XML structure

```
<RRM>
  <ClbGroupMemberCfg>
    <ClbGroupMember>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbGroupId></ClbGroupId>
    </ClbGroupMember>
  </ClbGroupMemberCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMemberCfg
Table type	Multi-instance table
Row name	ClbGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Ap name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioID	Radioid	Index	Unsigned short. Value range: 1 to 4.	N/A
ClbGroupId	Calibration group id	N/A	Unsigned integer.	N/A

RRM/ClbGroupCreate

This table contains the operation to create a calibration group.

XML structure

```
<RRM>
  <ClbGroupCreate>
    <ClbGroupId></ClbGroupId>
  </ClbGroupCreate>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCreate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Just support for creation

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	NA

RRM/ClbGroupDelete

This table contains the operation to delete a calibration group.

XML structure

```
<RRM>
  <ClbGroupDelete>
    <ClbGroup>
      <ClbGroupIdIndex></ClbGroupIdIndex>
      <ClbGroupIdColumn></ClbGroupIdColumn>
    </ClbGroup>
  </ClbGroupDelete>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupDelete
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for deletion/removing

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupIdIndex	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupIdColumn	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	N/A

RRM/ClbGroupMerge

This table contains the operation to merge a calibration group.

XML structure

```
<RRM>
  <ClbGroupMerge>
    <ClbGroup>
```

```
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupMerge>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMerge
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for merging

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ApPwrClbModeCfg

This table contains radio power calibration mode information.

XML structure

```
<RRM>
  <PwrClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </PwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Custom calibration mode. • **1**—Coverage calibration mode. • **2**—Density calibration mode.	Optional

RRM/ApGroupPwrClbModeCfg

This table contains AP group power calibration mode information.

XML structure

```
<RRM>
  <ApGroupPwrClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupPwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Custom calibration mode (default). • **1**—Coverage calibration mode. • **2**—Density calibration mode.	Optional

RRM/ApChlClbModeCfg

This table contains radio channel calibration mode information.

XML structure

```
<RRM>
  <ChlClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Period calibration mode. • **1**—Scheduled calibration mode.	Optional

RRM/ApGroupChlClbModeCfg

This table contains AP group channel calibration mode information.

XML structure

```
<RRM>
  <ApGroupChlClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Periodic calibration mode (default). • **1**—Scheduled calibration mode.	Optional

RRM/ApTimeRangeNameCfg

This table contains radio time range information.

XML structure

```
<RRM>
  <TimeRangeNameCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </TimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	TimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApGroupTimeRangeNameCfg

This table contains AP group time range information.

XML structure

```
<RRM>
  <ApGroupTimeRangeNameCfg>
    <Radio>
```

```
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </ApGroupTimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupTimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApScanOnlyCfg

This table contains radio channel scanning information.

XML structure

```
<RRM>
  <ScanOnlyCfg>
```

```
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: • **0**—Disable scan only • **1**—Enable scan only	Optional

RRM/ApGroupScanOnlyCfg

This table contains AP group channel scanning information.

XML structure

```
<RRM>
  <ApGroupScanOnlyCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
```

```
  </ApGroupScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: • **0**—Disable scan only (default). • **1**—Enable scan only.	Optional

RRM/HierarchyClbMode

This table contains hierarchy calibration mode information.

XML structure

```
<RRM>
  <HierarchyClbMode>
    <Mode>
    </Mode>
  </HierarchyClbMode>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	HierarchyClbMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Hierarchy-calibration mode	N/A	Enumeration: • **0**—Local(default). • **1**—Central.	N/A

RRM/ApChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of an AP.

XML structure

```
<RRM>
  <ChlClbSntCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbSntCfg
Table type	Multi-instance table
Row name	Radio

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • 0—Custom(default). • 1—Low. • 2—Medium. • 3—High.	Optional

RRM/ApGroupChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupChlClbSntCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ApGroupChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbSntCfg
Table type	Multi-instance table
Row name	Radio

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • **0**—Custom(default). • **1**—Low. • **2**—Medium. • **3**—High.	Optional

RRM/ApRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of an AP.

XML structure

```
<RRM>
  <RadioSelectionCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </RadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioSelectionCfg
Table type	Multi-instance table

Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • **0**—All channels(default). • **1**—Overlapping channels.	Optional

RRM/ApGroupRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupRadioSelectionCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </ApGroupRadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupRadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • **0**—All channels(default). • **1**—Overlapping channels.	Optional

RRM/ApSuppressionStatusCfg

This table contains Channel calibration suppression configuration information for radios of an AP.

XML structure

```
<RRM>
  <SuppressionStatusCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </SuppressionStatusCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	SuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • **0**—Disable(default). • **1**—Enable.	Optional
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124	Optional

RRM/ApGroupSuppressionStatusCfg

This table contains Channel calibration suppression configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupSuppressionStatusCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </ApGroupSuppressionStatusCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupSuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • **0**—Disable(default). • **1**—Enable.	Optional
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	Optional

RRM/GlobalCfg

This table contains global configuration information.

XML structure

```
<RRM>
  <GlobalCfg>
    <Band2GCrcErrThreshold></Band2GCrcErrThreshold>
    <Band5GCrcErrThreshold></Band5GCrcErrThreshold>
    <Band2GToleranceLevel></Band2GToleranceLevel>
    <Band5GToleranceLevel></Band5GToleranceLevel>
    <ChlClbMode></ChlClbMode>
    <Band2GAdjacencyFactor></Band2GAdjacencyFactor>
    <Band5GAdjacencyFactor></Band5GAdjacencyFactor>
    <Band2GPwrMin></Band2GPwrMin>
    <Band5GPwrMin></Band5GPwrMin>
    <Band2GPwrThreshold></Band2GPwrThreshold>
    <Band5GPwrThreshold></Band5GPwrThreshold>
    <PwrClbMode></PwrClbMode>
    <BandwidthClbMode></BandwidthClbMode>
  </GlobalCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Band2GCrcErrThreshold	CRC-error threshold of 2.4GHz radios	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A
Band5GCrcErrThreshold	CRC-error threshold of 5GHz radios	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A
Band2GToleranceLevel	Tolerance level of 2.4GHz radios, which is used to determine if the current channel needs to be changed	N/A	Unsigned integer. Value range: 0 to 100. Default value: 1.	N/A
Band5GToleranceLevel	Tolerance level of 5GHz radios, which is used to determine if the current channel needs to be changed	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChlClbMode	Auto channel selection status.	N/A	Enumeration: • **0**—Disable auto channel selection (default) for both 2.4GHz and 5GHz radios. • **1**—Enable auto channel selection for 2.4GHz radios. • **2**—Enable auto channel selection for 5GHz radios. • **3**—Enable auto channel selection for both 2.4GHz and 5GHz radios.	N/A
Band2GAdjacencyFactor	Adjacency factor of 2.4GHz radios	N/A	Unsigned integer. Value range: 1 to 16. Default value: 1.	N/A
Band5GAdjacencyFactor	Adjacency factor of 5GHz radios	N/A	Unsigned integer. Value range: 1 to 16. Default value: 1.	N/A
Band2GPwrMin	Minimum transmit power of 2.4GHz radios	N/A	Unsigned integer. Value range: 1 to 20. Default value: 6.	N/A
Band5GPwrMin	Minimum transmit power of 5GHz radios	N/A	Unsigned integer. Value range: 1 to 20. Default value: 11.	N/A
Band2GPwrThreshold	Power threshold for 2.4GHz radio power calibration	N/A	Unsigned integer. Value range: 1 to 196. Default value: 75.	N/A
Band5GPwrThreshold	Power threshold for 5GHz radio power calibration	N/A	Unsigned integer. Value range: 1 to 196. Default value: 75.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PwrClbMode	Auto power selection status	N/A	Enumeration: • **0**—Disable auto power selection (default) for both 2.4GHz and 5GHz radios. • **1**—Enable auto power selection for 2.4GHz radios. • **2**—Enable auto power selection for 5GHz radios. • **3**—Enable auto power selection for both 2.4GHz and 5GHz radios	Optional
BandwidthClbMode	Auto bandwidth selection status	N/A	Enumeration: • 0—Disable auto bandwidth selection (default) for 5GHz radios. • 1—Enable auto bandwidth selection for 5GHz radios.	Optional

Comware V7 RRM NETCONF XML API Data Reference

Copyright © 2013 Hangzhou H3C Technologies Co., Ltd. All rights reserved.
No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Hangzhou H3C Technologies Co., Ltd.
The information in this document is subject to change without notice.

Contents

RRM 1
RRM/ClbInterval 1
XML structure 1
Table description 1
Columns 1
RRM/PwrClbInterval 1
XML structure 2
Table description 2
Columns 2
RRM/ApPowerCfg 2
XML structure 2
Table description 3
Columns 3
RRM/ApGroupPowerCfg 3
XML structure 4
Table description 4
Columns 4
RRM/ApChannelCfg 5
XML structure 5
Table description 5
Columns 6
RRM/ApGroupChannelCfg 6
XML structure 6
Table description 7
Columns 7
RRM/ApWsaCfg 8
XML structure 8
Table description 8
Columns 9
RRM/ApGroupWsaCfg 9
XML structure 9
Table description 9
Columns 10
RRM/History 10
XML structure 10
Table description 11
Columns 11
RRM/ClbGroupCfg 13
XML structure 13
Table description 14
Columns 14
RRM/ClbGroupMemberCfg 14
XML structure 14
Table description 15
Columns 15
RRM/ConfigureSpec 15
XML structure 15
Table description 16

Columns 17
RRM/ClbGroupCreate 20
XML structure 20
Table description 20
Columns 20
RRM/ClbGroupDelete 21
XML structure 21
Table description 21
Columns 21
RRM/ClbGroupMerge 21
XML structure 21
Table description 22
Columns 22
RRM/ApPwrClbModeCfg 22
XML structure 23
Table description 23
Columns 23
RRM/ApGroupPwrClbModeCfg 23
XML structure 23
Table description 24
Columns 24
RRM/ApChlClbModeCfg 24
XML structure 25
Table description 25
Columns 25
RRM/ApGroupChlClbModeCfg 25
XML structure 25
Table description 26
Columns 26
RRM/ApTimeRangeNameCfg 26
XML structure 26
Table description 27
Columns 27
RRM/ApGroupTimeRangeNameCfg 27
XML structure 27
Table description 28
Columns 28
RRM/ApScanOnlyCfg 28
XML structure 28
Table description 29
Columns 29
RRM/ApGroupScanOnlyCfg 29
XML structure 29
Table description 30
Columns 30
RRM/BaselineInfoHead 30
XML structure 30
Table description 31
Columns 31
RRM/BaselineInfoBody 31
XML structure 31
Table description 32
Columns 32
RRM/BaselineApplyResult 32

XML structure 33
Table description 33
Columns 34
RRM/ApRunningData 35
XML structure 35
Table description 36
Columns 36
RRM/EnvQuality 38
XML structure 38
Table description 38
Columns 39
RRM/RadioDetail 39
XML structure 39
Table description 39
Columns 39
RRM/LastHistoryRecord 40
XML structure 40
Table description 41
Columns 41
RRM/HierarchyClbMode 43
XML structure 43
Table description 43
Columns 43
RRM/ApChlClbSntCfg 43
XML structure 43
Table description 44
Columns 44
RRM/ApGroupChlClbSntCfg 44
XML structure 44
Table description 45
Columns 45
RRM/ApRadioSelectionCfg 45
XML structure 45
Table description 46
Columns 46
RRM/ApGroupRadioSelectionCfg 46
XML structure 46
Table description 47
Columns 47
RRM/ApSuppressionStatusCfg 47
XML structure 47
Table description 48
Columns 48
RRM/ApGroupSuppressionStatusCfg 48
XML structure 48
Table description 49
Columns 49
RRM/GlobalCfg 49
XML structure 49
Table description 50
Columns 50

RRM

RRM/ClbInterval

This table contains channel and bandwidth calibration interval information.

XML structure

```
<RRM>
  <ClbInterval>
    <Interval></Interval>
    <BandwidthInterval></BandwidthInterval>
  </ClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Channel calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 23.
Bandwidth Interval	Bandwidth calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 13.

RRM/PwrClbInterval

This table contains power calibration interval information.

XML structure

```
<RRM>
  <PwrClbInterval>
    <Interval></Interval>
  </PwrClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Power calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 180. Default: 11.

RRM/ApPowerCfg

This table contains information about adjacency factor and the least transmit power and threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <PowerCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
```

```
  </PowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Adjacency Factor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16.	N/A
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20.	N/A
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 1 to 196.	N/A
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: • **0**—Disable auto power selection. • **1**—Enable auto power selection. • **2**—Inherit auto power selection.	N/A

RRM/ApGroupPowerCfg

This table contains the operation to set ApGroup radio's adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <ApGroupPowerCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </ApGroupPowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 1 to 196	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: • **0**—Disable auto power selection(default). • **1**—Enable auto power selection. • **2**—Inherit auto power selection.	Optional

RRM/ApChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically, and a switch to enable one radio calibrate bandwidth automatically.

XML structure

```
<RRM>
  <ChannelCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
      <BandwidthClbMode></BandwidthClbMode>
    </Radio>
  </ChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	N/A
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Tolerance Level	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 0 to 100.	N/A
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: • **0**—Disable auto channel selection. • **1**—Enable auto channel selection. • **2**—Inherit auto channel selection.	N/A
BandwidthClbMode	Enable/Disable auto bandwidth selection of radio	N/A	Enumeration: • **0**—Disable auto bandwidth selection. • **1**—Enable auto bandwidth selection. • 2—Inherit auto bandwidth selection.	Optional

RRM/ApGroupChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one APGroup radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically, and a switch to enable one radio calibrate bandwidth automatically.

XML structure

```
<RRM>
```

```
  <ApGroupChannelCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
      <BandwidthClbMode></BandwidthClbMode>
    </Radio>
  </APGroupChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 0 to 100	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 0 to 100.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio	N/A	Unsigned integer. Value range: 0 to 100	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
	switch current channel			
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: • **0**—Disable auto channel selection(default). • **1**—Enable auto channel selection. • **2**—Inherit auto channel selection.	Optional
BandwidthClbMode	Enable/Disable auto bandwidth selection of radio	N/A	Enumeration: • **0**—Disable auto bandwidth selection(default). • **1**—Enable auto bandwidth selection. • 2—Inherit auto bandwidth selection.	Optional

RRM/ApWsaCfg

This table contains the operation to set a switch to enable radio responds to the event reported by WLAN Spectrum Analysis.

XML structure

```
<RRM>
  <ApWsaCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApWsaCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: • **0**—Disable WSA collaboration . • **1**—Enable WSA collaboration.	Optional

RRM/ApGroupWsaCfg

This table contains information about a switch to enable one ApGroup radio collaborates with WSA automatically.

XML structure

```
<RRM>
  <ApGroupWsaCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApGroupWsaCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration o f radio	N/A	Enumeration: • **0**—Disable WSA collaboration (default). • **1**—Enable WSA collaboration.	Optional

RRM/History

This table contains the fields which carry history information.

XML structure

```
<RRM>
  <History>
    <RadioCount>
      <ApName></ApName>
      <RadioID></RadioID>
      <HistoryCnt></HistoryCnt>
      <BasicBSSID></BasicBSSID>
      <ChangeTime></ChangeTime>
      <ReasonBitMap></ReasonBitMap>
      <UtilBef></UtilBef>
      <UtilAft></UtilAft>
      <LoadBef></LoadBef>
      <LoadBef></LoadBef>
      <TotalIntrfBef></TotalIntrfBef>
      <TotalIntrfAft></TotalIntrfAft>
      <PacketErrBef></PacketErrBef>
      <PacketErrAft></PacketErrAft>
      <ChlNumBef></ChlNumBef>
      <ChlNumAft></ChlNumAft>
      <PwrLvlBef></PwrLvlBef>
      <PwrLvlAft></PwrLvlAft>
      <RetryBef></RetryBef>
      <RetryAft></RetryAft>
```

```
      <BandwidthBef></BandwidthBef>
      <BandwidthAft></BandwidthAft>
    </RadioCount>
  </History>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	History
Table type	Muti-instance table
Row name	RadioCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
HistoryCnt	The Nth history information	Index	Unsigned integer. Value range: 1 to 10.	N/A
BasicBSSID	Field of Radio Information	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ChangeTime	Date and time when change occurs.	N/A	String	Example: 2014-05-07T09:35:07.
ReasonBitMap	Field of History Information	N/A	Unsigned integer. Rewrite the unsigned integer to binary number. The Reason can be judged by whether the bits of this binary number is 1. the last bit is RadioDown; the second last bit is Interference; the third last bit is Noise; the forth last bit is PachetDisCard; the fifth last bit is Retransmission; the sixth last bit is Radar; the seventh last bit is Other;	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			the Reason can be the combination of 2 or more reasons.	
UtilBef	Utilization before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
UtilAft	Utilization after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadBef	Load before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadAft	Load after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrfBef	Total Interference before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrfAft	Total Interference after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrBef	Packet error rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrAft	Packet error rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
ChlNumBef	Channel number before calibration	N/A	Unsigned integer.	N/A
ChlNumAft	Channel number after calibration	N/A	Unsigned integer.	N/A
PwrLvlBef	Power level before calibration	N/A	Unsigned integer.	N/A
PwrLvlAft	Power level after calibration	N/A	Unsigned integer.	N/A
RetryBef	Retransmissio	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	n rate before calibration		Value range: 0 to 100. Unit: %.	
RetryAft	Retransmission rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Bandwidth Bef	Radio bandwidth before calibration	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Bandwidth Aft	Radio bandwidth after calibration	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A

RRM/ClbGroupCfg

This table contains calibration group

XML structure

```
<RRM>
  <ClbGroupCfg>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCfg
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Not support creation/deletion

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ClbGroupMemberCfg

This table contains calibration group member

XML structure

```
<RRM>
  <ClbGroupMemberCfg>
    <ClbGroupMember>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbGroupId></ClbGroupId>
    </ClbGroupMember>
  </ClbGroupMemberCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMemberCfg
Table type	Multi-instance table
Row name	ClbGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Ap name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioNum	Radio number	Index	Unsigned short. Value range: 1 to 4.	N/A
ClbGroupId	Calibration group id	N/A	Unsigned integer.	N/A

RRM/ConfigureSpec

This table contains RRM's configure specification values.

XML structure

```
<RRM>
  <ConfigureSpec>
    <Interval_Min></Interval_Min>
    <Interval_Max></Interval_Max>
    <Interval_Def></Interval_Def>
    <PwrClbInterval_Min></PwrClbInterval_Min>
    <PwrClbInterval_Max></PwrClbInterval_Max>
    <PwrClbInterval_Def></PwrClbInterval_Def>
    <AdjacencyFactor_Min></AdjacencyFactor_Min>
    <AdjacencyFactor_Max></AdjacencyFactor_Max>
    <AdjacencyFactor_Def></AdjacencyFactor_Def>
    <PwrMin_Min></PwrMin_Min>
    <PwrMin_Max></PwrMin_Max>
    <PwrMin_Def></PwrMin_Def>
```

```
    <PwrThreshold_Min></PwrThreshold_Min>
    <PwrThreshold_Max></PwrThreshold_Max>
    <PwrThreshold_Def></PwrThreshold_Def>
    <CrcErrThreshold_Min></CrcErrThreshold_Min>
    <CrcErrThreshold_Max></CrcErrThreshold_Max>
    <CrcErrThreshold_Def></CrcErrThreshold_Def>
    <InterferenceThreshold_Min></InterferenceThreshold_Min>
    <InterferenceThreshold_Max></InterferenceThreshold_Max>
    <InterferenceThreshold_Def></InterferenceThreshold_Def>
    <ToleranceLevel_Min></ToleranceLevel_Min>
    <ToleranceLevel_Max></ToleranceLevel_Max>
    <ToleranceLevel_Def></ToleranceLevel_Def>
    <ClbGroupDescription_MinLen></ClbGroupDescription_MinLen>
    <ClbGroupDescription_MaxLen></ClbGroupDescription_MaxLen>
    <ChlHolddownTime_Min></ChlHolddownTime_Min>
    <ChlHolddownTime_Max></ChlHolddownTime_Max>
    <ChlHolddownTime_Def></ChlHolddownTime_Def>
    <PwrHolddownTime_Min></PwrHolddownTime_Min>
    <PwrHolddownTime_Max></PwrHolddownTime_Max>
    <PwrHolddownTime_Def></PwrHolddownTime_Def>
    <ClbGroupId_Min></ClbGroupId_Min>
    <ClbGroupId_Max></ClbGroupId_Max>
    <Coverage_AdjacencyFactor></Coverage_AdjacencyFactor>
    <Coverage_PwrThreshold></Coverage_PwrThreshold>
    <Coverage_PwrMin></Coverage_PwrMin>
    <Density_AdjacencyFactor></Density_AdjacencyFactor>
    <Density_PwrThreshold></Density_PwrThreshold>
    <Density_PwrMin></Density_PwrMin>
    <Band5GPwrMin_Def></Band5GPwrMin_Def>
    <Band5GToleranceLevel_Def></Band5GToleranceLevel_Def>
  </ConfigureSpec>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ConfigureSpec
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval_Min	Smallest channel calibration interval	N/A	Unsigned integer. Value is 3.
Interval_Max	Largest channel calibration interval	N/A	Unsigned integer. Value is 1440.
Interval_Def	Default channel calibration interval	N/A	Unsigned integer. Value is 23.
PwrClbInterval_Min	Smallest power calibration interval	N/A	Unsigned integer. Value is 3.
PwrClbInterval_Max	Largest power calibration interval	N/A	Unsigned integer. Value is 180.
PwrClbInterval_Def	Default power calibration interval	N/A	Unsigned integer. Value is 11.
AdjacencyFactor_Min	The minimum adjacency factor of radio	N/A	Unsigned integer. Value is 1
AdjacencyFactor_Max	The maximum adjacency factor of radio	N/A	Unsigned integer. Value is 16
AdjacencyFactor_Def	The default adjacency factor of radio	N/A	Unsigned integer. Value is 1
PwrMin_Min	The minimum least transmit power of radio	N/A	Unsigned integer. Value is 1
PwrMin_Max	The maximum least transmit power of radio	N/A	Unsigned integer. Value is 20
PwrMin_Def	The default least transmit power of 2.4G radio	N/A	Unsigned integer. Value is 6
PwrThreshold_Min	The minimum threshold of calibrating radio's power	N/A	Unsigned integer. Value is 1
PwrThreshold_Max	The maximum threshold of calibrating radio's power	N/A	Unsigned integer. Value is 196

Column name	Column description	Column type	Data type and restrictions
PwrThreshold_Def	The default threshold of calibrating radio's power	N/A	Unsigned integer. Value is 75
CrcErrThreshold_Min	The minimum CRC-error threshold of radio	N/A	Unsigned integer. Value is 0
CrcErrThreshold_Max	The maximum CRC-error threshold of radio	N/A	Unsigned integer. Value is 100
CrcErrThreshold_Def	The default CRC-error threshold of radio	N/A	Unsigned integer. Value is 0
InterferenceThreshold_Min	The minimum Interference threshold of radio	N/A	Unsigned integer. Value is 0
InterferenceThreshold_Max	The maximum Interference threshold of radio	N/A	Unsigned integer. Value is 100
InterferenceThreshold_Def	The default Interference threshold of radio	N/A	Unsigned integer. Value is 0
ToleranceLevel_Min	The minimum tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 0
ToleranceLevel_Max	The maximum tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 100
ToleranceLevel_Def	The default tolerance level of 2.4G radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 1
ClbGroupDescription_MinLen	Minimum length of calibration group description	N/A	Unsigned integer. Value is 1
ClbGroupDescription_MaxLen	Maximum length of calibration group description	N/A	Unsigned integer. Value is 64
ChlHolddownTim	The minimum channel	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
e_Min	holddown time		Value is 10
ChlHolddownTime_Max	The maximum channel holddown time	N/A	Unsigned integer. Value is 1440
ChlHolddownTime_Def	The default channel holddown time	N/A	Unsigned integer. Value is 720
PwrHolddownTime_Min	The minimum power holddown time	N/A	Unsigned integer. Value is 10
PwrHolddownTime_Max	The maximum power holddown time	N/A	Unsigned integer. Value is 1440
PwrHolddownTime_Def	The default power holddown time	N/A	Unsigned integer. Value is 60
ClbGroupId_Min	The minimum Calibration group id	N/A	Unsigned integer. Value is 1
ClbGroupId_Max	The maximum Calibration group id	N/A	Unsigned integer. Value is 128
Coverage_AdjacencyFactor	The default adjacency factor of power coverage calibration mode	N/A	Unsigned integer. Value is 6
Coverage_PwrThreshold	The default power threshold of power coverage calibration mode	N/A	Unsigned integer. Value is 65
Coverage_PwrMin	The default minimum least transmit power of power coverage calibration mode	N/A	Unsigned integer. Value is 1
Density_AdjacencyFactor	The default adjacency factor of power density calibration mode	N/A	Unsigned integer. Value is 1
Density_PwrThreshold	The default power threshold of power density calibration mode	N/A	Unsigned integer. Value is 80

Column name	Column description	Column type	Data type and restrictions
Density_PwrMin	The default minimum transmit power of power density calibration mode	N/A	Unsigned integer. Value is 1
Band5GPwrMin_Def	Default minimum transmit power of 5G radios	N/A	Unsigned integer. Value is 11
Band5GTolerance Level_Def	Default tolerance level of 5G radios, which is used to determine if the current channel needs to be changed	N/A	Unsigned integer. Value is 0

RRM/ClbGroupCreate

This table contains the operation to create a calibration group.

XML structure

```
<RRM>
  <ClbGroupCreate>
    <ClbGroupId></ClbGroupId>
  </ClbGroupCreate>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCreate
Table type	Single-instance table
Row name	None
Restrictions	Just support for creation

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128.	N/A

RRM/ClbGroupDelete

This table contains the operation to delete a calibration group.

XML structure

```
<RRM>
  <ClbGroupDelete>
    <ClbGroup>
      <ClbGroupIdIndex></ClbGroupIdIndex>
      <ClbGroupIdColumn></ClbGroupIdColumn>
    </ClbGroup>
  </ClbGroupDelete>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupDelete
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for deletion/removing

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupIdIndex	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupIdColumn	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	N/A

RRM/ClbGroupMerge

This table contains the operation to merge a calibration group.

XML structure

```
<RRM>
```

```
  <ClbGroupMerge>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupMerge>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMerge
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for merging

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ApPwrClbModeCfg

This table contains radio power calibration mode information.

XML structure

```
<RRM>
  <PwrClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </PwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Custom calibration mode. • **1**—Coverage calibration mode. • **2**—Density calibration mode.	Optional

RRM/ApGroupPwrClbModeCfg

This table contains AP group power calibration mode information.

XML structure

```
<RRM>
```

```
  <ApGroupPwrClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupPwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Custom calibration mode (default). • **1**—Coverage calibration mode. • **2**—Density calibration mode.	Optional

RRM/ApChlClbModeCfg

This table contains radio channel calibration mode information.

XML structure

```
<RRM>
  <ChlClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Period calibration mode. • **1**—Scheduled calibration mode.	Optional

RRM/ApGroupChlClbModeCfg

This table contains AP group channel calibration mode information.

XML structure

```
<RRM>
```

```
  <ApGroupChlClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • **0**—Periodic calibration mode. • **1**—Scheduled calibration mode.	Optional

RRM/ApTimeRangeNameCfg

This table contains radio time range information.

XML structure

```
<RRM>
```

```
  <TimeRangeNameCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </TimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	TimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApGroupTimeRangeNameCfg

This table contains AP group time range information.

XML structure

```
<RRM>
  <ApGroupTimeRangeNameCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
```

```
    </Radio>
  </ApGroupTimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupTimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeNam e	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApScanOnlyCfg

This table contains radio channel scanning information.

XML structure

```
<RRM>
  <ScanOnlyCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
```

```
  </ScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: • **0**—Disable scan only • **1**—Enable scan only	Optional

RRM/ApGroupScanOnlyCfg

This table contains AP group channel scanning information.

XML structure

```
<RRM>
  <ApGroupScanOnlyCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ApGroupScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: • **0**—Disable scan only (default). • **1**—Enable scan only.	Optional

RRM/BaselineInfoHead

This table contains baseline table information.

XML structure

```
<RRM>
  <BaselineInfoHead>
    <Radio>
      <BaselineName></BaselineName>
      <Count></Count>
      <Description></Description>
      <CreateTime></CreateTime>
      <BaselineType></BaselineType>
      <BaselineRange></BaselineRange>
    </Radio>
  </BaselineInfoHead>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineInfoHead
Table type	Muti-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
Count	Radio quantity	N/A	Unsigned integer.	N/A
Description	Baseline description	N/A	String. Length: 1 to 63 characters.	N/A
CreateTime	Creation time	N/A	String. Length: 1 to 19 characters.	N/A
BaselineType	Baseline type	N/A	String. Length: 1 to 9 characters.	N/A
BaselineRange	Baseline range	N/A	String. Length: 1 to 9 characters.	N/A

RRM/BaselineInfoBody

This table contains baseline information.

XML structure

```
<RRM>
  <BaselineInfoBody>
    <Radio>
      <BaselineName></BaselineName>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioType></RadioType>
```

```
      <PrimaryChannel></PrimaryChannel>
      <Power></Power>
      <BandWidth></BandWidth>
      <RegionCode></RegionCode>
    </Radio>
  </BaselineInfoBody>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineInfoBody
Table type	Muti-instance table
Row name	Radio
Restrictions	You can only get the table information in bulk, and the first index 'BaselineName' can't be empty.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioType	Radio type	N/A	Unsigned integer.	N/A
PrimaryChannel	Current working channel	N/A	Unsigned short.	N/A
Power	Current power	N/A	Unsigned short.	N/A
BandWidth	Current band width	N/A	Unsigned char.	N/A
RegionCode	Region code	N/A	Unsigned integer.	N/A

RRM/BaselineApplyResult

This table contains baseline application result information.

XML structure

```
<RRM>
  <BaselineApplyResult>
    <ApplyHistory>
      <TimeIdxSec></TimeIdxSec>
      <TimeIdxNanoSec></TimeIdxNanoSec>
      <BaselineName></BaselineName>
      <ApplyTime></ApplyTime>
      <BaselineRange></BaselineRange>
      <Total></Total>
      <Success></Success>
      <Failed></Failed>
      <RadioNotExist></RadioNotExist>
      <RadioDown></RadioDown>
      <RadioTypeMismatch></RadioTypeMismatch>
      <RegionCodeMismatch></RegionCodeMismatch>
      <AccSrvDisable ></AccSrvDisable>
      <ChlIllegal></ChlIllegal>
      <BandwidthMismatch></BandwidthMismatch>
      <ChlLocked></ChlLocked>
      <ChlFixed></ChlFixed>
      <ChlHold></ChlHold>
      <ChlGapPolicy></ChlGapPolicy>
      <PwrLocked></PwrLocked>
      <PwrHold></PwrHold>
      <MinPwrIllegal></MinPwrIllegal>
      <MaxPwrIllegal></MaxPwrIllegal>
    </ApplyHistory>
  </BaselineApplyResult>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineApplyResult
Table type	Muti-instance table
Row name	ApplyHistory
Restrictions	You can only get the table information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeIdxSec	Current time in second	Index	Unsigned integer 64	N/A
TimeIdxNanoSec	Current time in nano second	Index	Unsigned integer 64	N/A
BaselineName	Baseline name	N/A	String:case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
ApplyTime	Apply time	N/A	String. Length: 1 to 19 characters.	N/A
BaselineRange	Baseline range	N/A	String. Length: 1 to 9 characters.	N/A
Total	Total records	N/A	Unsigned integer.	N/A
Success	Successful records	N/A	Unsigned integer.	N/A
Failed	Failed records	N/A	Unsigned integer.	N/A
RadioNotExist	Radio does not exist	N/A	Unsigned integer.	Failure reason
RadioDown	Radio is down	N/A	Unsigned integer.	Failure reason
RadioTypeMismatch	Mismatched radio type	N/A	Unsigned integer.	Failure reason
RegionCodeMismatch	Mismatched region code	N/A	Unsigned integer.	Failure reason
AccSrvDisable	Access service disabled	N/A	Unsigned integer.	Failure reason
ChlIllegal	Illegal channel	N/A	Unsigned integer.	Failure reason
BandwidthMismatch	Mismatched bandwidth	N/A	Unsigned integer.	Failure reason
ChlLocked	Channel is locked	N/A	Unsigned integer.	Failure reason
ChlFixed	Channel is fixed	N/A	Unsigned integer.	Failure reason
ChlHold	Channel is within the holddown time	N/A	Unsigned integer.	Failure reason
ChlGapPolicy	Mismatched channel gap	N/A	Unsigned integer.	Failure reason

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy			
PwrLocked	Power is locked	N/A	Unsigned integer.	Failure reason
PwrHold	Power is within the holddown time	N/A	Unsigned integer.	Failure reason
MinPwrIllegal	Power is lower than the min. power	N/A	Unsigned integer.	Failure reason
MaxPwrIllegal	Power is higher than the max. power	N/A	Unsigned integer.	Failure reason

RRM/ApRunningData

This table contains RRM's running-data information.

XML structure

```
<RRM>
  <RunningData>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
      <PwrClbScen></PwrClbScen>
      <AdjFacRdSel></AdjFacRdSel>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
      <ChlClbOption></ChlClbOption>
      <SuppressionStatus></SuppressionStatus>
      <ChlClbClientThres></ChlClbClientThres>
      <ChlClbSnt></ChlClbSnt>
      <ClbGroupId></ClbGroupId>
      <WsaFlag></WsaFlag>
      <TimeRangeName></TimeRangeName>
      <ScanMode></ScanMode>
```

```
      <ServiceType></ServiceType>
      <IsChlPronto></IsChlPronto>
      <IsPwrPronto></IsPwrPronto>
      <IsRdScan></IsRdScan>
      <BandwidthClbMode></BandwidthClbMode>
    </Radio>
  </RunningData>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RunningData
Table type	Multi-instance table
Row name	Radio
Restrictions	You can only get the table information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer.	N/A
PwrMin	The least transmit power of radio	N/A	Unsigned integer.	N/A
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer.	N/A
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Unsigned integer.	N/A
PwrClbScen	Power calibration mode	N/A	Unsigned integer.	N/A
AdjFacRdSel	Adjacency-factor radio-selection	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer.	N/A
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer.	N/A
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer.	N/A
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Unsigned integer.	N/A
ChlClbOption	Channel calibration mode	N/A	Unsigned integer.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A
ChlClbClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default: 124.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • **0**—Custom. • **1**—Low. • **2**—Medium. • **3**—High.	N/A
ClbGroupId	Calibration group index	N/A	Unsigned integer.	N/A
WsaFlag	WSA collaboration of radio	N/A	Unsigned integer.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive.	N/A
ScanMode	Channel scanning status	N/A	Unsigned integer.	N/A
ServiceType	Radio service type	N/A	Unsigned integer.	N/A
IsChlPronto	Channel pronto	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	calibration flag		true—Support. false—Not support.	
IsPwrPronto	Power pronto calibration flag	N/A	Boolean: true—Support. false—Not support.	N/A
IsRdScan	Whether a radio is set to scan	N/A	Boolean: true—Support. false—Not support.	N/A
BandwidthClbMode	Enable/Disable auto bandwidth selection of radio	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A

RRM/EnvQuality

This table contains information about environmental quality scores.

XML structure

```
<RRM>
  <EnvQuality>
    <EnvQualityScore>
      <RadioType></RadioType>
      <Score></Score>
    </EnvQualityScore>
  </EnvQuality>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	EnvQuality
Table type	Muti-instance table
Row name	EnvQualityScore
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioType	Radio type	Index	Enumeration: • 1—Radio type is 2.4G. • 2— Radio type is 5G.	N/A
Score	Environmental quality score	N/A	Unsigned integer.	N/A

RRM/RadioDetail

This table contains details about bad environmental quality radio.

XML structure

```
<RRM>
  <RadioDetail>
    <Radio>
      <RadioType></RadioType>
      <ApName></ApName>
      <RadioID></RadioID>
      <Reason></Reason>
    </Radio>
  </RadioDetail>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioDetail
Table type	Muti-instance table
Row name	Radio
Restrictions	You can only get the table information in bulk, and the first index can't be empty.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioType	Radio type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Radio type is 2.4G. • 2— Radio type is 5G.	
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Reason	Detail about environmental quality	N/A	Unsigned integer.	N/A

RRM/LastHistoryRecord

This table contains the fields that carry the most recent history record information.

XML structure

```
<RRM>
  <LastHistoryRecord>
    <RadioCount>
      <ApName></ApName>
      <RadioID></RadioID>
      <BasicBSSID></BasicBSSID>
      <ChangeTime></ChangeTime>
      <ReasonBitMap></ReasonBitMap>
      <UtilBef></UtilBef>
      <UtilAft></UtilAft>
      <LoadBef></LoadBef>
      <LoadBef></LoadBef>
      <TotalIntrfBef></TotalIntrfBef>
      <TotalIntrfAft></TotalIntrfAft>
      <PacketErrBef></PacketErrBef>
      <PacketErrAft></PacketErrAft>
      <ChlNumBef></ChlNumBef>
      <ChlNumAft></ChlNumAft>
      <PwrLvlBef></PwrLvlBef>
      <PwrLvlAft></PwrLvlAft>
      <RetryBef></RetryBef>
      <RetryAft></RetryAft>
    </RadioCount>
  </LastHistoryRecord>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	LastHistoryRecord
Table type	Muti-instance table
Row name	RadioCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
BasicBSSID	Basic SSID	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ChangeTime	Date and time when change occurs	N/A	String	Example: 2014-05-07T09:35:07.
ReasonBitMap	Field of history information	N/A	Unsigned integer. Each bit in the string represents a reason. The changes were caused by reasons which bits are set to 1. Meaning of each bit: The last bit represents RadioDown; The second last bit represents Interference; The third last bit represents Noise; The forth last bit represents PachetDisCard; The fifth last bit represents Retransmission; The sixth last bit represents Radar; The seventh last bit represents Other;	N/A
UtilBef	Utilization before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
UtilAft	Utilization	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	after calibration		Value range: 0 to 100. Unit: %.	
LoadBef	Load before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadAft	Load after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrfBef	Total interference before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrfAft	Total interference after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrBef	Packet error rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrAft	Packet error rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
ChlNumBef	Channel number before calibration	N/A	Unsigned integer.	N/A
ChlNumAft	Channel number after calibration	N/A	Unsigned integer.	N/A
PwrLvlBef	Power level before calibration	N/A	Unsigned integer.	N/A
PwrLvlAft	Power level after calibration	N/A	Unsigned integer.	N/A
RetryBef	Retransmission rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
RetryAft	Retransmission rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

RRM/HierarchyClbMode

This table contains hierarchy calibration mode information.

XML structure

```
<RRM>
  <HierarchyClbMode>
    <Mode></Mode>
  </HierarchyClbMode>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	HierarchyClbMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Hierarchy-calibration mode	N/A	Enumeration: • **0**—Local. • **1**—Central.	N/A

RRM/ApChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of an AP.

XML structure

```
<RRM>
  <ChlClbSntCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
```

```
  </ChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • **0**—Custom. • **1**—Low. • **2**—Medium. • **3**—High.	N/A

RRM/ApGroupChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupChlClbSntCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ApGroupChlClbSntCfg>
```

```
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • **0**—Custom. • **1**—Low. • **2**—Medium. • **3**—High.	N/A

RRM/ApRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of an AP.

XML structure

```
<RRM>
  <RadioSelectionCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </RadioSelectionCfg>
```

```
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • **0**—All channels. • **1**—Overlapping channels.	N/A

RRM/ApGroupRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupRadioSelectionCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </ApGroupRadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupRadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • **0**—All channels. • **1**—Overlapping channels.	N/A

RRM/ApSuppressionStatusCfg

This table contains channel calibration suppression configuration information for radios of an AP.

XML structure

```
<RRM>
  <SuppressionStatusCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </SuppressionStatusCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	SuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	N/A

RRM/ApGroupSuppressionStatusCfg

This table contains channel calibration suppression configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupSuppressionStatusCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </ApGroupSuppressionStatusCfg>
```

```
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupSuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	N/A

RRM/GlobalCfg

This table contains global configuration information.

XML structure

```
<RRM>
  <GlobalCfg>
    <Band2GCrcErrThreshold></Band2GCrcErrThreshold>
    <Band5GCrcErrThreshold></Band5GCrcErrThreshold>
    <Band2GToleranceLevel></Band2GToleranceLevel>
    <Band5GToleranceLevel></Band5GToleranceLevel>
    <ChlClbMode></ChlClbMode>
    <Band2GAdjacencyFactor></Band2GAdjacencyFactor>
```

```
    <Band5GAdjacencyFactor></Band5GAdjacencyFactor>
    <Band2GPwrMin></Band2GPwrMin>
    <Band5GPwrMin></Band5GPwrMin>
    <Band2GPwrThreshold></Band2GPwrThreshold>
    <Band5GPwrThreshold></Band5GPwrThreshold>
    <PwrClbMode></PwrClbMode>
    <BandwidthClbMode></BandwidthClbMode>
  </GlobalCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Band2GCrcErrThreshold	CRC-error threshold of 2.4GHz radios	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A
Band5GCrcErrThreshold	CRC-error threshold of 5GHz radios	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A
Band2GToleranceLevel	Tolerance level of 2.4GHz radios, which is used to determine if the current channel needs to be changed	N/A	Unsigned integer. Value range: 0 to 100. Default value: 1.	N/A
Band5GToleranceLevel	Tolerance level of 5GHz radios, which is used to determine if the current channel needs to be changed	N/A	Unsigned integer. Value range: 0 to 100. Default value: 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChlClbMode	Auto channel selection status	N/A	Enumeration: • **0**—Disable auto channel selection (default) for both 2.4GHz and 5GHz radios. • **1**—Enable auto channel selection for 2.4GHz radios. • **2**—Enable auto channel selection for 5GHz radios. • **3**—Enable auto channel selection for both 2.4GHz and 5GHz radios.	N/A
Band2GAdjacencyFactor	Adjacency factor of 2.4GHz radios	N/A	Unsigned integer. Value range: 1 to 16. Default value: 1.	N/A
Band5GAdjacencyFactor	Adjacency factor of 5GHz radios	N/A	Unsigned integer. Value range: 1 to 16. Default value: 1.	N/A
Band2GPwrMin	Minimum transmit power of 2.4GHz radios	N/A	Unsigned integer. Value range: 1 to 20. Default value: 6.	N/A
Band5GPwrMin	Minimum transmit power of 5GHz radios	N/A	Unsigned integer. Value range: 1 to 20. Default value: 11.	N/A
Band2GPwrThreshold	Power threshold for 2.4GHz radio power calibration	N/A	Unsigned integer. Value range: 1 to 196. Default value: 75.	N/A
Band5GPwrThreshold	Power threshold for 5GHz radio power calibration	N/A	Unsigned integer. Value range: 1 to 196. Default value: 75.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PwrClbMode	Auto power selection status	N/A	Enumeration: • **0**—Disable auto power selection (default) for both 2.4GHz and 5GHz radios. • **1**—Enable auto power selection for 2.4GHz radios. • **2**—Enable auto power selection for 5GHz radios. • **3**—Enable auto power selection for both 2.4GHz and 5GHz radios	Optional
BandwidthClbMode	Auto bandwidth selection status	N/A	Enumeration: • 0—Disable auto bandwidth selection (default) for 5GHz radios. • 1—Enable auto bandwidth selection for 5GHz radios.	Optional

Contents

RRPP 1
RRPP/ClearRingStatistics 1
XML structure 1
Table description 1
Columns 1

RRPP

RRPP/ClearRingStatistics

The ClearRingStatistics table is used to clear statistics.

XML structure

```
<RRPP>
  <ClearRingStatistics>
    <DomainID></DomainID>
    <RingID></RingID>
    <Clear></Clear>
  </ClearRingStatistics>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	ClearRingStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainID	Domain index	Index	Unsigned integer.	N/A
RingID	Ring index	Index	Unsigned integer.	N/A
Clear	Clear statistics from the rrpp ring of domain	N/A	This column must be empty.	N/A

Contents

RRPP 1
RRPP/Base 1
XML structure 1
Table description 1
Columns 1
RRPP/Domains 1
XML structure 2
Table description 2
Columns 3
RRPP/Domains/Rings 4
XML structure 4
Table description 4
RRPP/RingGroups 4
XML structure 4
Table description 5
Columns 5
RRPP/RingGroups/Couples 5
XML structure 5
Table description 6

RRPP

RRPP/Base

This table contains global rrpp information.

XML structure

```
<RRPP>
  <Base>
    <ProtocolEnable></ProtocolEnable>
    <TrapEnable></TrapEnable>
  </Base>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolEnable	Global statue of rrpp protocol	N/A	Boolean: • true. • false.	N/A
TrapEnable	Trap statue of rrpp protocol	N/A	Boolean: • true. • false.	N/A

RRPP/Domains

This table provides rrpp domain configuration.

XML structure

```
<RRPP>
  <Domains>
    <Domain>
      <DomainID></DomainID>
      <ControlVlan></ControlVlan>
      <ProtectedInstances></ProtectedInstances>
      <Timer>
        <HelloTimer></HelloTimer>
        <FailTimer></FailTimer>
      </Timer>
      <LinkUpDelayTimer>
        <TimerValue></TimerValue>
        <Distribute></Distribute>
      </LinkUpDelayTimer>
      <Rings>
        <Ring>
          <RingID></RingID>
          <NodeRole></NodeRole>
          <PrimaryPort></PrimaryPort>
          <SecondaryPort></SecondaryPort>
          <EdgePort></EdgePort>
          <Level></Level>
          <Enable></Enable>
        </Ring>
      </Rings>
    </Domain>
  </Domains>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	This table supports only Domain functions.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainID	Index of the Domain	Index	Unsigned integer. Value range: 1 to 128.	N/A
ControlVlan	Vlan which rrpp protocol packet transmit	N/A	Unsigned integer. Value range: 2 to 4094.	N/A
ProtectedInstances	Instance protected by rrpp protocol	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
Timer	RRPP protocol timer	Data structure	Members include: • **HelloTimer**. • **FailTimer**.	N/A
HelloTimer	RRPP protocol hello timer	N/A	Unsigned integer. Value range: 1 to 10.	N/A
FailTimer	RRPP protocol fail timer	N/A	Unsigned integer. Value range: 3 to 30.	N/A
LinkUpDelayTimer	RRPP protocol link delay timer	Data structure	Members include: • **TimerValue**. • **Distrubute**.	N/A
TimerValue	RRPP protocol link delay timer value	N/A	Unsigned integer. Value range: 0 to 30.	N/A
Distribute	RRPP protocol link delay timer distribute	N/A	Boolean: • true. • false.	N/A
Rings	RRPP rings	Sublist	N/A	N/A
RingID	RRPP ring id	Index	Unsigned integer. Value range: 1 to 128.	N/A
NodeRole	RRPP node role	N/A	Enumeration: • **0**—transit. • **1**—master • **2**—edge. • **3**—assistant edge	N/A
PrimaryPort	RRPP ring primary port	N/A	String. Length: 0 to 47 characters.	N/A
SecondaryPort	RRPP ring secondary port	N/A	String. Length: 0 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EdgePort	RRPP ring edge port	N/A	String. Length: 0 to 47 characters.	N/A
Level	RRPP ring level	N/A	Enumeration: • **0**—major ring. • **1**—sub ring	N/A
Enable	RRPP ring protocol enable statue	N/A	Boolean: • true. • false.	N/A

RRPP/Domains/Rings

XML structure

Please refer to the XML structure of RRPP/Domains.

Table description

Item	Description
Feature name	RRPP
Table name	Rings
Table type	Multi-instance table
Row name	Ring
Restrictions	None
Support for row creation and deletion	YES

RRPP/RingGroups

This table provides ring groups information.

XML structure

```
<RRPP>
  <RingGroups>
    <RingGroup>
      <ID></ID>
      <Couples>
        <Couple>
          <DomainID></DomainID>
          <RingList></RingList>
        </Couple>
      </Couples>
    </RingGroup>
```

```
  </RingGroups>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	RingGroups
Table type	Multi-instance table
Row name	RingGroup
Restrictions	This table supports only ring group function.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Index of ring group	Index	Unsigned integer. Value range: 1 to 64.	N/A
Couples	Couples between connection of domain and rings	Sublist	N/A	N/A
Couple	Couple between connection of domain and rings	Data structure	Members include: • **DomainID**. • **RingList**.	N/A
DomainID	Index of the Domain	Index	Unsigned integer. Value range: 1 to 128.	N/A
RingList	Ring list of specifical domain	N/A	Number string. It is a comma-separated list of ring items. An item can be an individual ring ID or a ring ID range. Use a hyphen (-) to separate the start and end rings of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

RRPP/RingGroups/Couples

XML structure

Please refer to the XML structure of RRPP/RingGroups.

Table description

Item	Description
Feature name	RRPP
Table name	Couples
Table type	Multi-instance table
Row name	Couple
Restrictions	None
Support for row creation and deletion	YES

Contents

RRPP 1
RRPP/Base 1
XML structure 1
Table description 1
Columns 1
RRPP/Domains 1
XML structure 1
Table description 2
Columns 2
RRPP/Domains/Rings 4
XML structure 4
Table description 4
RRPP/RingGroups 5
XML structure 5
Table description 5
Columns 5
RRPP/RingGroups/Couples 6
XML structure 6
Table description 6
RRPP/Statistics 6
XML structure 6
Table description 7
Columns 7

RRPP

RRPP/Base

This table contains global rrpp information.

XML structure

```
<RRPP>
  <Base>
    <ProtocolEnable></ProtocolEnable>
    <TrapEnable></TrapEnable>
  </Base>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolEnable	Global statue of rrpp protocol	N/A	Boolean: • true. • false.	N/A
TrapEnable	Trap statue of rrpp protocol	N/A	Boolean: • true. • false.	N/A

RRPP/Domains

This table provides rrpp domain configuration.

XML structure

```
<RRPP>
  <Domains>
```

```
    <Domain>
      <DomainID></DomainID>
      <ControlVlan></ControlVlan>
      <ProtectedInstances></ProtectedInstances>
      <Timer>
        <HelloTimer></HelloTimer>
        <FailTimer></FailTimer>
      </Timer>
      <LinkUpDelayTimer>
        <TimerValue></TimerValue>
        <Distribute></Distribute>
      </LinkUpDelayTimer>
      <Rings>
        <Ring>
          <RingID></RingID>
          <NodeRole></NodeRole>
          <PrimaryPort></PrimaryPort>
          <PrimaryPortState></PrimaryPortState>
          <SecondaryPort></SecondaryPort>
          <SecondaryPortState></SecondaryPortState>
          <EdgePort></EdgePort>
          <EdgePortState></EdgePortState>
          <Level></Level>
          <Enable></Enable>
          <RingState></RingState>
        </Ring>
      </Rings>
    </Domain>
  </Domains>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	This table supports only Domain functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainID	Index of the Domain	Index	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlVlan	Vlan which rrpp protocol packet transmit	N/A	Unsigned integer. Value range: 2 to 4094.	N/A
ProtectedInstances	Instance protected by rrpp protocol	N/A	Number string. It is a comma-separated list of Instance items. An item can be an individual instance ID or a instance ID range. Use a hyphen (-) to separate the start and end instances of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
Timer	RRPP protocol timer	Data structure	Members include: • **HelloTimer**. • **FailTimer**.	N/A
HelloTimer	RRPP protocol hello timer	N/A	Unsigned integer. Value range: 1 to 10.	N/A
FailTimer	RRPP protocol fail timer	N/A	Unsigned integer. Value range: 3 to 30.	N/A
LinkUpDelayTimer	RRPP protocol link delay timer	Data structure	Members include: • **TimerValue**. • **Distrubute**.	N/A
TimerValue	RRPP protocol link delay timer value	N/A	Unsigned integer. Value range: 0 to 30.	N/A
Distribute	RRPP protocol link delay timer distribute	N/A	Boolean: • true. • false.	N/A
Rings	RRPP rings	Sublist	N/A	N/A
RingID	RRPP ring id	Index	Unsigned integer. Value range: 1 to 128.	N/A
NodeRole	RRPP node role	N/A	Enumeration: • **0**—transit. • **1**—master. • **2**—edge. • **3**—assistant edge.	N/A
PrimaryPort	RRPP ring primary port	N/A	String. Length: 0 to 47 characters.	N/A
PrimaryPortState	Primary port state	N/A	Enumeration: • **0**—down. • **1**—up. • **2**—blocked.	N/A
SecondaryPort	RRPP ring secondary port	N/A	String. Length: 0 to 47 characters.	N/A
SecondaryPo	Secondary port	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
rtState	state		• **0**—down. • **1**—up. • **2**—blocked.	
EdgePort	RRPP ring Edge port	N/A	String. Length: 0 to 47 characters.	N/A
EdgePortState	Edge port state	N/A	Enumeration: • **0**—down. • **1**—up. • **2**—blocked.	N/A
Level	RRPP ring level	N/A	Enumeration: • **0**—major ring. • **1**—sub ring.	N/A
Enable	RRPP ring protocol enable statue	N/A	Boolean: • true. • false.	N/A
RingState	RRPP ring state	N/A	Enumeration: • **0**—Completed. • **1**—Failed • **2**—LinkUp • **3**—LinkDown • **4**—PreForward • **5**—LinkUpNotify • **6**—LinkDnNotify • **7**—PreForwardNotify • **8**—Unknown	N/A

RRPP/Domains/Rings

XML structure

Please refer to the XML structure of RRPP/Domains.

Table description

Item	Description
Feature name	RRPP
Table name	Instance
Table type	Multi-instance table
Row name	Ring
Restrictions	None

RRPP/RingGroups

This table provides ring groups information.

XML structure

```
<RRPP>
  <RingGroups>
    <RingGroup>
      <ID></ID>
      <Couples>
        <Couple>
          <DomainID></DomainID>
          <RingList></RingList>
        </Couple>
      </Couples>
    </RingGroup>
  </RingGroups>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	RingGroups
Table type	Multi-instance table
Row name	RingGroup
Restrictions	This table supports only ring group function.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Index of ring group	Index	Unsigned integer. Value range: 1 to 64.	N/A
Couples	Couples between connection of domain and rings	Sublist	• N/A	N/A
Couple	Couple between connection of domain and rings	Data structure	Members include: • **DomainID**. • **RingList**.	N/A
DomainID	Index of the Domain	Index	Unsigned integer. Value range: 1 to 128.	N/A
RingList	Ring list of	N/A	Number string.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	specifical domain		It is a comma-separated list of ring items. An item can be an individual ring ID or a ring ID range. Use a hyphen (-) to separate the start and end rings of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	

RRPP/RingGroups/Couples

XML structure

Please refer to the XML structure of RRPP/RingGroups.

Table description

Item	Description
Feature name	RRPP
Table name	Couples
Table type	Multi-instance table
Row name	Couple
Restrictions	None

RRPP/Statistics

This table contains information about rrpp statistics.

XML structure

```
<RRPP>
 <Statistics>
  <Statistic>
   <DomainID></DomainID>
   <RingID></RingID>
   <ifName></ifName>
   <InStatistic>
    <Hello></Hello>
    <LinkDown></LinkDown>
    <CommonFDB></CommonFDB>
    <CompleteFDB></CompleteFDB>
    <EdgeHello></EdgeHello>
    <MajorFault></MajorFault>
   </InStatistic>
```

```
      <OutStatistic>
        <Hello></Hello>
        <LinkDown></LinkDown>
        <CommonFDB></CommonFDB>
        <CompleteFDB></CompleteFDB>
        <EdgeHello></EdgeHello>
        <MajorFault></MajorFault>
      </OutStatistic>
    </Statistic>
  </Statistics>
</RRPP>
```

Table description

Item	Description
Feature name	RRPP
Table name	Statistics
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainID	Index of the Domain	Index	Unsigned integer. Value range: 1 to 128.	DomainID
RingID	RRPP ring id	Index	Unsigned integer. Value range: 1 to 128.	N/A
ifName	If Name	Index	String. Length: 0 to 47 characters.	N/A
InStatistic	RRPP ring in protocol packet statistics.	Data structure	Members include: • **Hello**. • **LinkDown**. • **CommonFDB**. • **CompleteFDB**. • **EdgeHello**. • **MajorFault**.	N/A
Hello	Hello packet statistics	N/A	Unsigned integer.	N/A
LinkDown	Link down packet statistics	N/A	Unsigned integer.	N/A
CommonFDB	Common flush data base packet statistics	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CompleteFDB	Complete flush data base packet statistics	N/A	Unsigned integer.	N/A
EdgeHello	Edge hello packet statistics	N/A	Unsigned integer.	N/A
MajorFault	Major fault packet statistics	N/A	Unsigned integer.	N/A
OutStatistic	RRPP ring out protocol packet statistics.	Data structure	Members include: • **Hello**. • **LinkDown**. • **CommonFDB.** • **CompleteFDB.** • **EdgeHello** • **MajorFault**	N/A

Contents

RRPP 1
RRPP/Domains 1
RRPP/Domains/Rings 2
RRPP/RingGroups/Couples 5

RRPP

RRPP/Domains

Message	Explanation
The primary control VLAN is not supported. 系统不支持此主控制VLAN。	The primary control VLAN is not supported. 系统不支持此主控制VLAN。
The secondary control VLAN is not supported. 系统不支持此子控制VLAN。	The secondary control VLAN is not supported. 系统不支持此子控制VLAN。
Can't specify an existing VLAN as the RRPP primary control VLAN. 主控制VLAN已存在。	Can't specify an existing VLAN as the RRPP primary control VLAN. 主控制VLAN已存在。
Can't specify an existing VLAN as the RRPP secondary control VLAN. 子控制VLAN已存在。	Can't specify an existing VLAN as the RRPP secondary control VLAN. 子控制VLAN已存在。
Can't specify an existing reserved VLAN as the RRPP primary control VLAN. 不能将预留VLAN配置成主控制VLAN。	Can't specify an existing reserved VLAN as the RRPP primary control VLAN. 不能将预留VLAN配置成主控制VLAN。
Can't specify an existing reserved VLAN as the RRPP secondary control VLAN. 不能将预留VLAN配置成子控制VLAN。	Can't specify an existing reserved VLAN as the RRPP secondary control VLAN. 不能将预留VLAN配置成子控制VLAN。
Failed to configure the RRPP control VLAN. 配置控制VLAN时出错。	Failed to configure the RRPP control VLAN. 配置控制VLAN时出错。
Can't modify the control VLAN because an RRPP ring is configured. 域内已有环，无法修改控制VLAN。	Can't modify the control VLAN because an RRPP ring is configured. 域内已有环，无法修改控制VLAN。
Can't delete the control VLAN because an RRPP ring is configured. 域内已有环，无法删除控制VLAN。	Can't delete the control VLAN because an RRPP ring is configured. 域内已有环，无法删除控制VLAN。
The end MSTI ID can't be smaller than the start MSTI ID. MSTI编号配置 A to B 时，A大于B。	The end MSTI ID can't be smaller than the start MSTI ID. MSTI编号配置 A to B 时，A大于B。
The MSTI ID has been specified for another domain. MSTI编号已被其他域占用。	The MSTI ID has been specified for another domain. MSTI编号已被其他域占用。

Can't delete the MSTI ID because an RRPP ring has been configured. 域内已有环，无法删除MSTI编号。	Can't delete the MSTI ID because an RRPP ring has been configured. 域内已有环，无法删除MSTI编号。
The Hello timer and Fail timer must be both configured. Hello和Fail定时器必须同时配置。	The Hello timer and Fail timer must be both configured. Hello和Fail定时器必须同时配置。
The Fail timer must be greater than or equal to three times the Hello timer. Fail定时器的值必须大于或等于Hello定时器值的3倍。	The Fail timer must be greater than or equal to three times the Hello timer. Fail定时器的值必须大于或等于Hello定时器值的3倍。
The Fail timer value minus twice the Hello timer value can't be smaller than the link-up delay timer value. Fail定时器与2倍Hello定时器的差值不能小于Linkup-Delay定时器的值。	The Fail timer value minus twice the Hello timer value can't be smaller than the link-up delay timer value. Fail定时器与2倍Hello定时器的差值不能小于Linkup-Delay定时器的值。
Please configure the Linkup-Delay timer. 请配置Linkup-Delay定时器的值。	Please configure all LinkUpDelayTimer columns. 请配置Linkup-Delay定时器的值。
The link-up delay timer value can't be greater than the Fail timer value minus twice the Hello timer value. Linkup-Delay定时器的值必须小于等于Fail定时器减去2倍Hello定时器的值。	The link-up delay timer value can't be greater than the Fail timer value minus twice the Hello timer value. Linkup-Delay定时器的值必须小于等于Fail定时器减去2倍Hello定时器的值。
Can't delete a domain before deleting all its rings. 删除RRPP域前，请先删除域内所有的环。	Can't delete a domain before deleting all its rings. 删除RRPP域前，请先删除域内所有的环。

RRPP/Domains/Rings

Message	**Explanation**
This ring doesn't exist. 环不存在。	This ring doesn't exist. 环不存在。
This domain doesn't exist. 域不存在。	This domain doesn't exist. 域不存在。
The primary ring must be enabled before you enable a subring. 使能子环之前必须先使能主环。	The primary ring must be enabled before you enable a subring. 使能子环之前必须先使能主环。
All subrings must be disabled before you disable the primary ring. 主环去使能前，请先去使能子环。	All subrings must be disabled before you disable the primary ring. 主环去使能前，请先去使能子环。

Failed to set protocol packet control rule due to insufficient system resources. 系统资源不足，设置RRPP协议报文上送CPU规则失败。	Failed to set the protocol packet control rule due to insufficient system resources. 系统资源不足，设置RRPP协议报文上送CPU规则失败。
Can't configure an active ring. 已激活的环不能修改。	Can't configure an active ring. 已激活的环不能修改。
Can't delete an active ring. 已激活的环不能删除。	Can't delete an active ring. 已激活的环不能删除。
Primary ring's node must be created before subring's edge/assistant-edge node. 在配置边缘节点或辅助边缘节点前，请先配置主环的节点。	Primary ring's node must be created before subring's edge/assistant-edge node. 配置边缘节点或辅助边缘节点前未配置主环的节点。
The device has been specified as the master node or a transit node of another ring in the same domain. 在同一个域内，本节点已配置为其他环的主节点或传输节点。	The device has been specified as the master node or a transit node of another ring in the same domain. 在同一个域内，本节点已配置为其他环的主节点或传输节点。
Can't delete a primary ring before deleting all its subrings. 请先删除子环，再删除主环。	Can't delete a primary ring before deleting all its subrings. 请先删除子环，再删除主环。
Please configure a control VLAN before creating a ring for the RRPP domain. 域内未配置控制VLAN，无法创建环。	Please first configure a control VLAN for the RRPP domain. 域内未配置控制VLAN，无法创建环。
Please configure an MSTI ID before creating a ring for the RRPP domain. 域内未配置MSTI编号，无法创建环。	Please first configure a protected VLAN for the RRPP domain. 域内未配置MSTI编号，无法创建环。
Can't modify the RRPP ring node role. 不能修改节点角色。	Can't modify the RRPP ring node role. 不能修改节点角色。
Can't modify the RRPP ring level. 不能修改环级别。	Can't modify the RRPP ring level. 不能修改环级别。
Can't modify the primary port of the RRPP ring node. 不能修改主端口。	Can't modify the primary port of the RRPP ring node. 不能修改主端口。
Can't modify the secondary port of the RRPP ring node. 不能修改副端口。	Can't modify the secondary port of the RRPP ring node. 不能修改副端口。

Can't modify the edge port of the RRPP ring node. 不能修改边缘端口。	Can't modify the edge port of the RRPP ring node. 不能修改边缘端口。
Primary port and secondary port can't be the same port. 主端口和副端口不能为同一端口。	Primary port and secondary port can't be the same port. 主端口和副端口不能为同一端口。
In an RRPP domain, a port can belong to only one ring. 一个域内同一端口不能属于多个环。	In an RRPP domain, a port other than the common port can belong to only one ring. 在一个域内同一端口属于多个环。
RRPP ports must be trunk ports. 配置RRPP的端口必须为Trunk类型。	RRPP ports must be trunk ports. 配置RRPP的端口必须为Trunk类型。
Failed to add the primary port to the primary control VLAN. 主端口加入控制VLAN失败。	Failed to add the primary port to the primary control VLAN. 主端口加入控制VLAN失败。
Failed to add the primary port to the secondary control VLAN. 主端口加入子控制VLAN失败。	Failed to add the primary port to the secondary control VLAN. 主端口加入子控制VLAN失败。
Failed to add the secondary port to the primary control VLAN. 副端口加入控制VLAN失败。	Failed to add the secondary port to the primary control VLAN. 副端口加入控制VLAN失败。
Failed to add the secondary/edge port to the secondary control VLAN. 副端口加入子控制VLAN失败。	Failed to add the secondary/edge port to the secondary control VLAN. 副端口加入子控制VLAN失败。
The port is a Smart Link, STP, LPDT, or ERPS port. Smart Link、STP、LPDT或者ERPS端口不能配置为RRPP端口。	The port is a Smart Link, STP, LPDT, or ERPS port. Smart Link、STP、LPDT或者ERPS端口不能配置为RRPP端口。
Please complete the columns. The column { Enable } and { NodeRole, PrimaryPort, SecondaryPort, EdgePort , Level } cannot be configured at the same time. 请配置列，其中环节点信息{节点角色，主端口，副端口，边缘端口，环级别}与环使能不能同时配置。	Please complete the columns. The column { Enable } and { NodeRole, PrimaryPort, SecondaryPort, Level } cannot be configured at the same time. 请配置列，其中环节点信息{节点角色，主端口，副端口，边缘端口，环级别}与环使能不能同时配置。
Please configure the columns: "NodeRole {master|transit} [PrimaryPort] [SecondaryPort] Level " or "NodeRole {assistant-edge|edge} [EdgePort]". 当节点角色配置为主节点或传输节点时，必须同时配置环级别，可同时配置主端口、副端口；当节点角色配置为边缘节点或辅助边缘节点时，可同时配置边缘端口。	Please configure the columns like: "NodeRole {master|transit} [PrimaryPort] [SecondaryPort] Level " or "NodeRole {assistant-edge|edge}". 当节点角色配置为主节点或传输节点时，必须同时配置环级别，可同时配置主端口、副端口；当节点角色配置为边缘节点或辅助边缘节点时，可同时配置边缘端口。

To delete the ring node, please configure all the columns { NodeRole, PrimaryPort, SecondaryPort, EdgePort, Level }. 删除环节点时，请配置环节点的全部列{节点角色，主端口，副端口，边缘端口，环级别}。	To delete the ring node, please configure all the columns { NodeRole, PrimaryPort, SecondaryPort, Level }. 删除环节点时，请配置环节点的全部列{节点角色，主端口，副端口，边缘端口，环级别}。
Failed to delete the primary, secondary or edge port of the RRPP ring node. 删除端口失败。	Failed to delete the primary, secondary or edge port of the RRPP ring node. 删除端口失败。

RRPP/RingGroups/Couples

Message	**Explanation**
The end ring ID is less than the start ring ID. 向环组中添加环时，环ID的结束值应大于等于开始值。	The end ring ID is less than the start ring ID. 向环组中添加环时，环ID的结束值应大于等于开始值。
Configuration failed. The ring must exist and belong to only one ring group, and the node role (edge/assistant-edge) of rings in a ring group must be the same. 向环组中添加环失败，一个子环只能属于一个环组，且一个环组内所有子环的节点角色类型必须相同。	Configuration failed. The ring must exist and belong to only one ring group, and the node role (edge/assistant-edge) of rings in a ring group must be the same. 向环组中添加环失败，一个子环只能属于一个环组，且一个环组内所有子环的节点角色类型必须相同。
Fail to add the ring to the ring group because the domain doesn't exist. 在环组中加环前，请先配置域。	Fail to add the ring to the ring group because the domain doesn't exist. 在环组中加环前，请先配置域。
Please configure all Couple columns. 请配置couple列的信息。	Please configure all Couple columns. 请配置couple列的信息。

Contents

RSVP 1
RSVP/Base 1
XML structure 1
Table description 1
Columns 1
RSVP/Base/Authentication 2
XML structure 2
Table description 2
Columns 3
RSVP/Peers 3
XML structure 3
Table description 3
Columns 4
RSVP/Peers/Peer/Authentication 4
XML structure 4
Table description 4
Columns 5
RSVP/Interfaces 5
XML structure 5
Table description 5
Columns 6
RSVP/Interfaces/Interface/Authentication 6
XML structure 6
Table description 7
Columns 7
RSVP/Interfaces/Interface/Reduction 7
XML structure 8
Table description 8
Columns 8
RSVP/HelloSessions 8
XML structure 9
Table description 9
Columns 9

RSVP

RSVP/Base

This table contains RSVP Base information.

XML structure

```
<RSVP>
  <Base>
    <Enable></Enable>
    <Dscp></Dscp>
    <GracefulRestart></GracefulRestart>
    <KeepMultiplier></KeepMultiplier>
    <RefreshInterval></RefreshInterval>
    <HelloInterval></HelloInterval>
    <LostTimes></LostTimes>
    <Authentication></Authentication>
  </Base>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable rsvp.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
Dscp	The DSCP value for RSVP packets.	N/A	Unsigned short. Value range: 0 to 63. Default:48.	N/A
GracefulRestart	RSVP graceful restart.	N/A	Boolean: • **true**—Enabled.	N/A

			• **false—**Disabled(default).	
KeepMultiplier	Specifies the PSB and RSB timeout multiplier.	N/A	Unsigned char. Value range:3 to 255. Default:3.	N/A
RefreshInterval	Set the refresh interval for Path and Resv messages.	N/A	Unsigned int. Value range:10 to 65535. Default:30.	N/A
HelloInterval	Specifies the interval at which RSVP sends hello requests.	N/A	Unsigned char. Value range:1 to 60s. Default:5s.	N/A
LostTimes	set the maximum number of consecutive lost or erroneous hellos.	N/A	Unsigned char. Value range:3 to 10. Default:4.	N/A
Authentication	The Authentication for RSVP SA.	Subtable	N/A	N/A

RSVP/Base/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Base>
    <Authentication>
      <Challenge></Challenge>
      <PlainPassword></PlainPassword>
      <CipherPassword></CipherPassword>
      <LifeTime></LifeTime>
      <WindowSize></WindowSize>
    </Authentication>
  </Base>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table

Row name	None
Restrictions	Applicable to only RSVP view.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.** • **false (default).**	N/A
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the global idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s. Default:1800s.	N/A
WindowSize	Set the global RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64. Default:1.	N/A

RSVP/Peers

This table contains RSVP Peer information.

XML structure

```
<RSVP>
  <Peers>
    <Peer>
      <PeerAddress></PeerAddress>
      <Authentication></Authentication>
    </Peer>
  </Peers>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Peers
Table type	Multi-instance table

Row name	Peer
Restrictions	Applicable to only when RSVP service is starting.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddress	PeerAddress.	Index	String, dotted decimal notation.	N/A
Authentication	The Authentication for RSVP SA.	Subtable	N/A	N/A

RSVP/Peers/Peer/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Peers>
    <Peer>
      <Authentication>
        <Challenge></Challenge>
        <PlainPassword></PlainPassword>
        <CipherPassword></CipherPassword>
        <LifeTime></LifeTime>
        <WindowSize></WindowSize>
      </Authentication>
    </Peer>
  </Peers>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only RSVP neighbor view.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.** • **false (default).**	N/A
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the peer idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s. Default:1800s.	N/A
WindowSize	Set the peer RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64. Default:1.	N/A

RSVP/Interfaces

This table contains RSVP Interfaces information.

XML structure

```
<RSVP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <RsvpEnable></RsvpEnable>
      <RsvpHello></RsvpHello>
      <BfdEnable></BfdEnable>
      <Authentication></Authentication>
      <Reduction></Reduction>
    </Interface>
  </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	Applicable to only when RSVP service is starting.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
RsvpEnable	Enable RSVP in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
RsvpHello	Enabel Hello in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
BfdEnable	Enabel RSVP BFD in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
Authentication	The Authentication for RSVP SA in specify interface.	Subtable	N/A	N/A
Reduction	Summary refresh and reliable RSVP message delivery.	Subtable	N/A	N/A

RSVP/Interfaces/Interface/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Interfaces>
    <Interface>
      <Authentication>
        <Challenge></Challenge>
```

```
      <PlainPassword></PlainPassword>
      <CipherPassword></CipherPassword>
      <LifeTime></LifeTime>
      <WindowSize></WindowSize>
    </Authentication>
  </Interface>
 </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only RSVP interface view.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.** • **false (default).**	N/A
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the interface idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s. Default:1800s.	N/A
WindowSize	Set the interface RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64. Default:1.	N/A

RSVP/Interfaces/Interface/Reduction

This table contains Summary Refresh information on interfaces.

XML structure

```
<RSVP>
  <Interfaces>
    <Interface>
      <Reduction>
        <Srefresh></Srefresh>
        <RetransmitIncrement></RetransmitIncrement>
        <RetransmitInterval></RetransmitInterval>
      </Reduction>
    </Interface>
  </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Reduction
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only when RSVP service is starting.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Srefresh	Summary refresh and reliable RSVP message delivery.	N/A	Enumeration: • 0—Default policy(default). • 1—Srefresh. • 2—Srefresh reliability.	N/A
RetransmitIncrement	Set the RSVP message retransmission increment value.	N/A	Unsigned char. Value range:1 to 10. Default:1.	N/A
RetransmitInterval	Set the RSVP message retransmission interval.	N/A	Unsigned short. Value range:500 to 3000ms. Default:500ms.	N/A

RSVP/HelloSessions

This table contains RSVP Hello information.

XML structure

```
<RSVP>
  <HelloSessions>
    <HelloSession>
      <Peer></Peer>
    </HelloSession>
  </HelloSessions>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	HelloSessions
Table type	Multi-instance table
Row name	HelloSession
Restrictions	Applicable to only RSVP view.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Peer	To establish an RSVP hello neighbor relationship.	Index	String, dotted decimal notation. Lsr-ID.	you must configure this command on both the local and peer devices.

Contents

RSVP 1
RSVP/Base 1
XML structure 1
Table description 1
Columns 1
RSVP/Base/Authentication 2
XML structure 2
Table description 2
Columns 3
RSVP/Peers 3
XML structure 3
Table description 3
Columns 4
RSVP/Peers/Peer/Authentication 4
XML structure 4
Table description 4
Columns 4
RSVP/Interfaces 5
XML structure 5
Table description 5
Columns 6
RSVP/Interfaces/Interface/Authentication 6
XML structure 6
Table description 7
Columns 7
RSVP/Interfaces/Interface/Reduction 7
XML structure 7
Table description 8
Columns 8
RSVP/HelloSessions 8
XML structure 8
Table description 9
Columns 9

RSVP

RSVP/Base

This table contains RSVP Base information.

XML structure

```
<RSVP>
  <Base>
    <Enable></Enable>
    <Dscp></Dscp>
    <GracefulRestart></GracefulRestart>
    <KeepMultiplier></KeepMultiplier>
    <RefreshInterval></RefreshInterval>
    <HelloInterval></HelloInterval>
    <LostTimes></LostTimes>
    <Authentication></Authentication>
  </Base>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable rsvp.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Dscp	The DSCP value for RSVP packets.	N/A	Unsigned short. Value range: 0 to 63.	N/A
GracefulRestart	RSVP graceful restart.	N/A	Boolean: • **true**—Enabled. • **false—**Disabled.	N/A

KeepMultiplier	Specifies the PSB and RSB timeout multiplier.	N/A	Unsigned char. Value range:3 to 255.	N/A
RefreshInterval	Set the refresh interval for Path and Resv messages.	N/A	Unsigned int. Value range:10 to 65535.	N/A
HelloInterval	Specifies the interval at which RSVP sends hello requests.	N/A	Unsigned char. Value range:1 to 60s.	N/A
LostTimes	set the maximum number of consecutive lost or erroneous hellos.	N/A	Unsigned char. Value range:3 to 10.	N/A
Authentication	The Authentication for RSVP SA.	Subtable	N/A	N/A

RSVP/Base/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Base>
    <Authentication>
      <Challenge></Challenge>
      <PlainPassword></PlainPassword>
      <CipherPassword></CipherPassword>
      <LifeTime></LifeTime>
      <WindowSize></WindowSize>
    </Authentication>
  </Base>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table
Row name	None

Restrictions	Applicable to only RSVP view.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.** • **false.**	N/A
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the global idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s. Default:1800s.	N/A
WindowSize	Set the global RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64. Default:1.	N/A

RSVP/Peers

This table contains RSVP Peer information.

XML structure

```
<RSVP>
  <Peers>
    <Peer>
      <PeerAddress></PeerAddress>
      <Authentication></Authentication>
    </Peer>
  </Peers>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	Applicable to only when RSVP service is starting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddress	PeerAddress.	Index	String, dotted decimal notation.	N/A
Authentication	The Authentication for RSVP SA.	Subtable	N/A	N/A

RSVP/Peers/Peer/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Peers>
    <Peer>
      <Authentication>
        <Challenge></Challenge>
        <PlainPassword></PlainPassword>
        <CipherPassword></CipherPassword>
        <LifeTime></LifeTime>
        <WindowSize></WindowSize>
      </Authentication>
    </Peer>
  </Peers>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only RSVP neighbor view.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.**	N/A

			• **false.**	
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the peer idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s.	N/A
WindowSize	Set the peer RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64.	N/A

RSVP/Interfaces

This table contains RSVP Interfaces information.

XML structure

```
<RSVP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <RsvpEnable></RsvpEnable>
      <RsvpHello></RsvpHello>
      <BfdEnable></BfdEnable>
      <Authentication></Authentication>
      <Reduction></Reduction>
    </Interface>
  </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only when RSVP service is starting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
RsvpEnable	Enable RSVP in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
RsvpHello	Enabel Hello in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
BfdEnable	Enabel RSVP BFD in specify interface.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Authentication	The Authentication for RSVP SA in specify interface.	Subtable	N/A	N/A
Reduction	Summary refresh and reliable RSVP message delivery.	Subtable	N/A	N/A

RSVP/Interfaces/Interface/Authentication

This table contains RSVP Authentication information.

XML structure

```
<RSVP>
  <Interfaces>
    <Interface>
      <Authentication>
        <Challenge></Challenge>
        <PlainPassword></PlainPassword>
        <CipherPassword></CipherPassword>
```

```
      <LifeTime></LifeTime>
      <WindowSize></WindowSize>
    </Authentication>
  </Interface>
 </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Authentication
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only RSVP interface view.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Challenge	AuthenticationChallenge.	N/A	Boolean: • **true.** • **false.**	N/A
PlainPassword	Plaintext password string.	N/A	String. Length:1 to 16characters.	N/A
CipherPassword	Cipherpassword string.	N/A	String. Length:1 to 53characters.	N/A
LifeTime	Set the interface idle timeout for RSVP security associations.	N/A	Unsigned integer. Value range:30 to 86400s.	N/A
WindowSize	Set the interface RSVP authentication window size.	N/A	Unsigned char. Value range:1 to 64.	N/A

RSVP/Interfaces/Interface/Reduction

This table contains Summary Refresh information on interfaces.

XML structure

```
<RSVP>
 <Interfaces>
  <Interface>
```

```
      <Reduction>
        <Srefresh></Srefresh>
        <RetransmitIncrement></RetransmitIncrement>
        <RetransmitInterval></RetransmitInterval>
      </Reduction>
    </Interface>
  </Interfaces>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	Reduction
Table type	Single-instance table
Row name	None
Restrictions	Applicable to only when RSVP service is starting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Srefresh	Summary refresh and reliable RSVP message delivery.	N/A	Enumeration: • 0—Default policy. • 1—Srefresh. • 2—Srefresh reliability.	N/A
RetransmitIncrement	Set the RSVP message retransmission increment value.	N/A	Unsigned char. Value range:1 to 10.	N/A
RetransmitInterval	Set the RSVP message retransmission interval.	N/A	Unsigned short. Value range:500 to 3000ms.	N/A

RSVP/HelloSessions

This table contains RSVP Hello information.

XML structure

```
<RSVP>
  <HelloSessions>
    <HelloSession>
```

```
      <Peer></Peer>
    </HelloSession>
  </HelloSessions>
</RSVP>
```

Table description

Item	Description
Feature name	RSVP
Table name	HelloSessions
Table type	Multi-instance table
Row name	HelloSession
Restrictions	Applicable to only RSVP view.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Peer	To establish an RSVP hello neighbor relationship.	Index	String, dotted decimal notation. Lsr-ID.	you must configure this command on both the local and peer devices.

Contents

SaaS ····· 1
SaaS/Base ····· 1
XML structure ····· 1
Table description ····· 1
Columns ····· 1
SaaS/Base/DirectInterfaces ····· 2
XML structure ····· 2
Table description ····· 2
Columns ····· 2
SaaS/Instances ····· 3
XML structure ····· 3
Table description ····· 4
Columns ····· 4
SaaS/Instances/Urls ····· 5
XML structure ····· 5
Table description ····· 5
Columns ····· 6
SaaS/Instances/AccessVpns ····· 6
XML structure ····· 6
Table description ····· 6
Columns ····· 7

SaaS

SaaS/Base

This table contains Base configuration parameters.

XML structure

```
<SaaS>
  <Base>
    <Enable></Enable>
    <NodeType></NodeType>
    <DirectInterfaces>
      <DirectInterface>
        <IfName></IfName>
      </DirectInterface>
    </DirectInterfaces>
  </Base>
</SaaS>
```

Table description

Item	Description
Feature name	SaaS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of SaaS	N/A	Boolean: • true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false	
NodeType	Device cloud service type	N/A	Enumeration: • 1-client. • 2-gateway. • 3-client allow-direct-access.	N/A
DirectInterfaces	Direct Interface	sublist	The details of the sublist refer to Saas/DirectInterfaces	N/A

SaaS/Base/DirectInterfaces

This table contains DirectInterfaces configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Base
```

Table description

Item	Description
Feature name	SaaS
Table name	DirectInterfaces
Table type	Multi-instance table
Row name	DirectInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface		Length: 2 to 47 characters. Example: • GigabitEthernet2/0/2	

SaaS/Instances

This table contains Instance configuration parameters.

XML structure

```
<SaaS>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <HealthUrl></HealthUrl>
      <ExpectQuality>
        <Jitter></Jitter>
        <Delay></Delay>
        <Loss></Loss>
      </ExpectQuality>
      <CqiWeight>
        <Jitter></Jitter>
        <Delay></Delay>
        <Loss></Loss>
      </CqiWeight>
      <Urls>
        <Url>
          <Url></Url>
        </Url>
      </Urls>
      <AccessVpns>
        <AccessVpn>
          <VpnType></VpnType>
          <Vpn></Vpn>
        </AccessVpn>
      </AccessVpns>
    </Instance>
  </Instances>
</SaaS>
```

Table description

Item	Description
Feature name	SaaS
Table name	Instances
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of SaaS cloud service application	Index	String. Length: 1 to 63 characters	N/A
HealthUrl	Health Check URL	N/A	String. Length: 1 to 63 characters.	N/A
ExpectQuality	Cloud service expectations configured by users	Data structure	Members include: • Jitter. • Loss. • Delay.	N/A
Jitter	Jitter expect value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds. Default: 100	N/A
Loss	Packet loss expect value	N/A	Unsigned integer. Value range: 0 to 1000 in millesimals. Default: 100	N/A
Delay	Delay expect value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 10	
CqiWeight	Cloud service weights configured by users	Data structure	Members include: • Jitter. • Loss. • Delay.	N/A
Jitter	Jitter weight	N/A	Unsigned integer. Value range: 0 to 10. Default: 1	N/A
Loss	Loss weight	N/A	Unsigned integer. Value range: 0 to 10. Default: 1	N/A
Delay	Delay weight	N/A	Unsigned integer. Value range: 0 to 10. Default: 1	N/A
Urls	The url list	sublist	The details of the sublist refer to SaaS/Instances/Urls	N/A
AccessVpns	Vpn Name	sublist	The details of the sublist refer to SaaS/Instances/AccessVpns	N/A

SaaS/Instances/Urls

This table contains Urls configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Instance
```

Table description

Item	Description
Feature name	SaaS

Table name	Urls
Table type	Multi-instance table
Row name	Url
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	url	Index	String. Length: 1 to 63 characters	N/A

SaaS/Instances/AccessVpns

This table contains AccessVpns configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Instance/AccessVpns
```

Table description

Item	Description
Feature name	SaaS
Table name	AccessVpns
Table type	Multi-instance table
Row name	AccessVpn
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VpnType	Vpn Type	Index	Enumeration: • 1—public. • 2—private.	N/A
Vpn	VpnName	Index	String. Length: 1 to 31 characters.	N/A

Contents

SaaS 1
SaaS/Base 1
XML structure 1
Table description 1
Columns 1
SaaS/Base/DirectInterfaces 2
XML structure 2
Table description 2
Columns 2
SaaS/Instances 2
XML structure 2
Table description 5
Columns 5
SaaS/Instances/Urls 6
XML structure 6
Table description 6
Columns 7
SaaS/Instances/StaticIps 7
XML structure 7
Table description 7
Columns 7
SaaS/Instances/AccessVpns 7
XML structure 7
Table description 8
Columns 8
SaaS/Instances/LocalToSaaSQualities 8
XML structure 8
Table description 8
Columns 9
SaaS/Instances/GatewayToSaaSQualities 9
XML structure 9
Table description 9
Columns 9
SaaS/Instances/ClientToGatewayQualities 10
XML structure 10
Table description 10
Columns 10
SaaS/Instances/ClientToGatewayQualities/Qualities 11
XML structure 11
Table description 11
Columns 11
SaaS/Instances/FullPathCqis 11
XML structure 11
Table description 12
Columns 12
SaaS/Instances/DirectIfCqis 12
XML structure 12
Table description 12
Columns 13
SaaS/Instances/OptimalPaths 13
XML structure 13
Table description 13
Columns 13

SaaS

SaaS/Base

This table contains Base configuration parameters.

XML structure

```
<SaaS>
  <Base>
    <Enable></Enable>
    <NodeType></NodeType>
    <DirectInterfaces>
      <DirectInterface>
        <IfName></IfName>
      </DirectInterface>
    </DirectInterfaces>
  </Base>
</SaaS>
```

Table description

Item	Description
Feature name	SaaS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of SaaS	N/A	Boolean: • true • false	N/A
NodeType	Device cloud service type	N/A	Enumeration: • 1-client. • 2-gateway. • 3-client allow-direct-access.	N/A
DirectInterfaces	Direct Interface	sublist	The details of the sublist	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			refer to Saas/DirectInterfaces	

SaaS/Base/DirectInterfaces

This table contains DirectInterfaces configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Base.
```

Table description

Item	Description
Feature name	SaaS
Table name	DirectInterfaces
Table type	Multi-instance table
Row name	DirectInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

SaaS/Instances

This table contains Instance configuration parameters.

XML structure

```
<SaaS>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <Customize></Customize>
      <HealthUrl></HealthUrl>
```

```
<ExpectQuality>
  <Jitter></Jitter>
  <Delay></Delay>
  <Loss></Loss>
</ExpectQuality>
<CqiWeight>
  <Jitter></Jitter>
  <Delay></Delay>
  <Loss></Loss>
</CqiWeight>
<Urls>
  <Url>
    <Url></Url>
  </Url>
</Urls>
<StaticIps>
  <StaticIp>
    <IP></IP>
  </StaticIp>
</StaticIps>
<AccessVpns>
  <AccessVpn>
    <VpnType></VpnType>
    <Vpn></Vpn>
  </AccessVpn>
</AccessVpns>
<LocalToSaaSQualities>
  <LocalToSaaSQuality>
    <IfName></IfName>
    <Jitter></Jitter>
    <Delay></Delay>
    <Loss></Loss>
    <CQI></CQI>
  </LocalToSaaSQuality>
</LocalToSaaSQualities>
<GatewayToSaaSQualities>
  <GatewayToSaaSQuality>
    <GatewaySiteID></GatewaySiteID>
    <GatewayDeviceID></GatewayDeviceID>
    <GatewayIP></GatewayIP>
    <Jitter></Jitter>
    <Delay></Delay>
    <Loss></Loss>
    <CQI></CQI>
  </GatewayToSaaSQuality>
</GatewayToSaaSQualities>
<ClientToGatewayQualities>
  <ClientToGatewayQuality>
```

```
        <GatewaySiteID></GatewaySiteID>
        <GatewayDeviceID></GatewayDeviceID>
        <GatewayIP></GatewayIP>
        <Qualities>
          <Quality>
            <TunnelNO></TunnelNO>
            <DestIfID></DestIfID>
            <Jitter></Jitter>
            <Delay></Delay>
            <Loss></Loss>
            <CQI></CQI>
          </Quality>
        </Qualities>
      </ClientToGatewayQuality>
    </ClientToGatewayQualities>
    <FullPathCqis>
      <FullPathCqi>
        <CQI></CQI>
        <TunnelNO></TunnelNO>
        <DestSiteID></DestSiteID>
        <DestDeviceID></DestDeviceID>
        <DestIfID></DestIfID>
        <Color></Color>
      </FullPathCqi>
    </FullPathCqis>
    <DirectIfCqis>
      <DirectIfCqi>
        <CQI></CQI>
        <IfName></IfName>
        <Color></Color>
      </DirectIfCqi>
    </DirectIfCqis>
    <OptimalPaths>
      <OptimalPath>
        <Ip></Ip>
        <DirectIfName></DirectIfName>
        <TunnelNO></TunnelNO>
        <DestSiteID></DestSiteID>
        <DestDeviceID></DestDeviceID>
        <DestIfID> </DestIfID>
      </OptimalPath>
    </OptimalPaths>
  </Instance>
</Instances>
</SaaS>
```

Table description

Item	Description
Feature name	SaaS
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Name of SaaS cloud service application	Index	String. Length: 1 to 63 characters	N/A
Customize	Customize of of SaaS cloud service application	N/A	Boolean: • true • false	N/A
HealthUrl	Health Check URL	N/A	String. Length: 1 to 63 characters.	N/A
ExpectQuality	Cloud service expectations configured by users	Data structure	Members include: • Jitter. • Loss. • Delay.	N/A
Jitter	Jitter expect value	N/A	Unsigned integer. Value range: 10 to 60000 milliseconds.	N/A
Delay	Delay expect value	N/A	Unsigned integer. Value range: 0 to 3600000 milliseconds.	N/A
Loss	Packet loss expect value	N/A	Unsigned integer. Value range: 0 to 1000 in millesimals.	N/A
CqiWeight	Cloud service weights configured by users	Data structure	Members include: • Jitter. • Loss. • Delay.	N/A
Jitter	Jitter weight	N/A	Unsigned integer. Value range: 0 to 10.	N/A
Delay	Delay weight	N/A	Unsigned integer. Value range: 0 to 10.	N/A
Loss	Loss weight	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 10.	
Urls	The url list	sublist	The details of the sublist refer to SaaS/Instances/Urls	N/A
StaticIps	Static Ip	sublist	The details of the sublist refer to SaaS/Instances/StaticIps	N/A
AccessVpns	Vpn Name	sublist	The details of the sublist refer to SaaS/Instances/AccessVpns	N/A
LocalToSaaSQualities	Interface Quality	sublist	The details of the sublist refer to LocalToSaaSQualities	N/A
GatewayToSaaSQualities	Gateway Quality	sublist	The details of the sublist refer to GatewayToSaaSQualities	N/A
ClientToGatewayQualities	Sdwan Quality	sublist	The details of the sublist refer to ClientToGatewayQualities	N/A
FullPathCqis	FullPath Cqi	sublist	The details of the sublist refer to FullPathCqis	N/A
DirectIfCqis	Dia interface Cqi	sublist	The details of the sublist refer to DirectIfCqis	N/A
OptimalPaths	OptimalPath	sublist	The details of the sublist refer to OptimalPaths	N/A

SaaS/Instances/Urls

This table contains Urls configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	Urls
Table type	Multi-instance table
Row name	Url
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	url	Index	String. Length: 1 to 63 characters	N/A

SaaS/Instances/StaticIps

This table contains StaticIps configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	StaticIps
Table type	Multi-instance table
Row name	StaticIp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IP	Static Ip	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.

SaaS/Instances/AccessVpns

This table contains AccessVpns configuration parameters.

XML structure

```
Please refer to the XML Structure of SaaS/Instances/AccessVpns
```

Table description

Item	Description
Feature name	SaaS
Table name	AccessVpns
Table type	Multi-instance table
Row name	AccessVpn
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VpnType	Vpn Type	Index	Enumeration: • 1—public. • 2—private.	N/A
Vpn	VpnName	Index	String. Length: 1 to 31 characters.	N/A

SaaS/Instances/LocalToSaaSQualities

This table contains SaaS display Interface quality leading to cloud services

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	LocalToSaaSQualities
Table type	Multi-instance table
Row name	LocalToSaaSQuality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfName	Interface to cloud services	Index	String. Length: 1 to 31 characters.
Jitter	Jitter value.	N/A	Unsigned integer. milliseconds.
Delay	Delay value.	N/A	Unsigned integer. milliseconds.
Loss	Packets lost radio	N/A	Unsigned integer. millesimals.
CQI	quality to cloud services	N/A	Unsigned integer. Value range: 0 to 100

SaaS/Instances/GatewayToSaaSQualities

This table contains SaaS Sdwan to the quality information of cloud services.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	GatewayToSaaSQualities
Table type	Multi-instance table
Row name	GatewayToSaaSQuality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GatewaySiteID	Gateway SiteID	Index	Unsigned integer. Value range: 1 to 255.	N/A
GatewayDeviceID	Gateway DeviceID	Index	Unsigned integer. Value range: 1 to 255.	N/A
GatewayIP	Gateway device IP	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Jitter	Jitter value.	N/A	Unsigned integer. milliseconds.	N/A
Delay	Delay value.	N/A	Unsigned integer. milliseconds.	N/A
Loss	Packets lost radio	N/A	Unsigned integer. millesimals.	N/A
CQI	quality to cloud services	N/A	Unsigned integer. Value range: 0 to 100	N/A

SaaS/Instances/ClientToGatewayQualities

This table contains SaaS Gateway to the quality information of cloud services.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	ClientToGatewayQualities
Table type	Multi-instance table
Row name	ClientToGatewayQuality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GatewaySiteID	Gateway site ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
GatewayDeviceID	Gateway device ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
GatewayIP	Gateway device IP	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
Qualities	Tunnel quality	Sublist	The details of the sublist refer to Instances/ClientToGatewayQualities	N/A

SaaS/Instances/ClientToGatewayQualities/Qualities

This table contains SaaS Sdwan to the quality information of cloud services.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	Qualities
Table type	Multi-instance table
Row name	Quality
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNO	Local tunnel interface	Index	Unsigned integer.	N/A
DestIfID	Peer interface	Index	Unsigned integer.	N/A
Jitter	Jitter value.	N/A	Unsigned integer. milliseconds.	N/A
Delay	Delay value.	N/A	Unsigned integer. milliseconds.	N/A
Loss	Packets lost radio	N/A	Unsigned integer. millesimals.	N/A
CQI	quality to cloud services	N/A	Unsigned integer. Value range: 0 to 100	N/A

SaaS/Instances/FullPathCqis

This table display The result of leading to cloud services FullPathCqis

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	FullPathCqis
Table type	Multi-instance table
Row name	FullPathCqi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CQI	quality to cloud services	Index	Unsigned integer. Value range: 0 to 100	N/A
TunnelNO	Local tunnel interface	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DestSiteID	Peer siteID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DestDeviceID	Dest Device ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
DestIfID	DestIf ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Color	Cloud services quality color	N/A	Enumeration: • 1—Green. • 2—Yellow. • 3—Red,	N/A

SaaS/Instances/DirectIfCqis

This table display The result of leading to cloud services DirectIfCqis

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	DirectIfCqis

Table type	Multi-instance table
Row name	DirectIfCqi
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CQI	quality to cloud services	Index	Unsigned integer. Value range: 0 to 100	N/A
IfName	Dia interface	Index	String. Length: 1 to 31 characters.	N/A
Color	Cloud services quality color	N/A	Enumeration: • 1—Green. • 2—Yellow. • 3—Red,	N/A

SaaS/Instances/OptimalPaths

This table display IP corresponding to the best outgoing interface information.

XML structure

```
Please refer to the XML Structure of SaaS/Instances
```

Table description

Item	Description
Feature name	SaaS
Table name	OptimalPaths
Table type	Multi-instance table
Row name	OptimalPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ip	Device IP	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DirectIfName	DirectInterface	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
TunnelNO	Local tunnel interface	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DestSiteID	Dest siteID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DestDeviceID	Dest DeviceID	N/A	Unsigned integer. Value range: 1 to 255.	N/A
DestIfID	Dest interface	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Contents

SaaS 2
SaaS/Base/DirectInterfaces 2
SaaS/Instances 2
SaaS/Instances/Urls 2
SaaS/Instances/AccessVpns 3

SaaS

SaaS/Base/DirectInterfaces

Message	Explanation
Maximum number of direct interface already reached. 配置的SaaS应用直访接口数量超过上限。	Up to 10 SaaS application direct access interfaces can be configured. 最多可以配置10个SaaS应用直访接口。

SaaS/Instances

Message	Explanation
Invalid SaaS application instance name. SaaS应用实例名称不合法。	SaaS application instance name is a string of 1-63 characters, which cannot include "\", "", "?" and spaces. It is case sensitive. SaaS应用实例名称，为1～63字符的字符串，不能包括“\”、“"”、“?”和空格，区分大小写。
Invalid health-check URL. 健康监测URL不合法。	The health monitoring URL is a string of 1-63 characters, which cannot include "\", "", "?" and spaces. It is case sensitive. 健康监测URL，为1～63的字符的字符串，不能包括“\”、“"”、“?”和空格，区分大小写。
A health monitoring URL is already used in another instance. 健康监测URL，已经在其他实例上被使用。	The health monitoring URL can only be used for detection on one instance. 健康监测URL仅可以在一个实例上使用。
The current saas already exists in the customization file, configuration is not allowed. 不能修改定制SaaS应用的健康监测URL。	The health monitoring URL of custom SaaS application is configured by default and cannot be modified. 定制SaaS应用的健康监测URL由系统缺省配置，不可以被修改。
Delay,jitter and packet loss cannot be configured separately. 不能单独配置时延、时延抖动和丢包率	Delay,jitter and packet loss cannot be configured separately。It must be distributed in full or not. 不能单独配置时延、时延抖动和丢包率。必须全部下发或者不下发。
The number of uncustomized SaaS application instance reaches the upon limit. 创建的非定制SaaS应用实例个数达到上限。	Up to 100 non custom SaaS application instances can be created. 最多可以创建100个非定制SaaS应用实例。

SaaS/Instances/Urls

Message	Explanation
Invalid URL. URL不合法。	URL name is a string of 1-63 characters, which cannot include "\", "", "?" and spaces. It is case sensitive. 访问指定SaaS应用的URL，为1～63的字符的字符串，不能包括“\”、“"”、“?”和空格，区分大小写。
The current saas already exists in the	The URL to access the custom SaaS application is created by

customization file, configuration is not allowed. 定制SaaS应用实例下不能配置URL。	default and cannot be added, modified or deleted. 访问定制SaaS应用的URL由系统缺省创建，不可以被添加、修改或删除。
URL configuration limit exceeded. 超过了URL配置上限	Beyond the URL configuration limit, each non custom SaaS application instance can add up to 100 URLs. 每个非定制SaaS应用实例最多可以添加100个URL。

SaaS/Instances/AccessVpns

Message	Explanation
The number of VPN instance reaches the upon limit. 进行SaaS优化的VPN实例个数达到上限	Enter the VPN instance name up to 8 times. 输入vpn实例名称最多8次。
Private network VPN type, must issue VPN name. 私网vpn类型，必须下发vpn名称。	Private network VPN type, must issue VPN name. 私网vpn类型，必须下发vpn名称。
Public network VPN type, no need to issue VPN name. 公网vpn类型，不用下发vpn名称。	Public network VPN type, no need to issue VPN name. 公网vpn类型，不用下发vpn名称。
Invalid VPN. VPN不合法。	VPN name is a string of 1-31 characters, which cannot include "\", "", "?" and spaces. It is case sensitive. 访问指定SaaS应用的URL，为1～31的字符的字符串，不能包括“\”、“"”、“?”和空格，区分大小写。

Contents

SAMPLER 1
SAMPLER/Sampler 1
XML structure 1
Table description 1
Columns 1

SAMPLER

SAMPLER/Sampler

This table contains Sampler configuration information.

XML structure

```
<SAMPLER>
  <Sampler>
    <SamplerEntry>
      <SamplerName></SamplerName>
      <Mode></Mode>
      <PacketInterval></PacketInterval>
      <Npower></Npower>
    </SamplerEntry>
  </Sampler>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	Sampler
Table type	Multi-instance table
Row name	SamplerEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler Name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Mode	Sampler Mode	N/A	Enumeration: **1**—fixed **2**—random	The value of Mode depends on the device model.
PacketInterval	PacketInterval Rate	N/A	Unsigned integer. Value range: 0 to PacketIntervalMaxNum	The value of PacketIntervalMaxNum depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Npower	Whether the Npower is enabled.	N/A	Boolean: • true • false	N/A

Contents

SAMPLER 1
SAMPLER/Sampler 1
XML structure 1
Table description 1
Columns 1
SAMPLER/SamplerSpecification 2
XML structure 2
Table description 2
Columns 2

SAMPLER

SAMPLER/Sampler

This table contains Sampler information.

XML structure

```
<SAMPLER>
  <Sampler>
    <SamplerEntry>
      <SamplerName></SamplerName>
      <Mode></Mode>
      <PacketInterval></PacketInterval>
      <Npower></Npower>
    </SamplerEntry>
  </Sampler>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	Sampler
Table type	Multi-instance table
Row name	SamplerEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler Name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Mode	Sampler Mode	N/A	Enumeration: **1**—fixed **2**—random	N/A
PacketInterval	PacketInterval Rate	N/A	Unsigned integer. Value range: 0 to PacketIntervalMaxNum	The value of PacketIntervalMaxNum depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Npower	Whether the Npower is enabled.	N/A	Boolean: • true • false	N/A

SAMPLER/SamplerSpecification

This table contains Sampler specification information.

XML structure

```
<SAMPLER>
  <SamplerSpecification>
    <SupportFixedMode></SupportFixedMode>
    <SupportRandomMode></SupportRandomMode>
    <MaxPacketInterval></MaxPacketInterval>
    <MaxSamplerProfileNumber></MaxSamplerProfileNumber>
  </SamplerSpecification>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	SamplerSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportFixedMode	Whether the fixed mode is supported.	N/A	Boolean: • true • false	N/A
SupportRandomMode	Whether the random mode is supported.	N/A	Boolean: • true • false	N/A
MaxPacketInterval	Maximum sampling rate.	N/A	Unsigned integer.	The value of MaxPacketInterval varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxSamplerProfileNumber	Maximum number of samplers supported.	N/A	Unsigned integer.	N/A

Contents

Scheduler 1
Scheduler/SchedulerReboot 1
XML structure 1
Table description 1
Columns 1
Scheduler/SchedulerLogfile 2
XML structure 2
Table description 2
Columns 3
Scheduler/ScheduleOnces 3
XML structure 3
Table description 3
Columns 4

Scheduler

Scheduler/SchedulerReboot

This table is used to configure, modify, or delete reboot schedule settings.

XML structure

```
<Scheduler>
  <SchedulerReboot>
    <At>
      <Time></Time>
      <Date></Date>
    </At>
    <Delay></Delay>
    <Clear></Clear>
  </SchedulerReboot>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleReboot
Table type	Single-instance table
Row name	N/A
Restrictions	If you set the Operation column to **2**, other columns are not configurable. To set the Date column, you must also set the Time column. The Delay column is mutually exclusive with the Date and Time columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
At	Execution time	Data structure	Members include: • Time • Date	N/A
Time	Reboot time	N/A	String. Format: • HH:MM:SS	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59.

				• **SS**—0 to 59. If you set this column but do not set the Date column, the system uses the following rules to determine the reboot time: • If the reboot time is later than the current time, a reboot will occur at the reboot time of the current day. • If the reboot time is earlier than the current time, a reboot will occur at the reboot time the next day.
Date	Reboot date	N/A	String. Format: • MM/DD/YYYY • YYYY/MM/DD	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month. To set this column, you must also set the Time column.
Delay	Reboot delay time	N/A	String. Length: 1 to 6 characters. Format: • HH:MM • MM	The value can have up to six characters. When in the hh:mm format, mm must be in the range of 0 to 59.
Clear	Clear the system reboot time	N/A	N/A	This column must be empty.

Scheduler/SchedulerLogfile

This table is used to clear job execution log information.

XML structure

```
<Scheduler>
  <SchedulerLogfile>
    <Clear></Clear>
  </SchedulerLogfile>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler

Item	Description
Table name	SchedulerLogfile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears job execution log information	N/A	This column must be empty.

Scheduler/ScheduleOnces

This table is used to manage non-periodic schedules.

XML structure

```
<Scheduler>
  <ScheduleOnces>
    <ScheduleOnce>
      <ScheduleName></ScheduleName>
      <Operation></Operation>
      <Time></Time>
      <Once>
        <Date></Date>
        <MonthDay></MonthDay>
        <WeekDay></WeekDay>
      </Once>
      <Delay></Delay>
    </ScheduleOnce>
  </ScheduleOnces>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleOnces
Table type	Multi-instance table
Row name	ScheduleOnce
Restrictions	If you set the Operation column to **2**, you can set only the

Item	Description
	ScheduleName column. The Delay column is mutually exclusive with the Time, Date, MonthDay, and WeekDay columns. After you set the Time column, you can also set the Date, MonthDay, or WeekDay column. However, the Date, MonthDay, and WeekDay columns are mutually exclusive. If you set the Time and Date columns, make sure the specified time (date plus time) is later than the current system time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
Operation	Manages a job schedule	N/A	Enumeration: • **1**—Adds a job schedule. • **2**—Deletes a job schedule.	N/A
Time	Execution time	N/A	String. Format: HH:MM	Set this column to execute the schedule at the specified time. Value ranges: • **HH—**0 to 23. • **MM**—0 to 59.
Once	Execution date	Data structure	Members include: • Date • MonthDay • WeekDay	N/A
Date	Execution date	N/A	String. Format: • MM/DD/YYYY • YYYY/MM/DD	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month.
MonthDay	Execution day in the current month	N/A	Unsigned integer. Value range: 1 to 31.	If you specify a day that does not exist in the current month, the configuration takes effect on that day in the next month.
WeekDay	Week days	N/A	String. Format: *Week-day*&<1-7> *Week-day*: • **1**—Mon. • **2**—Tue. • **3**—Wed. • **4**—Thu. • **5**—Fri. • **6**—Sat.	You can specify a space-separated list of up to seven week days for the schedule. Example: “1 2 3 4 5 6 7”

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **7**—Sun.	
Delay	Delay time	N/A	String. Length: 1 to 6 characters. Format: • HH:MM • MM	Set this column to execute the schedule after the delay time elapses. The *mm* in the *hh:mm* format must be in the range of 0 to 59.

Contents

Scheduler 1

Scheduler/System 1
- XML structure 1
- Table description 1
- Columns 1

Scheduler/Jobs 1
- XML structure 1
- Table description 2
- Columns 2

Scheduler/Jobs/JobCommands 2
- XML structure 2
- Table description 2
- Columns 3

Scheduler/ScheduleJobs 3
- XML structure 3
- Table description 3
- Columns 4

Scheduler/ScheduleUserRoles 4
- XML structure 4
- Table description 4
- Columns 4

Scheduler/ScheduleRepeats 5
- XML structure 5
- Table description 5
- Columns 5

Scheduler/JobsAlt 6
- XML structure 6
- Table description 7
- Columns 7

Scheduler/JobCommandsAlt 7
- XML structure 7
- Table description 7
- Columns 8

Scheduler

Scheduler/System

This table contains the size setting for the job execution log file.

XML structure

```
<Scheduler>
  <System>
    <LogfileSize></LogfileSize>
  </System>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogfileSize	Job execution log file size in KB	N/A	Unsigned integer. Value range: 16 to 1024.	The default value is 16 KB.

Scheduler/Jobs

This table contains information about jobs.

XML structure

```
<Scheduler>
  <Jobs>
    <Job>
      <JobName></JobName>
      <JobCommands>
```

```
        <JobCommand>
          <CommandId></CommandId>
          <Command></Command>
        </JobCommand>
      </JobCommands>
    </Job>
  </Jobs>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	Jobs
Table type	Multi-instance table
Row name	Job
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A
JobCommands	Job commands	Subtable	N/A	For more information, see the Scheduler/Jobs table.

Scheduler/Jobs/JobCommands

This table contains information about job commands.

XML structure

Please refer to the XML structure of Scheduler/Jobs.

Table description

Item	Description
Feature name	Scheduler
Table name	JobCommands
Table type	Multi-instance table
Row name	JobCommand

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CommandId	Command ID	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Command	Command line	N/A	String. Length: 1 to 512 characters.	Make sure all commands in a job are compliant to the command syntax.

Scheduler/ScheduleJobs

This table contains information about job schedules.

XML structure

```
<Scheduler>
  <ScheduleJobs>
    <ScheduleJob>
      <ScheduleName></ScheduleName>
      <JobName></JobName>
    </ScheduleJob>
  </ScheduleJobs>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleJobs
Table type	Multi-instance table
Row name	ScheduleJob
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.
JobName	Job name	Index	String. Length: 1 to 47 characters.

Scheduler/ScheduleUserRoles

This table contains user role settings for the job schedules.

XML structure

```
<Scheduler>
  <ScheduleUserRoles>
    <ScheduleUserRole>
      <ScheduleName></ScheduleName>
      <UserName></UserName>
    </ScheduleUserRole>
  </ScheduleUserRoles>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleUserRoles
Table type	Multi-instance table
Row name	ScheduleUserRole
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
UserName	User roles for the schedule	N/A	String. Length: 1 to 63 characters.	A schedule can have a maximum of 64 user roles.

Scheduler/ScheduleRepeats

This table contains settings for periodic schedules.

XML structure

```
<Scheduler>
  <ScheduleRepeats>
    <ScheduleRepeat>
      <ScheduleName></ScheduleName>
      <Time></Time>
      <Date></Date>
      <Period>
        <Interval></Interval>
        <MonthDay></MonthDay>
        <WeekDay></WeekDay>
      </Period>
    </ScheduleRepeat>
  </ScheduleRepeats>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleRepeats
Table type	Multi-instance table
Row name	ScheduleRepeat
Restrictions	The Interval, MonthDay, and WeekDay columns are mutually exclusive. To execute the schedule at intervals from now on, set only the Interval column. If you set the Time column together with the Interval column, the device will execute the schedule at the specified intervals from the specified time on. If you set the Time column together with the MonthDay and WeekDay column, the device will execute the schedule at the specified time on every specified day in a month or week.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	Execution time	N/A	String. Format: • HH:MM	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59.
Date	Execution date	N/A	String. Format: • MM/DD/YYYY • YYYY/MM/DD	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month. To set this column, you must also set the Time and Interval columns.
Period	Repeat cycle	Data structure	Members include: • Interval • MonthDay • WeekDay	N/A
Interval	Execution interval	N/A	String. Length: 1 to 6 characters. Format: • HH:MM • MM	The *mm* in the *hh*:*mm* format must be in the range of 0 to 59.
MonthDay	Execution day in a month	N/A	Unsigned integer. Value range: 0 to 31.	If you specify a day that does not exist in a month, the configuration takes effect on that day in the next month.
WeekDay	Week days	N/A	String. Format: *Week-day*&<1-7> *Week-day*: • **1**—Mon. • **2**—Tue. • **3**—Wed. • **4**—Thu. • **5**—Fri. • **6**—Sat. • **7**—Sun.	Specify a space-separated list of up to seven week days for the schedule. Example: “1 2 3 4 5 6 7”

Scheduler/JobsAlt

This table contains alternative information about jobs.

XML structure

```
<Scheduler>
  <JobsAlt>
    <Job>
      <JobName></JobName>
    </Job>
```

```
  </JobsAlt>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	JobsAlt
Table type	Multi-instance table
Row name	Job
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A

Scheduler/JobCommandsAlt

This table contains alternative information about jobs' commands.

XML structure

```
<Scheduler>
  <JobCommandsAlt>
    <JobCommand>
      <JobName></JobName>
      <CommandId></CommandId>
      <Command></Command>
    </JobCommand>
  </JobCommandsAlt>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	JobCommnadsAlt
Table type	Multi-instance table
Row name	JobCommand

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A
CommandId	Command ID	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Command	Command line	N/A	String. Length: 1 to 512 characters.	Make sure all commands in a job are compliant to the command syntax.

Contents

Scheduler 1

Scheduler/System 1
- XML structure 1
- Table description 1
- Columns 1

Scheduler/Jobs 1
- XML structure 1
- Table description 2
- Columns 2

Scheduler/Jobs/JobCommands 2
- XML structure 2
- Table description 2
- Columns 3

Scheduler/ScheduleJobs 3
- XML structure 3
- Table description 3
- Columns 3

Scheduler/ScheduleUserRoles 4
- XML structure 4
- Table description 4
- Columns 4

Scheduler/ScheduleRepeats 4
- XML structure 4
- Table description 5
- Columns 5

Scheduler/ScheduleInfos 6
- XML structure 6
- Table description 6
- Columns 7

Scheduler/SchedulerReboot 8
- XML structure 8
- Table description 8
- Columns 8

Scheduler/ScheduleOnces 9
- XML structure 9
- Table description 9
- Columns 10

Scheduler/JobsAlt 10
- XML structure 10
- Table description 11
- Columns 11

Scheduler/JobCommandsAlt 11
- XML structure 11
- Table description 11
- Columns 12

Scheduler

Scheduler/System

This table contains the size setting for the job execution log file.

XML structure

```
<Scheduler>
  <System>
    <LogfileSize></LogfileSize>
  </System>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogfileSize	Job execution log file size in KB	N/A	Unsigned integer. Value range: 16 to 1024.	The default value is 16 KB.

Scheduler/Jobs

This table contains information about jobs.

XML structure

```
<Scheduler>
  <Jobs>
    <Job>
      <JobName></JobName>
      <JobCommands>
        <JobCommand>
```

```
            <CommandId></CommandId>
            <Command></Command>
          </JobCommand>
        </JobCommands>
      </Job>
    </Jobs>
  </Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	Jobs
Table type	Multi-instance table
Row name	Job
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A
JobCommands	Job commands	Subtable	N/A	For more information, see the Scheduler/Jobs table.

Scheduler/Jobs/JobCommands

This table contains information about job commands.

XML structure

Please refer to the XML structure of Scheduler/Jobs.

Table description

Item	Description
Feature name	Scheduler
Table name	JobCommands
Table type	Multi-instance table
Row name	JobCommand
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CommandId	Command ID	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Command	Command line	N/A	String. Length: 1 to 512 characters.	Make sure all commands in a job are compliant to the command syntax.

Scheduler/ScheduleJobs

This table contains information about job schedules.

XML structure

```
<Scheduler>
  <ScheduleJobs>
    <ScheduleJob>
      <ScheduleName></ScheduleName>
      <JobName></JobName>
    </ScheduleJob>
  </ScheduleJobs>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleJobs
Table type	Multi-instance table
Row name	ScheduleJob
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.
JobName	Job name	Index	String. Length: 1 to 47 characters.

Scheduler/ScheduleUserRoles

This table contains user role settings for the job schedules.

XML structure

```
<Scheduler>
  <ScheduleUserRoles>
    <ScheduleUserRole>
      <ScheduleName></ScheduleName>
      <UserName></UserName>
    </ScheduleUserRole>
  </ScheduleUserRoles>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleUserRoles
Table type	Multi-instance table
Row name	ScheduleUserRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
UserName	User roles for the schedule	Index	String. Length: 1 to 63 characters.	A schedule can have a maximum of 64 user roles.

Scheduler/ScheduleRepeats

This table contains settings for periodic schedules.

XML structure

```
<Scheduler>
  <ScheduleRepeats>
    <ScheduleRepeat>
      <ScheduleName></ScheduleName>
      <Time></Time>
```

```
      <Date></Date>
      <Period>
        <Interval></Interval>
        <MonthDay></MonthDay>
        <WeekDay></WeekDay>
      </Period>
    </ScheduleRepeat>
  </ScheduleRepeats>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleRepeats
Table type	Multi-instance table
Row name	ScheduleRpeat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
Time	Execution time	N/A	String. Format: • HH:MM	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59.
Date	Execution date	N/A	String. Format: • YYYY/MM/DD	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month
Period	Repeat cycle	Data structure	Members include: • Interval • MonthDay • WeekDay	N/A
Interval	Execution interval	N/A	String. Length: 1 to 6 characters. Format: • HH:MM • MM	The *mm* in the *hh*:*mm* format must be in the range of 0 to 59.
MonthDay	Day in a	N/A	Unsigned integer.	If the specified day does not exist in a month, the

Column name	Column description	Column type	Data type and restrictions	Remarks
	month		Value range: 0 to 31.	configuration takes effect on that day in the next month.
WeekDay	Week day	N/A	String. Format: *Week-day*&<1-7> *Week-day*: • **1**—Mon. • **2**—Tue. • **3**—Wed. • **4**—Thu. • **5**—Fri. • **6**—Sat. • **7—**Sun.	A space-separated list of up to seven week days. Example: “1 2 3 4 5 6 7”

Scheduler/ScheduleInfos

This table contains execution statistics for all schedules.

XML structure

```
<Scheduler>
  <ScheduleInfos>
    <ScheduleInfo>
      <ScheduleName></ScheduleName>
      <ScheduleType></ScheduleType>
      <StartTime></StartTime>
      <LastExecutionTime></LastExecutionTime>
      <LastCompletionTime></LastCompletionTime>
      <ExecutionCounts></ExecutionCounts>
      <Jobs>
        <JobName></JobName>
        <LastExecutionStatus></LastExecutionStatus>
      </Jobs>
    </ScheduleInfo>
  </ScheduleInfos>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleInfos
Table type	Multi-instance table
Row name	ScheduleInfo

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
ScheduleType	Execution time settings of the schedule	N/A	String. Length: 1 to 64 characters.	If no execution time is specified, this column is not displayed.
StartTime	Time when the schedule was executed or is to be executed for the first time	N/A	String. Length: 1 to 64 characters.	If no execution time is specified, this column is not displayed.
LastExecutionTime	Last time when the schedule was executed	N/A	String. Length: 1 to 64 characters.	If no execution time is specified, this column is not displayed. If the schedule has never been executed, this column displays **Yet to be executed**.
LastCompletionTime	Last time when the schedule was completed	N/A	String. Length: 1 to 64 characters.	If the schedule has never been executed, this column displays **Yet to be executed**.
ExecutionCounts	Number of times the schedule has been executed	N/A	Unsigned integer. Value range: 0 to 4294967295.	If the schedule has never been executed, the column displays **0**.
Jobs	Jobs in the schedule	Data Structure	Members include: • JobName • LastExecutionStatus	N/A
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A
LastExecutionStatus	Result of the most recent execution	N/A	String. Length: 1 to 32 characters.	Values: • **Successful**—The job has be successfully executed. • **Failed**—The job failed to be executed. • **Waiting**—The device is executing the schedule and the job is waiting to be executed.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• **In process**—The job is being executed. • **NA-**—The execution time has not arrived yet.

Scheduler/SchedulerReboot

This table contains information about the device reboot schedule.

XML structure

```
<Scheduler>
  <SchedulerReboot>
    <Time></Time>
    <Date></Date>
    <Remain></Remain>
  </SchedulerReboot>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	ScheduleReboot
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	Execution time	N/A	String. Format: • HH:MM:SS	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59. • **SS**—0 to 59. When the Date column is not specified, the system uses the following rules to determine the reboot time: • If the reboot time is later than the current time, a reboot will occur at the reboot

Column name	Column description	Column type	Data type and restrictions	Remarks
				time of the current day. • If the reboot time is earlier than the current time, a reboot will occur at the reboot time the next day.
Date	Execution date	N/A	String. Format: • MM/DD/YYYY	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month.
Remain	Remain time	N/A	String.	N/A

Scheduler/ScheduleOnces

This table contains settings for non-periodic schedules.

XML structure

```
<Scheduler>
  <ScheduleOnces>
    <ScheduleOnce>
      <ScheduleName></ScheduleName>
      <Time></Time>
      <Once>
        <Date></Date>
        <MonthDay></MonthDay>
        <WeekDay></WeekDay>
      </Once>
      <Delay></Delay>
    </ScheduleOnce>
  </ScheduleOnces>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	Schedules
Table type	Multi-instance table
Row name	Schedule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleName	Schedule name	Index	String. Length: 1 to 47 characters.	N/A
Time	Execution time	N/A	String. Format: • HH:MM	Value ranges: • **HH**—0 to 23. • **MM**—0 to 59.
Once	Execution date	Data structure	Members include: • Date • MonthDay • WeekDay	N/A
Date	Execution date	N/A	String. Format: • MM/DD/YYYY • YYYY/MM/DD	Value ranges: • **YYYY**—2000 to 2035. • **MM**—1 to 12. • **DD**—1 to the final day of the month.
MonthDay	Execution day in the month	N/A	Unsigned integer. Value range: 1 to 31.	If you the day does not exist in the month, the configuration takes effect on that day in the next month.
WeekDay	Week days	N/A	String. Format: *Week-day*&<1-7> • *Week-day*: • **1**—Mon. • **2**—Tue. • **3**—Wed. • **4**—Thu. • **5**—Fri. • **6**—Sat. • **7**—Sun.	A space-separated list of up to seven week days. Example: “1 2 3 4 5 6 7”
Delay	Delay time	N/A	String. Length: 1 to 6 characters. Format: • HH:MM • MM	N/A

Scheduler/JobsAlt

This table contains alternative information about jobs.

XML structure

```
<Scheduler>
  <JobsAlt>
```

```
    <Job>
      <JobName></JobName>
    </Job>
  </JobsAlt>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	JobsAlt
Table type	Multi-instance table
Row name	Job
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A

Scheduler/JobCommandsAlt

This table contains alternative information about jobs' commands.

XML structure

```
<Scheduler>
  <JobCommandsAlt>
    <JobCommand>
      <JobName></JobName>
      <CommandId></CommandId>
      <Command></Command>
    </JobCommand>
  </JobCommandsAlt>
</Scheduler>
```

Table description

Item	Description
Feature name	Scheduler
Table name	JobCommnadsAlt

Item	Description
Table type	Multi-instance table
Row name	JobCommand
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
JobName	Job name	Index	String. Length: 1 to 47 characters.	N/A
CommandId	Command ID	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
Command	Command line	N/A	String. Length: 1 to 512 characters.	Make sure all commands in a job are compliant to the command syntax.

Contents

SCM event stream 1
ProcessRestartEvent event 1
XML structure for event subscription 1
XML structure for event report 2

SCM event stream

ProcessRestartEvent event

This event is used to report process restart information.

XML structure for event subscription

```
<ProcessRestartEvent>
  <Process>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <ServiceName></ServiceName>
    <InstanceID></InstanceID>
  </Process>
</ProcessRestartEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SCM</stream>
    <filter type="subtree">
      <ProcessRestartEvent t xmlns="http://www.h3c.com/netconf/event:1.0/SCM:1.0">
        <Process>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
           <ServiceName>SYSLOG</ServiceName>
          <InstanceID>0</InstanceID>
        </Process>
      </ProcessRestartEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SCM
Event name	ProcessRestartEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/SCM:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A
ServiceName	The service name	String. Length: 1 to 64 characters.	No	N/A
InstanceID	Service instance ID	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<ProcessRestartEvent>
<Process>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
     <ServiceName></ServiceName>
     <InstanceID></InstanceID>
  </Process>
</ProcessRestartEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ProcessRestartEvent xmlns="http://www.h3c.com/netconf/event:1.0/SCM:1.0">
  <Process>
    <Chassis>0</Chassis>
    <Slot><1/Slot>
    <CPUID>0</CPUID>
     <ServiceName>SYSLOG</ServiceName>
     <InstanceID>0</InstanceID>
  </Process>
</ProcessRestartEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
ServiceName	The service name	String. Length: 1 to 64 characters.	N/A
InstanceID	Service instance ID	Unsigned integer. Value range: 0 to 65535.	N/A

Contents

SDWAN 1
SDWAN/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
SDWAN/SdwanServer 2
XML structure 2
Table description 2
Columns 3
SDWAN/SdwanClient 3
XML structure 3
Table description 3
Columns 4
SDWAN/ClientSetServers 4
XML structure 4
Table description 4
Columns 4
SDWAN/SslClientSetServers 5
XML structure 5
Table description 5
Columns 6
SDWAN/TunnelSdwanCfg 6
XML structure 6
Table description 7
Columns 7
SDWAN/SdwanExtensionCfg 9
XML structure 9
Table description 9
Columns 9
SDWAN/SdwanCollaborations 10
XML structure 10
Table description 10
Columns 10

SDWAN

SDWAN/GlobalConfig

This table contains SDWAN global configuration information.

XML structure

```
<SDWAN>
  <GlobalConfig>
    <SiteID></SiteID>
    <SiteName></SiteName>
    <DeviceID></DeviceID>
    <Role></Role>
    <SystemIPIfIndex></SystemIPIfIndex>
    <SystemIPFamily></SystemIPFamily>
    <EncapUDPPort></EncapUDPPort>
    <CollabAgingTime></CollabAgingTime>
  </GlobalConfig>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	GlobalConfig
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SiteID	Site ID	N/A	Unsigned integer. Value range:1 to 65535	Default:NULL
SiteName	Site name	N/A	String. Length: 1 to 255 characters. Case sensitive.	Default:NULL
DeviceID	Device ID	N/A	Unsigned integer. Value range:1 to 255	N/A
Role	Device role	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—None • **1**—CPE • **2**—RR • **3**—RR-CPE • **4**—NAT transfer • **5**—CPE-NAT transfer • **6**—RR-NAT transfer • **7**—RR-CPE-NAT transfer	
SystemIPIfIndex	Interface index used by system IP	N/A	Unsigned integer.	Need to use ifindex or ifname for loopback interface.
SystemIPFamily	Family of the system IP address	N/A	Enumeration: • IPv4. • IPv6.	N/A
EncapUDPPort	Port number used on SDWAN tunnel	N/A	Unsigned integer. Value range:1 to 65535	Default: 4799
CollabAgingTime	Aging time of SDWAN collaboration connection	N/A	Unsigned integer. Value range:0 to 300. Default: 180.	N/A

SDWAN/SdwanServer

This table contains SDWAN server information.

XML structure

```
<SDWAN>
  <SdwanServer>
    <SdwanTlsEnable></SdwanTlsEnable>
    <SdwanTlsPort></SdwanTlsPort>
    <SdwanServerPolicy></SdwanServerPolicy>
  </SdwanServer>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanServer
Table type	single-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SdwanTlsEnable	Indicates whether to enable SDWAN TLS connection	N/A	Boolean: • true—enable sdwan TLS connection • false—disable sdwan TLS connection	N/A
SdwanTlsPort	Port number used on SDWAN TLS connection	N/A	Unsigned integer. Value range:1 to 65535	Default:2004
SdwanServerPolicy	SSL server policy name	N/A	String, case sensitive. Length: 1 to 31 characters.	Default:NULL

SDWAN/SdwanClient

This table contains SDWAN client information.

XML structure

```
<SDWAN>
  <SdwanClient>
    <SdwanClientPolicy></SdwanClientPolicy>
  </SdwanClient>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanClient
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SdwanClient Policy	Name of client Policy from the connection of TLS with own config to decide how to forward user traffic	N/A	string. Length: 1 to 31 characters. Case sensitive	N/A.

SDWAN/ClientSetServers

This table contains SDWAN server parameters on an SDWAN client.

XML structure

```
<SDWAN>
  <ClientSetServers>
    <ClientSetServer>
      <SystemIP></SystemIP>
      <PublicIP></PublicIP>
      <PublicIPFamily></PublicIPFamily>
      <PublicPort></PublicPort>
      <VrfName></VrfName>
    </ClientSetServer>
  </ClientSetServers>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	ClientSetServers
Table type	Mutil-instance table
Row name	ClientSetServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	IPv4 address of an RR in the	Index	String.dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	RR cluster used to establish a TLS connection			Default:NULL
PublicIP	Public address of the TLS on the RR	Index	String.	IPv4 address. IPv6 address.
PublicIPFamily	Family of the TLS public address on the RR	Index	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
PublicPort	Port of the TLS on the RR	Index	Unsigned integer. Value range:1 to 65535.	. Default: 2004.
VrfName	VPN instance name	Index	String. Length: 1 to 31 characters. Case sensitive.	N/A

SDWAN/SslClientSetServers

This table contains SDWAN server parameters on an SDWAN client.

XML structure

```
<SDWAN>
  <SslClientSetServers>
    <SslClientSetServer>
      <SystemIP></SystemIP>
      <SystemIPFamily></SystemIPFamily>
      <PublicIP></PublicIP>
      <PublicIPFamily></PublicIPFamily>
      <PublicPort></PublicPort>
      <VrfName></VrfName>
    </SslClientSetServer>
  </SslClientSetServers>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SslClientSetServers
Table type	Mutil-instance table
Row name	SslClientSetServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	Address of an RR in the RR cluster used to establish a TLS connection	Index	String.	IPv4 address. IPv6 address.
SystemIPFamily	Family of the system IP address on the RR	Index	Enumeration: • IPv4. • IPv6.	N/A
PublicIP	Public address of the TLS on the RR	Index	String.	IPv4 address. IPv6 address.
PublicIPFamily	Family of the TLS public address on the RR	Index	Enumeration: • IPv4. • IPv6.	N/A
PublicPort	Port of the TLS on the RR	Index	Unsigned integer. Value range:1 to 65535.	Default: 2004.
VrfName	VPN instance name	Index	String. Length: 1 to 31 characters. Case sensitive.	N/A

SDWAN/TunnelSdwanCfg

This table contains SDWAN tunnel configuration information

XML structure

```
<SDWAN>
  <TunnelSdwanCfg>
    <TunnelSdwan>
      <TunnelID></TunnelID>
      <InterfaceID></InterfaceID>
      <RoutingDomain>
        <DomainName></DomainName>
        <DomainID></DomainID>
      </RoutingDomain>
      <TransportNetwork>
        <NetworkName></NetworkName>
        <NetworkID></NetworkID>
        <NetworkRestrict></NetworkRestrict>
      </TransportNetwork>
      <TunnelUDPPort></TunnelUDPPort>
      <TunnelUDPPortDynamic></TunnelUDPPortDynamic>
```

```
      <TunnelUDPPortDynamicTime></TunnelUDPPortDynamicTime>
      <NatPublicInfo>
        <PublicIP></PublicIP>
        <PublicPort></PublicPort>
      </NatPublicInfo>
      <Keepalive>
        <Interval></Interval>
        <RetryTime></RetryTime>
      </Keepalive>
      <BFD>
        <BFDEnable></BFDEnable>
        <Template></Template>
      </BFD>
      <CollDevIDList></CollDevIDList>
    </TunnelSdwan>
  </TunnelSdwanCfg>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	TunnelSdwanCfg
Table type	Multi-instance table
Row name	TunnelSdwan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
InterfaceID	Tunnel interface index	N/A	Unsigned integer. Value range:1 to 255	N/A
RoutingDomain	Routing domain parameters	Data Structure	Members include:. • DomainName. • DomainID.	N/A
DomainName	Routing domain name	N/A	String, case sensitive. Length: 1 to 31 characters.	Default:NULL
DomainID	Routing domain ID	N/A	Unsigned integer. Value range:1 to 65535	Default:NULL
TransportNetwork	Transport network attributes	Data Structure	Members include:. • NetworkName. • NetworkID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• NetworkRestrict.	
NetworkName	Transport network name	N/A	String, case sensitive. Length: 1 to 31 characters.	Default:NULL
NetworkID	Transport network ID	N/A	Unsigned integer. Value range:1 to 65535	Default:NULL
NetworkRestrict	Whether to allow only tunnel interfaces that are specified the same transport network ID to set up TTE connections	N/A	Boolean: • **true**—Allows only tunnel interfaces that are specified the same transport network ID to set up TTE connections. • **false**—Allows tunnel interfaces that are specified different transport network IDs to set up TTE connections.	Default:false
TunnelUDPPort	Port number used on SDWAN tunnel	N/A	Unsigned integer. Value range:1 to 65535	N/A
TunnelUDPPortDynamic	Enabling status of dynamic UDP port number allocation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.
TunnelUDPPortDynamicTime	Dynamic allocation timeout time	N/A	Unsigned integer. Value range: 30 to 1800 seconds. Default: 180 seconds.	N/A
NatPublicInfo	NAT public information	Data Structure	Members include:. • PublicIP • PublicPort	N/A
PublicIP	NAT public IP	N/A	String, dotted decimal notation.	Default:NULL
PublicPort	NAT public port	N/A	Unsigned integer. Value range:1 to 65535	Default:NULL
Keepalive	Keepalive parameters	Data structure	Members include: • Interval. • RetryTime.	N/A
Interval	Keepalive interval	N/A	Unsigned integer Value range: 1 to 32767 seconds Default: 10 seconds.	N/A
RetryTime	Maximum number of keepalive attempts.	N/A	Unsigned integer Value range: 1 to 255. Default: 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BFD	BFD settings	Data structure	Members include: • BFDEnable • Template	N/A
BFDEnable	Enable BFD for the SDWAN tunnel	N/A	Boolean: • **true**. • **false.**	N/A
Template	BFD template name	N/A	String, case sensitive. Length: 1 to 63 characters.	Default: NULL.
CollDevIDList	Collaboration device ID list	N/A	String.	A range of collaboration device IDs

SDWAN/SdwanExtensionCfg

This table contains SDWAN extension tunnel configuration information.

XML structure

```
<SDWAN>
  <SdwanExtensionCfg>
    <SdwanExtension>
      <TunnelID></TunnelID>
      <PeerDeviceID></PeerDeviceID>
      <PeerInterfaceID></PeerInterfaceID>
    </SdwanExtension>
  </SdwanExtensionCfg>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanExtensionCfg
Table type	Multi-instance table
Row name	SdwanExtension
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	TunnelID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerDeviceID	Device ID of collaboration device	N/A	Unsigned integer. Value range:1 to 255.	N/A
PeerInterfaceID	Tunnel interface ID of collaboration device	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SDWAN/SdwanCollaborations

This table contains SDWAN collaboration information.

XML structure

```
<SDWAN>
  <SdwanCollaborations>
    <SdwanCollaboration>
      <PeerDeviceID></PeerDeviceID>
      <PeerVRF></PeerVRF>
      <PeerIP></PeerIP>
      <PeerIPFamily></PeerIPFamily>
      <LocalIP></LocalIP>
      <LocalIPFamily></LocalIPFamily>
      <SyncPort></SyncPort>
    </SdwanCollaboration>
  </SdwanCollaborations>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanCollaborations
Table type	Multi-instance table
Row name	SdwanCollaboration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerDeviceID	Peer device ID	Index	Unsigned integer. Value range:1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerVRF	Peer VPN instance	N/A	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerIP	Peer IP address	N/A	String.	IPv4 address. IPv6 address.
PeerIPFamily	Family of the peer IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
LocalIP	Local IP address	N/A	String.	IPv4 address. IPv6 address.
LocalIPFamily	Family of the local IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
SyncPort	Synchronization port number	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A

Contents

SDWAN 1

SDWAN/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
SDWAN/SdwanServer 2
XML structure 2
Table description 2
Columns 3
SDWAN/SdwanClient 3
XML structure 3
Table description 3
Columns 4
SDWAN/ClientSetServers 4
XML structure 4
Table description 4
Columns 4
SDWAN/SslClientSetServers 5
XML structure 5
Table description 5
Columns 6
SDWAN/TunnelSdwanCfg 6
XML structure 6
Table description 7
Columns 7
SDWAN/SdwanExtensionCfg 9
XML structure 9
Table description 9
Columns 10
SDWAN/SdwanCollaborations 10
XML structure 10
Table description 10
Columns 11
SDWAN/SdwanPeerConnectionStatus 11
XML structure 11
Table description 11
Columns 12
SDWAN/SdwanSslPeerConnectionStatus 12
XML structure 12
Table description 13
Columns 13
SDWAN/SdwanCollabConnection 13
XML structure 13
Table description 14
Columns 14
SDWAN/SdwanSiteTte 16
XML structure 16
Table description 17
Columns 17
SDWAN/SdwanTteConnections 18
XML structure 18
Table description 19
Columns 19
SDWAN/SdwanCollaborationTteConns 20
XML structure 20
Table description 21
Columns 21

SDWAN/SdwanFlowStatistics 22
XML structure 22
Table description 23
Columns 23

SDWAN

SDWAN/GlobalConfig

This table contains SDWAN global configuration information.

XML structure

```
<SDWAN>
  <GlobalConfig>
    <SiteID></SiteID>
    <SiteName></SiteName>
    <DeviceID></DeviceID>
    <Role></Role>
    <SystemIPIfIndex></SystemIPIfIndex>
    <SystemIPFamily></SystemIPFamily>
    <EncapUDPPort></EncapUDPPort>
    <CollabAgingTime></CollabAgingTime>
  </GlobalConfig>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	GlobalConfig
Table type	single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SiteID	Site ID	N/A	Unsigned integer. Value range:1 to 65535	Default:NULL
SiteName	Site name	N/A	String. Length: 1 to 255 characters. Case sensitive.	Default:NULL
DeviceID	Device ID	N/A	Unsigned integer. Value range:1 to 255	N/A
Role	Device role	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—None • **1**—CPE • **2**—RR • **3**—RR-CPE • **4**—NAT transfer • **5**—CPE-NAT transfer • **6**—RR-NAT transfer • **7**—RR-CPE-NAT transfer	
SystemIPIfIndex	Interface index used by system IP	N/A	Unsigned integer.	Need to use ifindex or ifname for loopback interface.
SystemIPFamily	Family of the system IP address	N/A	Enumeration: • IPv4 • IPv6	N/A
EncapUDPPort	Port number used on SDWAN tunnel	N/A	Unsigned integer. Value range:1 to 65535	Default: 4799.
CollabAgingTime	Aging time of SDWAN collaboration connection	N/A	Unsigned integer. Value range:0 to 300. Default: 180.	N/A

SDWAN/SdwanServer

This table contains SDWAN server information.

XML structure

```
<SDWAN>
  <SdwanServer>
    <SdwanTlsEnable></SdwanTlsEnable>
    <SdwanTlsPort></SdwanTlsPort>
    <SdwanServerPolicy></SdwanServerPolicy>
  </SdwanServer>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanServer
Table type	single-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SdwanTlsEnable	Indicates whether to enable SDWAN TLS connection	N/A	Boolean: • true—enable sdwan TLS connection • false—disable sdwan TLS connection	N/A
SdwanTlsPort	Port number used on SDWAN TLS connection	N/A	Unsigned integer. Value range:1 to 65535	Default: 2004.
SdwanServerPolicy	SSL server policy name	N/A	String, case sensitive. Length: 1 to 31 characters. Case sensitive	Default: NULL.

SDWAN/SdwanClient

This table contains SDWAN client information.

XML structure

```
<SDWAN>
  <SdwanClient>
    <SdwanClientPolicy></SdwanClientPolicy>
  </SdwanClient>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanClient
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SdwanClient Policy	Name of client Policy from the connection of TLS with own config to decide how to forward user traffic	N/A	string. Length: 1 to 31 characters. Case sensitive	N/A.

SDWAN/ClientSetServers

This table contains SDWAN server parameters on an SDWAN client.

XML structure

```
<SDWAN>
  <ClientSetServers>
    <ClientSetServer>
      <SystemIP></SystemIP>
      <PublicIP></PublicIP>
      <PublicIPFamily></PublicIPFamily>
      <PublicPort></PublicPort>
      <VrfName></VrfName>
    </ClientSetServer>
  </ClientSetServers>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	ClientSetServers
Table type	Mutil-instance table
Row name	ClientSetServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	IPv4 address of an RR in the	Index	String.dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	RR cluster used to establish a TLS connection			
PublicIP	Public address of the TLS on the RR	Index	String.	IPv4 address. IPv6 address.
PublicIPFamily	Family of the TLS public address on the RR	Index	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
PublicPort	Port of the TLS on the RR	Index	Unsigned integer. Value range:1 to 65535.	Default: 2004.
VrfName	VPN instance name	Index	String. Length: 1 to 31 characters. Case sensitive.	N/A

SDWAN/SslClientSetServers

This table contains SDWAN server parameters on an SDWAN client.

XML structure

```
<SDWAN>
  <SslClientSetServers>
    <SslClientSetServer>
      <SystemIP></SystemIP>
      <SystemIPFamily></SystemIPFamily>
      <PublicIP></PublicIP>
      <PublicIPFamily></PublicIPFamily>
      <PublicPort></PublicPort>
      <VrfName></VrfName>
    </SslClientSetServer>
  </SslClientSetServers>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SslClientSetServers
Table type	Mutil-instance table
Row name	SslClientSetServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	Address of an RR in the RR cluster used to establish a TLS connection	Index	String.	IPv4 address. IPv6 address.
SystemIPFamily	Family of the system IP address on the RR	Index	Enumeration: • IPv4. • IPv6.	N/A
PublicIP	Public address of the TLS on the RR	Index	String.	IPv4 address. IPv6 address.
PublicIPFamily	Family of the TLS public address on the RR	Index	Enumeration: • IPv4. • IPv6.	N/A
PublicPort	Port of the TLS on the RR	Index	Unsigned integer. Value range: 1 to 65535.	Default: 2004.
VrfName	VPN instance name	Index	String. Length: 1 to 31 characters. Case sensitive.	N/A

SDWAN/TunnelSdwanCfg

This table contains SDWAN tunnel configuration information

XML structure

```
<SDWAN>
  <TunnelSdwanCfg>
    <TunnelSdwan>
      <TunnelID></TunnelID>
      <InterfaceID></InterfaceID>
      <RoutingDomain>
        <DomainName></DomainName>
        <DomainID></DomainID>
      </RoutingDomain>
      <TransportNetwork>
        <NetworkName></NetworkName>
        <NetworkID></NetworkID>
        <NetworkRestrict></NetworkRestrict>
      </TransportNetwork>
```

```
      <TunnelUDPPort></TunnelUDPPort>
      <TunnelUDPPortDynamic></TunnelUDPPortDynamic>
      <TunnelUDPPortDynamicTime></TunnelUDPPortDynamicTime>
      <NatPublicInfo>
        <PublicIP></PublicIP>
        <PublicPort></PublicPort>
      </NatPublicInfo>
      <Keepalive>
        <Interval></Interval>
        <RetryTime></RetryTime>
      </Keepalive>
      <BFD>
        <BFDEnable></BFDEnable>
        <Template></Template>
      </BFD>
      <CollDevIDList></CollDevIDList>
    </TunnelSdwan>
  </TunnelSdwanCfg>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	TunnelSdwanCfg
Table type	Multi-instance table
Row name	TunnelSdwan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
InterfaceID	Tunnel interface index	N/A	Unsigned integer. Value range: 1 to 255.	N/A
RoutingDomain	Routing domain parameters	Data Structure	Members include:. • DomainName. • DomainID.	N/A
DomainName	Routing domain name	N/A	String, case sensitive. Length: 1 to 31 characters.	Default: NULL.
DomainID	Routing domain ID	N/A	Unsigned integer. Value range: 1 to 65535.	Default: NULL.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransportNetwork	Transport network attributes	Data Structure	Members include:. • NetworkName. • NetworkID. • NetworkRestrict.	N/A
NetworkName	Transport network name	N/A	String, case sensitive. Length: 1 to 31 characters.	Default: NULL.
NetworkID	Transport network ID	N/A	Unsigned integer. Value range: 1 to 65535.	Default: NULL.
NetworkRestrict	Whether to allow only tunnel interfaces that are specified the same transport network ID to set up TTE connections	N/A	Boolean: • **true**—Allows only tunnel interfaces that are specified the same transport network ID to set up TTE connections. • **false**—Allows tunnel interfaces that are specified different transport network IDs to set up TTE connections.	Default: false.
TunnelUDPPort	Port number used on SDWAN tunnel	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TunnelUDPPortDynamic	Enabling status of dynamic UDP port number allocation	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Default: false.
TunnelUDPPortDynamicTime	Dynamic allocation timeout time	N/A	Unsigned integer. Value range: 30 to 1800 seconds. Default: 180 seconds.	N/A
NatPublicInfo	NAT public infomation	Data Structure	Members include:. • PublicIP. • PublicPort.	N/A
PublicIP	NAT public IP	N/A	String, dotted decimal notation.	Default: NULL.
PublicPort	NAT public port	N/A	Unsigned integer. Value range: 1 to 65535.	Default:.NULL.
Keepalive	Keepalive parameters	Data structure	Members include: • Interval. • RetryTime.	N/A
Interval	Keepalive interval	N/A	Unsigned integer Value range: 1 to 32767 seconds. Default: 10 seconds	N/A
RetryTime	Maximum	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of keepalive attempts		Value range: 1 to 255. Default :3.	
BFD	BFD parameters	Data structure	Members include: • BFDEnable • Template	N/A
BFDEnable	BFD enable	N/A	Boolean: • **true**—BFD Enable • **false—**BFD Disable	N/A
Template	Template name	N/A	String, case sensitive. Length: 1 to 63 characters.	Default: NULL.
CollDevIDList	Collaboration device ID list	N/A	String.	A range of collaboration device IDs.

SDWAN/SdwanExtensionCfg

This table contains SDWAN extension tunnel configuration information.

XML structure

```
<SDWAN>
  <SdwanExtensionCfg>
    <SdwanExtension>
      <TunnelID></TunnelID>
      <PeerDeviceID></PeerDeviceID>
      <PeerInterfaceID></PeerInterfaceID>
    </SdwanExtension>
  </SdwanExtensionCfg>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanExtensionCfg
Table type	Multi-instance table
Row name	SdwanExtension
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	TunnelID	Index	Unsigned integer.	N/A
PeerDeviceID	Device ID of collaboration device	N/A	Unsigned integer. Value range:1 to 255.	N/A
PeerInterfaceID	Tunnel interface ID of collaboration device	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SDWAN/SdwanCollaborations

This table contains SDWAN collaboration information.

XML structure

```
<SDWAN>
  <SdwanCollaborations>
    <SdwanCollaboration>
      <PeerDeviceID></PeerDeviceID>
      <PeerVRF></PeerVRF>
      <PeerIP></PeerIP>
      <PeerIPFamily></PeerIPFamily>
      <LocalIP></LocalIP>
      <LocalIPFamily></LocalIPFamily>
      <SyncPort></SyncPort>
    </SdwanCollaboration>
  </SdwanCollaborations>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanCollaborations
Table type	Multi-instance table
Row name	SdwanCollaboration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerDeviceID	Peer Device ID	Index	Unsigned integer. Value range:1 to 255.	N/A
PeerVRF	Peer VPN instance	N/A	String. Length: 0 to 31 characters.	An empty string indicates the public network.
PeerIP	Peer IP address	N/A	String.	IPv4 address IPv6 address
PeerIPFamily	Family of peer IP address	N/A	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
LocalIP	Local IP address	N/A	String.	IPv4 address IPv6 address
LocalIPFamily	Family of local IP address	N/A	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
SyncPort	Synchronization port number	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A

SDWAN/SdwanPeerConnectionStatus

This table is used to get peer status information for SDWAN connections.

XML structure

```
<SDWAN>
  <SdwanPeerConnectionStatus>
    <PeerConnectionStatus>
      <SystemIP></SystemIP>
      <PeerIP></PeerIP>
      <PeerIPFamily></PeerIPFamily>
      <PeerPort></PeerPort>
      <VPNInstance></VPNInstance>
      <Status></Status>
    </PeerConnectionStatus>
  </SdwanPeerConnectionStatus>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN

Table name	SdwanPeerConnectionStatus
Table type	Multi-instance table
Row name	PeerConnectionStatus
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	System IP	Index	IPv4 address, dotted decimal notation.	Example: 1.1.1.1.
PeerIP	Peer IP	Index	String.	IPv4 address. IPv6 address.
PeerIPFamily	Family of the peer IP	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
PeerPort	Peer port	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VPNInstance	VPN instance	Index	String Length: 1 to 31 characters.	N/A
Status	Status	N/A	Enumeration: • Init. • Connecting. • Connected. • Closed.	N/A

SDWAN/SdwanSslPeerConnectionStatus

This table is used to get peer status information for SDWAN connections.

XML structure

```
<SDWAN>
  <SdwanPeerConnectionStatus>
    <PeerConnectionStatus>
      <SystemIP></SystemIP>
      <SystemIPFamily></SystemIPFamily>
      <PeerIP></PeerIP>
      <PeerIPFamily></PeerIPFamily>
      <PeerPort></PeerPort>
      <VPNInstance></VPNInstance>
      <Status></Status>
    </PeerConnectionStatus>
  </SdwanPeerConnectionStatus>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanSslPeerConnectionStatus
Table type	Multi-instance table
Row name	SslPeerConnectionStatus
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemIP	System IP	Index	String.	IPv4 address. IPv6 address.
SystemIPFamily	Family of the system IP address	Index	Enumeration: • IPv4. • IPv6.	N/A
PeerIP	Peer IP	Index	String.	IPv4 address. IPv6 address.
PeerIPFamily	Family of the peer IP	Index	Enumeration: • IPv4. • IPv6.	N/A
PeerPort	Peer port	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VPNInstance	VPN instance	Index	String Length: 1 to 31 characters.	N/A
Status	Status	N/A	Enumeration: • Init. • Connecting. • Connected. • Closed.	N/A

SDWAN/SdwanCollabConnection

This table shows status and statistics information of SDWAN collaboration connection.

XML structure

```
<SDWAN>
  <SdwanCollabConnection>
    <CollabConnection>
      <PeerDeviceID></PeerDeviceID>
```

```
      <PeerIP></PeerIP>
      <PeerIPFamily></PeerIPFamily>
      <LocalIP></LocalIP>
      <LocalIPFamily></LocalIPFamily>
      <Port></Port>
      <VPNInstance></VPNInstance>
      <Status></Status>
      <InTotalPacks></InTotalPacks>
      <InAddTTEConnPacks></InAddTTEConnPacks>
      <InDelTTEConnPacks></InDelTTEConnPacks>
      <InRirDataPacks></InRirDataPacks>
      <InSmoothStartPacks></InSmoothStartPacks>
      <InSmoothEndPacks></InSmoothEndPacks>
      <InSmoothDataPacks></InSmoothDataPacks>
      <InDropPacks></InDropPacks>
      <OutTotalPacks></OutTotalPacks>
      <OutAddTTEConnPacks></OutAddTTEConnPacks>
      <OutDelTTEConnPacks></OutDelTTEConnPacks>
      <OutRirDataPacks></OutRirDataPacks>
      <OutSmoothStartPacks></OutSmoothStartPacks>
      <OutSmoothEndPacks></OutSmoothEndPacks>
      <OutSmoothDataPacks></OutSmoothDataPacks>
      <OutDropPacks></OutDropPacks>
      <Output>
    </CollabConnection>
  </SdwanCollabConnection>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanCollabConnection
Table type	Multi-instance table
Row name	CollabConnection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerDeviceID	Peer Device ID	index	Unsigned integer Value range: 1 to 255.	N/A
PeerIP	Peer IP	N/A	String.	IPv4 address IPv6 address

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerIPFamily	Family of peer IP	N/A	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
LocalIP	Local IP	N/A	String.	IPv4 address IPv6 address
LocalIPFamily	Family of local IP	N/A	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
Port	Sync port	N/A	Unsigned integer Value range: 1024 to 65535.	N/A
VPNInstance	VPN instance	N/A	String Length range: 1 to 31.	N/A
Status	Status	N/A	Enumeration: • Init. • Connecting. • Checking. • Connected. • Closed.	N/A
InTotalPacks	Received total packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
InAddTTEConnPacks	Received add TTE connection packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
InDelTTEConnPacks	Received delete TTE connection packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
InRirDataPacks	Received Rir data packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InSmoothStartPacks	Received smooth start packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InSmoothEndPacks	Received smooth end packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InSmoothDataPacks	Received smooth batch TTE connection packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
InDropPacks	Drop packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutTotalPacks	Sent total packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutAddTTEConnPack	Sent add TTE	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
s	connection packets.		Value range: 0 to 2^{64} – 1.	
OutDelTTEConnPacks	Send delete TTE connection packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
OutRirDataPacks	Sent Rir data packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutSmoothStartPacks	Sent smooth start packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutSmoothEndPacks	Sent smooth end packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutSmoothDataPacks	Sent smooth batch TTE connection packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutDropPacks	Drop packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

SDWAN/SdwanSiteTte

This table is used to get SDWAN site TTE information.

XML structure

```
<SDWAN>
  <SdwanSiteTte>
    <SiteTte>
      <SiteID></SiteID>
      <DevID></DevID>
      <InterfaceID></InterfaceID>
      <SiteName></SiteName>
      <SiteRole></SiteRole>
      <SystemIP></SystemIP>
      <NewSystemIP></NewSystemIP>
      <NewSystemIPFamily></NewSystemIPFamily>
      <Status></Status>
      <Encap></Encap>
      <UDPEncapPort></UDPEncapPort>
      <Nat></Nat>
      <SA></SA>
      <RdName></RdName>
      <RdID></RdID>
      <TnName></TnName>
      <TnID></TnID>
      <TnRestrict></TnRestrict>
```

```
      <OutPhysicalInterface></OutPhysicalInterface>
    </SiteTte>
  </SdwanSiteTte>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanSiteTte
Table type	multi-instance table
Row name	SiteTte
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SiteID	Site ID	Index	Unsigned integer. Value range:1 to 65535.	N/A
DevID	Device ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
InterfaceID	Interface ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
SiteName	Site name	N/A	String. Length: 1 to 255 characters.	.N/A
SiteRole	Site role	N/A	Enumeration: • **0**—None. • **1**—CPE. • **2**—RR. • **3**—CPE-RR. • **4**—NAT transfer. • **5**—RR-NAT transfer. • **6**—CPE-NAT transfer • **7**—CPE-RR-NAT transfer.	N/A
SystemIP	System IP	N/A	IPv4 address, dotted decimal notation.	Example: 1.1.1.1.
NewSystemIP	System IP	N/A	String.	IPv4 address. IPv6 address.
NewSystemIPFamily	Family of the system IP address	N/A	Enumeration: • IPv4. • IPv6.	N/A
Status	Status	N/A	Boolean: • **true**—Tte connection is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			up • **false**—Tte connection is down	
Encap	Encapsulation mode	N/A	Enumeration: • **0**—None. • **1**—UDP. • **2**—UDP IPv6. • **5**—SRv6. • **6**—SRv6 IPv6.	N/A
UDPEncapPort	Encap port	N/A	Unsigned Integer Value range: 1 to 65535.	N/A
Nat	After NAT networking	N/A	Boolean: • **true**—After NAT networking • **false**—isn't after NAT networking	N/A
SA	SA enable	N/A	Boolean: • **true**—SA Enable • **false**—SA Disable	N/A
RdName	Routing domain name	N/A	String Length range: 1 to 31.	N/A
RdID	Routing domain ID	N/A	Unsigned Integer Value range: 1 to 65535.	N/A
TnName	Transport network name	N/A	String Length range: 1 to 31.	N/A
TnID	Transport network ID	N/A	Unsigned Integer Value range: 1 to 65535.	N/A
TnRestrict	Transport network restrict	N/A	Boolean: • **true**—enable transport network restrict • **false**—disable transport network restrict	N/A
OutPhysicalInterface	Out physical interface	N/A	String Length range: 1 to 255.	N/A

SDWAN/SdwanTteConnections

This table is used to get information about SDWAN TTE connections.

XML structure

```
<SDWAN>
  <SdwanTteConnections>
    <TteConnection>
      <DSiteID></DSiteID>
```

```
      <DDevID></DDevID>
      <DIfID></DIfID>
      <SIfID></SIfID>
      <DSysIP></DSysIP>
      <NewDSysIP></NewDSysIP>
      <NewDSysIPFamily></NewDSysIPFamily>
      <SrcIP></SrcIP>
      <SrcIPFamily></SrcIPFamily>
      <DstIP></DstIP>
      <DstIPFamily></DstIPFamily>
      <DstPrivateIP></DstPrivateIP>
      <DstPrivateIPFamily></DstPrivateIPFamily>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <Status></Status>
      <BandWidth></BandWidth>
    </TteConnection>
  </SdwanTteConnections>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanTteConnections
Table type	Multi-instance table
Row name	TteConnection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSiteID	ID of a remote site	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DDevID	ID of a remote device	Index	Unsigned integer. Value range: 1 to 255	N/A
DIfID	Destination interface ID	Index	Unsigned integer Value range: 1 to 255.	N/A
SIfID	Source interface ID	Index	Unsigned integer Value range: 1 to 255.	N/A
DSysIP	System IP of the remote device	N/A	IPv4 address, dotted decimal notation.	Example: 1.1.1.1.
NewDSysIP	System IP of	N/A	String.	IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the remote device			IPv6 address.
NewDSysIP Family	Family of the system IP address	N/A	Enumeration: • IPv4. • IPv6.	N/A
SrcIP	Encapsulated source IP address	N/A	String.	IPv4 address IPv6 address
SrcIPFamily	Family of encapsulated source IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
DstIP	Encapsulated destination IP address	N/A	String.	IPv4 address. IPv6 address.
DstIPFamily	Family of encapsulated destination IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
DstPrivateIP	Encapsulated destination private IP address	N/A	String.	IPv4 address. IPv6 address.
DstPrivateIP Family	Family of encapsulated destination private IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
SrcPort	Source port	N/A	Unsigned integer Value range: 1 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer Value range: 0 to 65535.	N/A
Status	TTE connection status	N/A	Boolean: • **true**—Reachable. • **false**—Unreachable.	N/A
BandWidth	TTE connection bandwidth	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

SDWAN/SdwanCollaborationTteConns

This table is used to get information about SDWAN collaboration TTE connections.

XML structure

```
<SDWAN>
  <SdwanCollaborationTteConns>
    <CollaborationTteConn>
```

```
      <DSiteID></DSiteID>
      <DDevID></DDevID>
      <DIfID></DIfID>
      <SDevID></SDevID>
      <SIfID></SIfID>
      <DSysIP></DSysIP>
      <NewDSysIP></NewDSysIP>
      <NewDSysIPFamily></NewDSysIPFamily>
      <SrcIP></SrcIP>
      <SrcIPFamily></SrcIPFamily>
      <DstIP></DstIP>
      <DstIPFamily></DstIPFamily>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
    </CollaborationTteConn>
  </SdwanCollaborationTteConns>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanCollaborationTteConns
Table type	Multi-instance table
Row name	CollaborationTteConn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSiteID	ID of a remote site	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DDevID	ID of a remote device	Index	Unsigned integer. Value range: 1 to 255.	N/A
DIfID	Destination interface ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
SDevID	ID of a source device	Index	Unsigned integer. Value range: 1 to 255.	N/A
SIfID	Source interface ID	Index	Unsigned integer. Value range: 1 to 255.	N/A
DSysIP	System IP of the remote device	N/A	IPv4 address, dotted decimal notation.	Example: 1.1.1.1.
NewDSysIP	System IP of	N/A	String.	IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the remote device			IPv6 address.
NewDSysIPFamily	Family of the system IP address	N/A	Enumeration: • IPv4. • IPv6.	N/A
SrcIP	Encapsulated source IP address	N/A	String.	IPv4 address. IPv6 address.
SrcIPFamily	Family of encapsulated source IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
DstIP	Encapsulated destination IP address	N/A	String.	IPv4 address. IPv6 address.
DstIPFamily	Family of encapsulated destination IP address	N/A	Enumeration: • **2**—IPv4. • **10**—IPv6.	N/A
SrcPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

SDWAN/SdwanFlowStatistics

This table contains flow statistics for tunnels.

XML structure

```
<SDWAN>
  <SdwanFlowStatistics>
    <FlowStatistics>
      <FlowId></FlowId>
      <TunnelId></TunnelId>
      <LinkID></LinkID>
      <VPNInstance></VPNInstance>
      <SpeedstatisticsVersion></SpeedstatisticsVersion>
      <Speedstatistics></Speedstatistics>
    </FlowStatistics>
  </SdwanFlowStatistics>
</SDWAN>
```

Table description

Item	Description
Feature name	SDWAN
Table name	SdwanFlowStatistics
Table type	Multi-instance table
Row name	FlowStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow ID	Index	Unsigned integer.	N/A
TunnelId	Tunnel ID	Index	Unsigned integer.	N/A
LinkID	Link ID	Index	Unsigned integer Value range: 1 to 4294967295	N/A
VPNInstance	VPN instance name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
SpeedstatisticsVersion	Data version for flow rate statistics	N/A	Enumeration: • Version0. • Version1.	Data version for the Speedstatistics column.
Speedstatistics	Flow rate statistics for the tunnel	N/A	Base64 string.	This column can include multiple items. Each item includes the following information: Version0: • Flow ID, UnsignedInteger32, 4 characters. • Interface name, string, 48 characters. • Link ID, UnsignedInteger32, 4 characters. • VRF, UnsignedInteger, 2 characters. • Output packets per second, UnsignedInteger64, 8 characters. • Output octets per second, UnsignedInteger64, 8 characters. Version1: • Flow ID,

Column name	Column description	Column type	Data type and restrictions	Remarks
				UnsignedInteger32, 4 characters. • Interface name, string, 48 characters. • Link ID, UnsignedInteger32, 4 characters. • VRF, UnsignedInteger, 2 characters. • Output packets per second, UnsignedInteger64, 8 characters. • Output octets per second, UnsignedInteger64, 8 characters. • VPN name, string, 32 characters • Output total packets, UnsignedInteger64, 8 characters. • Output total packet bytes, UnsignedInteger64, 8 characters.

Contents

Comware 7 SDWAN NETCONF XML API Error Message Reference ····· 1
SDWAN/Config ····· 1
SDWAN/GlobalConfig ····· 1
SDWAN/SdwanServer ····· 1
SDWAN/ClientSetServers ····· 1

Comware 7 SDWAN NETCONF XML API Error Message Reference

SDWAN/Config

Message	Explanation
Please first install the license for the SDWAN feature. 请先安装SDWAN功能的许可证。	This feature is available only if a license for the SDWAN feature is installed. 只有先安装SDWAN的许可证，此功能才可用。

SDWAN/GlobalConfig

Message	Explanation
SDWAN server has already been enabled, sdwan status cannot be changed sdwan server已经使能，不能改变 SDWAN server 状态	SDWAN server has enabled, please.undo sdwan server and try again. SDWAN server已经使能，请去使能sdwan server 并再次尝试

SDWAN/SdwanServer

Message	Explanation
Failed to set SDWAN server status. 使能SDWAN服务失败。	The specified listening port is being used by antoher service.You need to specify another port . 指定的监听端口正在被另一个服务使用，您需要指定另一个端口。 Or, please check the server policy configuration and certificate. 或者请检查服务策略配置和证书。
SDWAN server has already been enabled, sdwan status cannot be changed sdwan server已经使能，不能改变 SDWAN server 状态	SDWAN server has enabled, please.undo sdwan server and try again. SDWAN server已经使能，请去使能sdwan server 并再次尝试
Role doesn't include rr, cannot enable server 由于当前站点角色不包括RR，无法使能SDWAN服务。	Need to set site role including RR 需要设置站点角色包括RR。

SDWAN/ClientSetServers

Message	Explanation
Invalid IP address. 无效的 IP 地址。	The loopback address or other invalid IP addresses may be used 可能使用了环回地址或其他的无效地址。

Contents

SdwanTunnelDown event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 1
SdwanTunnelUp event ····· 2
XML structure for event subscription ····· 2
XML structure for event report ····· 3
SdwanTteConnectionsAdd event ····· 4
XML structure for event subscription ····· 4
XML structure for event report ····· 5
SdwanTteConnectionsDel event ····· 7
XML structure for event subscription ····· 7
XML structure for event report ····· 8
SdwanTteConnectionsUpdate event ····· 10
XML structure for event subscription ····· 10
XML structure for event report ····· 11
SdwanTlsStatusEvent event ····· 13
XML structure for event subscription ····· 13
XML structure for event report ····· 14
SdwanTlsAddEvent event ····· 15
XML structure for event subscription ····· 15
XML structure for event report ····· 16
SdwanTlsDelEvent event ····· 17
XML structure for event subscription ····· 17
XML structure for event report ····· 18

SdwanTunnelDown event

This event is used to report SDWAN tunnel information when an SDWAN tunnel goes down.

XML structure for event subscription

```
<SdwanTunnelDown>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SdwanTunnelDown>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTunnelDown xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
          <Tunnel>
            <TunnelID>1</TunnelID>
          </Tunnel>
        </SdwanTunnelDown>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTunnelDownEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No

XML structure for event report

```
<SdwanTunnelDown>
  <Tunnel>
    <TunnelID></TunnelID>
```

```
    <SiteID></SiteID>
    <DeviceID></DeviceID>
    <InterfaceID></InterfaceID>
    <DownReason></DownReason>
  </Tunnel>
</SdwanTunnelDown>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-09-30T09:10:51</eventTime>
  <SdwanTunnelDown xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <Tunnel>
      <TunnelID>1</TunnelID>
      <SiteID>1</SiteID>
      <DeviceID>1</DeviceID>
      <InterfaceID>1</InterfaceID>
      <DownReason>2</DownReason>
    </Tunnel>
  </SdwanTunnelDown>
</notification>
```

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No
SiteID	Site ID	Unsigned integer. Value range: 1 to 65535.	No
DeviceID	Device ID	Unsigned integer. Value range: 1 to 255.	No
InterfaceID	Interface ID of SDWAN tunnel portal	Unsigned Integer. Value range: 1 to 255.	No
DownReason	Tunnel down reason	Enumeration: • **1**—The tunnel went down. • **2**—The tunnel was deleted. • **3**—Required configuration was removed from the tunnel.	No

SdwanTunnelUp event

This event is used to report SDWAN tunnel information when an SDWAN tunnel comes up..

XML structure for event subscription

```
<SdwanTunnelUp>
  <Tunnel>
```

```
    <TunnelID></TunnelID>
  </Tunnel>
</SdwanTunnelUp>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTunnelUp xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
        <Tunnel>
          <TunnelID>1</TunnelID>
        </Tunnel>
      </SdwanTunnelUp>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTunnelUp
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelID	Tunnel ID	Unsigned integer Value range:0 to 1023	No

XML structure for event report

```
<SdwanTunnelUp>
  <Tunnel>
    <TunnelID></TunnelID>
    <SiteID></SiteID>
    <DeviceID></DeviceID>
    <InterfaceID></InterfaceID>
  </Tunnel>
</SdwanTunnelUp>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```

```
  <SdwanTunnelUp xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <Tunnel>
      <TunnelID>1</TunnelID>
      <SiteID>1</SiteID>
      <DeviceID>1</DeviceID>
      <InterfaceID>1</InterfaceID>
    </Tunnel>
  </SdwanTunnelUp>
</notification>
```

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No
SiteID	Site ID	Unsigned integer. Value range: 1 to 65535.	No
DeviceID	Device ID	Unsigned integer. Value range: 1 to 255.	No
InterfaceID	Interface ID of SDWAN tunnel portal	Unsigned Integer. Value range: 1 to 255.	No

SdwanTteConnectionsAdd event

This event is used to report SDWAN TTE connection information when SDWAN TTE connections are added.

XML structure for event subscription

```
<SdwanTteConnectionsAdd>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SdwanTteConnectionsAdd>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTteConnectionsAdd xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
          <Tunnel>
            <TunnelID>1</TunnelID>
          </Tunnel>
```

```
      </SdwanTteConnectionsAdd>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTteConnectionsAdd
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer Value range:0 to 1023	No

XML structure for event report

```
<SdwanTteConnectionsAdd>
  <Tunnel>
    <DSiteID></DSiteID>
    <DDevID></DDevID>
    <DSysIP></DSysIP>
    <NewDSysIP></NewDSysIP>
    <NewDSysIPFamily></NewDSysIPFamily>
    <SIfID></SIfID>
    <DIfID></DIfID>
    <SrcIP></SrcIP>
    <SrcIPFamily></SrcIPFamily>
    <DstIP></DstIP>
    <DstIPFamily></DstIPFamily>
    <DstIP></DstIP>
    <DstPrivateIP></DstPrivateIP>
    <DstPrivateIPFamily></DstPrivateIPFamily>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <Status></Status>
    <BandWidth></BandWidth>
  </Tunnel>
</SdwanTteConnectionsAdd>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-09-30T09:10:51</eventTime>
```

```
  <SdwanTteConnectionsAdd xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <Tunnel>
      <DSiteID>1</DSiteID>
      <DDevID>1</DDevID>
      <DSysIP>10.1.1.1</DSysIP>
      <NewDSysIP>10.1.1.1</NewDSysIP>
      <NewDSysIPFamily>IPv4</NewDSysIPFamily>
      <SIfID>1</SIfID>
      <DIfID>1</DIfID>
      <SrcIP>1.1.1.1</SrcIP>
      <SrcIPFamily>2</SrcIPFamily>
      <DstIP>1.1.1.2</DstIP>
      <DstIPFamily>2</DstIPFamily>
      <DstPrivateIP>1.1.1.2</DstPrivateIP>
      <DstPrivateIPFamily>2</DstPrivateIPFamily>
      <SrcPort>1</SrcPort>
      <DstPort>1</DstPort>
      <Status>false</Status>
      <BandWidth>64</BandWidth>
    </Tunnel>
  </SdwanTteConnectionsAdd>
</notification>
```

Columns

Column name	Column description	Column type	Data type and restrictions
DSiteID	ID of a remote site	Index	Unsigned integer. Value range: 1 to 65535.
DDevID	ID of a remote device	Index	Unsigned integer. Value range: 1 to 255.
DSysIP	System IP of the remote device	N/A	IPv4 address, dotted decimal notation.
NewDSysIP	System IP of the remote device	String.	IPv4 address IPv6 address
NewDSysIPFamily	Family of the System IP	Enumeration: • IPv4 • IPv6	N/A
SIfID	Source Interface ID	Index	Unsigned integer. Value range: 1 to 255.
DIfID	Destination Interface ID	Index	Unsigned integer. Value range: 1 to 255.
SrcIP	Encapsulated source IP address	String.	IPv4 address

Column name	Column description	Column type	Data type and restrictions
			IPv6 address
SrcIPFamily	Family of encapsulated source IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstIP	Encapsulated destination IP address	String.	IPv4 address IPv6 address
DstIPFamily	Family of encapsulated destination IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstPrivateIP	Encapsulated destination private IP address	String.	IPv4 address IPv6 address
DstPrivateIPFamily	Family of encapsulated destination private IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
SrcPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.
DstPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.
Status	TTE connection status	Boolean: • **true**—Reachable • **false**—Unreachable	N/A
BandWidth	TTE connection bandwidth	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

SdwanTteConnectionsDel event

This event is used to report SDWAN TTE connection information when SDWAN TTE connections are deleted..

XML structure for event subscription

```
<SdwanTteConnectionsDel>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SdwanTteConnectionsDel>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
```

```
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTteConnectionsDel xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
        <Tunnel>
          <TunnelID>1</TunnelID>
        </Tunnel>
      </SdwanTteConnectionsDel>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTteConnectionsDel
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
TunnelID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No

XML structure for event report

```
<SdwanTteConnectionsDel>
  <Tunnel>
    <DSiteID></DSiteID>
    <DDevID></DDevID>
    <DSysIP></DSysIP>
    <NewDSysIP></NewDSysIP>
    <NewDSysIPFamily></NewDSysIPFamily>
    <SIfID></SIfID>
    <DIfID></DIfID>
    <SrcIP></SrcIP>
    <SrcIPFamily></SrcIPFamily>
    <DstIP></DstIP>
    <DstIPFamily></DstIPFamily>
    <DstPrivateIP></DstPrivateIP>
    <DstPrivateIPFamily></DstPrivateIPFamily>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <BandWidth></BandWidth>
  </Tunnel>
</SdwanTteConnectionsDel>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SdwanTteConnectionsDel xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <Tunnel>
      <DSiteID>1</DSiteID>
      <DDevID>1</DDevID>
      <DSysIP>10.1.1.1</DSysIP>
      <NewDSysIP>10.1.1.1</NewDSysIP>
      <NewDSysIPFamily>IPv4</NewDSysIPFamily>
      <SIfID>1</SIfID>
      <DIfID>1</DIfID>
      <SrcIP>1.1.1.1</SrcIP>
      <SrcIPFamily>2</SrcIPFamily>
      <DstIP>1.1.1.2</DstIP>
      <DstIPFamily>2</DstIPFamily>
      <DstPrivateIP>1.1.1.2</DstPrivateIP>
      <DstPrivateIPFamily>2</DstPrivateIPFamily>
      <SrcPort>1</SrcPort>
      <DstPort>1</DstPort>
      <BandWidth>64</BandWidth>
    </Tunnel>
  </SdwanTteConnectionsDel>
</notification>
```

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
DSiteID	ID of a remote site	Index	Unsigned integer. Value range: 1 to 65535.
DDevID	ID of a remote device	Index	Unsigned integer. Value range: 1 to 255.
DSysIP	System IP of the remote device	N/A	IPv4 address, dotted decimal notation.
NewDSysIP	System IP of the remote device	String.	IPv4 address IPv6 address
NewDSysIPFamily	Family of the system IP	Enumeration: • IPv4 • IPv6	N/A
SIfID	Source Interface ID	Index	Unsigned integer. Value range: 1 to 255.
DIfID	Destination Interface	Index	Unsigned integer.

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
	ID		Value range: 1 to 255.
SrcIP	Encapsulated source IP address	String.	IPv4 address IPv6 address
SrcIPFamily	Family of encapsulated source IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstIP	Encapsulated destination IP address	String	IPv4 address IPv6 address
DstIPFamily	Family of encapsulated destination IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstPrivateIP	Encapsulated destination private IP address	String.	IPv4 address IPv6 address
DstPrivateIPFamily	Family of encapsulated destination private IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
SrcPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.
DstPort	Destination port	N/A	Unsigned integer. Value range: 1 to 65535.
BandWidth	TTE connection bandwidth	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

SdwanTteConnectionsUpdate event

This event is used to report SDWAN TTE connection information when SDWAN TTE connections are changed.

XML structure for event subscription

```
<SdwanTteConnectionsUpdate>
  <Tunnel>
    <TunnelID></TunnelID>
  </Tunnel>
</SdwanTteConnectionsUpdate>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTteConnectionsUpdate
xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
          <Tunnel>
            <TunnelID>1</TunnelID>
          </Tunnel>
      </SdwanTteConnectionsUpdate>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTteConnectionsUpdate
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
TunnelID	Tunnel ID	Unsigned integer	No

XML structure for event report

```
<SdwanTteConnectionsUpdate>
  <Tunnel>
    <DSiteID></DSiteID>
    <DDevID></DDevID>
    <DIfID></DIfID>
    <SIfID></SIfID>
    <DSysIP></DSysIP>
    <NewDSysIP></NewDSysIP>
    <<NewDSysIPFamily></<NewDSysIPFamily>
    <SrcIP></SrcIP>
    <SrcIPFamily></SrcIPFamily>
    <DstIP></DstIP>
    <DstIPFamily></DstIPFamily>
    <DstPrivateIP></DstPrivateIP>
    <DstPrivateIPFamily></DstPrivateIPFamily>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <Status></Status>
```

```
    <BandWidth></BandWidth>
  </Tunnel>
</SdwanTteConnectionsUpdate>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-09-30T09:10:51</eventTime>
  <SdwanTteConnectionsUpdate xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <Tunnel>
      <DSiteID>1</DSiteID>
      <DDevID>1</DDevID>
      <DIfID>1</DIfID>
      <SIfID>1</SIfID>
      <DSysIP>10.1.1.1</DSysIP>
      <NewDSysIP>10.1.1.1</NewDSysIP>
      <NewDSysIPFamily>IPv4</NewDSysIPFamily>
      <SrcIP>1.1.1.1</SrcIP>
      <SrcIPFamily>2</SrcIPFamily>
      <DstIP>1.1.1.2</DstIP>
      <DstIPFamily>2</DstIPFamily>
      <DstPrivateIP>1.1.1.2</DstPrivateIP>
      <DstPrivateIPFamily>2</DstPrivateIPFamily>
      <SrcPort>1</SrcPort>
      <DstPort>1</DstPort>
      <Status>false</Status>
      <BandWidth>64</BandWidth>
    </Tunnel>
  </SdwanTteConnectionsUpdate>
</notification>
```

Columns

Column name	Column description	Column type	Data type and restrictions
DSiteID	ID of a remote site	Index	Unsigned integer. Value range: 1 to 65535.
DDevID	ID of a remote device	Index	Unsigned integer. Value range: 1 to 65535.
DIfID	Destination Interface ID	Index	Unsigned integer. Value range: 1 to 255.
SIfID	Source Interface ID	Index	Unsigned integer. Value range: 1 to 255.
DSysIP	System IP of the remote device	N/A	IPv4 address, dotted decimal notation.

Column name	Column description	Column type	Data type and restrictions
NewDSysIP	System IP of the remote device	String.	IPv4 address IPv6 address
NewDSysIPFamily	Family of remote the device system ip	Enumeration: • IPv4 • IPv6	N/A
SrcIP	Encapsulated source IP address	String.	IPv4 address IPv6 address
SrcIPFamily	Family of encapsulated source IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstIP	Encapsulated destination IP address	String.	IPv4 address IPv6 address
DstIPFamily	Family of encapsulated destination IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
DstPrivateIP	Encapsulated destination private IP address	String.	IPv4 address IPv6 address
DstPrivateIPFamily	Family of encapsulated destination private IP address	Enumeration: • **2—IPv4** • **10—IPv6**	N/A
SrcPort	Source port	N/A	Unsigned integer. Value range: 1 to 65535.
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.
Status	TTE connection status	Boolean: • **true**—Reachable • **false**—Unreachable	N/A
BandWidth	TTE connection bandwidth	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

SdwanTlsStatusEvent event

This event is used to report SDWAN TLS connection status.

XML structure for event subscription

```
<SdwanTlsStatusEvent>
</SdwanTlsStatusEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTlsStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
      </SdwanTlsStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTlsStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

XML structure for event report

```
<SdwanTlsStatusEvent>
  <SdwanTlsStatus>
    <SystemIP></SystemIP>
    <NewSystemIP></NewSystemIP>
    <NewSystemIPFamily></NewSystemIPFamily>
    <PeerIP></PeerIP>
    <PeerIPFamily></PeerIPFamily>
    <PeerPort></PeerPort>
    <VPNInstance></VPNInstance>
    <Status></Status>
    <Reason></Reason>
  </SdwanTlsStatus>
</SdwanTlsStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-03-12T09:10:51</eventTime>
  <SdwanTlsStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <SdwanTlsStatus>
      <SystemIP>10.1.1.1</SystemIP>
      <NewSystemIP>10.1.1.1</NewSystemIP>
      <NewSystemIPFamily>IPv4</NewSystemIPFamily>
      <PeerIP>10.1.1.100</PeerIP>
      <PeerIPFamily>IPv4</PeerIPFamily>
      <PeerPort>2000</PeerPort>
      <VPNInstance>vpn1</VPNInstance>
```

```
      <Status>Disconnected</Status>
      <Reason>1</Reason>
    </SdwanTlsStatus>
  </SdwanTlsStatusEvent>
</notification>
```

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**	**Remarks**
SystemIP	System IP of a remote device	IPv4 address, dotted decimal notation.	No	N/A
NewSystemIP	System IP of a remote device	String.	No	N/A
NewSystemIPFamily	Family of the remote device system IP	Enumeration: • IPv4 • IPv6	No	N/A
PeerIP	IP of the remote device	String.	No	N/A
PeerIPFamily	Family of peer IP	Enumeration: • IPv4 • IPv6	No	N/A
PeerPort	Peer port	Unsigned integer Value range: 1 to 65535.	No	N/A
VPNInstance	VPN instance	String Length range: 1 to 31.	No	N/A
Status	TLS link status	Enumeration: • Connected • Disconnected	No	N/A
Reason	Disconnected Reason	Unsigned integer Value range: 1 to 3.	No	**1**—Other **2**—Failed to connect to the server **3**—Configuration change

SdwanTlsAddEvent event

This event is used to report SDWAN TLS information when an TLS added.

XML structure for event subscription

```
<SdwanTlsAddEvent>
</SdwanTlsAddEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTlsAddEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
      </SdwanTlsAddEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN
Event name	SdwanTlsAddEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

XML structure for event report

```
<SdwanTlsAddEvent>
  <SdwanTlsAdd>
    <SystemIP></SystemIP>
    <NewSystemIP></NewSystemIP>
    <NewSystemIPFamily></NewSystemIPFamily>
    <PeerIP></PeerIP>
    <PeerIPFamily></PeerIPFamily>
    <PeerPort></PeerPort>
    <VPNInstance></VPNInstance>
  </SdwanTlsAdd>
</SdwanTlsAddEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-03-12T09:10:51</eventTime>
  <SdwanTlsAddEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <SdwanTlsAdd>
      <SystemIP>10.1.1.1</SystemIP>
      <NewSystemIP>10.1.1.1</NewSystemIP>
      <NewSystemIPFamily>IPv4</NewSystemIPFamily>
      <PeerIP>10.1.1.100</PeerIP>
      <PeerIPFamily>IPv4</PeerIPFamily>
      <PeerPort>2000</PeerPort>
      <VPNInstance>vpn1</VPNInstance>
    </SdwanTlsAdd>
  </SdwanTlsAddEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
SystemIP	System IP of a remote device	IPv4 address, dotted decimal notation.	No
NewSystemIP	System IP of a remote device	String	No
NewSystemIPFamily	Family of the remote device system IP	Enumeration: • IPv4 • IPv6	No
PeerIP	IP of the remote device	String.	No
PeerIPFamily	Family of peer IP	Enumeration: • IPv4 • IPv6	No
PeerPort	Peer port	Unsigned integer Value range: 1 to 65535.	No
VPNInstance	VPN instance	String Length range: 1 to 31.	No

SdwanTlsDelEvent event

This event is used to report SDWAN TLS information when an TLS deleted.

XML structure for event subscription

```
<SdwanTlsDelEvent>
</SdwanTlsDelEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SDWAN</stream>
    <filter type="subtree">
      <SdwanTlsDelEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
      </SdwanTlsDelEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SDWAN

Item	Description
Event name	SdwanTlsDelEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/sdwan:1.0
Support for extended query	No

XML structure for event report

```
<SdwanTlsDelEvent>
  <SdwanTlsDel>
    <SystemIP></SystemIP>
    <NewSystemIP></NewSystemIP>
    <NewSystemIPFamily></NewSystemIPFamily>
    <PeerIP></PeerIP>
    <PeerIPFamily></PeerIPFamily>
    <PeerPort></PeerPort>
    <VPNInstance></VPNInstance>
  </SdwanTlsDel>
</SdwanTlsDelEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-03-12T09:10:51</eventTime>
  <SdwanTlsDelEvent xmlns="http://www.h3c.com/netconf/event:1.0/sdwan:1.0">
    <SdwanTlsDel>
      <SystemIP>10.1.1.1</SystemIP>
      <NewSystemIP>10.1.1.1</NewSystemIP>
      <NewSystemIPFamily>IPv4</NewSystemIPFamily>
      <PeerIP>10.1.1.100</PeerIP>
      <PeerIPFamily>IPv4</PeerIPFamily>
      <PeerPort>2000</PeerPort>
      <VPNInstance>vpn1</VPNInstance>
    </SdwanTlsDel>
  </SdwanTlsDelEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
SystemIP	System IP of a remote device	IPv4 address, dotted decimal notation.	No
NewSystemIP	System IP of a remote device	String..	No
NewSystemIPFamily	Family of the remote device system IP	Enumeration: • IPv4 • IPv6	No

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
PeerIP	IP of the remote device	String.	No
PeerIPFamily	Family of peer IP	Enumeration: • IPv4 • IPv6	No
PeerPort	Peer port	Unsigned integer Value range: 1 to 65535.	No
VPNInstance	VPN instance	String Length range: 1 to 31.	No

Contents

SecDiag 1
SecDiag/ExportLogfile 1
XML structure 1
Response XML structure 1
Table description 1
Columns 1
Response columns 2
SecDiag/ExportConfiguration 2
XML structure 2
Response XML structure 3
Table description 3
Columns 3
Response columns 3
SecDiag/ExportDiagnosis 4
XML structure 4
Response XML structure 4
Table description 4
Columns 5
Response columns 5

SecDiag

SecDiag/ExportLogfile

This table is used to export log files of contexts.

XML structure

```
<SecDiag>
  <ExportLogfile>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportLogfile>
</SecDiag>
```

Response XML structure

```
<SecDiag>
  <ExportLogfile>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportLogfile>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportLogfile
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts secleted on the Web.	Data structure	Members include: • ContextID	If no context is selected, information about all contexts is exported.

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: **logfile***date***.tar.gz** Date format: YYYYMMDDhhmmss	Example: logfile20170424000000.tar.gz. The filename cannot be **..tar.gz** or **…tar.gz**, or contain any of the following characters: " / : \ ? \\ < > | *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: • **true**—Overwrites the file. • **fasle**—Does not overwrite the file.	By default, the value of this column is **false**.

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration: • **0**—Succeeded. • **1**—File already exists.	N/A
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

SecDiag/ExportConfiguration

This table is used to export configuration files of contexts.

XML structure

```
<SecDiag>
  <ExportConfiguration>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportConfiguration>
</SecDiag>
```

Response XML structure

```
<SecDiag>
  <ExportConfiguration>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportConfiguration>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts secleted on the Web.	Data structure	Members include: • ContextID	If no context is selected, information about all contexts is exported.
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: **config***date***.tar.gz** Date format: YYYYMMDDhhmmss	Example: config20170424000000 .tar.gz. The filename cannot be **..tar.gz** or **…tar.gz**, or contain any of the following characters: " / : \ ? \\ < > | *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: • **true**—Overwrites the file. • **fasle**—Does not overwrite the file.	By default, the value of this column is **false**.

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration:	N/A

Column name	Column description	Data type and restrictions	Remarks
		• **0**—Succeeded. • **1**—File already exists.	
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

SecDiag/ExportDiagnosis

This table is used to export diagnosis files of contexts.

XML structure

```
<SecDiag>
  <ExportDiagnosis>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportDiagnosis>
</SecDiag>
```

Response XML structure

```
<SecDiag>
  <ExportDiagnosis>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportDiagnosis>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportDiagnosis
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts secleted on the Web.	Data structure	Members include: • ContextID	If no context is selected, information about all contexts is exported.
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: **diag***date***.tar.gz** Date format: YYYYMMDDhhmmss	Example: diag20170424000000.tar.gz. The filename cannot be **..tar.gz** or **…tar.gz**, or contain any of the following characters: " / : \ ? \\ < > | *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: • **true**—Overwrites the file. • **fasle**—Does not overwrite the file.	By default, the value of this column is **false**.

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration: • **0**—Succeeded. • **1**—File already exists.	N/A
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

Contents

SecDiag 1
SecDiag/BandwidthGlobal 1
XML structure 1
Table description 1
Columns 1

SecDiag

SecDiag/BandwidthGlobal

This table contains bandwidthalert global configuration information.

XML structure

```
<SecDiag>
  <BandwidthGlobal>
    <BandwidthLimit></BandwidthLimit>
    <TimeInterval></TimeInterval>
    <Logging></Logging>
  </BandwidthGlobal>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	BandwidthGlobal
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthLimit	Threshold of the inbound flow around the whole device.	N/A	Unsigned integer. Value range: 0 to 4294967295 in Mbps. Default: 0.	N/A
TimeInterval	The interval time to check the inbound flow forward.	N/A	Unsigned integer. Value range: 5 to 300 in seconds. Default: 300.	The interval value should be multiple of five.
Logging	Switch of the threshold logging.	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

Contents

SecDiag 1
SecDiag/BandwidthGlobal 1
XML structure 1
Table description 1
Columns 1
SecDiag/ExportRatio 1
XML structure 2
Table description 2
Columns 2

SecDiag

SecDiag/BandwidthGlobal

This table contains bandwidthalert global information.

XML structure

```
<SecDiag>
  <BandwidthGlobal>
    <BandwidthLimit></BandwidthLimit>
    <TimeInterval></TimeInterval>
    <Logging></Logging>
  </BandwidthGlobal>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	BandwidthGlobal
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthLimit	Threshold of the inbound flow around the whole device.	N/A	Unsigned integer. Value range: 0 to 4294967295 in Mbps.	N/A
TimeInterval	The interval time to check the inbound flow forward.	N/A	Unsigned integer. Value range: 5 to 300 in seconds.	The interval value should be multiple of five.
Logging	Switch of the threshold logging..	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

SecDiag/ExportRatio

This table is used to obtain the export progress.

XML structure

```
<SecDiag>
  <ExportRatio>
    <Ratio></Ratio>
    <ExportType></ExportType>
  </ExportRatio>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportRatio
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions	Remarks
Ratio	Export progress.	Unsigned integer. Value range: 0 to100.	Exporting : 0 to 100
ExportType	Type of data is being exported.	Enumeration: • **0**—No data is being exported. • **1**—Log file. • **2**—Diagnosis information. • **3**—Configuration information.	Only one type is supported at a time.

Contents

SecDiag 2
SecDiag/ExportLogfile 2
SecDiag/ExportConfiguration 2
SecDiag/ExportDiagnosis 3

SecDiag

SecDiag/ExportLogfile

Message	Explanation
Invalid file name or directory. 文件名或路径错误，请输入正确的文件名和路径。	The filename or directory is wrong. 文件名或路径错误。
The storage space or memory is not enough. 设备的存储或内存空间不足，无法进行信息收集。	The device storage is not sufficient. 设备的存储或内存空间不足。
Only one user can export data at a time. 已有用户正在收集信息，请稍候。	Only one user is allowed to collect information at one time. 已有用户正在收集统计信息，不支持多用户同时收集信息。
File already exists. 文件已存在。	The file already exits on the device. 文件已存在。
Sorry, you are not authorized to perform the operation. 用户权限不足。	The user is not authorized to perform the operation. 用户权限不足。
One or more of the contexts don't exist or are unavailable. 虚拟设备不存在或连接异常。	One or more of the contexts do not exist or are unavailable for collecting information. 要收集信息的context不存在或连接异常。
The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。	The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。
No information to export. 不存在日志文件，无法收集信息。	No log files exist to collect information. 不存在日志文件，无法收集信息。
Others error. 其他错误。	Other errors. 其他错误。

SecDiag/ExportConfiguration

Message	Explanation
Invalid file name or directory. 文件名或路径错误，请输入正确的文件名和路径。	The filename or directory is wrong. 文件名或路径错误。
The storage space or memory is not enough. 设备的存储或内存空间不足，无法进行信息收集。	The device storage is not sufficient. 设备的存储或内存空间不足。
Only one user can export data at a time. 已有用户正在收集统计信息，请稍候。	Only one user is allowed to collect information at one time. 已有用户正在收集统计信息，不支持多用户同时收集信息。
File already exists. 文件已存在。	The file already exits on the device. 文件已存在。
Sorry, you are not authorized to perform the operation. 用户权限不足。	The user is not authorized to perform the operation. 用户权限不足。

One or more of the contexts don't exist or are unavailable. 虚拟设备不存在或连接异常。	One or more of the contexts do not exist or are unavailable for collecting information. 要收集信息的context不存在或连接异常。
The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。	The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。
Other error. 其他错误。	Other errors. 其他错误。

SecDiag/ExportDiagnosis

Message	Explanation
Invalid file name or directory. 文件名或路径错误，请输入正确的文件名和路径。	The filename or directory is wrong. 文件名或路径错误。
The storage space or memory is not enough. 设备的存储或内存空间不足，无法进行信息收集。	The device storage is not sufficient. 设备的存储或内存空间不足。
Only one user can export data at a time. 已有用户正在收集信息，请稍候。	Only one user is allowed to collect information at one time. 已有用户正在收集统计信息，不支持多用户同时收集信息。
File already exists. 文件已存在。	The file already exits on the device. 文件已存在。
Sorry, you are not authorized to perform the operation. 用户权限不足。	The user is not authorized to perform the operation. 用户权限不足。
One or more of the contexts don't exist or are unavailable. 虚拟设备不存在或连接异常。	One or more of the contexts do not exist or are unavailable for collecting information. 要收集信息的context不存在或连接异常。
The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。	The extension of the file name must be .tar.gz. 文件名后缀错误，请输入以“.tar.gz”结尾的文件名。
Failed to read the configuration file. 配置文件读取失败。	Failed to read the configuration file. 配置文件读取失败。
Other error. 其他错误。	Other errors. 其他错误。

Contents

SECM 1
SECM/SecurityAuditServer 1
XML structure 1
Table description 1
Columns 1
SECM/ SecurityAuditLog 1
XML structure 1
Table description 2
Columns 2
SECM/ SwitchAll 2
XML structure 2
Table description 2
Columns 3

SECM

SECM/SecurityAuditServer

This table contains Security audit server table information.

XML structure

```
<SECM>
  <SecurityAuditServer>
    <IP></IP>
    <port></port>
  </SecurityAuditServer>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SecurityAuditServer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IP	Security audit server IP address	N/A	IPv4: String, dotted decimal notation.	IPv4 address example: 1.1.1.1.
port	Security audit server port number	N/A	Unassigned integer. Value range: 1 to 65535.	N/A.

SECM/ SecurityAuditLog

This table contains enabling status of the security audit logging..

XML structure

```
<SECM>
```

```
  <SecurityAuditLog>
            <Enable></Enable>
  </SecurityAuditLog>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SecurityAuditLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of security audit logging	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

SECM/ SwitchAll

This table contains enabling status of security management and security audit logging.

XML structure

```
<SECM>
  <SwitchAll>
    <Enable></Enable>
  </SwitchAll>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SwitchAll
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the security management and security audit logging	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

Contents

SECM 1
SECM/SecurityAuditServer 1
XML structure 1
Table description 1
Columns 1
SECM/SecurityAuditLog 1
XML structure 1
Table description 2
Columns 2
SECM/ SwitchAll 2
XML structure 2
Table description 2
Columns 3

SECM

SECM/SecurityAuditServer

This table contains Security audit server table information.

XML structure

```
<SECM>
  <SecurityAuditServer>
    <IP></IP>
    <port></port>
  </SecurityAuditServer>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SecurityAuditServer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IP	SecurityAudit server IP.	N/A	IPv4: String, dotted decimal notation..	IPv4 address example: 1.1.1.1.
port	SecurityAudit server port.	N/A	Unassigned integer. Value range: 1 to 65535	N/A.

SECM/SecurityAuditLog

This table contains SecurityAudit log switch information..

XML structure

```
<SECM>
  <SecurityAuditLog>
    <Enable></Enable>
```

```
  </SecurityAuditLog>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SecurityAuditLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	SecurityAudit log switch.	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

SECM/ SwitchAll

This table contains SecurityManagement log switch information..

XML structure

```
<SECM>
  <SwitchAll>
    <Enable></Enable>
  </SwitchAll>
</SECM>
```

Table description

Item	Description
Feature name	SECM
Table name	SwitchAll
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	SecurityManagement and SecurityAudit log switch.	N/A	Boolean: • **true**—Enable. • **false**—Disable..	N/A

Contents

SecSystem 1
SecSystem/DevTypeSuffix 1
XML structure 1
Table description 1
Columns 1

SecSystem

SecSystem/DevTypeSuffix

This table contains the operation information for configure location suffix.

XML structure

```
<SecSystem>
  <DevTypeSuffix>
    <Suffix>
    </Suffix>
  </DevTypeSuffix>
</SecSystem>
```

Table description

Item	Description
Feature name	SecSystem
Table name	DevTypeSuffix
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Suffix	Location Suffix.	N/A	String, case insensitive. Length: 4 characters.	Each characer is 0-9 or a-z or A-Z

Contents

SecSystem 1
SecSystem/DevTypeSuffix 1
XML structure 1
Table description 1
Columns 1

SecSystem

SecSystem/DevTypeSuffix

This table contains the operation information to get device type suffix.

XML structure

```
<SecSystem>
  <DevTypeSuffix>
    <Suffix>
    </Suffix>
  </DevTypeSuffix>
</SecSystem>
```

Table description

Item	Description
Feature name	SecSystem
Table name	DevTypeSuffix
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Suffix	Device Type Suffix.	N/A	String, case insensitive. Length: 4 characters.	Each characer is 0-9 or a-z or A-Z

Contents

SECURITYCONTROL 1
SECURITYCONTROL/SwitchSecurityLevel 1
XML structure 1
Table description 1
Columns 1

SECURITYCONTROL

SECURITYCONTROL/SwitchSecurityLevel

This table is used to switch the security level.

XML structure

```
<SECURITYCONTROL>
  <SwitchSecurityLevel>
     <SecurityLevel></SecurityLevel>
  </SwitchSecurityLevel>
</SECURITYCONTROL>
```

Table description

Item	Description
Feature name	SECURITYCONTROL
Table name	SwitchSecurityLevel
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityLevel	Current security level	N/A	Enumeration: 1—level 1. 2—level 2.	N/A

Contents

SECURITYCONTROL 1
SECURITYCONTROL/SwitchSecurityLevel 1
XML structure 1
Table description 1
Columns 1

SECURITYCONTROL

SECURITYCONTROL/SwitchSecurityLevel

This table is used to switch the security level.

XML structure

```
<SECURITYCONTROL>
  <SwitchSecurityLevel>
     <SecurityLevel></SecurityLevel>
  </SwitchSecurityLevel>
</SECURITYCONTROL>
```

Table description

Item	Description
Feature name	SECURITYCONTROL
Table name	SwitchSecurityLevel
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityLevel	Current security level	N/A	Enumeration: 1—level 1. 2—level 2.	N/A

Contents

SecurityPolicies 1

SecurityPolicies/ClearRuleStatistic 1
XML structure 1
Table description 1
Columns 1
SecurityPolicies/CommitCfgChange 2
XML structure 2
Table description 2
Columns 2
SecurityPolicies/MoveIPv4Rule 2
XML structure 2
Table description 3
Columns 3
SecurityPolicies/MoveIPv6Rule 3
XML structure 3
Table description 4
Columns 4
SecurityPolicies/RedundancyRulesCheck 4
XML structure 4
Table description 5
Columns 5
SecurityPolicies/SingleOptimized 5
XML structure 5
Table description 5
Columns 6
SecurityPolicies/BatchOptimized 6
XML structure 6
Table description 7
Columns 7
SecurityPolicies/MoveIPv4RuleGroup 7
XML structure 7
Table description 8
Columns 8
SecurityPolicies/MoveIPv6RuleGroup 8
XML structure 8
Table description 9
Columns 9
SecurityPolicies/RenameIPv4RuleGrp 9
XML structure 9
Table description 10
Columns 10
SecurityPolicies/RenameIPv6RuleGrp 10
XML structure 10
Table description 10
Columns 11
SecurityPolicies/ExportSecurityPolicies 11
XML structure 11
Table description 11
Columns 12
SecurityPolicies/ImportSecurityPolicies 13
XML structure 13
Table description 13
Columns 14
SecurityPolicies/RenameRule 14
XML structure 14
Table description 14
Columns 14

SecurityPolicies/ClearDefaultRuleStatistic ····· 15
XML structure ····· 15
Table description ····· 15
Columns ····· 15
SecurityPolicies/ClearLearningRecords ····· 15
XML structure ····· 16
Table description ····· 16
Columns ····· 16
SecurityPolicies/AutoDeployLearningSwitch ····· 16
XML structure ····· 16
Table description ····· 16
Columns ····· 17
SecurityPolicies/ClearAutoDeployRecords ····· 17
XML structure ····· 17
Table description ····· 17
Columns ····· 17
SecurityPolicies/RulesCounting ····· 18
XML structure ····· 18
Table description ····· 18
Columns ····· 18
SecurityPolicies/RulesCounting ····· 错误!未定义书签。
XML structure ····· 错误!未定义书签。
Table description ····· 18
Columns ····· 18

SecurityPolicies

SecurityPolicies/ClearRuleStatistic

This table contains the operation information for a security policy rule.

XML structure

```
<SecurityPolicies>
  <ClearRuleStatistic>
    <Rule>
      <RuleID></RuleID>
      <ClearType></ClearType>
      <Clear></Clear>
    </Rule>
  </ClearRuleStatistic>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ClearRuleStatistic
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
ClearType	Type of statistics to be cleared.	N/A	Enumeration: • 1—IPv4 statistics. • 2—IPv6 statistics.	N/A
Clear	Clears security policy rule statistics.	N/A	This column must be empty.	Required.

SecurityPolicies/CommitCfgChange

This table contains the commit operation for configuration changes.

XML structure

```
<SecurityPolicies>
  <CommitCfgChange>
    <Commit></Commit>
  </CommitCfgChange>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	CommitCfgChange
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Commit	Commits configuration changes.	N/A	This column must be empty.	Required.

SecurityPolicies/MoveIPv4Rule

This table contains information about moving an IPv4 security policy rule within an IPv4 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv4Rule>
    <Rule>
      <ID></ID>
      <MoveType></MoveType>
      <DestID></DestID>
    </Rule>
  </MoveIPv4Rule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
MoveType	Type of the move operation.	Index	Enumeration: • 1—Head. • 2—Before. • 3—After. • 4—Tail. • 5—Up. • 6—Down.	N/A
DestID	Destination rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.	N/A

SecurityPolicies/MoveIPv6Rule

This table contains information about moving an IPv6 security policy rule within an IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv6Rule>
    <Rule>
      <ID></ID>
      <MoveType></MoveType>
      <DestID></DestID>
    </Rule>
  </MoveIPv6Rule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
MoveType	Type of the move operation.	Index	Enumeration: • 1—Head. • 2—Before. • 3—After. • 4—Tail. • 5—Up. • 6—Down.	N/A
DestID	Destination rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.	N/A

SecurityPolicies/RedundancyRulesCheck

This table contains information about checking redundant security policy rules.

XML structure

```
<SecurityPolicies>
  <RedundancyRulesCheck>
    <Action></Action>
  </RedundancyRulesCheck>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RedundancyRulesCheck
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action of checking redundant rules.	N/A	Enumeration: • 1—Start. • 2—Stop.	N/A

SecurityPolicies/SingleOptimized

This table contains the optimization operation for single risky security policy rule.

XML structure

```
<SecurityPolicies>
  <SingleOptimized>
    <PolicyType></PolicyType>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <Profile></Profile>
    <ParentID></ParentID>
    <ParentName></ParentName>
    <IsAppTicked></IsAppTicked>
  </SingleOptimized>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	SingleOptimized
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyType	Rule type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.	Required.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.	Required.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Required.
Profile	Profile name.	N/A	String. Length: 1 to 63 characters.	Required.
ParentID	Parent rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.	Required.
ParentName	Parent rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Required.
IsAppTicked	Whether the application being ticked.	N/A	Boolean: • true—Enable. • false—Disable.	Required.

SecurityPolicies/BatchOptimized

This table contains the optimization operation for some risky security policy rules.

XML structure

```
<SecurityPolicies>
  <BatchOptimized>
    <OptimizeType></OptimizeType>
    <Commit></Commit>
  </BatchOptimized>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	BatchOptimized
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptimizeType	The time range of optimization.	Index	Enumeration: • 0—Today. • 1—Last Three Days. • 2—Last Week. • 3—Last Month.	Required
Commit	Commit batch optimization operation.	N/A	This column must be empty.	Required.

SecurityPolicies/MoveIPv4RuleGroup

This table contains information about moving a rule group within an IPv4 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv4RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Direction></Direction>
      <DestinationType></DestinationType>
      <DestinationName></DestinationName>
    </RuleGroup>
  </MoveIPv4RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Direction	Moving direction	Index	Enumeration: • 1—Before. • 2—After.	N/A
DestinationType	Type of destination	Index	Enumeration: • 1—Rule group. • 2—Rule.	N/A
DestinationName	Target rule group name or rule name	Index	String, case-insensitive. Length: 1 to 127 characters.	N/A

SecurityPolicies/MoveIPv6RuleGroup

This table contains information about moving a rule group within an IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Direction></Direction>
      <DestinationType></DestinationType>
     <DestinationName></DestinationName>
    </RuleGroup>
  </MoveIPv6RuleGroup>
```

```
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Direction	Moving direction	Index	Enumeration: • 1—Before. • 2—After.	N/A
DestinationType	Type of destination	Index	Enumeration: • 1—Rule group. • 2—Rule.	N/A
DestinationName	Target rule group name or rule name	Index	String, case-insensitive. Length: 1 to 127 characters.	N/A

SecurityPolicies/RenameIPv4RuleGrp

This table contains information about renaming a rule group within an IPv4 security policy.

XML structure

```
<SecurityPolicies>
  <RenameIPv4RuleGrp>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <NewRuleGroupName></NewRuleGroupName>
    </RuleGroup>
  </RenameIPv4RuleGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RenameIPv4RuleGrp
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NewRuleGroupName	New rule group name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/RenameIPv6RuleGrp

This table contains information about renaming a rule group within an IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <RenameIPv6RuleGrp>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <NewRuleGroupName></NewRuleGroupName>
    </RuleGroup>
  </RenameIPv6RuleGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RenameIPv6RuleGrp
Table type	Multi-instance table
Row name	RuleGroup

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NewRuleGroupName	New rule group name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/ExportSecurityPolicies

This table contains information about exporting security policy rules.

XML structure

```
<SecurityPolicies>
  <ExportSecurityPolicies>
    <FileName></FileName>
    <SecZone></SecZone>
    <AddrOMS></AddrOMS>
    <SrvOMS></SrvOMS>
    <App></App>
    <Terminal></Terminal>
    <Location></Location>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Profile></Profile>
    <Policy></Policy>
    <User></User>
    <Mac></Mac>
    <URL></URL>
  </ExportSecurityPolicies>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ExportSecurityPolicies

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the export file	N/A	String: Length: 1 to 255 characters.	N/A
SecZone	Whether the configuration of security zones needs to be exported	N/A	Boolean: • true • false	N/A
AddrOMS	Whether the configuration of address object groups needs to be exported	N/A	Boolean: • true • false	N/A
SrvOMS	Whether the configuration of service object groups needs to be exported	N/A	Boolean: • true • false	N/A
App	Whether the configuration of applications and application groups needs to be exported	N/A	Boolean: • true • false	N/A
Terminal	Whether the configuration of terminals and terminal groups needs to be exported	N/A	Boolean: • true • false	N/A
Location	Whether the configuration of locations and loc ation groups needs to be exported	N/A	Boolean: • true • false	N/A
TimeRange	Whether the configuration of time ranges needs to be exported	N/A	Boolean: • true • false	N/A
VRF	Whether the configuration of VRT need be export or not	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Whether the configuration of VPN instances needs to be exported	N/A	Boolean: • true • false	N/A
Policy	Whether the configuration of profiles needs to be exported	N/A	Boolean: • true • false	N/A
User	Whether the configuration of security policies needs to be exported	N/A	Boolean: • true • false	N/A
Mac	Whether the configuration of users and user groups needs to be exported	N/A	Boolean: • true • false	N/A
URL	Whether the configuration of URL category needs to be exported	N/A	Boolean: • true • false	N/A

SecurityPolicies/ImportSecurityPolicies

This table contains information about importing security policy rules.

XML structure

```
<SecurityPolicies>
  <ImportSecurityPolicies>
    <FileName></FileName>
  </ImportSecurityPolicies>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ImportSecurityPolicies
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the import file	N/A	String: Length: 1 to 255 characters.	N/A

SecurityPolicies/RenameRule

This table contains information about renaming a rule within an IPv4/ IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <RenameRule>
    <Rule>
      <Type></Type>
      <RuleName></RuleName>
      <NewRuleName></NewRuleName>
    </Rule>
  </RenameRule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RenameRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Rule Type	Index	Enumeration: • 1—IPv4. • 2—IPv6.	Type
RuleName	Rule name.	Index	String, case-insensitive.	N/A

			Length: 1 to 127 characters.	
NewRuleName	New rule name	Index	String, case-insensitive. Length: 1 to 127characters.	N/A

SecurityPolicies/ClearDefaultRuleStatistic

This table contains the operation information for a security policy default rule.

XML structure

```
<SecurityPolicies>
  <ClearDefaultRuleStatistic>
    <ClearType></ClearType>
    <Clear></Clear>
  </ClearDefaultRuleStatistic>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ClearDefaultRuleStatistic
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClearType	Type of statistics to be cleared.	N/A	Enumeration: • 1—IPv4 statistics. • 2—IPv6 statistics.	Required.
Clear	Clears statistics for the security policy default rule.	N/A	This column must be empty.	Required.

SecurityPolicies/ClearLearningRecords

This table contains information about clearing the learning records of security policy rule.

XML structure

```
<SecurityPolicies>
  <ClearLearningRecords>
    <Reset></Reset>
  </ClearLearningRecords>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ClearLearningRecords
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Clear the learning records of security policy rule.	N/A	This column must be empty.	Required.

SecurityPolicies/AutoDeployLearningSwitch

This table contains information about switching to security policy auto deployment.

XML structure

```
<SecurityPolicies>
  <AutoDeployLearningSwitch>
    <Switch></Switch>
  </AutoDeployLearningSwitch>
</SecurityPolicies>
```

Table description

Item	**Description**
Feature name	SecurityPolicies
Table name	AutoDeployLearningSwitch

Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switch	Switching to security policy auto deployment learning.	N/A	Enumeration: • **0**—Stop. • **1**—Start.	N/A.

SecurityPolicies/ClearAutoDeployRecords

This table contains information about clearing auto deployment records.

XML structure

```
<SecurityPolicies>
  <ClearAutoDeployRecords>
    <Reset></Reset>
  </ClearAutoDeployRecords>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ClearAutoDeployRecords
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Clear auto deployment records.	N/A	This column must be empty.	Required.

SecurityPolicies/RulesCounting

This table contains rule counting information for security policies.

XML structure

```
<SecurityPolicies>
  <RulesCounting>
    <Enable></Enable>
  </RulesCounting>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RulesCounting
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable rule counting for security policies.	N/A	Boolean: • **true**—Enable. • **false**—Disable.

Contents

SecurityPolicies 1

SecurityPolicies/IPv4Rules 1
XML structure 1
Table description 1
Columns 2
SecurityPolicies/IPv6Rules 3
XML structure 3
Table description 4
Columns 4
SecurityPolicies/IPv4SrcSecZone 6
XML structure 6
Table description 6
Columns 6
SecurityPolicies/IPv6SrcSecZone 7
XML structure 7
Table description 7
Columns 7
SecurityPolicies/IPv4DestSecZone 8
XML structure 8
Table description 8
Columns 9
SecurityPolicies/IPv6DestSecZone 9
XML structure 9
Table description 10
Columns 10
SecurityPolicies/IPv4SrcAddr 10
XML structure 10
Table description 11
Columns 11
SecurityPolicies/IPv6SrcAddr 12
XML structure 12
Table description 12
Columns 12
SecurityPolicies/IPv4DestAddr 13
XML structure 13
Table description 13
Columns 14
SecurityPolicies/IPv6DestAddr 14
XML structure 14
Table description 15
Columns 15
SecurityPolicies/IPv4SrcMacAddr 15
XML structure 15
Table description 16
Columns 16
SecurityPolicies/IPv4ServGrp 17
XML structure 17
Table description 17
Columns 17
SecurityPolicies/IPv6ServGrp 18
XML structure 18
Table description 18
Columns 19
SecurityPolicies/IPv4App 19
XML structure 19
Table description 20
Columns 20

SecurityPolicies/IPv6App ····· 20
XML structure ····· 20
Table description ····· 21
Columns ····· 21
SecurityPolicies/IPv4AppGrp ····· 21
XML structure ····· 22
Table description ····· 22
Columns ····· 22
SecurityPolicies/IPv6AppGrp ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
SecurityPolicies/IPv4User ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 25
SecurityPolicies/IPv6User ····· 25
XML structure ····· 25
Table description ····· 26
Columns ····· 26
SecurityPolicies/IPv4UserGrp ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27
SecurityPolicies/IPv6UserGrp ····· 28
XML structure ····· 28
Table description ····· 29
Columns ····· 29
SecurityPolicies/Accelerate ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
SecurityPolicies/IPv4RuleGroup ····· 30
XML structure ····· 30
Table description ····· 31
Columns ····· 31
SecurityPolicies/IPv6RuleGroup ····· 31
XML structure ····· 32
Table description ····· 32
Columns ····· 32
SecurityPolicies/IPv4SrcSimpleAddr ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 33
SecurityPolicies/IPv4DestSimpleAddr ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 35
SecurityPolicies/IPv4ServObj ····· 35
XML structure ····· 35
Table description ····· 36
Columns ····· 36
SecurityPolicies/IPv4Terminal ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
SecurityPolicies/IPv6Terminal ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 40
SecurityPolicies/IPv4TerminalGrp ····· 40
XML structure ····· 40

Table description 41
Columns 41
SecurityPolicies/IPv6TerminalGrp 41
XML structure 41
Table description 42
Columns 42
SecurityPolicies/IPv6SrcSimpleAddr 42
XML structure 43
Table description 43
Columns 43
SecurityPolicies/IPv6DestSimpleAddr 44
XML structure 44
Table description 44
Columns 45
SecurityPolicies/IPv6ServObj 45
XML structure 45
Table description 46
Columns 46
SecurityPolicies/IPv4SSID 48
XML structure 48
Table description 48
Columns 48
SecurityPolicies/IPv4AP 49
XML structure 49
Table description 49
Columns 50
SecurityPolicies/IPv4APGroup 50
XML structure 50
Table description 50
Columns 51
SecurityPolicies/IPv4URL 51
XML structure 51
Table description 52
Columns 52
SecurityPolicies/IPv6URL 52
XML structure 52
Table description 53
Columns 53
SecurityPolicies/IPv4SrcLocation 54
XML structure 54
Table description 54
Columns 54
SecurityPolicies/IPv4DestLocation 55
XML structure 55
Table description 55
Columns 55
SecurityPolicies/IPv4SrcLocationGrp 56
XML structure 56
Table description 56
Columns 57
SecurityPolicies/IPv4DestLocationGrp 57
XML structure 57
Table description 57
Columns 58
SecurityPolicies/IPv4DefaultRule 58
XML structure 58
Table description 59
Columns 59
SecurityPolicies/IPv6DefaultRule 59
XML structure 59
Table description 59
Columns 60

SecurityPolicies/AutoDeploy ····· 60
XML structure ····· 60
Table description ····· 61
Columns ····· 61

SecurityPolicies

SecurityPolicies/IPv4Rules

This table contains IPv4 rule information.

XML structure

```
<SecurityPolicies>
  <IPv4Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
      <RuleGroupName></RuleGroupName>
      <Position></Position>
      <LearningSwitch></LearningSwitch>
      <AnyVRF></AnyVRF>
    </Rule>
  </IPv4Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.	
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value cannot be the word default.
Action	Action for the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.	Required when you create a rule or modify a rule through the **replace** operation.
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.
TimeRange	Name of the time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Enable	Whether to enable the rule.	N/A	Boolean: • true—Enable (default). • false—Disable.	Optional.
Log	Whether to enable logging.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
Counting	Whether to enable counting.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
Comment	Description.	N/A	String. Length: 1 to 127 characters.	Optional.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.	Optional
SessAgingTimeSw	Whether to enable the session aging timer.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.	Optional.
SessPersistAgingTimeSw	Whether to enable the persistent session aging timer.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 indicates that the timer never ages out.	
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.	when you create a new rule ,the rule position only can be **Main**; when you modify a rule, if cloud connect state is online, the rule position only can be **Main**; When you set the rule position to pre, the rule will be placed before main; When you set the rule position to post, the rule will be placed after main;
LearningSwitch	Switch of learning	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Optional.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.

SecurityPolicies/IPv6Rules

This table contains IPv6 rule information.

XML structure

```
<SecurityPolicies>
  <IPv6Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
```

```
      <RuleGroupName></RuleGroupName>
      <Position></Position>
      <LearningSwitch></LearningSwitch>
      <AnyVRF></AnyVRF>
    </Rule>
  </IPv6Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID.	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	
RuleName.	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value cannot be the word **default**.
Action.	Action for the rule	N/A	Enumeration: • 1—Deny. • 2—Permit.	Required when you create a rule or modify a rule through the **replace** operation.
VRF.	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.
TimeRange.	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	It cannot be the word **all**.
Enable.	Whether to enable the rule	N/A	Boolean: • true—Enable (default). • false—Disable.	Optional.
Log.	Whether to enable logging	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
Counting.	Whether to enable	N/A	Boolean: • true—Enable.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
	counting		• false—Disable (default).	
Comment.	Description	N/A	String. Length: 1 to 127 characters.	Optional.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.	Optional
SessAgingTimeSw.	Whether to enable the session aging timer	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
SessAgingTime.	Session aging time period	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.	Optional.
SessPersistAgingTimeSw.	Whether to enable the persistent session aging timer.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
SessPersistAgingTime.	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.	Optional.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.	when you create a new rule ,the rule position only can be **Main**; when you modify a rule, if cloud connect state is online, the rule position only can be **Main**; When you set the rule position to pre, the rule will be placed before main; When you set the rule position to post, the rule will be placed after main;
LearningSwitch	Switch of learning	N/A	Boolean: • **true**—Enable. • **false**—Disable.	Optional
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.

SecurityPolicies/IPv4SrcSecZone

This table contains source security zone information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv4SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NameList	Name of the source security zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A source security zone list can contain a maximum of 16 source security zones.

SecurityPolicies/IPv6SrcSecZone

This table contains source security zone information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv6SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 4294967290.	
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the source security zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A source security zone list can contain a maximum of 16 source security zones.

SecurityPolicies/IPv4DestSecZone

This table contains destination security zone information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv4DestSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZone
Table type	Multi-instance table

Item	Description
Row name	DestSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the destination security zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A destination security zone list can contain a maximum of 16 destination security zones.

SecurityPolicies/IPv6DestSecZone

This table contains destination security zone information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
```

```
  </IPv6DestSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the destination security zone list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A destination security zone list can contain a maximum of 16 destination security zones.

SecurityPolicies/IPv4SrcAddr

This table contains source address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
```

```
  <IPv4SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </IPv4SrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the source IPv4 address list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	A maximum of 1024 source address names are supported in a user list. The name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ |

Column name	Column description	Column type	Data type and restrictions	Remarks
				/ : * ? < > @

SecurityPolicies/IPv6SrcAddr

This table contains source address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </IPv6SrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the source IPv6 address list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4DestAddr

This table contains destination address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv4DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the destination IPv4 address list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv6DestAddr

This table contains destination address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv6DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the destination IPv6 address list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4SrcMacAddr

This table contains source MAC address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcMacAddr>
```

```
    <SrcMacAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcMacAddr>
  </IPv4SrcMacAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddr
Table type	Multi-instance table
Row name	SrcMacAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the source IPv4 MAC address list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.	A maximum of 1024 source IPv4 MAC address names are supported in a user list. The name cannot be **any**, and it cannot contain any of the following characters: ?

SecurityPolicies/IPv4ServGrp

This table contains service object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv4ServGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment	N/A	Boolean: • true—Yes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the data		• false—No (default).	
NameList	Name of the service object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv6ServGrp

This table contains service object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv6ServGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the service object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4App

This table contains application information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </App>
  </IPv4App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4App
Table type	Multi-instance table
Row name	App
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the application list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6App

This table contains application information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
```

```
      <NameItem></NameItem>
    </NameList>
  </App>
 </IPv6App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6App
Table type	Multi-instance table
Row name	App
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the application list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4AppGrp

This table contains application group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv4AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the application group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	application group		Length: 1 to 63 characters.	

SecurityPolicies/IPv6AppGrp

This table contains application group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv6AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer.	This column is insignificant. Ignore the value in this

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 1024.	column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the application group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4User

This table contains user information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </User>
  </IPv4User>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4User
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the user list	Data structure	Members include: • NameItem	N/A
NameItem	Name of user	N/A	String, case-sensitive. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.	Form: user-name, user-name@domain-name. The user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @. The domain name cannot contain any of the following characters: \ | / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be **d**, **de**, **def**, **defa**, **defau**, **defaul**, **default**, **i**, **if**, **if-**, **if-u**, **if-un**, **if-unk**, **if-unkn**, **if-unkno**, **if-unknow**, or **if-unknown**.

SecurityPolicies/IPv6User

This table contains user information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
```

```
      </NameList>
    </User>
  </IPv6User>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6User
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the user list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the user	N/A	String, case-sensitive. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.	Form: user-name, user-name@domain-name. The user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @. The domain name cannot contain any of the following characters: \ | / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be **d**, **de**, **def**, **defa**, **defau**, **defaul**, **default**, **i**, **if**, **if-**, **if-u**, **if-un**, **if-unk**, **if-unkn**, **if-unkno**,

Column name	Column description	Column type	Data type and restrictions	Remarks
				if-unknow, or **if-unknown**.

SecurityPolicies/IPv4UserGrp

This table contains user group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
       <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv4UserGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the user group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the user group	N/A	String, case-insensitive. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters.	Form: user-group-name, user-group-name@domain-name. The domain name cannot contain any of the following characters: \ | / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be **d**, **de**, **def**, **defa**, **defau**, **defaul**, **default**, **i**, **if**, **if-**, **if-u**, **if-un**, **if-unk**, **if-unkn**, **if-unkno**, **if-unknow**, or **if-unknown**. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/IPv6UserGrp

This table contains user group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
       <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv6UserGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the user group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the user group	N/A	String, case-insensitive. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters.	Form: user-group-name, user-group-name@domain-name. The domain name cannot contain any of the following characters: \ | / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be **d**, **de**, **def**, **defa**, **defau**, **defaul**, **default**, **i**, **if**, **if-**, **if-u**, **if-un**, **if-unk**, **if-unkn**, **if-unkno**, **if-unknow**, or **if-unknown**. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/Accelerate

This table contains rule matching acceleration information for security policies.

XML structure

```
<SecurityPolicies>
  <Accelerate>
    <Enable></Enable>
  </Accelerate>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable rule matching acceleration for the security policy.	N/A	Boolean: • true—Enable (default). • false—Disable.	Optional.

SecurityPolicies/IPv4RuleGroup

This table contains information about an IPv4 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv4RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
```

```
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName><Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv4RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description.	Description	N/A	String. Length: 1 to 127 characters.	Optional.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional.
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.	Optional.
Enable	Enable the rule group.	N/A	Boolean: • true—Enable. • false—Disable.	Optional.

SecurityPolicies/IPv6RuleGroup

This table contains information about an IPv6 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv6RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column descriptio n	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description.	Description	N/A	String. Length: 1 to 127 characters.	Optional
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the rule group.	N/A	Boolean: • true—Enable. • false—Disable.	Optional

SecurityPolicies/IPv4SrcSimpleAddr

This table contains source address information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSimpleAddr>
    <SrcSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddr>
  </IPv4SrcSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSimpleAddr
Table type	Multi-instance table
Row name	SrcSimpleAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4294967290.	
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
SimpleAddrList	Source IPv4 address list	Data structure	Members include: • SimpleAddrItem	N/A
SimpleAddrItem	Source IPv4 address	N/A	String, case-insensitive. Length: 1 to 127 characters.	Form:IP, IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4DestSimpleAddr

This table contains destination address information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSimpleAddr>
    <DestSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddr>
  </IPv4DestSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSimpleAddr
Table type	Multi-instance table
Row name	DestSimpleAddr

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
SimpleAddrList	Destination IPv4 address list	Data structure	Members include: • SimpleAddrItem	N/A
SimpleAddrItem	Destination IPv4 address	N/A	String, case-insensitive.	Length: 1 to 127 characters. Form: IP,IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4ServObj

This table contains service information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServObj>
    <ServObj>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObj>
```

```
  </IPv4ServObj>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServObj
Table type	Multi-instance table
Row name	ServObj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
ServObjList	Service list	Data structure	Members include: • ServObjItem	N/A

ServObjItem	Service information	N/A	String, case-insensitive.
			Length: 1 to 255 characters.
				Form:
				{
				"Type": "",
				"StartSrcPort": "",
				"EndSrcPort": "",
				"StartDestPort": "",
				"EndDestPort": "",
				"ICMPType": "",
				"ICMPCode":"",
				"Protocol":"",
				}
				Type:
				Enumeration:
				• **0**—TCP (protocol

Column name	Column description	Column type	Data type and restrictions	Remarks
				number 6). • **1**—UDP (protocol number 17). • **2**—ICMP (protocol number 1). • **3**—ICMPv6 (protocol number 58). • **4**—Protocol. • **5**—SCTP (protocol number 132). **StartSrcPort:** **EndSrcPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is 0 or 1 or 5. **StartSrcPort** column and **EndSrcPort** column must be configured together with each other. **StartDestPort:** **EndDestPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is 0 or 1 or 5. **StartDestPort** column and **EndDestPort** column must be configured together with each other. **ICMPType:** **ICMPCode:** Unsigned integer. Value range: 0 to 255. Required when the **Type** column is **2** or **3**. **ICMPCode** column must be configured together with **ICMPType**. **Protocol:** Unsigned integer. Value range: 0 to 255.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Required when the Type column is **4**.

SecurityPolicies/IPv4Terminal

This table contains terminal information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4Terminal>
    <Terminal>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </Terminal>
  </IPv4Terminal>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Terminal
Table type	Multi-instance table
Row name	Terminal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Terminal list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6Terminal

This table contains terminal information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6Terminal>
    <Terminal>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </Terminal>
  </IPv6Terminal>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Terminal
Table type	Multi-instance table
Row name	Terminal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Terminal list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4TerminalGrp

This table contains terminal group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4TerminalGrp>
    <TerminalGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </TerminalGrp>
  </IPv4TerminalGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4TerminalGrp
Table type	Multi-instance table
Row name	TerminalGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Terminal group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6TerminalGrp

This table contains terminal group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6TerminalGrp>
    <TerminalGrp>
      <ID></ID>
      <SeqNum></SeqNum>
```

```
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </TerminalGrp>
  </IPv6TerminalGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6TerminalGrp
Table type	Multi-instance table
Row name	TerminalGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Terminal group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6SrcSimpleAddr

This table contains source address information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSimpleAddr>
    <SrcSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddr>
  </IPv6SrcSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSimpleAddr
Table type	Multi-instance table
Row name	SrcSimpleAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
SimpleAddrList	Source IPv6 address list	Data structure	Members include: • SimpleAddrItem	N/A
SimpleAddrItem	Source IPv6 address	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 127 characters. Form: IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.	

SecurityPolicies/IPv6DestSimpleAddr

This table contains destination address information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSimpleAddr>
    <DestSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddr>
  </IPv6DestSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSimpleAddr
Table type	Multi-instance table
Row name	DestSimpleAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
SimpleAddrList	Destination IPv6 address list	Data structure	Members include: • SimpleAddrItem	N/A
SimpleAddrItem	Destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.	N/A

SecurityPolicies/IPv6ServObj

This table contains service information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServObj>
    <ServObj>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObj>
  </IPv6ServObj>
```

```
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServObj
Table type	Multi-instance table
Row name	ServObj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
ServObjList	Service list	Data structure	Members include: • ServObjItem	N/A

ServObjItem	Service information	N/A	String, case-insensitive.
			Length: 1 to 255 characters.
				Form:
				{
				"Type": "",
				"StartSrcPort": "",
				"EndSrcPort": "",
				"StartDestPort": "",
				"EndDestPort": "",
				"ICMPType": "",
				"ICMPCode":"",
				"Protocol":"",
				}
				Type:
				Enumeration:
				• **0**—TCP (protocol number 6).

Column name	Column description	Column type	Data type and restrictions	Remarks
				• **1**—UDP (protocol number 17). • **2**—ICMP (protocol number 1). • **3**—ICMPv6 (protocol number 58). • **4**—Protocol. • **5**—SCTP (protocol number 132). **StartSrcPort:** **EndSrcPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1 or 5.** **StartSrcPort** column and **EndSrcPort** column must be configured together with each other. **StartDestPort:** **EndDestPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1 or 5**. **StartDestPort** column and **EndDestPort** column must be configured together with each other. **ICMPType:** **ICMPCode:** Unsigned integer. Value range: 0 to 255. Required when the **Type** column is **2** or **3** **ICMPCode** column must be configured together with **ICMPType**. **Protocol:** Unsigned integer. Value range: 0 to 255.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Required when the Type column is **4**.

SecurityPolicies/IPv4SSID

This table contains service set identifier (SSID) information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SSID>
    <SSID>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SSID>
  </IPv4SSID>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SSID
Table type	Multi-instance table
Row name	SSID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence	Index	Unassigned integer.	This column is insignificant. Ignore the value in this

Column name	Column description	Column type	Data type and restrictions	Remarks
	number		Value range: 1 to 1024.	column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	List of SSIDs	Data structure	Members include: • NameItem	N/A
NameItem	Name of the SSID	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

SecurityPolicies/IPv4AP

This table contains access point (AP) information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AP>
    <AP>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AP>
  </IPv4AP>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AP
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	List of APs	Data structure	Members include: • NameItem	N/A
NameItem	Name of the AP	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A

SecurityPolicies/IPv4APGroup

This table contains AP group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4APGroup>
    <APGroup>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </APGroup>
  </IPv4APGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4APGroup

Item	Description
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	List of AP groups	Data structure	Members include: • NameItem	N/A
NameItem	Name of the ApGroup	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4URL

This table contains URL category information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4URL>
    <URL>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </URL>
  </IPv4URL>
```

```
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4URL
Table type	Multi-instance table
Row name	URL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	URL category list	Data structure	Members include: • NameItem	N/A
NameItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6URL

This table contains URL category information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6URL>
    <URL>
      <ID></ID>
```

```
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </URL>
  </IPv6URL>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6URL
Table type	Multi-instance table
Row name	URL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	URL category list	Data structure	Members include: • NameItem	N/A
NameItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4SrcLocation

This table contains source location information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocation>
    <SrcLocation>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcLocation>
  </IPv4SrcLocation>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocation
Table type	Multi-instance table
Row name	SrcLocation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NameList	Name of the source location list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.	It can not include -.

SecurityPolicies/IPv4DestLocation

This table contains destination location information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocation>
    <DestLocation>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestLocation>
  </IPv4DestLocation>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestLocation
Table type	Multi-instance table
Row name	DestLocation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4294967290.	
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	Name of the destination location list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.	It can not include -.

SecurityPolicies/IPv4SrcLocationGrp

This table contains source location group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocationGrp>
    <SrcLocationGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcLocationGrp>
  </IPv4SrcLocationGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocationGrp
Table type	Multi-instance table
Row name	SrcLocationGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	Name of the source location group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.	It can not include -.

SecurityPolicies/IPv4DestLocationGrp

This table contains destination location group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocationGrp>
    <DestLocationGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestLocationGrp>
  </IPv4DestLocationGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies

Item	Description
Table name	IPv4DestLocationGrp
Table type	Multi-instance table
Row name	DestLocationGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • **true**—Yes. • **false—**No (default).	N/A
NameList	Name of the destiantion location group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.	It can not include -.

SecurityPolicies/IPv4DefaultRule

This table contains IPv4 default rule information.

XML structure

```
<SecurityPolicies>
  <IPv4DefaultRule>
    <Action></Action>
    <Log></Log>
    <Counting></Counting>
  </IPv4DefaultRule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DefaultRule
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action for the rule.	N/A	Enumeration: • **1**—Deny (default) • **2—Permit**	Required when you modify a rule through the **replace** operation.
Log	Whether to enable logging.	N/A	Boolean: • **true—Enable** • **false—Disable** (default)	Optional.
Counting	Whether to enable counting.	N/A	Boolean: • **true**—Enable • **false—**Disable (default)	Optional.

SecurityPolicies/IPv6DefaultRule

This table contains IPv6 default rule information.

XML structure

```
<SecurityPolicies>
  <IPv6DefaultRule>
    <Action></Action>
    <Log></Log>
    <Counting></Counting>
  </IPv6DefaultRule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies

Item	Description
Table name	IPv6DefaultRule
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action for the rule.	N/A	Enumeration: • 1—Deny (default) • **2—Permit**	Required when you modify a rule through the **replace** operation.
Log	Whether to enable logging.	N/A	Boolean: • **true—Enable** • false—Disable (default)	Optional.
Counting	Whether to enable counting.	N/A	Boolean: • **true**—Enable • false—Disable (default)	Optional.

SecurityPolicies/AutoDeploy

This table contains information about security policy auto deployment.

XML structure

```
<SecurityPolicies>
  <AutoDeploy>
    <StudyDuration></StudyDuration>
    <ServerZones>
      <ServerZone></ServerZone>
    </ServerZones>
    <InternetZones>
      <InternetZone></InternetZone>
    </InternetZones>
    <IPv4MaskLen></IPv4MaskLen>
    <IPv6MaskLen></IPv6MaskLen>
  </AutoDeploy>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AutoDeploy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StudyDuration	Study time.	N/A	Unassigned integer. Value range: 1 to 168.	N/A.
ServerZones	Server zone list.	Data structure	Members include: • ServerZone.	N/A.
ServerZone	Server zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A.
InternetZones	Internet zone list.	Data structure	Members include: • InternetZone.	N/A.
InternetZone	Internet zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A.
IPv4MaskLen	Length of IPv4 mask.	N/A	Unassigned integer. Value range: 1 to 32.	N/A.
IPv6MaskLen	Length of IPv6 prefix.	N/A	Unassigned integer. Value range: 64 to 128.	N/A.

Contents

SecurityPolicies 1

SecurityPolicies/IPv4Rules 1
XML structure 1
Table description 1
Columns 2
SecurityPolicies/IPv6Rules 3
XML structure 3
Table description 4
Columns 4
SecurityPolicies/GetRules 5
XML structure 5
Table description 7
Columns 8
SecurityPolicies/QueryRules 12
XML structure 12
Table description 14
Columns 14
SecurityPolicies/IPv4SrcSecZone 19
XML structure 19
Table description 19
Columns 19
SecurityPolicies/IPv6SrcSecZone 20
XML structure 20
Table description 20
Columns 20
SecurityPolicies/IPv4DestSecZone 21
XML structure 21
Table description 21
Columns 22
SecurityPolicies/IPv6DestSecZone 22
XML structure 22
Table description 22
Columns 23
SecurityPolicies/IPv4SrcAddr 23
XML structure 23
Table description 24
Columns 24
SecurityPolicies/IPv6SrcAddr 24
XML structure 24
Table description 25
Columns 25
SecurityPolicies/IPv4DestAddr 25
XML structure 25
Table description 26
Columns 26
SecurityPolicies/IPv6DestAddr 26
XML structure 26
Table description 27
Columns 27
SecurityPolicies/IPv4SrcMacAddr 27
XML structure 28
Table description 28
Columns 28
SecurityPolicies/IPv4ServGrp 29
XML structure 29
Table description 29
Columns 29

SecurityPolicies/IPv6ServGrp ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
SecurityPolicies/IPv4App ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 32
SecurityPolicies/IPv6App ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33
SecurityPolicies/IPv4AppGrp ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
SecurityPolicies/IPv6AppGrp ····· 34
XML structure ····· 34
Table description ····· 35
Columns ····· 35
SecurityPolicies/IPv4User ····· 35
XML structure ····· 35
Table description ····· 36
Columns ····· 36
SecurityPolicies/IPv6User ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37
SecurityPolicies/IPv4UserGrp ····· 37
XML structure ····· 38
Table description ····· 38
Columns ····· 38
SecurityPolicies/IPv6UserGrp ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 39
SecurityPolicies/AllocRuleID ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
SecurityPolicies/Accelerate ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41
SecurityPolicies/GetAccelerateCommitStatus ····· 41
XML structure ····· 42
Table description ····· 42
Columns ····· 42
SecurityPolicies/BaseProtocols ····· 42
XML structure ····· 42
Table description ····· 43
Columns ····· 43
SecurityPolicies/RedundancyCheckStatus ····· 43
XML structure ····· 43
Table description ····· 44
Columns ····· 44
SecurityPolicies/ContainRedundancyRules ····· 44
XML structure ····· 44
Table description ····· 46
Columns ····· 47
SecurityPolicies/ConfirmedRedundancyRules ····· 52
XML structure ····· 52

Table description 54
Columns 54
SecurityPolicies/IPv4SrcSecZoneInfo 59
XML structure 59
Table description 60
Columns 60
SecurityPolicies/IPv6SrcSecZoneInfo 60
XML structure 60
Table description 61
Columns 61
SecurityPolicies/IPv4DestSecZoneInfo 61
XML structure 61
Table description 62
Columns 62
SecurityPolicies/IPv6DestSecZoneInfo 62
XML structure 63
Table description 63
Columns 63
SecurityPolicies/IPv4SrcMacAddrGrpInfo 64
XML structure 64
Table description 64
Columns 64
SecurityPolicies/IPv4SrcAddrGrpInfo 65
XML structure 65
Table description 65
Columns 65
SecurityPolicies/IPv6SrcAddrGrpInfo 66
XML structure 66
Table description 66
Columns 67
SecurityPolicies/IPv4DestAddrGrpInfo 67
XML structure 67
Table description 67
Columns 68
SecurityPolicies/IPv6DestAddrGrpInfo 68
XML structure 68
Table description 69
Columns 69
SecurityPolicies/IPv4ServGrpInfo 69
XML structure 69
Table description 70
Columns 70
SecurityPolicies/IPv6ServGrpInfo 70
XML structure 70
Table description 71
Columns 71
SecurityPolicies/IPv4AppInfo 71
XML structure 72
Table description 72
Columns 72
SecurityPolicies/IPv6AppInfo 73
XML structure 73
Table description 73
Columns 73
SecurityPolicies/IPv4AppGrpInfo 74
XML structure 74
Table description 74
Columns 74
SecurityPolicies/IPv6AppGrpInfo 75
XML structure 75
Table description 75
Columns 76

SecurityPolicies/IPv4UserInfo ····· 76
XML structure ····· 76
Table description ····· 76
Columns ····· 77
SecurityPolicies/IPv6UserInfo ····· 77
XML structure ····· 77
Table description ····· 78
Columns ····· 78
SecurityPolicies/IPv4UserGrpInfo ····· 78
XML structure ····· 78
Table description ····· 79
Columns ····· 79
SecurityPolicies/IPv6UserGrpInfo ····· 79
XML structure ····· 80
Table description ····· 80
Columns ····· 80
SecurityPolicies/AppOptimized ····· 81
XML structure ····· 81
Table description ····· 81
Columns ····· 82
SecurityPolicies/RuleFlux ····· 82
XML structure ····· 82
Table description ····· 83
Columns ····· 83
SecurityPolicies/AppOptimizedStatus ····· 84
XML structure ····· 84
Table description ····· 84
Columns ····· 85
SecurityPolicies/AppOptimizedAdvice ····· 85
XML structure ····· 85
Table description ····· 85
Columns ····· 86
SecurityPolicies/IPv4RuleGroup ····· 86
XML structure ····· 86
Table description ····· 87
Columns ····· 87
SecurityPolicies/IPv6RuleGroup ····· 88
XML structure ····· 88
Table description ····· 88
Columns ····· 88
SecurityPolicies/ImportPercent ····· 89
XML structure ····· 89
Table description ····· 89
Columns ····· 89
SecurityPolicies/IPv4SrcSimpleAddr ····· 90
XML structure ····· 90
Table description ····· 90
Columns ····· 91
SecurityPolicies/IPv4DestSimpleAddr ····· 91
XML structure ····· 91
Table description ····· 92
Columns ····· 92
SecurityPolicies/IPv4ServObj ····· 92
XML structure ····· 92
Table description ····· 93
Columns ····· 93
SecurityPolicies/IPv4TerminalInfo ····· 99
XML structure ····· 99
Table description ····· 100
Columns ····· 100
SecurityPolicies/IPv6TerminalInfo ····· 100
XML structure ····· 100

Table description 101
Columns 101
SecurityPolicies/IPv4TerminalGrpInfo 101
XML structure 101
Table description 102
Columns 102
SecurityPolicies/IPv6TerminalGrpInfo 102
XML structure 103
Table description 103
Columns 103
SecurityPolicies/IPv6SrcSimpleAddr 104
XML structure 104
Table description 104
Columns 104
SecurityPolicies/IPv6DestSimpleAddr 105
XML structure 105
Table description 105
Columns 106
SecurityPolicies/IPv6ServObj 106
XML structure 106
Table description 107
Columns 107
SecurityPolicies/IPv4SrcSimpleAddrInfo 108
XML structure 108
Table description 109
Columns 109
SecurityPolicies/IPv4DestSimpleAddrInfo 109
XML structure 110
Table description 110
Columns 110
SecurityPolicies/IPv4ServObjInfo 111
XML structure 111
Table description 111
Columns 111
SecurityPolicies/IPv6SrcSimpleAddrInfo 113
XML structure 113
Table description 113
Columns 113
SecurityPolicies/IPv6DestSimpleAddrInfo 114
XML structure 114
Table description 114
Columns 115
SecurityPolicies/IPv6ServObjInfo 115
XML structure 115
Table description 116
Columns 116
SecurityPolicies/IPv4SSID 117
XML structure 117
Table description 118
Columns 118
SecurityPolicies/IPv4AP 118
XML structure 118
Table description 119
Columns 119
SecurityPolicies/IPv4APGroup 119
XML structure 119
Table description 120
Columns 120
SecurityPolicies/RuleThreshold 120
XML structure 121
Table description 121
Columns 121

SecurityPolicies/IPv4URLInfo ····· 123
XML structure ····· 123
Table description ····· 124
Columns ····· 124
SecurityPolicies/IPv6URLlInfo ····· 124
XML structure ····· 125
Table description ····· 125
Columns ····· 125
SecurityPolicies/IPv4SrcLocation ····· 126
XML structure ····· 126
Table description ····· 126
Columns ····· 126
SecurityPolicies/IPv4DestLocation ····· 127
XML structure ····· 127
Table description ····· 127
Columns ····· 127
SecurityPolicies/IPv4SrcLocationGrp ····· 128
XML structure ····· 128
Table description ····· 128
Columns ····· 128
SecurityPolicies/IPv4DestLocationGrp ····· 129
XML structure ····· 129
Table description ····· 129
Columns ····· 129
SecurityPolicies/IPv4SrcLocationInfo ····· 130
XML structure ····· 130
Table description ····· 130
Columns ····· 131
SecurityPolicies/IPv4DestLocationInfo ····· 131
XML structure ····· 131
Table description ····· 131
Columns ····· 132
SecurityPolicies/IPv4SrcLocationGrpInfo ····· 132
XML structure ····· 132
Table description ····· 133
Columns ····· 133
SecurityPolicies/IPv4DestLocationGrpInfo ····· 133
XML structure ····· 133
Table description ····· 134
Columns ····· 134
SecurityPolicies/IPv4DefaultRule ····· 134
XML structure ····· 134
Table description ····· 135
Columns ····· 135
SecurityPolicies/IPv6DefaultRule ····· 135
XML structure ····· 135
Table description ····· 135
Columns ····· 136
SecurityPolicies/GetMonitorRecords ····· 136
XML structure ····· 136
Table description ····· 137
Columns ····· 137
SecurityPolicies/AutoDeploy ····· 138
XML structure ····· 138
Table description ····· 138
Columns ····· 138
SecurityPolicies/GetAutoDeployStatus ····· 139
XML structure ····· 139
Table description ····· 139
Columns ····· 139
SecurityPolicies/GetAutoDeployRecords ····· 140
XML structure ····· 140

Table description 140
Columns 140
SecurityPolicies/GetAutoDeploySrcAddr 141
XML structure 141
Table description 142
Columns 142

SecurityPolicies

SecurityPolicies/IPv4Rules

This table contains IPv4 rule information.

XML structure

```
<SecurityPolicies>
  <IPv4Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Count></Count>
      <Byte></Byte>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
      <RuleGroupName></RuleGroupName>
      <Position></Position>
      <LearningSwitch></LearningSwitch>
      <AnyVRF></AnyVRF>
    </Rule>
  </IPv4Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.
TimeRange	Name of the time range.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
TimeRangeState	Status of the time range.	N/A	Boolean: • true—Effective. • false—Not effective.
Enable	Whether to enable the rule.	N/A	Boolean: • true—Enable. • false—Disable.
Log	Whether to enable logging.	N/A	Boolean: • true—Enable. • false—Disable.
Counting	Whether to enable counting.	N/A	Boolean: • true—Enable. • false—Disable.
Comment	Description.	N/A	String. Length: 1 to 127 characters.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to 2^{64}–1.
Byte	Bytes of packets	N/A	N/A
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
SessAgingTimeSw	Whether to enable the session aging timer.	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether to enable the persistent session aging timer.	N/A	Boolean: • true—Enable. • false—Disable.

Column name	Column description	Column type	Data type and restrictions
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.
LearningSwitch	Switch of learning	N/A	Boolean: • true—Enable. • false—Disable.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).

SecurityPolicies/IPv6Rules

This table contains IPv6 rule information.

XML structure

```
<SecurityPolicies>
  <IPv6Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Count></Count>
      <Byte></Byte>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
      <RuleGroupName></RuleGroupName>
      <Position></Position>
```

```
      <LearningSwitch></LearningSwitch>
      <AnyVRF></AnyVRF>
    </Rule>
  </IPv6Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID.	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName.	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action.	Action for the rule	N/A	Enumeration: • 1—Deny. • 2—Permit.
VRF.	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.
TimeRange.	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
TimeRangeState	Status of the time range.	N/A	Boolean: • true—Effective. • false—Not effective.
Enable.	Whether to enable the rule	N/A	Boolean: • true—Enable. • false—Disable.
Log.	Whether to enable logging	N/A	Boolean: • true—Enable. • false—Disable.
Counting.	Whether to enable counting	N/A	Boolean: • true—Enable. • false—Disable.

Column name	Column description	Column type	Data type and restrictions
Comment.	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to 2^{64}–1.
Byte	Bytes of packets	N/A	N/A
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
SessAgingTimeSw.	Whether to enable the session aging timer	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime.	Session aging time period	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw.	Whether to enable the persistent session aging timer.	N/A	Boolean: • true—Enable. • false—Disable.
SessPersistAgingTime.	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.
LearningSwitch	Switch of learning	N/A	Boolean: • true—Enable. • false—Disable.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).

SecurityPolicies/GetRules

This table contains rule information.

XML structure

```
<SecurityPolicies>
  <GetRules>
    <Rule>
```

```
<Type></Type>
<ID></ID>
<Name></Name>
<Action></Action>
<SrcZoneList>
  <SrcZoneItem></SrcZoneItem>
</SrcZoneList>
<DestZoneList>
  <DestZoneItem></DestZoneItem>
</DestZoneList>
<SrcAddrList>
  <SrcAddrItem></SrcAddrItem>
</SrcAddrList>
<DestAddrList>
  <DestAddrItem></DestAddrItem>
</DestAddrList>
<SrcMacAddrList>
  <SrcMacAddrItem></SrcMacAddrItem>
</SrcMacAddrList>
<ServGrpList>
  <ServGrpItem></ServGrpItem>
</ServGrpList>
<AppList>
  <AppItem></AppItem>
</AppList>
<AppGrpList>
  <AppGrpItem></AppGrpItem>
</AppGrpList>
<UserList>
  <UserItem></UserItem>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
</UserGrpList>
<SrcSimpleAddrList>
  <SrcSimpleAddrItem></SrcSimpleAddrItem>
</SrcSimpleAddrList>
<DestSimpleAddrList>
  <DestSimpleAddrItem></DestSimpleAddrItem>
</DestSimpleAddrList>
<ServObjList>
  <ServObjItem></ServObjItem>
</ServObjList>
<TerminalList>
  <TerminalItem></TerminalItem>
</TerminalList>
<TerminalGrpList>
  <TerminalGrpItem></TerminalGrpItem>
</TerminalGrpList>
<URLList>
```

```
      <URLItem></URLItem>
    </URLList>
    <SrcLocationList>
      <SrcLocationItem></SrcLocationItem>
    </SrcLocationList>
    <DestLocationList>
      <DestLocationItem></DestLocationItem>
    </DestLocationList>
    <SrcLocationGrpList>
      <SrcLocationGrpItem></SrcLocationGrpItem>
    </SrcLocationGrpList>
    <DestLocationGrpList>
      <DestLocationGrpItem></DestLocationGrpItem>
    </DestLocationGrpList>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Profile></Profile>
    <Enable></Enable>
    <Log></Log>
    <Counting></Counting>
    <Count></Count>
    <Byte></Byte>
    <SessAgingTimeSw></SessAgingTimeSw>
    <SessAgingTime></SessAgingTime>
    <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
    <SessPersistAgingTime></SessPersistAgingTime>
    <AllRulesCount></AllRulesCount>
    <Comment></Comment>
    <RuleGroupName></RuleGroupName>
    <Valid></Valid>
    <ValidStatus></ValidStatus>
    <Position></Position>
    <LearningSwitch></LearningSwitch>
    <AnyVRF></AnyVRF>
  </Rule>
 </GetRules>
</SecurityPolicies>
```


Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
Name	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: • SrcZoneItem
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneList	Name of the destination zone list	Data structure	Members include: • DestZoneItem
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrList	Name of the source address list.	Data structure	Members include: • SrcAddrItem
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrList	Name of the destination address list.	Data structure	Members include: • DestAddrItem
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: • SrcMacAddrItem
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpList	Name of the service group list.	Data structure	Members include: • ServGrpItem
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
AppList	Name of the application list	Data structure	Members include: • AppItem
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
UserList	Name of the user list	Data structure	Members include: • UserItem
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserGrpList	Name of the user group list	Data structure	Members include: • UserGrpItem
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).
SrcSimpleAddrList	Source address list.	Data structure	Members include: • SrcSimpleAddrItem
SrcSimpleAddrItem	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IP,StartIP, EndIP: dotted decimal notation. IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.
DestSimpleAddrList	Destination address list.	Data structure	Members include: • DestSimpleAddrItem
DestSimpleAddrItem	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IP,StartIP, EndIP: dotted decimal notation. IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. MaskLength: IPv4 address mask length.

Column name	Column description	Column type	Data type and restrictions
			IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.
ServObjList	Service list.	Data structure	Members include: • ServObjItem
ServObjItem	Service information.	N/A	String, case-insensitive. Length: 1 to 255 characters.
TerminalList	Terminal list	Data structure	Members include: • TerminalItem
TerminalItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem
TerminalGrpItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
URLList	URL category list	Data structure	Members include: URLItem.
URLItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationList	Name of the source location list	Data structure	Members include: • SrcLocationItem
SrcLocationItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationList	Name of the destination location list	Data structure	Members include: • DestLocationItem
DestLocationItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationGrpList	Name of the source location group list	Data structure	Members include: • SrcLocationGrpItem
SrcLocationGrpItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationGrpList	Name of the destination location group list	Data structure	Members include: • DestLocationGrpItem
DestLocationGr	Name of the	N/A	String, case-insensitive. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
pItem	destination location group		
TimeRange	Name of the time range.	N/A	String. Length: 1 to 63 characters.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Enable	Whether the rule is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to 2^{64}–1.
Byte	Bytes of packets	N/A	N/A
SessAgingTimeSw	Whether the session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether the persistent session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
AllRulesCount	The number of all security policy rules	N/A	N/A
Comment	Description.	N/A	String. Length: 1 to 127 characters.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Valid	Whether the rule is valid.	N/A	Boolean: • true—Valid. • false—Invalid

Column name	Column description	Column type	Data type and restrictions
ValidStatus	Rule valid status.	N/A	Enumeration: • 1—Invalid. • 2—Within one day invalid. • 3—Within one week invalid. • 4—Within one month invalid. • 5—Valid/Over one month invalid.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.
LearningSwitch	Switch of learning	N/A	Boolean: • true—Enable. • false—Disable.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).

SecurityPolicies/QueryRules

This table queries rule information.

XML structure

```
<SecurityPolicies>
  <QueryRules>
    <Rule>
      <Type></Type>
      <ID></ID>
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
      <SrcMacAddrList>
```

```
  <SrcMacAddrItem></SrcMacAddrItem>
</SrcMacAddrList>
<ServGrpList>
  <ServGrpItem></ServGrpItem>
</ServGrpList>
<AppList>
  <AppItem></AppItem>
</AppList>
<AppGrpList>
  <AppGrpItem></AppGrpItem>
</AppGrpList>
<UserList>
  <UserItem></UserItem>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
</UserGrpList>
<TerminalList>
  <TerminalItem></TerminalItem>
</TerminalList>
<TerminalGrpList>
  <TerminalGrpItem></TerminalGrpItem>
</TerminalGrpList>
<SrcSimpleAddrList>
  <SrcSimpleAddrItem></SrcSimpleAddrItem>
</SrcSimpleAddrList>
<DestSimpleAddrList>
  <DestSimpleAddrItem></DestSimpleAddrItem>
</DestSimpleAddrList>
<ServObjList>
  <ServObjItem></ServObjItem>
</ServObjList>
<URLList>
  <URLItem></URLItem>
</URLList>
<SrcLocationList>
  <SrcLocationItem></SrcLocationItem>
</SrcLocationList>
<DestLocationList>
  <DestLocationItem></DestLocationItem>
</DestLocationList>
<SrcLocationGrpList>
  <SrcLocationGrpItem></SrcLocationGrpItem>
</SrcLocationGrpList>
<DestLocationGrpList>
  <DestLocationGrpItem></DestLocationGrpItem>
</DestLocationGrpList>
<TimeRange></TimeRange>
<VRF></VRF>
<Profile></Profile>
<Enable></Enable>
```

```
      <Log></Log>
      <Counting></Counting>
      <Count></Count>
      <Byte></Byte>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
      <AllRulesCount></AllRulesCount>
      <Comment></Comment>
      <RuleGroupName></RuleGroupName>
      <Valid></Valid>
      <Position></Position>
      <LearningSwitch></LearningSwitch>
      <AnyVRF></AnyVRF>
    </Rule>
  </QueryRules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	QueryIPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
Name	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
			• SrcZoneItem
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneList	Name of the destination zone list	Data structure	Members include: • DestZoneItem
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrList	Name of the source address list.	Data structure	Members include: • SrcAddrItem
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrList	Name of the destination address list.	Data structure	Members include: • DestAddrItem
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrList	Name of the source IPv4 MAC address list.	Data structure	Members include: • SrcMacAddrItem
SrcMacAddrItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpList	Name of the service group list.	Data structure	Members include: • ServGrpItem
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
AppList	Name of the application list	Data structure	Members include: • AppItem
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
UserList	Name of the user list	Data structure	Members include: • UserItem
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserGrpList	Name of the user	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	group list		• UserGrpItem
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).
TerminalList	Terminal list	Data structure	Members include: • TerminalItem
TerminalItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem
TerminalGrpItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcSimpleAddrList	Source address list.	Data structure	Members include: • SrcSimpleAddrItem
SrcSimpleAddrItem	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated PrefixLength: IPv6 address prefix length.
DestSimpleAddrList	Destination address list.	Data structure	Members include: • DestSimpleAddrItem
DestSimpleAddrItem	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IP,StartIP, EndIP: dotted decimal notation. IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.

Column name	Column description	Column type	Data type and restrictions
ServObjList	Service list.	Data structure	Members include: • ServObjItem
ServObjItem	Service information.	N/A	String, case-insensitive. Length: 1 to 255 characters.
URLList	URL category list	Data structure	Members include: URLItem.
URLItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationList	Name of the source location list	Data structure	Members include: • SrcLocationItem
SrcLocationItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationList	Name of the destination location list	Data structure	Members include: • DestLocationItem
DestLocationItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationGrpList	Name of the source location group list	Data structure	Members include: • SrcLocationGrpItem
SrcLocationGrpItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationGrpList	Name of the destination location group list	Data structure	Members include: • DestLocationGrpItem
DestLocationGrpItem	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
TimeRange	Name of the time range.	N/A	String. Length: 1 to 63 characters.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Enable	Whether the rule is enabled.	N/A	Boolean: • true—Enable.

Column name	Column description	Column type	Data type and restrictions
			• false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to 2^{64}–1.
Byte	Bytes of packets	N/A	N/A
SessAgingTimeSw	Whether the session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether the persistent session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
AllRulesCount	The number of all security policy rules	N/A	N/A
Comment	Description.	N/A	String. Length: 1 to 127 characters.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Valid	Whether the rule is valid.	N/A	Boolean: • true—Valid. • false—Invalid.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.
LearningSwitch	Switch of learning	N/A	Boolean: • true—Enable. • false—Disable.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. • false—Disable (default).

SecurityPolicies/IPv4SrcSecZone

This table contains source security zone information for an existing security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv4SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	security zone list		• NameItem
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6SrcSecZone

This table contains source security zone information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv6SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source security zone list	Data structure	Members include: • NameItem
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4DestSecZone

This table contains destination security zone information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv4DestSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination security zone list	Data structure	Members include: • NameItem
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6DestSecZone

This table contains destination security zone information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv6DestSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSecZone
Table type	Multi-instance table
Row name	DestSecZone

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination security zone list	Data structure	Members include: • NameItem
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4SrcAddr

This table contains source address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </IPv4SrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv4 address list	Data structure	Members include: • NameItem
NameItem	Name of the source IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6SrcAddr

This table contains source address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
```

```
  </IPv6SrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv6 address list	Data structure	Members include: • NameItem
NameItem	Name of the source IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4DestAddr

This table contains destination address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
```

```
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv4DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination IPv4 address list	Data structure	Members include: • NameItem
NameItem	Name of the destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6DestAddr

This table contains destination address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestAddr>
```

```
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv6DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination IPv6 address list	Data structure	Members include: • NameItem
NameItem	Name of the destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4SrcMacAddr

This table contains source MAC address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcMacAddr>
    <SrcMacAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcMacAddr>
  </IPv4SrcMacAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddr
Table type	Multi-instance table
Row name	SrcMacAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv4 MAC address list	Data structure	Members include: • NameItem
NameItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4ServGrp

This table contains service object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv4ServGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the service object group list	Data structure	Members include: • NameItem

Column name	Column description	Column type	Data type and restrictions
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6ServGrp

This table contains service object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv6ServGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the service object group list	Data structure	Members include: • NameItem
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4App

This table contains application information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </App>
  </IPv4App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4App
Table type	Multi-instance table
Row name	App
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application list	Data structure	Members include: • NameItem
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6App

This table contains application information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </App>
  </IPv6App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6App
Table type	Multi-instance table
Row name	App

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application list	Data structure	Members include: • NameItem
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4AppGrp

This table contains application group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv4AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application group list	Data structure	Members include: • NameItem
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6AppGrp

This table contains application group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
```

```
  </IPv6AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application group list	Data structure	Members include: • NameItem
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4User

This table contains user information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
```

```
      </NameList>
    </User>
  </IPv4User>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4User
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user list	Data structure	Members include: • NameItem.
NameItem	Name of the user	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.

SecurityPolicies/IPv6User

This table contains user information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6User>
    <User>
      <ID></ID>
```

```
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </User>
  </IPv6User>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6User
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user list	Data structure	Members include: • NameItem
NameItem	Name of the user	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.

SecurityPolicies/IPv4UserGrp

This table contains user group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv4UserGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user group list	Data structure	Members include: • NameItem
NameItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must

Column name	Column description	Column type	Data type and restrictions
			enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/IPv6UserGrp

This table contains user group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv6UserGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.

Column name	Column description	Column type	Data type and restrictions
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user group list	Data structure	Members include: • NameItem
NameItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/AllocRuleID

This table contains an available rule ID.

XML structure

```
<SecurityPolicies>
  <AllocRuleID>
    <Rule>
      <Type></Type>
      <ID></ID>
    </Rule>
  </AllocRuleID>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AllocRuleID
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
ID	Rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.

SecurityPolicies/Accelerate

This table contains security policy rule matching acceleration information for security policies.

XML structure

```
<SecurityPolicies>
  <Accelerate>
    <Enable></Enable>
  </Accelerate>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable rule matching acceleration for the security policy.	N/A	Boolean: • true—Enable. • false—Disable.

SecurityPolicies/GetAccelerateCommitStatus

This table contains acceleration commit status information for the security policy.

XML structure

```
<SecurityPolicies>
  <GetAccelerateCommitStatus>
    <Status></Status>
  </GetAccelerateCommitStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable rule acceleration for the security policy.	N/A	Boolean: • true—Enable. • false—Disable.	Optional.

SecurityPolicies/BaseProtocols

This table contains base protocol informations for the existing applications and application-groups within a security policy rule.

XML structure

```
<SecurityPolicies>
  <BaseProtocols>
    <Protocol>
      <Type></Type>
      <ID></ID>
      <ProtoNum></ProtoNum>
      <AppNum></AppNum>
      <ProtocolItem></ProtocolItem>
      <NameList>
        <AppItem></AppItem>
      </NameList>
```

```
    </Protocol>
  </BaseProtocols>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	BaseProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
ProtoNum	Protocol Number	Index	Unassigned integer. Value range: 1 to 1024.
AppNum	Application Number	Index	Unassigned integer. Value range: 1 to 1024.
ProtocolItem	Name of the protocol	N/A	String, case-insensitive. Length: 1 to 63 characters.
NameList	Name of the applicaton list	Data structure	Members include: • AppItem
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/RedundancyCheckStatus

This table contains status information for checking the redundant security policy rules.

XML structure

```
<SecurityPolicies>
```

```
  <RedundancyCheckStatus>
    <Status></Status>
    <Proportion></Proportion>
  </RedundancyCheckStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RedundancyCheckStatus
Table type	Single-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Status	The status for checking redundancy security policy rules	N/A	Enumeration: • 0—init. • 1—finished. • 2—checking.
Proportion	Percentage of progress	N/A	Unassigned integer. Value range: 0 to 100.

SecurityPolicies/ContainRedundancyRules

This table shows security policy rules that have redundant rules.

XML structure

```
<SecurityPolicies>
  <ContainRedundancyRules>
    <Rule>
      <Type></Type>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
        <SrcZoneStatus></SrcZoneStatus>
      </SrcZoneList>
      <DestZoneList>
```

```
  <DestZoneItem></DestZoneItem>
  <DestZoneStatus></DestZoneStatus>
</DestZoneList>
<SrcMacAddrList>
  <SrcMacAddrItem></SrcMacAddrItem>
  <SrcMacAddrStatus></SrcMacAddrStatus>
</SrcMacAddrList>
<SrcAddrList>
  <SrcAddrItem></SrcAddrItem>
  <SrcAddrStatus></SrcAddrStatus>
</SrcAddrList>
<DestAddrList>
  <DestAddrItem></DestAddrItem>
  <DestAddrStatus></DestAddrStatus>
</DestAddrList>
<ServGrpList>
  <ServGrpItem></ServGrpItem>
  <ServGrpStatus></ServGrpStatus>
</ServGrpList>
<AppList>
  <AppItem></AppItem>
  <AppStatus></AppStatus>
</AppList>
<AppGrpList>
  <AppGrpItem></AppGrpItem>
  <AppGrpStatus></AppGrpStatus>
</AppGrpList>
<UserList>
  <UserItem></UserItem>
  <UserStatus></UserStatus>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
  <UserGrpStatus></UserGrpStatus>
</UserGrpList>
<TerminalList>
  <TerminalItem></TerminalItem>
  <TerminalStatus></TerminalStatus>
</TerminalList>
<TerminalGrpList>
  <TerminalGrpItem></TerminalGrpItem>
  <TerminalGrpStatus></TerminalGrpStatus>
</TerminalGrpList>
<SrcSimpleAddrList>
  <SrcSimpleAddrItem></SrcSimpleAddrItem>
</SrcSimpleAddrList>
<DestSimpleAddrList>
  <DestSimpleAddrItem></DestSimpleAddrItem>
</DestSimpleAddrList>
```

```
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
      <URLList>
        <URLItem></URLItem>
      <URLStatus></URLStatus>
      </URLList>
      <SrcLocationList>
        <SrcLocationItem></SrcLocationItem>
        <SrcLocationStatus></SrcLocationStatus>
      </SrcLocationList>
      <DestLocationList>
        <DestLocationItem></DestLocationItem>
        <DestLocationStatus></DestLocationStatus>
      </DestLocationList>
      <SrcLocationGrpList>
        <SrcLocationGrpItem></SrcLocationGrpItem>
        <SrcLocationGrpStatus></SrcLocationGrpStatus>
      </SrcLocationGrpList>
      <DestLocationGrpList>
        <DestLocationGrpItem></DestLocationGrpItem>
        <DestLocationGrpStatus></DestLocationGrpStatus>
      </DestLocationGrpList>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Enable></Enable>
      <Comment></Comment>
      <Profile></Profile>
      <Position></Position>
      <AnyVRF></AnyVRF>
    </Rule>
  </ContainRedundancyRules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ContainRedundancyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
RuleID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action.	Action for the rule	N/A	Enumeration: • 1—Deny. • 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: • SrcZoneItem. • SrcZoneStatus.
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcZoneStatus	Status of the source zone	N/A	Boolean: • true—Effective. • false—Not effective.
DestZoneList	Name of the destination zone list	Data structure	Members include: • DestZoneItem. • DestZoneStatus.
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneStatus	Status of the destination zone	N/A	Boolean: • true—Effective. • false—Not effective.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: • SrcMacAddrItem. • SrcMacAddrStatus.
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrStatus	Status of the source MAC address	N/A	Boolean: • true—Effective. • false—Not effective.
SrcAddrList	Name of the source address list	Data structure	Members include: • SrcAddrItem. • SrcAddrStatus.
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrStatus	Status of the source	N/A	Boolean:

Column name	Column description	Column type	Data type and restrictions
	address		• true—Effective. • false—Not effective.
DestAddrList	Name of the destination address list	Data structure	Members include: • DestAddrItem. • DestAddrStatus.
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrStatus	Status of the destination address	N/A	Boolean: • true—Effective. • false—Not effective.
ServGrpList	Name of the service group list	Data structure	Members include: • ServGrpItem. • ServGrpStatus.
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpStatus	Status of the service group	N/A	Boolean: • true—Effective. • false—Not effective.
AppList	Name of the application list	Data structure	Members include: • AppItem. • AppStatus
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppStatus	Status of the application	N/A	Boolean: • true—Effective. • false—Not effective.
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem. • AppGrpStatus
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpStatus	Status of the application group	N/A	Boolean: • true—Effective. • false—Not effective.
UserList	Name of the user list	Data structure	Members include: • UserItem. • UserStatus
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserStatus	Status of the user	N/A	Boolean:

Column name	Column description	Column type	Data type and restrictions
			• true—Effective. • false—Not effective.
UserGrpList	Name of the user group list	Data structure	Members include: • UserGrpItem. • UserGrpStatus
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).
UserGrpStatus	Status of the user group	N/A	Boolean: • true—Effective. • false—Not effective.
TerminalList	Terminal list	Data structure	Members include: • TerminalItem • TerminalStatus
TerminalGrpItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalStatus	Status of the terminal	N/A	Boolean: • true—Effective. • false—Not effective
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. false—Disable (default).

TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem • TerminalGrpStatus
TerminalGrpItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalGrpStatus	Status of the terminal group	N/A	Boolean: • true—Effective. • false—Not effective
SrcSimpleAddrList	Source address list.	Data structure	Members include: • SrcSimpleAddrItem
SrcSimpleAddrItem	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated PrefixLength: IPv6 address prefix length.
DestSimpleAddrList	Destination address list.	Data structure	Members include: • DestSimpleAddrItem
DestSimpleAddrItem	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IP,StartIP, EndIP: dotted decimal notation. IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.
ServObjList	Service list.	Data structure	Members include: • ServObjItem
ServObjItem	Service information.	N/A	String, case-insensitive. Length: 1 to 255 characters.
URLList	URL category list	Data structure	Members include: • URLItem • URLStatus
URLItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
URLStatus	URL category status	N/A	Boolean: • true—Effective. • false—Not effective

TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem • TerminalGrpStatus
SrcLocationList	Name of the source location list	Data structure	Members include: • SrcLocationItem. • SrcLocationStatus.
SrcLocationItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationStatus	Status of the source location	N/A	Boolean: • true—Effective. • false—Not effective.
DestLocationList	Name of the destination location list	Data structure	• Members include: • DestLocationItem. • DestLocationStatus.
DestLocationItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationStatus	Status of the destination location	N/A	Boolean: • true—Effective. • false—Not effective.
SrcLocationGrpList	Name of the source location group list	Data structure	Members include: • SrcLocationGrpItem. • SrcLocationGrpStatus.
SrcLocationGrpItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationStatus	Status of the source location group	N/A	Boolean: • true—Effective. • false—Not effective.
DestLocationGrpList	Name of the destination location group list	Data structure	Members include: • DestLocationGrpItem. • DestLocationGrpStatus.
DestLocationGrpItem	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationGrpStatus	Status of the destination location group	N/A	Boolean: • true—Effective. • false—Not effective.
TimeRange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
VRF	VRF name	N/A	String, case-insensitive. Length: 1 to 31 characters.
Enable	Whether to enable the rule	N/A	Boolean: • true—Enable.

TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem • TerminalGrpStatus
			• false—Disable.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.

SecurityPolicies/ConfirmedRedundancyRules

This table shows redundant security policy rules.

XML structure

```
<SecurityPolicies>
  <ConfirmedRedundancyRules>
    <Rule>
      <Type></Type>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ContainRedundancyRuleID></ContainRedundancyRuleID>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
        <SrcZoneStatus></SrcZoneStatus>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
        <DestZoneStatus></DestZoneStatus>
      </DestZoneList>
      <SrcMacAddrList>
        <SrcMacAddrItem></SrcMacAddrItem>
        <SrcMacAddrStatus></SrcMacAddrStatus>
      </SrcMacAddrList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
        <SrcAddrStatus></SrcAddrStatus>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
        <DestAddrStatus></DestAddrStatus>
      </DestAddrList>
```

```
<ServGrpList>
  <ServGrpItem></ServGrpItem>
  <ServGrpStatus></ServGrpStatus>
</ServGrpList>
<AppList>
  <AppItem></AppItem>
  <AppStatus></AppStatus>
</AppList>
<AppGrpList>
  <AppGrpItem></AppGrpItem>
  <AppGrpStatus></AppGrpStatus>
</AppGrpList>
<UserList>
  <UserItem></UserItem>
  <UserStatus></UserStatus>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
  <UserGrpStatus></UserGrpStatus>
</UserGrpList>
<TerminalList>
  <TerminalItem></TerminalItem>
  <TerminalStatus></TerminalStatus>
</TerminalList>
<TerminalGrpList>
  <TerminalGrpItem></TerminalpGrpItem>
  <TerminalGrpStatus></TerminalGrpStatus>
</TerminalGrpList>
<SrcSimpleAddrList>
  <SrcSimpleAddrItem></SrcSimpleAddrItem>
</SrcSimpleAddrList>
<DestSimpleAddrList>
  <DestSimpleAddrItem></DestSimpleAddrItem>
</DestSimpleAddrList>
<ServObjList>
  <ServObjItem></ServObjItem>
</ServObjList>
<SrcLocationList>
  <SrcLocationItem></SrcLocationItem>
  <SrcLocationStatus></SrcLocationStatus>
</SrcLocationList>
<DestLocationList>
  <DestLocationItem></DestLocationItem>
  <DestLocationStatus></DestLocationStatus>
</DestLocationList>
<SrcLocationGrpList>
  <SrcLocationGrpItem></SrcLocationGrpItem>
  <SrcLocationGrpStatus></SrcLocationGrpStatus>
```

```
      </SrcLocationGrpList>
      <DestLocationGrpList>
        <DestLocationGrpItem></DestLocationGrpItem>
        <DestLocationGrpStatus></DestLocationGrpStatus>
      </DestLocationGrpList>
      <URLList>
        <URLItem></URLItem>
        <URLStatus></URLStatus>
      </URLList>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Enable></Enable>
      <Comment></Comment>
      <Profile></Profile>
      <Position></Position>
      <AnyVRF></AnyVRF>
    </Rule>
  </ConfirmedRedundancyRules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ConfirmedRedundancyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule type	Index	Enumeration: • 1—IPv4. • 2—IPv6.
RuleID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ContainRedundancyRuleID	ID of the rule that contains this redundant rule	N/A	Unassigned integer. Value range: 0 to 4294967290.
Action.	Action for the rule	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			• 1—Deny. • 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: • SrcZoneItem. • SrcZoneStatus.
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcZoneStatus	Status of the source zone	N/A	Boolean: • true—Effective. • false—Not effective.
DestZoneList	Name of the destination zone list	Data structure	Members include: • DestZoneItem. • DestZoneStatus.
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneStatus	Status of the destination zone	N/A	Boolean: • true—Effective. • false—Not effective.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: • SrcMacAddrItem. • SrcMacAddrStatus.
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrStatus	Status of the source MAC address	N/A	Boolean: • true—Effective. • false—Not effective.
SrcAddrList	Name of the source address list	Data structure	Members include: • SrcAddrItem. • SrcAddrStatus.
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrStatus	Status of the source address	N/A	Boolean: • true—Effective. • false—Not effective.
DestAddrList	Name of the destination address list.	Data structure	Members include: • DestAddrItem. • DestAddrStatus.
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrStatus	Status of the destination address	N/A	Boolean: • true—Effective. • false—Not effective.
ServGrpList	Name of the service	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	group list		• ServGrpItem. • ServGrpStatus.
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpStatus	Status of the service group	N/A	Boolean: • true—Effective. • false—Not effective.
AppList	Name of the application list	Data structure	Members include: • AppItem. • AppStatus
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppStatus	Status of the application	N/A	Boolean: • true—Effective. • false—Not effective.
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem. • AppGrpStatus
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpStatus	Status of the application group.	N/A	Boolean: • true—Effective. • false—Not effective.
UserList	Name of the user list	Data structure	Members include: • UserItem. • UserStatus
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserStatus	Status of the user.	N/A	Boolean: • true—Effective. • false—Not effective.
UserGrpList	Name of the user group list	Data structure	Members include: • UserGrpItem. • UserGrpStatus
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the

Column name	Column description	Column type	Data type and restrictions
			backslash (\) or at sign (@).
UserGrpStatus	Status of the user group.	N/A	Boolean: • true—Effective. • false—Not effective.
TerminalList	Terminal list	Data structure	Members include: • TerminalItem • TerminalStatus
TerminalItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalStatus	Status of the terminal	N/A	Boolean: • true—Effective. • false—Not effective
TerminalGrpList	Terminal group list	Data structure	Members include: • TerminalGrpItem • TerminalGrpStatus
TerminalGrpItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
TerminalGrpStatus	Status of the terminal group	N/A	Boolean: • true—Effective. • false—Not effective
SrcSimpleAddrList	Source address list.	Data structure	Members include: • SrcSimpleAddrItem
SrcSimpleAddrItem	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.
DestSimpleAddrList	Destination address list.	Data structure	Members include: • DestSimpleAddrItem
DestSimpleAddrItem	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP, IP,StartIP, EndIP: dotted decimal notation. IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. MaskLength: IPv4 address mask length. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. PrefixLength: IPv6 address prefix length.

Column name	Column description	Column type	Data type and restrictions
ServObjList	Service list.	Data structure	Members include: • ServObjItem
ServObjItem	Service information.	N/A	String, case-insensitive. Length: 1 to 255 characters.
URLList	URL category list	Data structure	Members include: • URLItem • URLStatus
URLItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
URLStatus	URL category status	N/A	Boolean: • true—Effective. false—Not effective
SrcLocationList	Name of the source location list	Data structure	Members include: • SrcLocationItem. • SrcLocationStatus.
SrcLocationItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationStatus	Status of the source location	N/A	Boolean: • true—Effective. • false—Not effective.
DestLocationList	Name of the destination location list	Data structure	Members include: • DestLocationItem. • DestLocationStatus.
DestLocationItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationStatus	Status of the destination location	N/A	Boolean: • true—Effective. • false—Not effective.
SrcLocationGrpList	Name of the source location group list	Data structure	Members include: • SrcLocationGrpItem. • SrcLocationGrpStatus.
SrcLocationGrpItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
SrcLocationStatus	Status of the source location group	N/A	Boolean: • true—Effective. • false—Not effective.
DestLocationGrpList	Name of the destination location group list	Data structure	Members include: • DestLocationGrpItem. • DestLocationGrpStatus.

Column name	Column description	Column type	Data type and restrictions
DestLocationGrpItem	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
DestLocationGrpStatus	Status of the destination location group	N/A	Boolean: • true—Effective. • false—Not effective.
TimeRange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
VRF	VRF name	N/A	String, case-insensitive. Length: 1 to 31 characters.
Enable	Whether to enable the rule.	N/A	Boolean: • true—Enable. • false—Disable.
Comment	Description.	N/A	String. Length: 1 to 127 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Position	Rule position	N/A	Enumeration: • 1—Main (default). • 2—Pre. • 3—Post.
AnyVRF	Whether the rule support any VRF.	N/A	Boolean: • true—Enable. false—Disable (default).

SecurityPolicies/IPv4SrcSecZoneInfo

This table contains source security zone information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSecZoneInfo>
    <SrcSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcSecZoneInfo>
```

```
  </IPv4SrcSecZoneInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZoneInfo
Table type	Multi-instance table
Row name	SrcSecZoneInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 16.
NameList	Name of the source security zone list	Data structure	Members include: • Name. • Status.
Name	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source security zone.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6SrcSecZoneInfo

This table contains source security zone information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSecZoneInfo>
    <SrcSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
```

```
      <Name></Name>
      <Status></Status>
    </NameList>
  </SrcSecZoneInfo>
 </IPv6SrcSecZoneInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZoneInfo
Table type	Multi-instance table
Row name	SrcSecZoneInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 16.
NameList	Name of the source security zone list	Data structure	Members include: • Name. • Status.
Name	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source security zone	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4DestSecZoneInfo

This table contains destination security zone information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
 <IPv4DestSecZoneInfo>
```

```
    <DestSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestSecZoneInfo>
  </IPv4DestSecZoneInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZoneInfo
Table type	Multi-instance table
Row name	DestSecZoneInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 16.
NameList	Name of the destination security zone list	Data structure	Members include: • Name. • Status.
Name	Name of the destination security zone	N/A	String, case-insensitive. • Length: 1 to 31 characters.
Status	Status of the destination security zone.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6DestSecZoneInfo

This table contains destination security zone information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSecZoneInfo>
    <DestSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestSecZoneInfo>
  </IPv6DestSecZoneInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSecZoneInfo
Table type	Multi-instance table
Row name	DestSecZoneInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 16.
NameList	Name of the destination security zone list	Data structure	Members include: • Name. • Status
Name	Name of the destination security zone	N/A	String, case-insensitive. • Length: 1 to 31 characters.
Status	Status of the destination security zone	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4SrcMacAddrGrpInfo

This table contains source MAC address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcMacAddrGrpInfo>
    <SrcMacAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcMacAddrGrpInfo>
  </IPv4SrcMacAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddrGrpInfo
Table type	Multi-instance table
Row name	SrcMacAddrGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the source MAC address group list	Data structure	Members include: • Name. • Status.
Name	Name of the source MAC address group	N/A	String, case-insensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
Status	Status of the source MAC address group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4SrcAddrGrpInfo

This table contains source address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcAddrGrpInfo>
    <SrcAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcAddrGrpInfo>
  </IPv4SrcAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddrGrpInfo
Table type	Multi-instance table
Row name	SrcAddrGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 1024.
NameList	Name of the source address group list	Data structure	Members include: • Name. • Status.
Name	Name of the source address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source address group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6SrcAddrGrpInfo

This table contains source address object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcAddrGrpInfo>
    <SrcAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcAddrGrpInfo>
  </IPv6SrcAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddrGrpInfo
Table type	Multi-instance table
Row name	SrcAddrGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the source address group list	Data structure	Members include: • Name. • Status
Name	Name of the source address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source address group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4DestAddrGrpInfo

This table contains destination address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestAddrGrpInfo>
    <DestAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestAddrGrpInfo>
  </IPv4DestAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddrGrpInfo
Table type	Multi-instance table

Item	Description
Row name	DestAddrGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the destination address group list	Data structure	Members include: • Name. • Status
Name	Name of the destination address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the destination address group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6DestAddrGrpInfo

This table contains destination address object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestAddrGrpInfo>
    <DestAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestAddrGrpInfo>
  </IPv6DestAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddrGrpInfo
Table type	Multi-instance table
Row name	DestAddrGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the destination address group list	Data structure	Members include: • Name. • Status
Name	Name of the destination address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the destination address group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4ServGrpInfo

This table contains service object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServGrpInfo>
    <ServGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
```

```
      <Status></Status>
    </NameList>
  </ServGrpInfo>
 </IPv4ServGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrpInfo
Table type	Multi-instance table
Row name	ServGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the service object group list	Data structure	Members include: • Name • Status
Name	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the service object group	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6ServGrpInfo

This table contains service object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
 <IPv6ServGrpInfo>
  <ServGrpInfo>
```

```
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </ServGrpInfo>
  </IPv6ServGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrpInfo
Table type	Multi-instance table
Row name	ServGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the service object group list	Data structure	Members include: • Name • Status
Name	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the service object group	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4AppInfo

This table contains application information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppInfo>
    <AppInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppInfo>
  </IPv4AppInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppInfo
Table type	Multi-instance table
Row name	AppInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the application list	Data structure	Members include: • Name • Status
Name	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6AppInfo

This table contains application information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6AppInfo>
    <AppInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppInfo>
  </IPv6AppInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppInfo
Table type	Multi-instance table
Row name	AppInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the application list	Data structure	Members include: • Name • Status
Name	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

Column name	Column description	Column type	Data type and restrictions
Status	Status of the application.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4AppGrpInfo

This table contains application group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrpInfo>
    <AppGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppGrpInfo>
  </IPv4AppGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrpInfo
Table type	Multi-instance table
Row name	AppGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.

Column name	Column description	Column type	Data type and restrictions
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the application group list	Data structure	Members include: • Name • Status
Name	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6AppGrpInfo

This table contains application group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6AppGrpInfo>
    <AppGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppGrpInfo>
  </IPv6AppGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrpInfo
Table type	Multi-instance table
Row name	AppGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Name of the application group list	Data structure	Members include: • Name • Status
Name	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4UserInfo

This table contains user information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserInfo>
    <UserInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </UserInfo>
  </IPv4UserInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserInfo
Table type	Multi-instance table

Item	Description
Row name	UserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the user list	Data structure	Members include: • Name • Status
Name	Name of the user.	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
Status	Status of the user.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6UserInfo

This table contains user information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6UserInfo>
    <UserInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </UserInfo>
  </IPv6UserInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserInfo
Table type	Multi-instance table
Row name	UserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the user list	Data structure	Members include: • Name. • Status.
Name	Name of the user	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
Status	Status of the user	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4UserGrpInfo

This table shows user group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserGrpInfo>
    <UserGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <UserGrpList>
        <Name></Name>
        <Status></Status>
```

```
      </UserGrpList>
    </UserGrpInfo>
  </IPv4UserGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrpInfo
Table type	Multi-instance table
Row name	UserGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
UserGrpList	Name of the user group list	Data structure	Members include: • Name. • Status
Name	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).
Status	Status of the user group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6UserGrpInfo

This table shows user group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6UserGrpInfo>
    <UserGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <UserGrpList>
        <Name></Name>
        <Status></Status>
      </UserGrpList>
    </UserGrpInfo>
  </IPv6UserGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrpInfo
Table type	Multi-instance table
Row name	UserGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
UserGrpList	Name of the user group list	Data structure	Members include: • Name. • Status
Name	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

Column name	Column description	Column type	Data type and restrictions
Status	Status of the user group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/AppOptimized

This table contains application statistics for security policy rules.

XML structure

```
<SecurityPolicies>
  <AppOptimized>
    <AppFlux>
      <PolicyType></PolicyType>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <TotalFlux></TotalFlux>
      <Grade></Grade>
      <Count></Count>
      <IsOptimized></IsOptimized>
      <AppList>
        <AppInfo></AppInfo>
      </AppList>
      <RiskLevel></RiskLevel>
      <SecurityRisks></SecurityRisks>
    </AppFlux>
  </AppOptimized>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AppOptimized
Table type	Multi-instance table
Row name	AppFlux
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
TotalFlux	Flux of statistics.	N/A	N/A
Grade	Security grade.	N/A	Unassigned integer. Value range: 0 to 100.
Count	The number of risky rules.	N/A	Unassigned integer. Value range: 0 to 4294967290.
IsOptimized	Whether to optimize.	N/A	Boolean: • true—Enable. • false—Disable.
AppList	Flux statistics of the application list.	Data structure	Members include: • AppInfo
AppInfo	Information of the application.	N/A	String, case-insensitive. Length: 1 to 255 characters.
RiskLevel	Risk level of the rule.	N/A	Unassigned integer. Value range: 1 to 5.
SecurityRisks	Security risks of the rule.	N/A	N/A

SecurityPolicies/RuleFlux

This table contains application statistics for security policy rule.

XML structure

```
<SecurityPolicies>
  <RuleFlux>
    <AppFlux>
      <PolicyType></PolicyType>
      <RuleID></RuleID>
      <QueryType></QueryType>
      <SeqNum></SeqNum>
```

```
      <AppCount></AppCount>
      <RuleName></RuleName>
      <ChildRuleID></ChildRuleID>
      <ChildRuleName></ChildRuleName>
      <TotalFlux></TotalFlux>
      <Profile></Profile>
      <AppList>
        <AppInfo></AppInfo>
      </AppList>
    </AppFlux>
  </RuleFlux>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RuleFlux
Table type	Multi-instance table
Row name	AppFlux
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
QueryType	The time range.	Index	Enumeration: • 0—Today. • 1—Last Three Days. • 2—Last Week. • 3—Last Month.
SeqNum	Sequence number.	Index	Unassigned integer. Value range: 0 to 65535.
AppCount	The count of applications.	N/A	Unassigned integer. Value range: 0 to 65535.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.

Column name	Column description	Column type	Data type and restrictions
ChildRuleID	Child rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.
ChildRuleName	Child rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
TotalFlux	Flux of statistics.	N/A	N/A
Profile	Profile name.	N/A	String. Length: 1 to 63 characters.
AppList	Flux statistics of the application list.	Data structure	Members include: • AppInfo
AppInfo	Information of the application.	N/A	String, case-insensitive. Length: 1 to 255 characters.

SecurityPolicies/AppOptimizedStatus

This table contains the progress of batch application optimization.

XML structure

```
<SecurityPolicies>
  <AppOptimizedStatus>
    <Result></Result>
    <Description></Description>
    <Percent></Percent>
  </AppOptimizedStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AppOptimizedStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Result	Optimization result.	N/A	Boolean: • true—Successful. • false—Failed.
Description	The case of failure.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Percent	Progress in percentage.	N/A	Unassigned integer. Value range: 0 to 100.

SecurityPolicies/AppOptimizedAdvice

This table contains the advice of application optimization.

XML structure

```
<SecurityPolicies>
  <AppOptimizedAdvice>
    <PolicyType></PolicyType>
    <OptimizeType></OptimizeType>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <NewRuleID></NewRuleID>
    <NewRuleName></NewRuleName>
    <AvAction></AvAction>
    <IpsAction></IpsAction>
    <UrlAction></UrlAction>
    <DFilterAction></DFilterAction>
    <FFilterAction></FFilterAction>
  </AppOptimizedAdvice>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AppOptimizedAdvice
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration: • 1—IPv4. • 2—IPv6.
OptimizeType	The time range of optimization.	Index	Enumeration: • 0—Today. • 1—Last Three Days. • 2—Last Week. • 3—Last Month.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name.	Index	String, case-insensitive. Length: 1 to 127 characters.
NewRuleID	New rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.
NewRuleName	New rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
AvAction	AV action.	N/A	Boolean: • true—Enable. • false—Disable.
IpsAction	IPS action.	N/A	Boolean: • true—Enable. • false—Disable.
UrlAction	URL action.	N/A	Boolean: • true—Enable. • false—Disable.
DFilterAction	Data filter action.	N/A	Boolean: • true—Enable. • false—Disable.
FFilterAction	File filter action.	N/A	Boolean: • true—Enable. • false—Disable.

SecurityPolicies/IPv4RuleGroup

This table contains information about an IPv4 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv4RuleGroup>
```

```
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv4RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.
Description.	Description	N/A	String. Length: 1 to 127 characters.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.
Enable	Enable the rule group.	N/A	Boolean: • true—Enable. • false—Disable

SecurityPolicies/IPv6RuleGroup

This table contains information about an IPv6 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv6RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.
Description.	Description	N/A	String. Length: 1 to 127 characters.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under

Column name	Column description	Column type	Data type and restrictions
			the rule group will also be deleted.
Enable	Enable the rule group.	N/A	Boolean: • true—Enable. • false—Disable

SecurityPolicies/ImportPercent

This table contains loading progress information of the security policy.

XML structure

```
<SecurityPolicies>
  <ImportStatus>
    <Result></Result>
    <LineID></LineID>
    <ConfigType></ConfigType>
    <Information></Information>
    <Percent></Percent>
  </ImportStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ImportStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Result	The result of importing security policy	N/A	Enumeration: • 0—Success. • 1—Abnormal,command execution failed. • 2—Abnormal,out of spec. • 3—Unknown error. • 4—Illegal file.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—Illegal command.	
LineID	The line number of import file	N/A	Unsigned integer Value range: 0 to 2^{64}–1.	N/A
ConfigType	The type of configuration	N/A	String. Length: 0 to 1024 characters.	N/A
Information	The information of importing security policy	N/A	String. Length: 0 to 1024 characters.	The configuration file may have blank lines
Percent	Loading progress of the security policy	N/A	Unsigned integer. Value range: 0 to 100.	N/A

SecurityPolicies/IPv4SrcSimpleAddr

This table contains source address information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSimpleAddr>
    <SrcSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddr>
  </IPv4SrcSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSimpleAddr
Table type	Multi-instance table
Row name	SrcSimpleAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
SimpleAddrList	Source IPv4 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Source IPv4 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4DestSimpleAddr

This table contains destination address information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSimpleAddr>
    <DestSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddr>
  </IPv4DestSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSimpleAddr
Table type	Multi-instance table
Row name	DestSimpleAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
SimpleAddrList	Destination IPv4 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IP,IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4ServObj

This table contains service information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServObj>
    <ServObj>
      <ID></ID>
      <SeqNum></SeqNum>
```

```
      <IsIncrement></IsIncrement>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObj>
  </IPv4ServObj>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServObj
Table type	Multi-instance table
Row name	ServObj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
ServObjList	Service list	Data structure	Members include: • ServObjItem
ServObjItem	Service information	N/A	String, case-insensitive. Length: 1 to 255 characters. Form: { "Type": "", "StartSrcPort": "", "EndSrcPort": "", "StartDestPort": "", "EndDestPort": "", "ICMPType": "", "ICMPCode":"",

Column name	Column description	Column type	Data type and restrictions
			"Protocol":"", } **Type**: Enumeration: • **0**—TCP (protocol number 6). • **1**—UDP (protocol number 17). • **2**—ICMP (protocol number 1). • **3**—ICMPv6 (protocol number 58). • **4**—Protocol. • **5**—SCTP (protocol number 132). **StartSrcPort:** **EndSrcPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is 0 or 1 or 5. **StartSrcPort** column and **EndSrcPort** column must be configured together with each other. **StartDestPort:** **EndDestPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is 0 or 1 or 5. **StartDestPort** column and **EndDestPort** column must be configured together with each other. **ICMPType:** **ICMPCode:** Unsigned integer. Value range: 0 to 255. Required when the **Type** column is **2** or **3**. **ICMPCode** column must be configured together with **ICMPType**. **Protocol:** Unsigned integer. Value range: 0 to 255. Required when the Type column is **4**.

SecurityPolicies/IPv4Terminal

This table contains terminal information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4Terminal>
    <Terminal>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </Terminal>
  </IPv4Terminal>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Terminal
Table type	Multi-instance table
Row name	Terminal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Terminal list	Data structure	Members include: • NameItem

Column name	Column description	Column type	Data type and restrictions
NameItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6Terminal

This table contains terminal information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6Terminal>
    <Terminal>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </Terminal>
  </IPv6Terminal>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Terminal
Table type	Multi-instance table
Row name	Terminal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Terminal list	Data structure	Members include: • NameItem
NameItem	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4TerminalGrp

This table contains terminal group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4TerminalGrp>
    <TerminalGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </TerminalGrp>
  </IPv4TerminalGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4TerminalGrp
Table type	Multi-instance table
Row name	TerminalGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Terminal group list	Data structure	Members include: • NameItem
NameItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6TerminalGrp

This table contains terminal group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6TerminalGrp>
    <TerminalGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </TerminalGrp>
  </IPv6TerminalGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6TerminalGrp
Table type	Multi-instance table
Row name	TerminalGrp

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Terminal group list	Data structure	Members include: • NameItem
NameItem	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4TerminalInfo

This table contains terminal information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4TerminalInfo>
    <TerminalInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </TerminalInfo>
  </IPv4TerminalInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4TerminalInfo
Table type	Multi-instance table
Row name	TerminalInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Terminal list	Data structure	Members include: • Name • Status
Name	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the terminal	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6TerminalInfo

This table contains terminal information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6TerminalInfo>
    <TerminalInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
```

```
    </TerminalInfo>
  </IPv6TerminalInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6TerminalInfo
Table type	Multi-instance table
Row name	TerminalInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Terminal list	Data structure	Members include: • Name • Status
Name	Name of the terminal	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the terminal.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4TerminalGrpInfo

This table contains terminal group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4TerminalGrpInfo>
    <TerminalGrpInfo>
      <ID></ID>
```

```
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </TerminalGrpInfo>
  </IPv4TerminalGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4TerminalGrpInfo
Table type	Multi-instance table
Row name	TerminalGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Terminal group list	Data structure	Members include: • Name • Status
Name	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the terminal group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6TerminalGrpInfo

This table contains terminal group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6TerminalGrpInfo>
    <TerminalGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </TerminalGrpInfo>
  </IPv6TerminalGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6TerminalGrpInfo
Table type	Multi-instance table
Row name	TerminalGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 0 to 1024.
NameList	Terminal group list	Data structure	Members include: • Name • Status
Name	Name of the terminal group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the terminal group.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6SrcSimpleAddr

This table contains source address information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSimpleAddr>
    <SrcSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddr>
  </IPv6SrcSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSimpleAddr
Table type	Multi-instance table
Row name	SrcSimpleAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
SimpleAddrList	Source IPv6 address list	Data structure	Members include: • SimpleAddrItem

Column name	Column description	Column type	Data type and restrictions
SimpleAddrItem	Source IPv6 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IP,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. MaskLength: IPv6 address prefix length.

SecurityPolicies/IPv6DestSimpleAddr

This table contains destination address information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSimpleAddr>
    <DestSimpleAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddr>
  </IPv6DestSimpleAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSimpleAddr
Table type	Multi-instance table
Row name	DestSimpleAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
SimpleAddrList	Destination IPv6 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated.. MaskLength: IPv6 address prefix length.

SecurityPolicies/IPv6ServObj

This table contains service information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServObj>
    <ServObj>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObj>
  </IPv6ServObj>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServObj
Table type	Multi-instance table
Row name	ServObj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
ServObjList	Service list	Data structure	Members include: • ServObjItem

ServObjItem	Service information	N/A	String, case-insensitive.
			Length: 1 to 255 characters.
			
			Form:
			{
			"Type": "",
			"StartSrcPort": "",
			"EndSrcPort": "",
			"StartDestPort": "",
			"EndDestPort": "",
			"ICMPType": "",
			"ICMPCode":"",
			"Protocol":"",
			}
			Type:
			Enumeration:
			• **0**—TCP (protocol number 6).
			• **1**—UDP (protocol number 17).
			• **2**—ICMP (protocol number 1).
			• **3**—ICMPv6 (protocol number 58).

Column name	Column description	Column type	Data type and restrictions
			• **4**—Protocol. • **5**—SCTP (protocol number 132). **StartSrcPort:** **EndSrcPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1** or 5**.** **StartSrcPort** column and **EndSrcPort** column must be configured together. **StartDestPort:** **EndDestPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1** or 5. **StartDestPort** column and **EndDestPort** column must be configured together. **ICMPType:** **ICMPCode:** Unsigned integer. Value range: 0 to 255. Required when the **Type** column is **2** or **3**. **ICMPCode** column must be configured together with **ICMPType**. **Protocol:** Unsigned integer. Value range: 0 to 255. Required when the Type column is **4**.

SecurityPolicies/IPv4SrcSimpleAddrInfo

This table contains source address information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSimpleAddrInfo>
    <SrcSimpleAddrInfo>
```

```
      <ID></ID>
      <SeqNum></SeqNum>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddrInfo>
  </IPv4SrcSimpleAddrInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSimpleAddrInfo
Table type	Multi-instance table
Row name	SrcSimpleAddrInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
SimpleAddrList	Source IPv4 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Source IPv4 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form:IP, IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4DestSimpleAddrInfo

This table contains destination address information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSimpleAddrInfo>
    <DestSimpleAddrInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddrInfo>
  </IPv4DestSimpleAddrInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSimpleAddrInfo
Table type	Multi-instance table
Row name	DestSimpleAddrInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
SimpleAddrList	Destination IPv4 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IP,IP/MaskLength, StartIP-EndIP. IP,StartIP, EndIP: dotted decimal notation. MaskLength: IPv4 address mask length.

SecurityPolicies/IPv4ServObjInfo

This table contains service information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServObjInfo>
    <ServObjInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObjInfo>
  </IPv4ServObjInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServObjInfo
Table type	Multi-instance table
Row name	ServObjInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
ServObjList	Service list	Data structure	Members include: • ServObjItem
ServObjItem	Service information	N/A	String, case-insensitive. Length: 1 to 255 characters. Form:

Column name	Column description	Column type	Data type and restrictions

			{
			"Type": "",
			"StartSrcPort": "",
			"EndSrcPort": "",
			"StartDestPort": "",
			"EndDestPort": "",
			"ICMPType": "",
			"ICMPCode":"",
			"Protocol":"",
			}
			Type:
			Enumeration:
			• **0**—TCP (protocol number 6).
			• **1**—UDP (protocol number 17).
			• **2**—ICMP (protocol number 1).
			• **3**—ICMPv6 (protocol number 58).
			• **4**—Protocol.
			• **5**—SCTP (protocol number 132).
			
			StartSrcPort:
			EndSrcPort:
			Unsigned integer.
			Value range: 0 to 65535.
			
			Required when the Type column is **0** or **1 or 5**.
			StartSrcPort column and **EndSrcPort** column must be configured together..
			
			StartDestPort:
			EndDestPort:
			Unsigned integer.
			Value range: 0 to 65535.
			
			Required when the Type column is **0** or **1 or 5**.
			StartDestPort column and **EndDestPort** column must be configured together.
			
			ICMPType:
			ICMPCode:
			Unsigned integer.
			Value range: 0 to 255.
			
			Required when the **Type** column is **2** or **3**.
			ICMPCode column must be configured together with **ICMPType**.

Column name	Column description	Column type	Data type and restrictions
			Protocol: Unsigned integer. Value range: 0 to 255. Required when the Type column is **4**.

SecurityPolicies/IPv6SrcSimpleAddrInfo

This table contains source address information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSimpleAddrInfo>
    <SrcSimpleAddrInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </SrcSimpleAddrInfo>
  </IPv6SrcSimpleAddrInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSimpleAddrInfo
Table type	Multi-instance table
Row name	SrcSimpleAddrInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 1024.
SimpleAddrList	Source IPv6 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Source IPv6 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IP,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6: Hexadecimal string, colon-separated. MaskLength: IPv6 address prefix length.

SecurityPolicies/IPv6DestSimpleAddrInfo

This table contains destination address information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSimpleAddrInfo>
    <DestSimpleAddrInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <SimpleAddrList>
        <SimpleAddrItem></SimpleAddrItem>
      </SimpleAddrList>
    </DestSimpleAddrInfo>
  </IPv6DestSimpleAddrInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSimpleAddrInfo
Table type	Multi-instance table
Row name	DestSimpleAddrInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
SimpleAddrList	Destination IPv6 address list	Data structure	Members include: • SimpleAddrItem
SimpleAddrItem	Destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 127 characters. Form: IPv6,IPv6/PrefixLength, StartIPv6-EndIPv6. IPv6,StartIPv6, EndIPv6:Hexadecimal string, colon-separated. MaskLength: IPv6 address prefix length.

SecurityPolicies/IPv6ServObjInfo

This table contains service information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServObjInfo>
    <ServObjInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <ServObjList>
        <ServObjItem></ServObjItem>
      </ServObjList>
    </ServObjInfo>
  </IPv6ServObjInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServObjInfo
Table type	Multi-instance table
Row name	ServObjInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
ServObjList	Service list	Data structure	Members include: • ServObjItem

ServObjItem	Service information	N/A	String, case-insensitive.
			Length: 1 to 255 characters.
			
			Form:
			{
			"Type": "",
			"StartSrcPort": "",
			"EndSrcPort": "",
			"StartDestPort": "",
			"EndDestPort": "",
			"ICMPType": "",
			"ICMPCode":"",
			"Protocol":"",
			}
			Type:
			Enumeration:
			• **0**—TCP (protocol number 6).
			• **1**—UDP (protocol number 17).
			• **2**—ICMP (protocol number 1).
			• **3**—ICMPv6 (protocol number 58).
			• **4**—Protocol.
			• **5**—SCTP (protocol number 132).

Column name	Column description	Column type	Data type and restrictions
			StartSrcPort: **EndSrcPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1 or 5.** **StartSrcPort** column and **EndSrcPort** column must be configured together. **StartDestPort:** **EndDestPort:** Unsigned integer. Value range: 0 to 65535. Required when the Type column is **0** or **1 or 5**. **StartDestPort** column and **EndDestPort** column must be configured together. **ICMPType:** **ICMPCode:** Unsigned integer. Value range: 0 to 255. Required when the **Type** column is **2** or **3**. **ICMPCode** column must be configured together with **ICMPType**. **Protocol:** Unsigned integer. Value range: 0 to 255. Required when the Type column is **4**.

SecurityPolicies/IPv4SSID

This table contains service set identifier (SSID) information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SSID>
    <SSID>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
```

```
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SSID>
  </IPv4SSID>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SSID
Table type	Multi-instance table
Row name	SSID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	List of SSIDs	Data structure	Members include: • NameItem
NameItem	Name of the SSID	N/A	String, case-sensitive. Length: 1 to 32 characters.

SecurityPolicies/IPv4AP

This table contains access point (AP) information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AP>
    <AP>
      <ID></ID>
```

```
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AP>
  </IPv4AP>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	List of APs	Data structure	Members include: • NameItem
NameItem	Name of the AP	N/A	String, case-sensitive. Length: 1 to 64 characters.

SecurityPolicies/IPv4APGroup

This table contains AP group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4APGroup>
```

```
    <APGroup>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </APGroup>
  </IPv4APGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4APGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	List of AP groups	Data structure	Members include: • NameItem
NameItem	Name of the AP group	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/RuleThreshold

This table contains rule threshold information of security policy.

XML structure

```
<SecurityPolicies>
  <RuleThreshold>
    <PerTypeMaxRuleNum></PerTypeMaxRuleNum>
    <TotalMaxRuleNum></TotalMaxRuleNum>
  </RuleThreshold>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RuleThreshold
Table type	Single-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PerTypeMaxRuleNum	Max number of each type of rules	N/A	Unassigned integer. Value range: 1 to 4294967290.
TotalMaxRuleNum	Max total number of rules	N/A	Unassigned integer. Value range: 1 to 8589934580.

SecurityPolicies/IPv4URL

This table contains URL category information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4URL>
    <URL>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </URL>
```

```
  </IPv4URL>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4URL
Table type	Multi-instance table
Row name	URL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	URL category list	Data structure	Members include: • NameItem
NameItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6URL

This table contains URL category information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6URL>
    <URL>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
```

```
      </NameList>
    </URL>
  </IPv6URL>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6URL
Table type	Multi-instance table
Row name	URL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	URL category list	Data structure	Members include: • NameItem
NameItem	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4URLInfo

This table contains URL category information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4URLInfo>
    <URLInfo>
      <ID></ID>
```

```
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </URLInfo>
  </IPv4URLInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4URLInfo
Table type	Multi-instance table
Row name	URLIInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.
NameList	URL category list	Data structure	Members include: • Name • Status
Name	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	URL category status	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv6URLIInfo

This table contains URL category information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6URLInfo>
    <URLInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </URLInfo>
  </IPv6URLInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6URLInfo
Table type	Multi-instance table
Row name	URLInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 64.
NameList	URL category list	Data structure	Members include: • Name • Status
Name	URL category name	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	URL category status	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4SrcLocation

This table contains source location information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocation>
    <SrcLocation>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcLocation>
  </IPv4SrcLocation>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocation
Table type	Multi-instance table
Row name	SrcLocation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source location list	Data structure	Members include: • NameItem

Column name	Column description	Column type	Data type and restrictions
NameItem	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4DestLocation

This table contains destination location information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocation>
    <DestLocation>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestLocation>
  </IPv4DestLocation>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestLocation
Table type	Multi-instance table
Row name	DestLocation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to	N/A	This column is insignificant. Ignore the value in

Column name	Column description	Column type	Data type and restrictions
	increment the data		this column.
NameList	Name of the destination location list	Data structure	Members include: • NameItem
NameItem	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4SrcLocationGrp

This table contains source location group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocationGrp>
    <SrcLocationGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcLocationGrp>
  </IPv4SrcLocationGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocationGrp
Table type	Multi-instance table
Row name	SrcLocationGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.

Column name	Column description	Column type	Data type and restrictions
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source location group list	Data structure	Members include: • NameItem
NameItem	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4DestLocationGrp

This table contains destination location group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocationGrp>
    <DestLocationGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestLocationGrp>
  </IPv4DestLocationGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestLocationGrp
Table type	Multi-instance table
Row name	DestLocationGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination location group list	Data structure	Members include: • NameItem
NameItem	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4SrcLocationInfo

This table contains source location information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocationInfo>
    <SrcLocationInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcLocationInfo>
  </IPv4SrcLocationInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocationInfo
Table type	Multi-instance table
Row name	SrcLocationInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the source location list	Data structure	Members include: • Name • Status
Name	Name of the source location	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the location.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4DestLocationInfo

This table contains destination location information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocationInfo>
    <DestLocationInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestLocationInfo>
  </IPv4DestLocationInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestLocationInfo
Table type	Multi-instance table
Row name	DestLocationInfo

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the destination location list	Data structure	Members include: • Name • Status
Name	Name of the destination location	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the location.	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4SrcLocationGrpInfo

This table contains source location group information for an existing IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcLocationGrpInfo>
    <SrcLocationGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcLocationGrpInfo>
  </IPv4SrcLocationGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcLocationGrpInfo
Table type	Multi-instance table
Row name	SrcLocationGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the source location group list	Data structure	Members include: • Name • Status
Name	Name of the source location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the location.group	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4DestLocationGrpInfo

This table contains destination location group information for an existing IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestLocationGrpInfo>
    <DestLocationGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestLocationGrpInfo>
```

```
  </IPv4DestLocationGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestLocationGrpInfo
Table type	Multi-instance table
Row name	DestLocationGrpInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 4294967290.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
NameList	Name of the destination location group list	Data structure	Members include: • Name • Status
Name	Name of the destination location group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the location.group	N/A	Boolean: • true—Effective. • false—Not effective.

SecurityPolicies/IPv4DefaultRule

This table contains IPv4 default rule information.

XML structure

```
<SecurityPolicies>
  <IPv4DefaultRule>
    <Action></Action>
    <Log></Log>
    <Counting></Counting>
  </IPv4DefaultRule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DefaultRule
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Action	Action for the rule.	N/A	Enumeration: • **1**—Deny. • **2**—Permit.
Log	Whether to enable logging.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
Counting	Whether to enable counting.	N/A	Boolean: • **true**—Enable. • **false—**Disable.

SecurityPolicies/IPv6DefaultRule

This table contains IPv6 default rule information.

XML structure

```
<SecurityPolicies>
  <IPv6DefaultRule>
    <Action></Action>
    <Log></Log>
    <Counting></Counting>
  </IPv6DefaultRule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DefaultRule
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Action	Action for the rule	N/A	Enumeration: • **1**—Deny. • **2**—Permit.
Log	Whether to enable logging	N/A	Boolean: • **true**—Enable. • **false**—Disable.
Counting	Whether to enable counting	N/A	Boolean: • **true**—Enable. • **false—Disable.**

SecurityPolicies/GetMonitorRecords

This table contains monitor records information of an learning security policy rule.

XML structure

```
<SecurityPolicies>
  <GetMonitorRecords>
    <Record>
      <RecordID></RecordID>
      <IPVer></IPVer>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <SZone></SZone>
      <SrcAddr></SrcAddr>
      <DestZone></DestZone>
      <DestAddr></DestAddr>
      <DestPort></DestPort>
      <ProtocolNum></ProtocolNum>
      <ProtocolName></ProtocolName>
      <AllRecordsCount></AllRecordsCount>
    </Record>
  </GetMonitorRecords>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetMonitorRecords
Table type	Multi-instance table
Row name	Record
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecordID	Record ID.	Index	Unassigned integer. Value range: 1 to 4000.
IPVer	IP version.	Index	Enumeration: • 1—IPv4. • 2—IPv6
RuleID	Rule ID.	N/A	Unassigned integer. Value range: 0 to 4294967290.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
SZone	Name of the source zone.	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddr	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters.
DestZone	Name of the destination zone.	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddr	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters.
DestPort	Name of the destination port.	N/A	Unsigned integer. Value range: 0 to 65535
ProtocolNum	Protocol Number	N/A	Unassigned integer. Value range: 0 to 255.
ProtocolName	Name of the protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.
AllRecordsCount	Count of records.	N/A	Unassigned integer. Value range: 0 to 4000.

SecurityPolicies/AutoDeploy

This table contains information about security policy auto deployment.

XML structure

```
<SecurityPolicies>
  <AutoDeploy>
    <StudyDuration></StudyDuration>
    <ServerZones>
      <ServerZone></ServerZone>
    </ServerZones>
    <InternetZones>
      <InternetZone></InternetZone>
    </InternetZones>
    <IPv4MaskLen></IPv4MaskLen>
    <IPv6MaskLen></IPv6MaskLen>
  </AutoDeploy>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AutoDeploy
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
StudyDuration	Study time.	N/A	Unassigned integer. Value range: 1 to 168.
ServerZones	Server zones.	Data structure	Members include: • **ServerZone**.
ServerZone	Server zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.
InternetZones	Internet zones.	Data structure	Members include: • **InternetZone**.
InternetZone	Internet zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.
IPv4MaskLen	Length of IPv4 mask.	N/A	Unassigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 32.
IPv6MaskLen	Length of IPv6 prefix.	N/A	Unassigned integer. Value range: 64 to 128.

SecurityPolicies/GetAutoDeployStatus

This table contains status information about security policy auto deployment.

XML structure

```
<SecurityPolicies>
  <GetAutoDeployStatus>
    <Status></Status>
    <Remainingtime></Remainingtime>
    <AllRecordsCount></AllRecordsCount>
  </GetAutoDeployStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetAutoDeployStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Status	Status of auto deployment.	N/A	Options include: • **0**—Init. • **1**—Studying. • **2**—Ended.
Remainingtime	Remaining time for study in minute.	N/A	Unassigned integer. Value range: 1 to 10080 minutes.
AllRecordsCount	Total number of IPv4 and IPv6 records.	N/A	Unassigned integer. Value range: 1 to 4000.

SecurityPolicies/GetAutoDeployRecords

This table contains information about security policy auto deployment records.

XML structure

```
<SecurityPolicies>
  <GetAutoDeployRecords>
    <Record>
    <RecordID></RecordID>
    <IPVer></IPVer>
     <Mode></Mode>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <SZoneList>
      <SZone></SZone>
    </SZoneList>
    <SrcAddrList>
      <SrcAddr></SrcAddr>
    </SrcAddrList>
    <DestZone></DestZone>
    <DestAddr></DestAddr>
    <DestPort></DestPort>
    <ProtocolNum></ProtocolNum>
    <ProtocolName></ProtocolName>
    <AllRecordsCount></AllRecordsCount>
    </Record>
  </GetAutoDeployRecords>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetAutoDeployRecords
Table type	Multi-instance table
Row name	Record
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecordID	Record ID.	Index	Unassigned integer. Value range: 1 to 2000.

Column name	Column description	Column type	Data type and restrictions
IPVer	IP version.	Index	Unassigned integer. Value range: 1 to 2.
Mode	Aggregation mode.	N/A	Options include: • **1**—Internet-to-Server mode. • **2**—Server mode. • **3**—Server-to-Internet mode. • **4**—Internet mode. • **5**—Mutual mode.
RuleID	Rule ID.	N/A	Unassigned integer. Value range: 1 to 4294967290.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
SZoneList	List of source zones.	Data structure	Members include: • **SZone**.
SZone	Name of source zone.	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrList	List of source addresses.	Data structure	Members include: • **SrcAddr**.
SrcAddr	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters.
DestZone	Destination zone.	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddr	Destination address.	N/A	String, case-insensitive. Length: 1 to 127 characters.
DestPort	Destination port.	N/A	Unassigned integer. Value range: 1 to 65535.
ProtocolNum	Protocol number.	N/A	String, case-insensitive. Length: 1 to 255 characters.
ProtocolName	Name of the protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.
AllRecordsCount	Total number of records.	N/A	Unassigned integer. Value range: 1 to 4000.

SecurityPolicies/GetAutoDeploySrcAddr

This table contains information about source addresses for security policy auto deployment.

XML structure

```
<SecurityPolicies>
  <GetAutoDeploySrcAddr>
    <Record>
```

```
      <RecordID></RecordID>
      <IPVer></IPVer>
      <SeqNum></SeqNum>
      <SrcAddrList>
        <SrcAddr></SrcAddr>
      </SrcAddrList>
    </Record>
  </GetAutoDeploySrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetAutoDeploySrcAddr
Table type	Multi-instance table
Row name	Record
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecordID	Record ID.	Index	Unassigned integer. Value range: 1 to 2000.
IPVer	IP version.	Index	Unassigned integer. Value range: 1 to 2.
SeqNum.	Sequence number.	Index	Unassigned integer. Value range: 1 to 1024.
SrcAddrList	List of source addresses.	Data structure	Members include: • SrcAddr.
SrcAddr	Source address.	N/A	String, case-insensitive. Length: 1 to 127 characters.

Contents

SecurityPolicies 2

SecurityPolicies/IPv4Rules 2
SecurityPolicies/IPv6Rules 3
SecurityPolicies/IPv4SrcSecZone 4
SecurityPolicies/IPv6SrcSecZone 5
SecurityPolicies/IPv4DestSecZone 5
SecurityPolicies/IPv6DestSecZone 5
SecurityPolicies/IPv4SrcAddr 6
SecurityPolicies/IPv6SrcAddr 6
SecurityPolicies/IPv4DestAddr 6
SecurityPolicies/IPv6DestAddr 7
SecurityPolicies/IPv4SrcMacAddr 7
SecurityPolicies/IPv4ServGrp 7
SecurityPolicies/IPv6ServGrp 8
SecurityPolicies/IPv4App 8
SecurityPolicies/IPv6App 8
SecurityPolicies/IPv4AppGrp 9
SecurityPolicies/IPv6AppGrp 9
SecurityPolicies/IPv4User 9
SecurityPolicies/IPv6User 9
SecurityPolicies/IPv4UserGrp 10
SecurityPolicies/IPv6UserGrp 10
SecurityPolicies/AppOptimizedStatus 10
SecurityPolicies/CommitCfgChange 10
SecurityPolicies/MoveIPv4Rule 10
SecurityPolicies/MoveIPv6Rule 11
SecurityPolicies/SingleOptimized 11

SecurityPolicies

SecurityPolicies/IPv4Rules

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	During executing create operation, the current number of the rule must under the limit. 当执行create操作时，规则数必须在限制内。
The time range does not exist and the rule will be set to inactive. 由于指定的时间段不存在，该规则不会生效。	During executing create、merge、replace operation, the time range must exist. 当执行create、merge、replace操作时，指定的时间段必须存在。
Failed to create the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing create operation, the ID of the rule to be moved can’t be equal to the target one. 当执行create操作时，指定规则编号不能和目标规则相同。
Failed to merge the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing merge operation, the ID of the rule to be moved can’t be equal to the target one. 当执行merge操作时，指定规则编号不能和目标规则相同。
Failed to replace the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing replace operation, the ID of the rule to be moved can’t be equal to the target one. 当执行replace操作时，指定规则编号不能和目标规则相同。
Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	During executing create、merge、replace operation, the specified rule must exist. 当执行create、merge、replace操作时，指定规则或目标规则必须存在。
Failed to create the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	During executing create operation, the action of the rule must be specified. 当执行create操作时，必须指定规则动作。
Failed to merge the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	During executing merge operation, the action of the rule must be specified. 当执行merge操作时，必须指定规则动作。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	During executing create operation, the current number of the rule must under the maximum. 当执行create操作时，规则数不能达到上限值。
The app group does not exist. 指定的应用组不存在。	During executing create、merge、replace operation, the app group must exist. 当执行create、merge、replace操作时，指定的应用组必须存在。
The application does not exist. 指定的应用不存在。	During executing create、merge、replace operation, the application must exist. 当执行create、merge、replace操作时，指定的应用必须存在。
The app group and the application does not exist, the rule does not match packets. 指定的应用组和应用都不存在，该规则不会匹配报	During executing create、merge、replace operation, the app group and the application must exist.

文。	当执行create、merge、replace操作时，指定的应用或应用组必须存在。
The application does not exist, the rule does not match packets. 指定的应用不存在，该规则不会匹配报文。	During executing create、merge、replace operation, the application must exist. 当执行create、merge、replace操作时，指定的应用必须存在。
The app group does not exist, the rule does not match packets. 指定的应用组不存在，该规则不会匹配报文。	During executing create、merge、replace operation, the app group must exist. 当执行create、merge、replace操作时，指定的应用组必须存在。
The name is already used by another security policy rule. 规则名称已存在。	During executing create、merge、replace operation, the name of the new rule can't be exist. 当执行create、merge、replace操作时，新规则名称必须不存在。
Invalid rule name. 无效的规则名称。	During executing create、merge、replace operation, the name of the new rule must be valid. 当执行create、merge、replace操作时，规则名称必须有效。

SecurityPolicies/IPv6Rules

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	During executing create operation, the current number of the rule must under the limit. 当执行create操作时，规则数必须在限制内。
The time range does not exist and the rule will be set to inactive. 由于指定的时间段不存在，该规则不会生效。	During executing create、merge、replace operation, the time range must exist. 当执行create、merge、replace操作时，指定的时间段必须存在。
Failed to create the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing create operation, the ID of the rule to be moved can't be equal to the target one. 当执行create操作时，指定规则编号不能和目标规则相同。
Failed to merge the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing merge operation, the ID of the rule to be moved can't be equal to the target one. 当执行merge操作时，指定规则编号不能和目标规则相同。
Failed to replace the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败。	During executing replace operation, the ID of the rule to be moved can't be equal to the target one. 当执行replace操作时，指定规则编号不能和目标规则相同。
Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	During executing create、merge、replace operation, the specified rule must exist. 当执行create、merge、replace操作时，指定规则或目标规则必须存在。
Failed to create the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	During executing create operation, the action of the rule must be specified. 当执行create操作时，必须指定规则动作。
Failed to merge the rule because the action of the rule is not specified.	During executing merge operation, the action of the rule must be specified.

由于未指定规则动作，创建规则失败。	当执行merge操作时，必须指定规则动作。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	During executing create operation, the current number of the rule must under the maximum. 当执行create操作时，规则数不能达到上限值。
The app group does not exist. 指定的应用组不存在。	During executing create、merge、replace operation, the app group must exist. 当执行create、merge、replace操作时，指定的应用组必须存在。
The application does not exist. 指定的应用不存在。	During executing create、merge、replace operation, the application must exist. 当执行create、merge、replace操作时，指定的应用必须存在。
The app group and the application does not exist, the rule does not match packets. 指定的应用组和应用都不存在，该规则不会匹配报文。	During executing create、merge、replace operation, the app group and the application must exist. 当执行create、merge、replace操作时，指定的应用或应用组必须存在。
The application does not exist, the rule does not match packets. 指定的应用不存在，该规则不会匹配报文。	During executing create、merge、replace operation, the application must exist. 当执行create、merge、replace操作时，指定的应用必须存在。
The app group does not exist, the rule does not match packets. 指定的应用组不存在，该规则不会匹配报文。	During executing create、merge、replace operation, the app group must exist. 当执行create、merge、replace操作时，指定的应用组必须存在。
The name is already used by another security policy rule. 规则名称已存在。	During executing create、merge、replace operation, the name of the new rule can’t be exist. 当执行create、merge、replace操作时，新规则名称必须不存在。
Invalid rule name. 无效的规则名称。	During executing create、merge、replace operation, the name of the new rule must be valid. 当执行create、merge、replace操作时，规则名称必须有效。

SecurityPolicies/IPv4SrcSecZone

Message	Explanation
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of source seczone already reached. 源安全域个数超过上限。	During executing create、merge、replace operation, the number of source seczone must be under the maximum. 当执行create、merge、replace操作时，源安全域个数必须在限制内。
The source seczone is already existed in the rule. 源安全域已存在。	During executing create、merge、replace operation, the new source zone can’t be existed. 当执行create、merge、replace操作时，源安全域不能存在。

SecurityPolicies/IPv6SrcSecZone

Message	Explanation
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of source seczone already reached. 源安全域个数超过上限。	During executing create、merge、replace operation, the number of source seczone must be under the maximum. 当执行create、merge、replace操作时，源安全域个数必须在限制内。
The source seczone is already existed in the rule. 源安全域已存在。	During executing create、merge、replace operation, the new source zone can’t be existed. 当执行create、merge、replace操作时，源安全域不能存在。

SecurityPolicies/IPv4DestSecZone

Message	Explanation
Invalid name. 无效名称。	During executing create、merge、replace operation, the name of must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of destination seczone already reached. 目的安全域个数超过上限。	During executing create、merge、replace operation, the number of destination seczone must be under the maximum. 当执行create、merge、replace操作时，目的安全域个数必须在限制内。
The destination seczone is already existed in the rule. 目的安全域已存在。	During executing create、merge、replace operation, the new destination zone can’t be existed. 当执行create、merge、replace操作时，目的安全域不能存在。

SecurityPolicies/IPv6DestSecZone

Message	Explanation
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of destination seczone already reached. 目的安全域个数超过上限。	During executing create、merge、replace operation, the number of destination seczone must be under the maximum. 当执行create、merge、replace操作时，目的安全域个数必须在限制内。
The destination seczone is already existed in the rule. 目的安全域已存在。	During executing create、merge、replace operation, the new destination zone can’t be existed. 当执行create、merge、replace操作时，目的安全域不能存在。

SecurityPolicies/IPv4SrcAddr

Message	Explanation
Illegal source IP address object group type. 指定的源IP地址对象组类型不正确。	During executing create、merge、replace operation, the source IP address object group type must be legal. 当执行create、merge、replace操作时，指定的源IP地址对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of source ip already reached. 源地址个数超过上限。	During executing create、merge、replace operation, the number of source ip address must be under the maximum. 当执行create、merge、replace操作时，源地址个数必须在限制内。

SecurityPolicies/IPv6SrcAddr

Message	Explanation
Illegal source IP address object group type. 指定的源IP地址对象组类型不正确。	During executing create、merge、replace operation, the source IP address object group type must be legal. 当执行create、merge、replace操作时，指定的源IP地址对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of source ip already reached. 源地址个数超过上限。	During executing create、merge、replace operation, the number of source ip address must be under the maximum. 当执行create、merge、replace操作时，源地址个数必须在限制内。

SecurityPolicies/IPv4DestAddr

Message	Explanation
Illegal destination IP address object group type. 指定的目的IP地址对象组类型不正确。	During executing create、merge、replace operation, the destination IP address object group type must be legal. 当执行create、merge、replace操作时，指定的目的IP地址对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of destination ip already reached. 目的地址个数超过上限。	During executing create、merge、replace operation, the number of destination ip address must be under the maximum. 当执行create、merge、replace操作时，目的地址个数必须在限制内。

SecurityPolicies/IPv6DestAddr

Message	Explanation
Illegal destination IP address object group type. 指定的目的IP地址对象组类型不正确。	During executing create、merge、replace operation, the destination IP address object group type must be legal. 当执行create、merge、replace操作时，指定的目的IP地址对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of destination ip already reached. 目的地址个数超过上限。	During executing create、merge、replace operation, the number of destination ip address must be under the maximum. 当执行create、merge、replace操作时，目的地址个数必须在限制内。

SecurityPolicies/IPv4SrcMacAddr

Message	Explanation
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of source MAC already reached. 源MAC地址组个数超过上限。	During executing create、merge、replace operation, the number of source MAC address must be under the maximum. 当执行create、merge、replace操作时，源MAC地址组个数必须在限制内。
Illegal source MAC address object group type. 指定的源MAC地址对象组类型不正确。	During executing create、merge、replace operation, the source MAC address object group type must be legal. 当执行create、merge、replace操作时，指定的源MAC地址对象组类型必须正确。

SecurityPolicies/IPv4ServGrp

Message	Explanation
Illegal service object group type. 指定的服务对象组类型不正确。	During executing create、merge、replace operation, the service object object group type must be legal. 当执行create、merge、replace操作时，指定的服务对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of service group already reached. 服务组个数超过上限。	During executing create、merge、replace operation, the number of service group must be under the maximum. 当执行create、merge、replace操作时，服务组个数必须在限制内。

SecurityPolicies/IPv6ServGrp

Message	Explanation
Illegal service object group type. 指定的服务对象组类型不正确。	During executing create、merge、replace operation, the service object object group type must be legal. 当执行create、merge、replace操作时，指定的服务对象组类型必须正确。
Invalid name. 无效名称。	During executing create、merge、replace operation, the name must be valid. 当执行create、merge、replace操作时，名称必须有效。
Maximum number of service group already reached. 服务组个数超过上限。	During executing create、merge、replace operation, the number of service group must be under the maximum. 当执行create、merge、replace操作时，服务组个数必须在限制内。

SecurityPolicies/IPv4App

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name. 应用组或应用名称不能为'invalid'或'other'。	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'. 当执行create、merge、replace操作时，应用组或应用名称不能为'invalid'或'other'。
Maximum number of service group already reached. 服务组个数超过上限。	During executing create、merge、replace operation, the number of service group must be under the maximum. 当执行create、merge、replace操作时，服务组个数必须在限制内。
Maximum number of application already reached. 应用个数超过上限。	During executing create、merge、replace operation, the number of application must be under the maximum. 当执行create、merge、replace操作时，应用个数必须在限制内。

SecurityPolicies/IPv6App

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name. 应用组或应用名称不能为'invalid'或'other'。	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'. 当执行create、merge、replace操作时，应用组或应用名称不能为'invalid'或'other'。
Maximum number of service group already reached. 服务组个数超过上限。	During executing create、merge、replace operation, the number of service group must be under the maximum. 当执行create、merge、replace操作时，服务组个数必须在限制内。
Maximum number of application already reached. 应用个数超过上限。	During executing create、merge、replace operation, the number of application must be under the maximum. 当执行create、merge、replace操作时，应用个数必须在限制内。

SecurityPolicies/IPv4AppGrp

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name. 应用组或应用名称不能为'invalid'或'other'。	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'. 当执行create、merge、replace操作时，应用组或应用名称不能为'invalid'或'other'。
Maximum number of application group already reached. 应用组个数超过上限。	During executing create、merge、replace operation, the number of application group must be under the maximum. 当执行create、merge、replace操作时，应用组个数必须在限制内。

SecurityPolicies/IPv6AppGrp

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name. 应用组或应用名称不能为'invalid'或'other'。	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'. 当执行create、merge、replace操作时，应用组或应用名称不能为'invalid'或'other'。
Maximum number of application group already reached. 应用组个数超过上限。	During executing create、merge、replace operation, the number of application group must be under the maximum. 当执行create、merge、replace操作时，应用组个数必须在限制内。

SecurityPolicies/IPv4User

Message	Explanation
Invalid username. 无效的用户名。	During executing create、merge、replace operation, the username must be valid. 当执行create、merge、replace操作时，用户名必须有效。
Maximum number of user already reached. 用户个数超过上限。	During executing create、merge、replace operation, the number of user must be under the maximum. 当执行create、merge、replace操作时，用户个数必须在限制内。

SecurityPolicies/IPv6User

Message	Explanation
Invalid username. 无效的用户名。	During executing create、merge、replace operation, the username must be valid. 当执行create、merge、replace操作时，用户名必须有效。
Maximum number of user already reached. 用户个数超过上限。	During executing create、merge、replace operation, the number of user must be under the maximum. 当执行create、merge、replace操作时，用户个数必须在限制内。

SecurityPolicies/IPv4UserGrp

Message	Explanation
Maximum number of user-group already reached. 用户组个数超过上限。	During executing create、merge、replace operation, the number of user-group must be under the maximum. 当执行create、merge、replace操作时，用户组个数必须在限制内。

SecurityPolicies/IPv6UserGrp

Message	Explanation
Maximum number of user-group already reached. 用户组个数超过上限。	During executing create、merge、replace operation, the number of user-group must be under the maximum. 当执行create、merge、replace操作时，用户组个数必须在限制内。

SecurityPolicies/AppOptimizedStatus

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	The number of rule must be under the maximum when create rules. 当创建规则时，规则个数必须在限制内。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	The number of rule must be under the maximum when create rules. 当创建规则时，规则个数必须在限制内。
Failed to reference the protection action during the auto batch optimization operation. 策略批量调优过程中引用策略防护动作失败。	During the auto batch optimization operation, the protection action must be referenced successfully. 策略批量调优过程中，引用策略防护动作必须成功。
Auto batch optimization failed. 策略批量调优失败。	Auto batch optimization failed. 策略批量调优失败。

SecurityPolicies/CommitCfgChange

Message	Explanation
The accelerate state of IPv4 or IPv6 is disable. IPv4或者IPv6的加速状态为不加速。	The accelerate state of IPv4 or IPv6 is disable. IPv4或者IPv6的加速状态为不加速。

SecurityPolicies/MoveIPv4Rule

Message	Explanation
Failed to move the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则和目标规则的编号相同，移动规则失败。	During the operation, the ID of the rule to be moved can’t be equal to the target one. 当执行该操作时，指定规则编号不能和目标规则相同。

Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	During the operation, the specified rule must exist. 当执行该操作时，指定规则或目标规则必须存在。

SecurityPolicies/MoveIPv6Rule

Message	Explanation
Failed to move the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则和目标规则的编号相同，移动规则失败。	During the operation, the ID of the rule to be moved can’t be equal to the target one. 当执行该操作时，指定规则编号不能和目标规则相同。
Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	During the operation, the specified rule must exist. 当执行该操作时，指定规则或目标规则必须存在。

SecurityPolicies/SingleOptimized

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	During the operation, the current number of the rule must under the limit. 当执行该操作时，规则数必须在限制内。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	During the operation, the current number of the rule must under the maximum. 当执行该操作时，规则数必须在限制内。
The name is already used by another security policy rule. 规则名称已存在。	During the operation, the name of the new rule can’t be exist. 当执行该操作时，新规则名称必须不存在。
The policy has been optimized. 调优失败，此策略规则已调优，请刷新。	During the operation, the policy can’t have been optimized already. 当执行该操作时，规则必须还未调优过。

Contents

SecurityZone 1

SecurityZone/Zones 1
XML structure 1
Table description 1
Columns 1
SecurityZone/ZonePairs 1
XML structure 1
Table description 2
Columns 2
SecurityZone/Interfaces 2
XML structure 2
Table description 3
Columns 3
SecurityZone/VLANs 3
XML structure 3
Table description 4
Columns 4
SecurityZone/ServicePaths 4
XML structure 4
Table description 5
Columns 5
SecurityZone/VsipFilterSwitch 5
XML structure 5
Table description 5
Columns 6
SecurityZone/IPv4Members 6
XML structure 6
Table description 6
Columns 7
SecurityZone/IPv6Members 7
XML structure 7
Table description 7
Columns 8
SecurityZone/ServiceManageProtocols 8
XML structure 8
Table description 8
Columns 9

SecurityZone

SecurityZone/Zones

This table contains the information about a security zone.

XML structure

```
<SecurityZone>
  <Zones>
    <Zone>
      <Name></Name>
    </Zone>
  </Zones>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Zones
Table type	Multi-instance table
Row name	Zone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).

SecurityZone/ZonePairs

This table contains the information about a security zone pair.

XML structure

```
<SecurityZone>
  <ZonePairs>
    <ZonePair>
      <SrcZone></SrcZone>
```

```
      <DestZone></DestZone>
    </ZonePair>
  </ZonePairs>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ZonePairs
Table type	Multi-instance table
Row name	ZonePair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
SrcZone	Source security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The source security name cannot contain hyphens (-).
DestZone	Destination security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The destination security name cannot contain hyphens (-).

SecurityZone/Interfaces

The table contains the interface member information of a security zone.

XML structure

```
<SecurityZone>
  <Interfaces>
    <Interface>
      <ZoneName></ZoneName>
      <IfIndex></IfIndex>
      <VlanList></VlanList>
    </Interface>
  </Interfaces>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
IfIndex	Interface index	Index	Unsigned integer.	Available interfaces include Layer 2 interfaces and layer 3 interfaces.
VlanList	The VLANs that the interface belongs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any spaces.	N/A

SecurityZone/VLANs

The table contains the VLAN interface information of a security zone.

XML structure

```
<SecurityZone>
  <VLANs>
    <VLAN>
      <ZoneName></ZoneName>
      <VlanList></VlanList>
    </VLAN>
  </VLANs>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
VlanList	List of VLAN	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any spaces.	N/A

SecurityZone/ServicePaths

The table contains the service path member information of a security zone.

XML structure

```
<SecurityZone>
  <ServicePaths>
    <ServicePath>
      <ZoneName></ZoneName>
      <ServicePathID></ServicePathID>
      <Reverse></Reverse>
    </ServicePath>
  </ServicePaths>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServicePaths
Table type	Multi-instance table
Row name	ServicePath
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
ServicePathID	Service path ID	Index	Unsigned integer.	N/A
Reverse	Reverse tag	Index	Boolean: • true. • false.	N/A

SecurityZone/VsipFilterSwitch

This table contains information about traffic filtering based on virtual service IP address.

XML structure

```
<SecurityZone>
  <VsipFilterSwitch>
    <EnableVsipFilter></EnableVsipFilter>
  </VsipFilterSwitch>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	VsipFilterSwitch
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableVsipFilter	Whether to enable filtering based on virtual service IP address	N/A	Boolean: • **true—**Enable the filtering feature. • **false—**Disable the filtering feature (default).

SecurityZone/IPv4Members

The table contains the IPv4 subnet member information of a security zone.

XML structure

```
<SecurityZone>
  <IPv4Members>
    <IPv4Member>
      <ZoneName></ZoneName>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <VRF></VRF>
    </IPv4Member>
  </IPv4Members>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	IPv4Members
Table type	Multi-instance table
Row name	IPv4Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-sensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
Ipv4Address	IPv4 subnet address	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 subnet mask	Index	Unsigned integer. Value range: 0 to 32.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 0 to 31 characters.	You can specify a non-existent VPN instance.

SecurityZone/IPv6Members

The table contains the IPv6 subnet member information of a security zone.

XML structure

```
<SecurityZone>
  <IPv6Members>
    <IPv6Member>
      <ZoneName></ZoneName>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <VRF></VRF>
    </IPv6Member>
  </IPv6Members>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	IPv6Members
Table type	Multi-instance table
Row name	IPv6Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-sensitive. Length: 1 to 31 characters.	The security zone name cannot contain hyphens (-).
Ipv6Address	IPv6 subnet address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 0 to 31 characters.	You can specify a non-existent VPN instance.

SecurityZone/ServiceManageProtocols

The table contains information about protocols allowed by an interface.

XML structure

```
<SecurityZone>
  <ServiceManageProtocols>
    <ServiceManageProtocol>
      <IfName></IfName>
      <Direction></Direction>
      <HTTP></HTTP>
      <HTTPS></HTTPS>
      <NETCONF-HTTP></NETCONF-HTTP>
      <NETCONF-HTTPS></NETCONF-HTTPS>
      <NETCONF-SSH></NETCONF-SSH>
      <PING></PING>
      <SNMP></SNMP>
      <SSH></SSH>
      <TELNET></TELNET>
    </ServiceManageProtocol>
  </ServiceManageProtocols>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServiceManageProtocols
Table type	Multi-instance table

Row name	ServiceManageProtocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
IfName	Interface name	Index	String, case-insensitive. Length: 1 to 47 characters	Available interfaces include layer 3 interfaces.
Direction	Flow direction	Index	Boolean: • **false**—Inbound. • **true**—Outbound..	N/A
HTTP	HTTP protocol	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
HTTPS	HTTPS protocol	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-HTTP	NETCONF over SOAP over HTTP	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-HTTPS	NETCONF over SOAP over HTTPS	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-SSH	NETCONF over SSH	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
PING	Ping	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
SNMP	SNMP	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
SSH	SSH	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
TELNET	Telnet	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A

Contents

SecurityZone 1

SecurityZone/Capabilities 1
XML structure 1
Table description 1
Columns 1
SecurityZone/Zones 2
XML structure 2
Table description 2
Columns 2
SecurityZone/ZonePairs 3
XML structure 3
Table description 3
Columns 3
SecurityZone/Interfaces 3
XML structure 3
Table description 4
Columns 4
SecurityZone/VLANs 4
XML structure 5
Table description 5
Columns 5
SecurityZone/ServicePaths 5
XML structure 5
Table description 6
Columns 6
SecurityZone/VsipFilterSwitch 6
XML structure 6
Table description 7
Columns 7
SecurityZone/IPv4Members 7
XML structure 7
Table description 7
Columns 8
SecurityZone/IPv6Members 8
XML structure 8
Table description 8
Columns 9
SecurityZone/ServiceManageProtocols 9
XML structure 9
Table description 9
Columns 10

SecurityZone

SecurityZone/Capabilities

This table contains the capabilities information of a security zone.

XML structure

```
<SecurityZone>
  <Capabilities>
    <L3Interface></L3Interface>
    <L2Interface></L2Interface>
    <VLAN></VLAN>
    <IP></IP>
    <ServicePath></ServicePath>
  </Capabilities>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
L3Interface	Whether layer 3 interface member is supported	N/A	Boolean: • true. • False.	N/A
L2Interface	Whether layer 2 interface member is supported	N/A	Boolean: • true. • false.	N/A
VLAN	Whether VLAN member is supported	N/A	Boolean: • true. • false.	N/A
IP	Whether IP member is supported	N/A	Boolean: • true.	N/A

Column name	Column description	Column type	Data type and restrictions	Remark
			• false.	
ServicePath	Whether service path member is supported	N/A	Boolean: • true. • false.	N/A

SecurityZone/Zones

This table contains security zone information.

XML structure

```
<SecurityZone>
  <Zones>
    <Zone>
      <Name></Name>
      <ID></ID>
    </Zone>
  </Zones>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Zones
Table type	Multi-instance table
Row name	Zone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
ID	Security zone ID	N/A	Unsigned integer. Value range: 0 to 10100	N/A

SecurityZone/ZonePairs

This table contains security zone pair information.

XML structure

```
<SecurityZone>
  <ZonePairs>
    <ZonePair>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </ZonePair>
  </ZonePairs>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ZonePairs
Table type	Multi-instance table
Row name	ZonePair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
SrcZone	Source security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The source security name cannot contain hyphens (-).
DestZone	Destination security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The destination security name cannot contain hyphens (-).

SecurityZone/Interfaces

The table contains the interface member information of a security zone.

XML structure

```
<SecurityZone>
  <Interfaces>
```

```
    <Interface>
      <ZoneName></ZoneName>
      <IfIndex></IfIndex>
      <VlanList></VlanList>
    </Interface>
  </Interfaces>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
IfIndex	Interface index	Index	Unsigned integer.	Available interfaces include Layer 2 interfaces and layer 3 interfaces.
VlanList	The VLANs that the interface belongs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A

SecurityZone/VLANs

The table contains the VLAN member information of a security zone.

XML structure

```
<SecurityZone>
  <VLANs>
    <VLAN>
      <ZoneName></ZoneName>
      <VlanList></VlanList>
    </VLAN>
  </VLANs>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
VlanList	List of VLANs	Index	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any spaces.	N/A

SecurityZone/ServicePaths

The table contains the service path member information of a security zone.

XML structure

```
<SecurityZone>
  <ServicePaths>
```

```
    <ServicePath>
      <ZoneName></ZoneName>
      <ServicePathID></ServicePathID>
      <Reverse></Reverse>
    </ServicePath>
  </ServicePaths>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServicePaths
Table type	Multi-instance table
Row name	ServicePath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
ServicePathID	Service path ID	Index	Unsigned integer.	N/A
Reverse	Reverse tag	Index	Boolean: • true. • false.	N/A

SecurityZone/VsipFilterSwitch

This table contains information about traffic filtering based on virtual service IP address.

XML structure

```
<SecurityZone>
  <VsipFilterSwitch>
    <EnableVsipFilter></EnableVsipFilter>
  </VsipFilterSwitch>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	VsipFilterSwitch
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableVsipFilter	Whether filtering based on virtual service IP address is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

SecurityZone/IPv4Members

The table contains the IPv4 subnet member information of a security zone.

XML structure

```
<SecurityZone>
  <IPv4Members>
    <IPv4Member>
      <ZoneName></ZoneName>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <VRF></VRF>
    </IPv4Member>
  </IPv4Members>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	IPv4Members
Table type	Multi-instance table
Row name	IPv4Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-insensitive. Length: 1 to 31 characters.	The security name cannot contain hyphens (-).
Ipv4Address	IPv4 subnet address	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 subnet mask	Index	Unsigned integer. Value range: 0 to 32.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 0 to 31 characters.	You can specify a non-existent VPN instance.

SecurityZone/IPv6Members

The table contains the IPv6 subnet member information of a security zone.

XML structure

```
<SecurityZone>
  <IPv6Members>
    <IPv6Member>
      <ZoneName></ZoneName>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <VRF></VRF>
    </IPv6Member>
  </IPv6Members>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	IPv6Members
Table type	Multi-instance table
Row name	IPv6Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String, case-sensitive. Length: 1 to 31 characters.	The security zone name cannot contain hyphens (-).
Ipv6Address	IPv6 subnet address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 0 to 31 characters.	You can specify a non-existent VPN instance.

SecurityZone/ServiceManageProtocols

The table contains information about protocols allowed by an interface.

XML structure

```
<SecurityZone>
  <ServiceManageProtocols>
    <ServiceManageProtocol>
      <IfName></IfName>
      <Direction></Direction>
      <HTTP></HTTP>
      <HTTPS></HTTPS>
      <NETCONF-HTTP></NETCONF-HTTP>
      <NETCONF-HTTPS></NETCONF-HTTPS>
      <NETCONF-SSH></NETCONF-SSH>
      <PING></PING>
      <SNMP></SNMP>
      <SSH></SSH>
      <TELNET></TELNET>
    </ServiceManageProtocol>
  </ServiceManageProtocols>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServiceManageProtocols
Table type	Multi-instance table

Row name	ServiceManageProtocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
IfName	Interface name	Index	String, case-insensitive. Length: 1 to 47 characters.	Available interfaces include layer 3 interfaces.
Direction	Flow direction	Index	Boolean: • **false**—Inbound. • **true**—Outbound.	N/A
HTTP	HTTP	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
HTTPS	HTTPS	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-HTTP	NETCONF over SOAP over HTTP	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-HTTPS	NETCONF over SOAP over HTTPS	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
NETCONF-SSH	NETCONF over SSH	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
PING	Ping	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
SNMP	SNMP	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
SSH	SSH	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A
TELNET	Telnet	N/A	Boolean: • **false**—Deny (default). • **true**—Allow.	N/A

Contents

segment-routing 1
segment-routing/bindings 1
XML structure 1
Table description 1
Columns 1
segment-routing/bindings/prefix-sid-mappings 2
XML structure 2
Table description 2
Columns 2
segment-routing/color-algo-mappings 2
XML structure 3
Table description 3
Columns 3
segment-routing/color-algo-mappings/color-algos 3
XML structure 3
Table description 3
Columns 4

segment-routing

segment-routing/bindings

This table contains SR binding information.

XML structure

```
<segment-routing>
  <bindings>
    <prefix-sid-mappings>
      <prefix-sid-mapping>
        <ip-address></ip-address>
        <mask-length></mask-length>
        <algorithm></algorithm>
        <start-sid></start-sid>
        <range></range>
        <attach-flag></attach-flag>
      </prefix-sid-mapping>
    </prefix-sid-mappings>
  </bindings>
</segment-routing>
```

Table description

Item	Description
Feature name	segment-routing
Table name	bindings
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-sid-mappings	Prefix SID mappings.	Sublist	For details of the subtable, refer to the attributes table.	N/A

segment-routing/bindings/prefix-sid-mappings

This table contains SR prefix SID mapping information.

XML structure

Please refer to the XML Structure of segment-routing/bindings.

Table description

Item	Description
Feature name	segment-routing
Table name	prefix-sid-mappings
Table type	Multi-instance table
Row name	prefix-sid-mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-address	IP address.	Index	String, dotted decimal notation.	Example: 10.1.1.0
mask-length	Mask length of IP address.	Index	Unsigned integer. Value range: 1 to 32.	N/A
algorithm	Prefix SID algorithm.	Index	Unsigned integer. Value range: 0.	Only 0 is supported in the current software version.
start-sid	Start value of SID index range.	N/A	Unsigned integer.	N/A
range	Number of allocated SIDs.	N/A	Unsigned integer.	N/A
attach-flag	The attach flag.	N/A	Boolean: • true—Specified prefixes represent local networks. • false—Specified prefixes do not represent local networks (default).	N/A

segment-routing/color-algo-mappings

This table contains color-algo-mapping information.

XML structure

```
<segment-routing>
  <color-algo-mappings>
    <color-algos>
      <color-algo>
        <color-name></color-name>
        <algo-id></algo-id>
      </color-algo>
    </color-algos>
  </color-algo-mappings>
</segment-routing>
```

Table description

Item	Description
Feature name	segment-routing
Table name	color-algo-mappings
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color-algos	Color value and algorithm value mapping.	Sublist	For details of the subtable, refer to the attributes table.	N/A

segment-routing/color-algo-mappings/color-algos

This table contains SR color value and algorithm value mapping information.

XML structure

Please refer to the XML Structure of segment-routing/color-algo-mappings.

Table description

Item	Description
Feature name	segment-routing
Table name	color-algos

Item	Description
Table type	Multi-instance table
Row name	color-algo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color-name	Color Name.	Index	Unsigned integer. Value range: 0 to 4294967295	N/A.
algo-id	Prefix SID algorithm.	N/A	Unsigned integer. Value range: 128 to 255	N/A

Contents

segment-routing 1
segment-routing/bindings 1
XML structure 1
Table description 1
Columns 1
segment-routing/bindings/prefix-sid-mappings 1
XML structure 2
Table description 2
Columns 2
segment-routing/color-algo-mappings 2
XML structure 2
Table description 3
Columns 3
segment-routing/color-algo-mappings/color-algos 3
XML structure 3
Table description 3
Columns 4

segment-routing

segment-routing/bindings

This table contains SR binding information.

XML structure

```
<segment-routing>
  <bindings>
    <prefix-sid-mappings>
      <prefix-sid-mapping>
        <ip-address></ip-address>
        <mask-length></mask-length>
        <algorithm></algorithm>
        <start-sid></start-sid>
        <range></range>
        <attach-flag></attach-flag>
      </prefix-sid-mapping>
    </prefix-sid-mappings>
  </bindings>
</segment-routing>
```

Table description

Item	Description
Feature name	segment-routing
Table name	bindings
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-sid-mappings	Prefix SID mappings.	Sublist	For details of the subtable, refer to the attributes table.	N/A

segment-routing/bindings/prefix-sid-mappings

This table contains SR prefix SID mapping information.

XML structure

Please refer to the XML Structure of segment-routing/bindings.

Table description

Item	Description
Feature name	segment-routing
Table name	prefix-sid-mappings
Table type	Multi-instance table
Row name	prefix-sid-mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-address	IP address.	Index	String, dotted decimal notation.	Example: 10.1.1.0
mask-length	Mask length of IP address.	Index	Unsigned integer. Value range: 1 to 32.	N/A
algorithm	Prefix SID algorithm.	Index	Unsigned integer. Value range: 0.	Only 0 is supported in the current software version.
start-sid	Start value of SID index range.	N/A	Unsigned integer.	N/A
range	Number of allocated SIDs.	N/A	Unsigned integer.	N/A
attach-flag	The attach flag.	N/A	Boolean: • true—Specified prefixes represent local networks. • false—Specified prefixes do not represent local networks.	N/A

segment-routing/color-algo-mappings

This table contains color-algo-mapping information.

XML structure

```
<segment-routing>
  <color-algo-mappings>
    <color-algos>
      <color-algo>
        <color-name></color-name>
```

```
        <algo-id></algo-id>
      </color-algo>
    </color-algos>
  </color-algo-mappings>
</segment-routing>
```

Table description

Item	Description
Feature name	segment-routing
Table name	color-algo-mappings
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color-algos	Color value and algorithm value mapping.	Sublist	For details of the subtable, refer to the attributes table.	N/A

segment-routing/color-algo-mappings/color-algos

This table contains SR color value and algorithm value mapping information.

XML structure

Please refer to the XML Structure of segment-routing/color-algo-mappings.

Table description

Item	Description
Feature name	segment-routing
Table name	color-algos
Table type	Multi-instance table
Row name	color-algo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color-name	Color Name.	Index	Unsigned integer. Value range: 0 to 4294967295	N/A.
algo-id	Prefix SID algorithm.	N/A	Unsigned integer. Value range: 128 to 255	N/A

Contents

segment-routing 2
segment-routing/bindings/prefix-sid-mappings 2
segment-routing/color-algo-mappings/color-algos 2

segment-routing

segment-routing/bindings/prefix-sid-mappings

Message	Explanation
Invalid IP. IP 输入错误。	Invalid IP. IP 输入错误。
Host bits are not all 0's. 主机位需要为全0。	Host bits should be all 0's. 主机位需要为全0 。
Only 0 is supported by the Algorithm column currently. Algorithm 属性列现在只支持0值。	Only 0 is supported by the Algorithm column currently. Algorithm 属性列现在只支持0值。
The Start SID must be specified. 必须指定Start SID属性。	The Start SID must be specified. 必须指定起始的SID。
Only index column can be specified while delete. 删除时必须只指定索引列。	Only index column can be specified while delete. 要进行删除，必须只指定索引列。
Do not support the operation because device not customized the command. 该操作需要预先在设备上进行定制。	Do not support the operation because device not customized the command. 该操作需要预先在设备上进行定制。
The value of start-sid is invalid. The value must be in the range of %u to %u. start-sid的值非法，该值有效范围是%u - %u。	Value range is confirmed by product. 取值范围根据产品定制。
The value of range is invalid. The value must be in the range of %u to %u. range的值非法，该值有效范围是%u - %u。	Value range is confirmed by product. 取值范围根据产品定制。
Overlapping SID index detected. 配置的SID范围中存在被使用的SID。	Conflict with the SID existed. 与已存在的SID配置冲突
Overlapping prefix index detected. 存在被使用的前缀。	Conflict with the prefix existed. 与已存在的前缀配置冲突

segment-routing/color-algo-mappings/color-algos

Message	Explanation
Algo-id attribute column is required. 需要补齐Algo-id属性列。	Algo-id attribute column is required. 需要补齐Algo-id属性列。

Contents

SRVCHN 1
SRVCHN/Paths 1
XML structure 1
Table description 1
Columns 1
SRVCHN/IfMatchs 2
XML structure 2
Table description 2
Columns 3
SRVCHN/Funcs 3
XML structure 3
Table description 4
Columns 4

SRVCHN

SRVCHN/Paths

This table contains service chain information.

XML structure

```
<SRVCHN>
  <Paths>
    <Path>
      <PathID></PathID>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <NextHop></NextHop>
      <PrevHop></PrevHop>
    </Path>
  </Paths>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Choose the ACLNumber or ACLName column to specify an ACL to match locally generated packets. The two columns

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot be set together. Support for this column depends on the device model.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Choose the ACLNumber or ACLName column to specify an ACL to match locally generated packets. The two columns cannot be set together. Support for this column depends on the device model.
NextHop	IP address of the next service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0. Example: 1.1.1.1.
PrevHop	IP address of the previous service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0. Example: 1.1.1.1.

SRVCHN/IfMatchs

This table contains service chain policy information. Support for this table depends on the device model.

XML structure

```
<SRVCHN>
  <IfMatchs>
    <IfMatch>
      <PathID></PathID>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </IfMatch>
  </IfMatchs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN

Table name	IfMatchs
Table type	Multi-instance table
Row name	IfMatch
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	The specified service chain must exist before you configure this table.
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
ACLNumber	ACL number	N/A	Unsigned integer Value range:2000 to 3999	Choose the ACLNumber or ACLName column to specify an ACL to match received IP packets. The two columns cannot be set together.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Choose the ACLNumber or ACLName column to specify an ACL to match received IP packets. The two columns cannot be set together.

SRVCHN/Funcs

This table contains service chain service function information.

XML structure

```
<SRVCHN>
  <Funcs>
    <Func>
      <PathID></PathID>
      <FuncID></FuncID>
      <LBTeamName></LBTeamName>
      <SrvList></SrvList>
    </Func>
  </Funcs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Funcs
Table type	Multi-instance table
Row name	Func
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	The specified service chain must exist before you configure this table.
FuncID	Service node ID	Index	Unsigned integer. Value range: 1 to 255.	If the device does not support load sharing teams, the value for this column can only be 1.
LBTeamName	Load sharing team name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Support for this column depends on the device model.
SrvList	List of services	N/A	String, case-insensitive. Length: 1 to 255 characters.	Different service combinations are separated by spaces. The combinations are matched by the configuration order defined in the SrvList column for inter-device packets. For example: ACG DPI FW IPS IPsec LB NAT.

Contents

SRVCHN 1
SRVCHN/Paths 1
XML structure 1
Table description 1
Columns 1
SRVCHN/IfMatchs 2
XML structure 2
Table description 2
Columns 3
SRVCHN/Funcs 3
XML structure 3
Table description 4
Columns 4
SRVCHN/Specification 4
XML structure 4
Table description 5
Columns 5

SRVCHN

SRVCHN/Paths

This table contains service chain service path information.

XML structure

```
<SRVCHN>
  <Paths>
    <Path>
      <PathID></PathID>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <NextHop></NextHop>
      <PrevHop></PrevHop>
    </Path>
  </Paths>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Choose the ACLNumber or ACLName column to specify an ACL to match locally generated packets. The two columns cannot be set together.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Support for this column depends on the device model.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Choose the ACLNumber or ACLName column to specify an ACL to match locally generated packets. The two columns cannot be set together. Support for this column depends on the device model.
NextHop	IP address of the next service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1
PrevHop	IP address of the previous service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1

SRVCHN/IfMatchs

This table contains service chain policy information. Support for this table depends on the device model.

XML structure

```
<SRVCHN>
  <IfMatchs>
    <IfMatch>
      <PathID></PathID>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </IfMatch>
  </IfMatchs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	IfMatchs
Table type	Multi-instance table
Row name	IfMatch

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	The specified service chain must exist before you configure this table.
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
ACLNumber	ACL number	N/A	Unsigned integer Value range:2000 to 3999	Choose the ACLNumber or ACLName column to specify an ACL to match received IP packets. The two columns cannot be set together.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Choose the ACLNumber or ACLName column to specify an ACL to match received IP packets. The two columns cannot be set together.

SRVCHN/Funcs

This table contains service chain service function information.

XML structure

```
<SRVCHN>
  <Funcs>
    <Func>
      <PathID></PathID>
      <FuncID></FuncID>
      <LBTeamName></LBTeamName>
      <SrvList></SrvList>
    </Func>
  </Funcs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Funcs
Table type	Multi-instance table
Row name	Func
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID of the service chain	Index	Unsigned integer. Value range: 1 to 8388606.	The specified service chain must exist before you configure this table.
FuncID	Service node ID	Index	Unsigned integer. Value range: 1 to 255.	If the device does not support load sharing teams, the value for this column can only be 1.
LBTeamName	Load sharing team name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Support for this column depends on the device model.
SrvList	List of services	N/A	String, case-insensitive. Length: 1 to 255 characters.	Different service combinations are separated by spaces. The combinations are matched by the configuration order defined in the SrvList column for inter-device packets. For example: ACG DPI FW IPS IPsec LB NAT.

SRVCHN/Specification

This table contains service chain specifications.

XML structure

```
<SRVCHN>
  <Specification>
    <SupportLBGroup></SupportLBGroup>
  </Specification>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportLBGroup	Whether to support load sharing teams	N/A	Boolean: • true. • false.

Contents

SRVCHN 1
SRVCHN/Paths 1
SRVCHN/IfMatchs 1
SRVCHN/Funcs 2
SRVCHN/Specification 2

SRVCHN

SRVCHN/Paths

Message	Explanation
Acl name and acl number can't be set at the same time. acl name和acl number不能同时配置	Acl name and acl number can't be set at the same time, please modify configuration under guidance. acl name和acl number不能同时配置，请按照配置指导进行配置。
Invalid address IP地址无效	Invalid address, please modify configuration under guidance. IP地址无效，请按照配置指导进行配置。
This device doesn't support internal service-chain configurations. 当前设备不支持设备内业务链相关配置	This device doesn't support internal service-chain configurations, please modify configuration under guidance. 当前设备不支持设备内业务链相关配置，请按照配置指导进行配置。
This device doesn't support external service-chain configurations. 当前设备不支持设备间业务链相关配置	This device doesn't support external service-chain configurations, please modify configuration under guidance. 当前设备不支持设备间业务链相关配置，请按照配置指导进行配置。

SRVCHN/IfMatchs

Message	Explanation
Path does not exist. 目标Path未创建	Path does not exist, please modify configuration under guidance. 目标Path未创建，请按照配置指导进行配置。
Process srvchn is not started. 服务链进程尚未启动	Process srvchn is not started, please modify configuration under guidance. 服务链进程尚未启动，请按照配置指导进行配置。
Acl name and acl number can't be set at the same time. acl name和acl number不能同时配置	Acl name and acl number can't be set at the same time, please modify configuration under guidance. acl name和acl number不能同时配置，请按照配置指导进行配置。
This table doesn't support delete or remove column separately. 本表不支持单独删除列	This table doesn't support delete or remove column separately, please modify configuration under guidance. 本表不支持单独删除列，请按照配置指导进行配置。
Acl name or number is necessary here. 此处必须配置acl name或acl number	Acl name or number is necessary here, please modify configuration under guidance. 此处必须配置acl name或acl number，请按照配置指导进行

	配置。
The operation conflicts with some existing configurations. 当前配置与已有配置存在冲突	The operation conflicts with some existing configurations, please modify configuration under guidance. 当前配置与已有配置存在冲突，请按照配置指导进行配置。
This device doesn't support internal service-chain configurations. 当前设备不支持设备内业务链相关配置	This device doesn't support internal service-chain configurations, please modify configuration under guidance. 当前设备不支持设备内业务链相关配置，请按照配置指导进行配置。

SRVCHN/Funcs

Message	Explanation
Path does not exist. 目标Path未创建	Path does not exist, please modify configuration under guidance. 目标Path未创建，请按照配置指导进行配置。
A service appeared more than once. 某个业务重复出现	A service appeared more than once, please modify configuration under guidance. 某个业务重复出现，请按照配置指导进行配置。
Process srvchn is not started. 服务链进程尚未启动	Process srvchn is not started, please modify configuration under guidance. 服务链进程尚未启动，请按照配置指导进行配置。
This device does not support blade load balance team configurations. 当前设备不支持负载分担组配置	This device does not support blade load balance team configurations, please modify configuration under guidance. 当前设备不支持负载分担组配置，请按照配置指导进行配置。
FunctionID can only be 1 when the device does not support load balancing team configurations. 当前设备不支持负载分担组配置时，functionID只能为1	FunctionID can only be 1 when the device does not support load balancing team configurations, please modify configuration under guidance. 当前设备不支持负载分担组配置时，functionID只能为1，请按照配置指导进行配置。

SRVCHN/Specification

Message	Explanation

Contents

Session 1

Session/SessionStatistics 1
XML structure 1
Table description 1
Columns 1
Session/ClearAllSessionStatistics 2
XML structure 2
Table description 2
Columns 2
Session/ExportIpv4Table 2
XML structure 2
Table description 3
Columns 3
Session/ExportIpv6Table 4
XML structure 4
Table description 4
Columns 5
Session/ClearIpv4Sessions 5
XML structure 5
Table description 6
Columns 6
Session/ClearIpv6Sessions 10
XML structure 10
Table description 10
Columns 11
Session/ConnectionLimit/GlobalStatistics 14
XML structure 14
Table description 14
Columns 14
Session/ConnectionLimit/ClearAllGlobalStatistics 15
XML structure 15
Table description 15
Columns 15
Session/ConnectionLimit/InterfaceStatistics 15
XML structure 15
Table description 16
Columns 16
Session/ConnectionLimit/ClearAllInterfaceStatistics 17
XML structure 17
Table description 17
Columns 17
Session/ExportTableByWeb 17
XML structure 18
Table description 18
Columns 18

Session

Session/SessionStatistics

This table contains statistics of sessions.

XML structure

```
<Session>
  <SessionStatistics>
    <SessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Clear></Clear>
    </SessionStatistic>
  </SessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionStatistics
Table type	Multi-instance table
Row name	SessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ClearAllSessionStatistics

Clear all statistics of sessions.

XML structure

```
<Session>
  <ClearAllSessionStatistics>
    <Clear></Clear>
  </ClearAllSessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearAllSessionStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ExportIpv4Table

This table exports ipv4 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportIpv4Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <InitVRF></InitVRF>
      <IP4SourceIp></IP4SourceIp>
      <IP4SourcePort></IP4SourcePort>
      <IP4DestinationIp></IP4DestinationIp>
```

```
      <IP4DestinationPort></IP4DestinationPort>
      <ProtocolType></ProtocolType>
      <FileName></FileName>
    </Session_Export>
  </ExportIpv4Table>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv4Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
InitVRF	VRF of the initiator.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IP4SourceIp	Source Ip	Index	Ipv4Address.	N/A
IP4SourcePort	Source Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IP4DestinationIp	Destination Ip	Index	Ipv4 Address.	N/A
IP4DestinationPort	Destination Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ProtocolType	Transport layer protocol id of the packet from the initiator to the responder.	Index	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 7—RAWIP. • 8—ALL.	
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Session/ExportIpv6Table

This table exports ipv6 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportIpv6Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <InitVRF></InitVRF>
      <IP6SourceIp></IP6SourceIp>
      <IP6SourcePort></IP6SourcePort>
      <IP6DestinationIp></IP6DestinationIp>
      <IP6DestinationPort></IP6DestinationPort>
      <ProtocolType></ProtocolType>
      <FileName></FileName>
    </Session_Export>
  </ExportIpv6Table>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv6Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
InitVRF	VRF of the initiator.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IP6SourceIp	Source Ip	Index	Ipv6 Address.	N/A
IP6SourcePort	Source Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IP6DestinationIp	Destination Ip	Index	Ipv6 Address.	N/A
IP6DestinationPort	Destination Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ProtocolType	Transport layer protocol id of the packet from the initiator to the responder.	Index	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP. • 7—RAWIP. • 8—ALL.	N/A
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Session/ClearIpv4Sessions

Clear IPv4 sessions which meet the conditions.

XML structure

```
<Session>
  <ClearIpv4Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
```

```
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitDSLiteTunnelPeer></InitDSLiteTunnelPeer>
      <InitProtocol></InitProtocol>
      <InitEnProtocol></InitEnProtocol>
      <Clear></Clear>
      <StopTime></StopTime>
      <TimeRangeStart></TimeRangeStart>
      <TimeRangeEnd></TimeRangeEnd>
      <Application></Application>
      <Interface></Interface>
      <SrcZone></SrcZone>
      <DstZone></DstZone>
      <EnState></EnState>
      <RuleName></RuleName>
      <SessionDir></SessionDir>
    </Session>
  </ClearIpv4Sessions>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearIpv4Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Moudle	Type of the module which created the session.	N/A	Enumeration: • 0—NAT. • 1—CONNECTION-LIMIT • 2—LB. • 3—ASPF. • 4—LOG. • **5**—ALG • 6—DS-Lite • 7—TCP MSS • 8—Application of statistical • 9—Inter-zone strategy • 10—WAAS • 11—TCP serial number to check • 12—AFT • 13—DIM Engine processing • 14—TCP Engine restructuring • 15—Traffic log	N/A
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: • 0—VRF instance name. • 1—VLAN ID. • 2—Inline ID.	N/A
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	N/A
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	N/A
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the initiator. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	Hexadecimal string, colon-separated.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP • 2—ICMP • 3—ICMPv6. • 4—UDP-Lite • 5—SCTP • 6—DCCP • 7—RAWIP	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A
StopTime	The time of stopping a specified session's flow.	N/A	Unsigned integer. Value range: 5 to 1000000 seconds.	N/A
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Application	Application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Interface	Interface name.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
SrcZone	Source security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstZone	Destination security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 16—ICMP_REQUEST. • 17—ICMP_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECD. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	N/A
RuleName	Security policy rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder.	N/A

Session/ClearIpv6Sessions

Clear IPv6 sessions which meet the conditions.

XML structure

```
<Session>
  <ClearIpv6Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitProtocol></InitProtocol>
      <InitEnProtocol></InitEnProtocol>
      <Clear></Clear>
      <StopTime></StopTime>
      <TimeRangeStart></TimeRangeStart>
      <TimeRangeEnd></TimeRangeEnd>
      <Application></Application>
      <Interface></Interface>
      <SrcZone></SrcZone>
      <DstZone></DstZone>
      <EnState></EnState>
      <RuleName></RuleName>
      <SessionDir></SessionDir>
    </Session>
  </ClearIpv6Sessions>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearIpv6Sessions
Table type	Multi-instance table
Row name	Session

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Moudle	Type of the module which created the session.	N/A	Enumeration: • 0—NAT. • 1—CONNECTION-LIMIT • 2—LB. • 3—ASPF. • 4—LOG. • **5**—ALG • 6—DS-Lite • 7—TCP MSS • 8—Application of statistical • 9—Inter-zone strategy • 10—WAAS • 11—TCP serial number to check • 12—AFT • 13—DIM Engine processing • 14—TCP Engine restructuring 15—Traffic log	N/A
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: • 0—VRF instance name. • 1—VLAN ID. • 2—Inline ID.	N/A
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is

Column name	Column description	Column type	Data type and restrictions	Remarks
				VRF instance name, the value for InitVRF is the VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	N/A
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitDestination Ip	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	N/A
InitDestination Port	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP • 2—ICMP • 3—ICMPv6. 4—UDP-Lite • 5—SCTP • 6—DCCP • 7—RAWIP	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A
StopTime	The time of stopping a specified session's flow.	N/A	Unsigned integer. Value range: 5 to 1000000 seconds.	N/A
TimeRangeSt art	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeRangeEn d	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Application	Application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Interface	Interface name.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Source security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstZone	Destination security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 18—ICMPV6_REQUEST. • 19—ICMPV6_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECD. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	N/A
RuleName	Security policy name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder.	N/A

Session/ConnectionLimit/GlobalStatistics

This table contains connection limit global statistics.

XML structure

```
<Session>
  <ConnectionLimit>
    <GlobalStatistics>
      <GlobalStatistic>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Clear></Clear>
      </GlobalStatistic>
    </GlobalStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	GlobalStatistics
Table type	Multi-instance table
Row name	GlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/ClearAllGlobalStatistics

Clear all connection limit global statistics.

XML structure

```
<Session>
  <ConnectionLimit>
    <ClearAllGlobalStatistics>
      <Clear></Clear>
    </ClearAllGlobalStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearAllGlobalStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/InterfaceStatistics

This table contains connection limit statistics on interfaces.

XML structure

```
<Session>
```

```
  <ConnectionLimit>
    <InterfaceStatistics>
      <InterfaceStatistic>
        <IfIndex></IfIndex>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Clear></Clear>
      </InterfaceStatistic>
    </InterfaceStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/ClearAllInterfaceStatistics

Clear all connection limit statistics on an interface.

XML structure

```
<Session>
  <ConnectionLimit>
    <ClearAllInterfaceStatistics>
      <InterfaceStatistic>
        <IfIndex></IfIndex>
        <Clear></Clear>
      </InterfaceStatistic>
    </ClearAllInterfaceStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearAllInterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ExportTableByWeb

This table exports ipv4/6 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportTableByWeb>
    <Session_Export>
      <Type></Type>
      <FileName></FileName>
    </Session_Export>
  </ExportTableByWeb>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportTableByWeb
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Session type.	N/A	Unsigned integer. Enumeration: • 0—IPv4 Session. • 1—IPv6 Session.	N/A
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Contents

Session 1

Session/Ipv4Persistent 1
XML structure 1
Table description 1
Columns 1
Session/Ipv6Persistent 1
XML structures 2
Table description 2
Columns 2
Session/Ipv4Persistence 2
XML structure 2
Table description 3
Columns 3
Session/Ipv6Persistence 3
XML structures 3
Table description 3
Columns 4
Session/L4StateAgingTime 4
XML structure 4
Table description 4
Columns 5
Session/AppAgingTime 6
XML structure 6
Table description 6
Columns 7
Session/ApplicationAgingTime 8
XML structure 8
Table description 8
Columns 8
Session/LogThreshold 10
XML structure 10
Table description 10
Columns 10
Session/Ipv4LogOnInterfaces 11
XML structure 11
Table description 11
Columns 11
Session/Ipv6LogOnInterfaces 12
XML structure 12
Table description 12
Columns 13
Session/HotBackup 13
XML structure 13
Table description 13
Columns 14
Session/ProtocolHotBackup 14
XML structure 14
Table description 14
Columns 15
Session/TopStatistics/Switch 15
XML structure 15
Table description 15
Columns 15
Session/DenySessionTopStat/Switch 16
XML structure 16
Table description 16
Columns 16

Session/TrafficLogFlowBegin 16
XML structure 16
Table description 17
Columns 17
Session/TrafficLogThreshold 17
XML structure 17
Table description 17
Columns 18
Session/Ipv4LogOnInterZones 18
XML structure 18
Table description 19
Columns 19
Session/Ipv6LogOnInterZones 19
XML structure 19
Table description 20
Columns 20
Session/ConnectionLimit/Ipv4Policies 20
XML structure 20
Table description 21
Columns 21
Session/ConnectionLimit/Ipv6Policies 21
XML structure 21
Table description 22
Columns 22
Session/ConnectionLimit/Ipv4LimitRules 22
XML structure 22
Table description 23
Columns 23
Session/ConnectionLimit/Ipv6LimitRules 25
XML structure 25
Table description 25
Columns 26
Session/ConnectionLimit/Ipv4PolicyAppliedGlobally 27
XML structure 27
Table description 27
Columns 28
Session/ConnectionLimit/Ipv6PolicyAppliedGlobally 28
XML structure 28
Table description 28
Columns 29
Session/ConnectionLimit/Ipv4PolicyOnInterfaces 29
XML structure 29
Table description 29
Columns 30
Session/ConnectionLimit/Ipv6PolicyOnInterfaces 30
XML structure 30
Table description 30
Columns 31
Session/StatisticsSwitch 31
XML structure 31
Table description 31
Columns 31
Session/SessionLogFlowBegin 32
XML structure 32
Table description 32
Columns 32
Session/SessionLogFlowEnd 32
XML structure 32
Table description 33
Columns 33
Session/DenySession 33
XML structure 33

Table description 33
Columns 34
Session/ContextLimitNumRate 34
XML structure 34
Table description 34
Columns 35
Session/LoadBalance 35
XML structure 35
Table description 35
Columns 36
SESSION/IPv4topCountEnable 36
XML structure 36
Table description 36
Columns 37
SESSION/IPv6topCountEnable 37
XML structure 37
Table description 37
Columns 37
Session/IPv4TopCountPolicy 37
XML structure 38
Table description 38
Columns 38
Session/IPv6TopCountPolicy 39
XML structure 39
Table description 39
Columns 39

Session

Session/Ipv4Persistent

This table contains IPv4 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv4Persistence table for IPv4 persistent configuration.

XML structure

```
<Session>
  <Ipv4Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv4Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistent
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when *ACLNumber* is also configured.

Session/Ipv6Persistent

This table contains IPv6 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv6Persistence table for IPv6 persistent configuration.

XML structures

```
<Session>
  <Ipv6Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv6Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistent
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when *ACLNumber* is also configured.

Session/Ipv4Persistence

This table contains IPv4 persistent sessions' information.

XML structure

```
<Session>
  <Ipv4Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv4Persistence>
```

```
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when *ACLNumber* is configured.

Session/Ipv6Persistence

This table contains IPv6 persistent sessions' information.

XML structures

```
<Session>
  <Ipv6Persistence>
    <Persistent>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistent>
  </Ipv6Persistence>
</Session>
```

Table description

Item	Description
Feature name	Session

Table name	Ipv6Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when *ACLNumber* is configured.

Session/L4StateAgingTime

This table contains the aging time for the sessions in transport layer protocol states.

XML structure

```
<Session>
  <L4StateAgingTime>
    <AgingTime>
      <StateID></StateID>
      <TimeValue></TimeValue>
    </AgingTime>
  </L4StateAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	L4StateAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StateID	Transport layer protocol state ID.	Index	Unsigned integer. Value range: 0 to 20. • **0—SYN-SENT and SYN-RCV (TCP)** • **1—ESTABLISHED (TCP).** • **2—FIN-WAIT (TCP).** • **3—UDP-OPEN.** • **4—UDP-READY.** • **5—ICMP -REQUEST.** • **6—ICMP -REPLY.** • **7—RAWIP-OPEN.** • **8—RAWIP-READY.** • **9—UDPLITE-OPNE.** • **10—UDPLITE-READY.** • **11—DCCP-REQUEST.** • **12—DCCP-EST.** • **13—DCCP-CLOSEREQ.** • **14—SCTP-INIT.** • **15—SCTP-EST.** • **16—SCTP-SHUTDOWN.** • **17—ICMPV6-REQUEST.** • **18—ICMPV6-REPLAY.** • **19—TCP-TIME-WAIT.** • **20—TCP-CLOSE.**	The aging time can be configured if is the protocol ID is 0 to 8, 19, or 20. The aging time for other protocols uses the default value.
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range: • **0-8—17-18—SYN-SENT or SYN-RCV (TCP)-RAWIP-READY —ICMPV6-REQUEST -ICMPV6-REPLAY: 1 to 100000 seconds.** • **19-20—TCP-TIME-WAIT - TCP-CLOSE: 0 to 100000 seconds** Default aging time for sessions in different protocol states is as follows: • **0—SYN-SENT or SYN-RCV (TCP) : 30** • **1—ESTABLISHED (TCP) : 3600** • **2—FIN-WAIT (TCP): 30** • **3—UDP -OPEN : 30** • **4—UDP -READY : 60** • **5—ICMP -REQUEST : 60** • **6—ICMP -REPLY : 30** • **7—RAWIP-OPEN : 30**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **8—RAWIP-READY : 60** • **9—UDPLITE-OPNE : 30** • **10—UDPLITE-READY : 60** • **11—DCCP-REQUEST : 30** • **12—DCCP-EST : 3600** • **13—DCCP-CLOSEREQ : 30** • **14—SCTP-INIT : 30** • **15—SCTP-EST : 3600** • **16—SCTP-SHUTDOWN: 30** • **17—ICMPV6-REQUEST :60** • **18—ICMPV6-REPLAY : 30** • **19—TCP-TIME-WAIT :2** • **20—TCP-CLOSE: 2**	

Session/AppAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```
<Session>
  <AppAgingTime>
    <AgingTime>
      <AppID></AppID>
      <TimeValue></TimeValue>
    </AgingTime>
  </AppAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	AppAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Application layer protocol ID.	Index	Unsigned integer. Value range: 0 to 16. • **0—DNS.** • **1—FTP.** • **2—GTP.** • **3—H.225.** • **4—H.245.** • **5—RAS.** • **6—RTSP.** • **7—SIP.** • **8—TFTP.** • **9—ILS.** • **10—MGCP.** • **11—NBT.** • **12—PPTP.** • **13—RSH.** • **14—SCCP.** • **15—SQLNET.** • **16—XDMCP.**	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: • **0—DNS: 1 to 100000 seconds.** • **1-16—FTP-XDMCP: 5 to 100000 seconds** Default aging time: • **0—DNS: 1.** • **1—FTP: 3600.** • **2—GTP: 60.** • **3—H.225: 3600.** • **4—H.245: 3600.** • **5—RAS: 300.** • **6—RTSP: 3600.** • **7—SIP: 300.** • **8—TFTP: 60.** • **9—ILS: 3600.** • **10—MGCP: 60.** • **11—NBT: 3600.** • **12—PPTP: 3600.** • **13—RSH: 60.** • **14—SCCP: 3600.** • **15—SQLNET: 600.** • **16—XDMCP: 3600.**	N/A

Session/ApplicationAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```
<Session>
  <ApplicationAgingTime>
    <AgingTime>
      <AppName></AppName>
      <TimeValue></TimeValue>
    </AgingTime>
  </ApplicationAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ApplicationAgingTime
Table type	Multi-instance table
Row name	ApplicationAgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name.	Index	String, case-insensitive. Length: 1 to 63 characters.	This value can be pre-defined or user-defined application layer protocol name. Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment.
TimeValue	Aging time (seconds).	N/A	• Unsigned integer. • Value range and default aging time for sessions of application layer protocols	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			are as follows: • Value range: • 1 to 100000 seconds. • Default aging time of pre-defined applications: • DNS: 1. • FTP: 3600. • GTP-CONTROL:60. • GTP-USER:60. • GPRSDATA:60. • GPRSSIG:60. • H225: 3600. • H245: 3600. • RAS: 300. • RTSP: 3600. • SIP: 300. • TFTP: 60. • ILS: 3600. • MGCP-CALLAGENT:60. • MGCP-GATEWAY:60. • PPTP: 3600. • RSH: 60. • SCCP: 3600. • SQLNET: 600. • XDMCP: 3600. • BOOTPC:120. • BOOTPS:120. • FTPDATA:240. • HTTPS:600. • L2TP:120. • NETBIOS-DGM:3600 • NETBIOS-NS:3600 • NETBIOS-SSN:3600. • NTP:120. • QQ:120. • RIP:120. • SNMP:120. • SNMPTRAP:120. • STUN:600. • SYSLOG:120. • TACACSDS:120. • WHO:120. • Default aging time of other pre-defined and user-defined applications: 1200s.Default aging time of other pre-defined and user-defined applications: 1200s.	

Session/LogThreshold

This table contains threshold for session logging.

XML structure

```
<Session>
  <LogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </LogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	LogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based session logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based session logging threshold (minutes).	Data structure.	Members include: • Type. • Threshold.	
Type	Type of traffic-based session logging.	N/A	Enumeration: • 0—Packet-based threshold for traffic-based logging. • 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based	N/A	Unsigned integer.	If type is 0, the unit is mega-packets.

Column name	Column description	Column type	Data type and restrictions	Remarks
	logging.		Value range: 1 to 100000.	If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterfaces

This table contains interfaces on which IPv4 session logging is enabled.

XML structure

```
<Session>
  <Ipv4LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv4LogOnInterfaces>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface. This column can be null.

Session/Ipv6LogOnInterfaces

This table contains interfaces to which IPv6 session logging is enabled.

XML structure

```
<Session>
  <Ipv6LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv6LogOnInterfaces>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ACLNumber	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv6 sessions on the interface. This column can be null.

Session/HotBackup

This table contains session hot backuping configurations.

XML structure

```
<Session>
  <HotBackup>
    <EnableHotBackup></EnableHotBackup>
  </HotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	HotBackup
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableHotBackup	Whether enable hot backuping for session tables.	N/A	Boolean: • true • false (default).	N/A

Session/ProtocolHotBackup

This table contains protocols which need hot backuping.

XML structure

```
<Session>
  <ProtocolHotBackup>
    <ProtocolInfo>
      <ProtocolID></ProtocolID>
      <EnableBackup></EnableBackup>
    </ProtocolInfo>
  </ProtocolHotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ProtocolHotBackup
Table type	Multi-instance table
Row name	ProtocolInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	ProtocolID.	Index	Enumeration: • 1—DNS. • 2—HTTP.	Default, sessions of these protocols are not synchronized.
EnableBackup	Whether enable protocol backup.	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/TopStatistics/Switch

This table contains session top statistics configuration of switch.

XML structure

```
<Session>
  <TopStatistics>
    <Switch>
      <Enable></Enable>
    </Switch>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session top statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/DenySessionTopStat/Switch

This table contains the top packet dropping session statistics configuration.

XML structure

```
<Session>
  <DenySessionTopStat>
    <Switch>
      <Enable></Enable>
    </Switch>
  </DenySessionTopStat>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable the top packet dropping session statistics.	N/A	Boolean: • true—Enable • false—Disable (default).	N/A

Session/TrafficLogFlowBegin

This table contains traffic log flow begin configuration.

XML structure

```
<Session>
  <TrafficLogFlowBegin>
    <OutputCreateLog></OutputCreateLog>
  </TrafficLogFlowBegin>
```

```
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputCreateLog	Whether enable traffic logging.	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/TrafficLogThreshold

This table contains threshold for traffic log threshold logging.

XML structure

```
<Session>
  <TrafficLogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </TrafficLogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogThreshold
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based traffic logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based traffic logging threshold (minutes).	Data structure.	Members include: • Type. • Threshold.	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: • 0—Packet-based threshold for traffic-based logging. • 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterZones

This table contains session traffic log enable ipv4 configuration.

XML structure

```
<Session>
  <Ipv4LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv4LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
EnableLog	Logging enable	N/A	Boolean: • true—YES • false—NO	N/A
Mode	Whether by-server	N/A	Boolean: • true—YES • false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. • Value range: 2000 to 3999.	N/A

Session/Ipv6LogOnInterZones

This table contains session traffic log enable ipv6 configuration.

XML structure

```
<Session>
  <Ipv6LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
```

```
    </InterZone>
  </Ipv6LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
EnableLog	Logging enable	N/A	Boolean: • true—YES • false—NO	N/A
Mode	Whether by-server	N/A	Boolean: • true—YES • false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. • Value range: 2000 to 3999.	N/A

Session/ConnectionLimit/Ipv4Policies

This table contains IPv4 connection limit policy configurations..

XML structure

```
<Session>
  <ConnectionLimit>
```

```
    <Ipv4Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv4Policies>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv4 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6Policies

This table contains IPv6 connection limit policy configurations..

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv6Policies>
```

```
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv6 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4LimitRules

This table contains IPv4 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
```

```
        <PerService></PerService>
      </LimitType>
      <Description></Description>
      <PermitNew></PermitNew>
    </Rule>
  </Ipv4LimitRules>
</ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv4 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either *ACLNumber* or *ACLName* is required, and you cannot configure both.
ACLName	IPv4 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
`ClmRate`	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: • PerSource. • PerDestination. • PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: • true—YES • false—NO(default).	N/A
Description	IPv4 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Unsigned integer. Value range: 0 to 2 • 0—Deny • 1—Permit • 2—Blocklist •	N/A

Session/ConnectionLimit/Ipv6LimitRules

This table contains IPv6 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
        <PermitNew></PermitNew>
      </Rule>
    </Ipv6LimitRules>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv6 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
ACLName	IPv6 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
`ClmRate`	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: • PerSource. • PerDestination. • PerService.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PerSource	Limits connections by source IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: • true—YES • false—NO(default).	N/A
Description	IPv6 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Unsigned integer. Value range: 0 to 2 • 0—Deny • 1—Permit • 2—Blocklist •	N/A

Session/ConnectionLimit/Ipv4PolicyAppliedGlobally

This table contains IPv4 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv4PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyAppliedGlobally

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyAppliedGlobally

This table contains IPv6 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv6PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4PolicyOnInterfaces

This table contains interfaces to which IPv4 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv4PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyOnInterfaces

This table contains interfaces to which IPv6 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv6PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/StatisticsSwitch

This table contains session statistics configuration of switch.

XML structure

```
<Session>
  <StatisticsSwitch>
    <Enable></Enable>
  </StatisticsSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	StatisticsSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/SessionLogFlowBegin

This table contains session log flow begin configuration.

XML structure

```
<Session>
  <SessionLogFlowBegin>
    <SessionCreateLog></SessionCreateLog>
  </SessionLogFlowBegin>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionCreateLog	Whether enable session create logging.	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/SessionLogFlowEnd

This table contains session log flow end configuration.

XML structure

```
<Session>
  <SessionLogFlowEnd>
    <SessionDeleteLog></SessionDeleteLog>
  </SessionLogFlowEnd>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionLogFlowEnd
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDeleteLog	Whether enable session deletelogging.	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/DenySession

This table contains packet dropping session feature configuration.

XML structure

```
<Session>
  <DenySession>
    <Aspf></Aspf>
    <ConnLimit></ConnLimit>
    <TimeValue></TimeValue>
    <RatioValue></RatioValue>
    <IsManageMDC></IsManageMDC>
  </DenySession>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	DenySession
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Aspf	Whether enable packet dropping session feature in aspf module.	N/A	Boolean: • true—Enable • false—Disable(default).	N/A
ConnLimit	Whether enable packet dropping session feature in connection limit module.	N/A	Boolean: • true—Enable • false—Disable(default).	N/A
TimeValue	Deny session aging time (seconds)	N/A	Unsigned integer. Value range: 1 to 3.	N/A
RatioValue	The ratio of deny sessions to all sessions (permillage)	N/A	Unsigned integer. Value range: 1 to 20	N/A
IsManageMDC	Whether is manage context.	N/A	Boolean: • **true**—YES(default). • **false**—NO	N/A

Session/ContextLimitNumRate

This table is used to limit the number of concurrnt sessions of context

XML structure

```
<Session>
  <ContextLimitNumRate>
      <ContextID></ContextID>
      <MaxNumber></MaxNumber>
      <MaxRate></MaxRate>
  </ContextLimitNumRate>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ContextLimitNumRate
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	The ID of context.	Index	Unsigned integer Value range: 1~64	N/A
MaxNumber	The Maxnumber of concurrnt sessions of context.	N/A	Unsigned integer Value range: 1~4294967295.	N/A
MaxRate	The Maxrate of concurrnt sessions of context.	N/A	Unsigned integer Value range: 1~4294967295.	N/A

Session/LoadBalance

This table contains dual-active configuration.

XML structure

```
<Session>
  <LoadBalance>
    <LoadBalanceEnable></LoadBalanceEnable>
    <HashMode></HashMode>
    <UDPEnable></UDPEnable>
    <StateMachine></StateMachine>
  </LoadBalance>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	LoadBalance
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadBalanceEnable	Whether enable session dual-active mode.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
HashMode	Set the session create mode.	N/A	Enumeration: • **0**—local. • **1**—hash.	When asymmetric-path traffic exists in a hot backup system operating in session active/standby mode, set the mode of session state machine to loose to avoid abnormal traffic loss.
UDPEnable	Whether enable transparent transmission for UDP pachets.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StateMachine	Set the mode of session state machine to compact	N/A	Enumeration: • **0**—compact. **1**—loose	N/A

SESSION/IPv4topCountEnable

This table contains top IPv4 session statistics.

XML structure

```
<Session>
  <IPv4TopCountSwitch>
    <EnableTop></EnableTop>
  </IPv4TopCountSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv4TopCountSwitch
Table type	Single-instance table
Row name	
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableTop	Whether to enable top IPv4 session statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

SESSION/IPv6topCountEnable

This table contains top IPv6 session statistics.

XML structure

```
<Session>
  <IPv6TopCountSwitch>
    <EnableTop></EnableTop>
  </IPv6TopCountSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv6TopCountSwitch
Table type	Single-instance table
Row name	
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableTop	Whether to enable top IPv6 session statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/IPv4TopCountPolicy

This table contains information about the top IPv4 session statistics policy.

XML structure

```
<Session>
  <IPv4TopCountPolicy>
    <SourceSubnetIP></SourceSubnetIP>
    <SourceSubnetMask></SourceSubnetMask>
    <DestinationSubnetIP></DestinationSubnetIP>
    <DestinationSubnetMask></DestinationSubnetMask>
    <SaveMode></SaveMode>
  </IPv4TopCountPolicy>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv4TopCountPolicy
Table type	Singel-instance table
Row name	
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceSubnetIP	Source IPv4 subnet address	N/A	IPv4: String, dotted decimal notation.	N/A
SourceSubnetMask	Mask length of the subnet	N/A	Unsigned integer. Value range: 16 to 32.	N/A
DestinationSubnetIP	Destination IPv4 subnet address	N/A	IPv4: String, dotted decimal notation.	N/A
DestinationSubnetMask	Mask length of the subnet	N/A	Unsigned integer. Value range: 16 to 32.	N/A
SaveMode	Save mode	N/A	Unsigned integer. Enumeration: 0— disk	N/A

Session/IPv6TopCountPolicy

This table contains information about the top IPv6 session statistics policy.

XML structure

```
<Session>
  <IPv6TopCountPolicy>
    <SourceSubnetIPv6></SourceSubnetIPv6>
   <SourceSubnetPrefixLen></SourceSubnetPrefixLen>
    <DestinationSubnetIPv6></DestinationSubnetIPv6>
    <DestinationSubnetPrefixLen></DestinationSubnetPrefixLen>
    <SaveMode></SaveMode>
  </IPv6TopCountPolicy>
  </Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv6TopCountPolicy
Table type	Singel-instance table
Row name	
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceSubnetIPv6	Source IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
SourceSubnetPrefixLen	PrefixLen length of the global subnet	N/A	Unsigned integer. Value range: 96 to 128.	N/A
DestinationSubnetIPv6	Destination IPv6 address subnet	N/A	Hexadecimal string, colon-separated.	N/A
DestinationSubnetPrefixLen	PrefixLen length of the global subnet	N/A	Unsigned integer. Value range: 96 to 128.	N/A
SaveMode	Save mode	N/A	Unsigned integer. Enumeration: 0— disk	N/A

Contents

Session 1

Session/Ipv4Persistent 1
XML structure 1
Table description 1
Columns 1
Session/Ipv6Persistent 1
XML structures 2
Table description 2
Columns 2
Session/Ipv4Persistence 2
XML structure 2
Table description 3
Columns 3
Session/Ipv6Persistence 3
XML structures 3
Table description 3
Columns 4
Session/L4StateAgingTime 4
XML structure 4
Table description 4
Columns 5
Session/AppAgingTime 6
XML structure 6
Table description 6
Columns 7
Session/ApplicationAgingTime 8
XML structure 8
Table description 8
Columns 8
Session/LogThreshold 10
XML structure 10
Table description 10
Columns 10
Session/Ipv4LogOnInterfaces 11
XML structure 11
Table description 11
Columns 11
Session/Ipv6LogOnInterfaces 12
XML structure 12
Table description 12
Columns 13
Session/HotBackup 13
XML structure 13
Table description 13
Columns 14
Session/ProtocolHotBackup 14
XML structure 14
Table description 14
Columns 15
Session/SessionStatistics 15
XML structure 15
Table description 17
Columns 17
Session/TopStatistics/Switch 22
XML structure 22
Table description 22
Columns 22

Session/TopStatistics/CountingByAddress ····· 22
XML structure ····· 22
Table description ····· 23
Columns ····· 23
Session/TopStatistics/SampleTime ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 25
Session/HistoryStatistics ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
Session/TrafficLogFlowBegin ····· 26
XML structure ····· 26
Table description ····· 27
Columns ····· 27
Session/TrafficLogThreshold ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
Session/Ipv4LogOnInterZones ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 29
Session/Ipv6LogOnInterZones ····· 29
XML structure ····· 29
Table description ····· 30
Columns ····· 30
Session/Ipv4Sessions ····· 30
XML structure ····· 30
Table description ····· 32
Columns ····· 32
Session/Ipv6Sessions ····· 38
XML structure ····· 38
Table description ····· 39
Columns ····· 39
Session/ConnectionLimit/Ipv4Policies ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
Session/ConnectionLimit/Ipv6Policies ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 46
Session/ConnectionLimit/Ipv4LimitRules ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 48
Session/ConnectionLimit/Ipv6LimitRules ····· 49
XML structure ····· 49
Table description ····· 50
Columns ····· 50
Session/ConnectionLimit/Ipv4PolicyAppliedGlobally ····· 52
XML structure ····· 52
Table description ····· 52
Columns ····· 52
Session/ConnectionLimit/Ipv6PolicyAppliedGlobally ····· 52
XML structure ····· 52
Table description ····· 53
Columns ····· 53
Session/ConnectionLimit/Ipv4PolicyOnInterfaces ····· 53
XML structure ····· 53

Table description 53
Columns 54
Session/ConnectionLimit/Ipv6PolicyOnInterfaces 54
XML structure 54
Table description 54
Columns 55
Session/ConnectionLimit/GlobalStatistics 55
XML structure 55
Table description 55
Columns 56
Session/ConnectionLimit/InterfaceStatistics 56
XML structure 56
Table description 57
Columns 57
Session/StatisticsSwitch 57
XML structure 57
Table description 58
Columns 58
Session/SessionLogFlowBegin 58
XML structure 58
Table description 58
Columns 59
Session/SessionLogFlowEnd 59
XML structure 59
Table description 59
Columns 59
Session/DenySession 59
XML structure 59
Table description 60
Columns 60
Session/DenySessionTopStat/Switch 60
XML structure 61
Table description 61
Columns 61
Session/DenySessionTopStat/CountByAddress 61
XML structure 61
Table description 62
Columns 62
Session/DenySessionTopStat/SampleTime 63
XML structure 63
Table description 63
Columns 64
Session/DenySessionHistoryStat 64
XML structure 64
Table description 64
Columns 65
Session/DenyStatisticsSummary 65
XML structure 65
Table description 66
Columns 66
Session/DenySessionStatistics 68
XML structure 68
Table description 70
Columns 70
Session/SessionStatistics 74
XML structure 74
Table description 76
Columns 76
Session/ContextLimitNumRate 81
XML structure 81
Table description 81
Columns 81

Session/ExportIpv4Table ····· 81
XML structure ····· 81
Table description ····· 82
Columns ····· 82
Session/ExportIpv6Table ····· 82
XML structure ····· 82
Table description ····· 83
Columns ····· 83
Session/LoadBalance ····· 83
XML structure ····· 83
Table description ····· 83
Columns ····· 84
Session/ExportTableByWeb ····· 84
XML structure ····· 84
Table description ····· 85
Columns ····· 85
SESSION/IPv4topCountEnable ····· 85
XML structure ····· 85
Table description ····· 85
Columns ····· 86
SESSION/IPv6topCountEnable ····· 86
XML structure ····· 86
Table description ····· 86
Columns ····· 86
Session/IPv4TopCountPolicy ····· 87
XML structure ····· 87
Table description ····· 87
Columns ····· 87
Session/IPv6TopCountPolicy ····· 88
XML structure ····· 88
Table description ····· 88
Columns ····· 88

Session

Session/Ipv4Persistent

This table contains IPv4 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv4Persistence table for IPv4 persistent configuration.

XML structure

```
<Session>
  <Ipv4Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv4Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when *ACLNumber* is also configured.

Session/Ipv6Persistent

This table contains IPv6 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv6Persistence table for IPv6 persistent configuration.

XML structures

```
<Session>
  <Ipv6Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv6Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when *ACLNumber* is also configured.

Session/Ipv4Persistence

This table contains IPv4 persistent sessions' information.

XML structure

```
<Session>
  <Ipv4Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv4Persistence>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions, in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when *ACLNumber* is configured.

Session/Ipv6Persistence

This table contains IPv6 persistent sessions' information.

XML structures

```
<Session>
  <Ipv6Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv6Persistence>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistence
Table type	Multi-instance table

Row name	Persistence
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions, in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when *ACLNumber* is configured.

Session/L4StateAgingTime

This table contains the aging time for the sessions in transport layer protocol states.

XML structure

```
<Session>
  <L4StateAgingTime>
    <AgingTime>
      <StateID></StateID>
      <StateName></StateName>
      <TimeValue></TimeValue>
    </AgingTime>
  </L4StateAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	L4StateAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StateID	Transport layer protocol state ID.	Index	Unsigned integer. Value range: 0 to 20. • **0—SYN-SENT and SYN-RCV (TCP)** • **1—ESTABLISHED (TCP).** • **2—FIN-WAIT (TCP).** • **3—UDP-OPEN.** • **4—UDP-READY.** • **5—ICMP -REQUEST.** • **6—ICMP -REPLY.** • **7—RAWIP-OPEN.** • **8—RAWIP-READY.** • **9—UDPLITE-OPNE.** • **10—UDPLITE-READY.** • **11—DCCP-REQUEST.** • **12—DCCP-EST.** • **13—DCCP-CLOSEREQ.** • **14—SCTP-INIT.** • **15—SCTP-EST.** • **16—SCTP-SHUTDOWN.** • **17—ICMPV6-REQUEST.** • **18—ICMPV6-REPLAY.** • **19—TCP-TIME-WAIT.** • **20—TCP-CLOSE.**	The aging time can be configured if is the protocol ID is 0 to 8, 19, or 20. The aging time for other protocols uses the default value.
StateName	Transport layer protocol state name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range: • **0-8—17-18—SYN-SENT or SYN-RCV (TCP)-RAWIP-READY —ICMPV6-REQUEST -ICMPV6-REPLAY: 1 to 100000 seconds.** • **19-20—TCP-TIME-WAIT - TCP-CLOSE: 0 to 100000 seconds** Default aging time for sessions in different protocol states is as follows: • **0—SYN-SENT or SYN-RCV (TCP) : 30** • **1—ESTABLISHED (TCP) : 3600** • **2—FIN-WAIT (TCP): 30** • **3—UDP -OPEN : 30** • **4—UDP -READY : 60**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **5—ICMP -REQUEST : 60** • **6—ICMP -REPLY : 30** • **7—RAWIP-OPEN : 30** • **8—RAWIP-READY : 60** • **9—UDPLITE-OPNE : 30** • **10—UDPLITE-READY : 60** • **11—DCCP-REQUEST : 30** • **12—DCCP-EST : 3600** • **13—DCCP-CLOSEREQ : 30** • **14—SCTP-INIT : 30** • **15—SCTP-EST : 3600** • **16—SCTP-SHUTDOWN: 30** • **17—ICMPV6-REQUEST :60** • **18—ICMPV6-REPLAY : 30** • **19—TCP-TIME-WAIT :2** • **20—TCP-CLOSE : 2**	

Session/AppAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```
<Session>
  <AppAgingTime>
    <AgingTime>
      <AppID></AppID>
      <AppName></AppName>
      <TimeValue></TimeValue>
    </AgingTime>
  </AppAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	AppAgingTime
Table type	Multi-instance table

Row name	AgingTime
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Application layer protocol ID.	Index	Unsigned integer. Value range: 0 to 16. • **0—DNS.** • **1—FTP.** • **2—GTP.** • **3—H.225.** • **4—H.245.** • **5—RAS.** • **6—RTSP.** • **7—SIP.** • **8—TFTP.** • **9—ILS.** • **10—MGCP.** • **11—NBT.** • **12—PPTP.** • **13—RSH.** • **14—SCCP.** • **15—SQLNET.** • **16—XDMCP.**	N/A
AppName	Application layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: • **0—DNS: 1 to 100000 seconds.** • **1-16—FTP-XDMCP: 5 to 100000 seconds** Default aging time: • **0—DNS: 1.** • **1—FTP: 3600.** • **2—GTP: 60.** • **3—H.225: 3600.** • **4—H.245: 3600.** • **5—RAS: 300.** • **6—RTSP: 3600.** • **7—SIP: 300.** • **8—TFTP: 60.** • **9—ILS: 3600.** • **10—MGCP: 60.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **11—NBT: 3600.** • **12—PPTP: 3600.** • **13—RSH: 60.** • **14—SCCP: 3600.** • **15—SQLNET: 600.** • **16—XDMCP: 3600.**	

Session/ApplicationAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```
<Session>
  <ApplicationAgingTime>
    <AgingTime>
      <AppName></AppName>
      <AppID></AppID>
      <TimeValue></TimeValue>
    </AgingTime>
  </ApplicationAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ApplicationAgingTime
Table type	Multi-instance table
Row name	ApplicationAgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name.	Index	String, case-insensitive. Length: 1 to 63 characters.	This value can be pre-defined or user-defined application layer protocol name. Valid characters include digits, letters, hyphens

Column name	Column description	Column type	Data type and restrictions	Remarks
				(-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment.
AppID	Application layer protocol ID.	N/A	Unsigned integer. Value range: 0 to 2^{32}- 1	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: 1 to 100000 seconds. Default aging time of pre-defined applications: • DNS: 1. • FTP: 3600. • GTP-CONTROL:60. • GTP-USER:60. • GPRSDATA:60. • GPRSSIG:60. • H225: 3600. • H245: 3600. • RAS: 300. • RTSP: 3600. • SIP: 300. • TFTP: 60. • ILS: 3600. • MGCP-CALLAGENT:60. • MGCP-GATEWAY:60. • PPTP: 3600. • RSH: 60. • SCCP: 3600. • SQLNET: 600. • XDMCP: 3600. • BOOTPC:120. • BOOTPS:120. • FTPDATA:240. • HTTPS:600. • L2TP:120. • NETBIOS-DGM:3600 • NETBIOS-NS:3600 • NETBIOS-SSN:3600. • NTP:120. • QQ:120. • RIP:120. • SNMP:120.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• SNMPTRAP:120. • STUN:600. • SYSLOG:120. • TACACSDS:120. • WHO:120. Default aging time of other pre-defined and user-defined applications: 1200s.	

Session/LogThreshold

This table contains threshold for session logging.

XML structure

```
<Session>
  <LogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </LogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	LogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based session logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshol	Traffic-based session logging	Data	Members include:	

Column name	Column description	Column type	Data type and restrictions	Remarks
d	threshold (minutes).	structure.	• Type. • Threshold.	
Type	Type of traffic-based session logging.	N/A	Enumeration: • 0—Packet-based threshold for traffic-based logging. • 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 100000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterfaces

This table contains interfaces on which IPv4 session logging is enabled.

XML structure

```
<Session>
  <Ipv4LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv4LogOnInterfaces>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only

Column name	Column description	Column type	Data type and restrictions	Remarks
				be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ACLNumber	IPv4 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface. This column can be null.

Session/Ipv6LogOnInterfaces

This table contains interfaces to which IPv6 session logging is enabled.

XML structure

```
<Session>
  <Ipv6LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv6LogOnInterfaces>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ACLNumber	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv6 sessions on the interface. This column can be null.

Session/HotBackup

This table contains session hot backuping configurations.

XML structure

```
<Session>
  <HotBackup>
    <EnableHotBackup></EnableHotBackup>
  </HotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	HotBackup

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableHotBackup	Whether enable hot backuping for session tables.	N/A	Boolean: • true • false (default).	N/A

Session/ProtocolHotBackup

This table contains protocols which need hot backuping.

XML structure

```
<Session>
  <ProtocolHotBackup>
    <ProtocolInfo>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableBackup></EnableBackup>
    </ProtocolInfo>
  </ProtocolHotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ProtocolHotBackup
Table type	Multi-instance table
Row name	ProtocolInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	ProtocolID.	Index	Enumeration: • 1—DNS. • 2—HTTP.	Default, sessions of these protocols are not synchronized.
ProtocolName	Protocol name for which backup is enabled.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableBackup	Whether enable protocol backup.	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/SessionStatistics

This table contains statistics of sessions.

XML structure

```
<Session>
  <SessionStatistics>
    <SessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SourceIpv4></SourceIpv4>
      <DestinationIpv4></DestinationIpv4>
      <SourcePort></SourcePort>
      <DestinationPort></DestinationPort>
      <Protocol></Protocol>
      <CurSessionCount></CurSessionCount>
      <CurRelationCount></CurRelationCount>
      <SessionCount>
        <TCPCount></TCPCount>
        <UDPCount></UDPCount>
        <ICMPCount></ICMPCount>
        <ICMPv6Count></ICMPv6Count>
        <UDPLiteCount></UDPLiteCount>
        <SCTPCount></SCTPCount>
        <DCCPCount></DCCPCount>
        <RawIPCount></RawIPCount>
        <DNSCount></DNSCount>
        <FTPCount></FTPCount>
        <GTPCount></GTPCount>
```

```
  <H323Count></H323Count>
  <HTTPCount></HTTPCount>
  <ILSCount></ILSCount>
  <MGCPCount></MGCPCount>
  <NBTCount></NBTCount>
  <PPTPCount></PPTPCount>
  <RSHCount></RSHCount>
  <RTSPCount></RTSPCount>
  <SCCPCount></SCCPCount>
  <SIPCount></SIPCount>
  <SMTPCount></SMTPCount>
  <SQLNETCount></SQLNETCount>
  <SSHCount></SSHCount>
  <TELNETCount></TELNETCount>
  <TFTPCount></TFTPCount>
  <XDMCPCount></XDMCPCount>
</SessionCount>
<SessionEstablishedRate>
  <TCPRate></TCPRate>
  <UDPRate></UDPRate>
  <ICMPRate></ICMPRate>
  <ICMPv6Rate></ICMPv6Rate>
  <UDPLiteRate></UDPLiteRate>
  <SCTPRate></SCTPRate>
  <DCCPRate></DCCPRate>
  <RawIPRate></RawIPRate>
</SessionEstablishedRate>
<ReceivedPktsBytes>
  <TCPBytes></TCPBytes>
  <TCPPkts></TCPPkts>
  <UDPBytes></UDPBytes>
  <UDPPkts></UDPPkts>
  <ICMPBytes></ICMPBytes>
  <ICMPPkts></ICMPPkts>
  <ICMPv6Bytes></ICMPv6Bytes>
  <ICMPv6Pkts></ICMPv6Pkts>
  <UDPLiteBytes></UDPLiteBytes>
  <UDPLitePkts></UDPLitePkts>
  <SCTPBytes></SCTPBytes>
  <SCTPPkts></SCTPPkts>
  <DCCPBytes></DCCPBytes>
  <DCCPPkts></DCCPPkts>
  <RawIPBytes></RawIPBytes>
  <RawIPPkts></RawIPPkts>
```

```
      </ReceivedPktsBytes>
    </SessionStatistic>
  </SessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionStatistics
Table type	Multi-instance table
Row name	SessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SourceIpv4	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
DestinationIpv4	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
SourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
DestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.

Protocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	Enumeration string: • dccp • icmp • raw-ip • sctp • tcp • udp • udp-lite	This column can be used as query condition.
CurSessionCount	Total number of current sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
CurRelationCount	Total number of current relation entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionCount	Number of sessions of different protocols.	Data structure.	Members include: • TCPCount. • UDPCount. • ICMPCount. • ICMPv6Count. • UDPLiteCount. • SCTPCount. • DCCPCount. • RawIPCount.	N/A
TCPCount	Number of TCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPCount	Number of UDP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPCount	Number of ICMP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Count	Number of ICMPv6 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPLiteCount	Number of UDP-Lite sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPCount	Number of SCTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPCount	Number of DCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPCount	Number of Raw IP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DNSCount	Number of DNS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FTPCount	Number of FTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
GTPCount	Number of GTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
H323Count	Number of H323 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
HTTPCount	Number of HTTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ILSCount	Number of ILS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
MGCPCount	Number of MGCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
NBTCount	Number of NBT sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PPTPCount	Number of PPTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RSHCount	Number of RSH sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RTSPCount	Number of RTSP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCCPCount	Number of SCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SIPCount	Number of SIP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SMTPCount	Number of SMTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SQLNETCount	Number of SQLNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SSHCount	Number of SSH sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TELNETCount	Number of TELNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TFTPCount	Number of TFTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
XDMCPCount	Number of XDMCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionEstablishedRate	Session establishment rate, and rates for establishing sessions of different protocols.	Data structure.	Members include: • TCPRate. • UDPRate. • ICMPRate. • ICMPv6Rate. • UDPLiteRate. • SCTPRate. • DCCPRate.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• RawIPRate.	
TCPRate	Establishment rate of TCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPRate	Establishment rate of UDP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPRate	Establishment rate of ICMP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Rate	Establishment rate of ICMPv6 sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPLiteRate	Establishment rate of UDP-Lite sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPRate	Establishment rate of SCTP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPRate	Establishment rate of DCCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPRate	Establishment rate of Raw IP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ReceivedPkts Bytes	Number of received packets and packet bytes of different protocols.	Data structure.	Members include: • TCPBytes. • TCPPkts. • UDPBytes. • UDPPkts. • ICMPBytes. • ICMPPkts. • ICMPv6Bytes. • ICMPv6Pkts. • UDPLiteBytes. • UDPLitePkts. • SCTPBytes. • SCTPPkts. • DCCPBytes. • DCCPPkts. • RawIPBytes. • RawIPPkts.	N/A
TCPBytes	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received TCP packet bytes.		Value range: 0 to 2^{64} - 1.	
TCPPkts	Number of received TCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPBytes	Number of received UDP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPPkts	Number of received UDP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPBytes	Number of received ICMP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPPkts	Number of received ICMP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPv6Bytes	Number of received ICMPv6 packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPv6Pkts	Number of received ICMPv6 packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPLiteBytes	Number of received UDP-Lite packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPLitePkts	Number of received UDP-Lite packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SCTPBytes	Number of received SCTP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SCTPPkts	Number of received SCTP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DCCPBytes	Number of received DCCP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DCCPPkts	Number of received DCCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RawIPBytes	Number of received Raw IP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RawIPPkts	Number of received Raw IP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Session/TopStatistics/Switch

This table contains session top statistics configuration of switch.

XML structure

```
<Session>
  <TopStatistics>
    <Switch>
      <Enable></Enable>
    </Switch>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session top statistics	N/A	Boolean: • **true**. • **false**.	N/A

Session/TopStatistics/CountingByAddress

This table contains top statistics for sessions by addresses.

XML structure

```
<Session>
  <TopStatistics>
    <CountingByAddress>
      <Item>
        <Type></Type>
        <Period></Period>
```

```
        <Sequence></Sequence>
        <Address>
          <IPv4Addr></IPv4Addr>
          <IPv6Addr></IPv6Addr>
        </Address>
        <SumCount></SumCount>
        <EstablishedRate></EstablishedRate>
      </Item>
    </CountingByAddress>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	CountingByAddress
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Type	Type of top statistics	Index	Enumeration: • 0—Top statistics by source address. • 1—Top statistics by destination address.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
Sequence	Sequence number for top statistics	Index	Unsigned integer. Value range: 1 to 10.	N/A
Address	Source or destination network layer address	Data structure	Members include: • IPv4Addr. • IPv6Addr.	N/A
IPv4Addr	IPv4 address	N/A	IPv4 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Addr	IPv6 address	N/A	IPv6 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
SumCount	Total number of sessions established in a period	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
EstablishedRate	Average establishment rate of sessions established between a pair of samples in a period	N/A	Unsigned integer. Value range: 0 to 2^{32} – 1.	N/A

Session/TopStatistics/SampleTime

This table contains sample time for the top statistics in a period.

XML structure

```
<Session>
  <TopStatistics>
    <SampleTime>
      <Item>
        <Type></Type>
        <Period></Period>
        <SampleTime></SampleTime>
      </Item>
    </SampleTime>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SampleTime
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top statistics	Index	Enumeration: • 0—Top statistics by source address. • 1—Top statistics by destination address.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
SampleTime	Sample time in a period	N/A	String. Length: 1 to 32 characters.	Example: 2000-04-25 21:23:23.

Session/HistoryStatistics

This table contains session history statistics.

XML structure

```
<Session>
  <HistoryStatistics>
    <Item>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Period></Period>
      <Sequence></Sequence>
      <Time></Time>
      <SessionCount></SessionCount>
      <EstablishedRate></EstablishedRate>
    </Item>
  </HistoryStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	HistoryStatistics

Table type	Multi-instance table
Row name	`Item`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
`Period`	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. • **0**—1 hour. • **1**—1 day. • **2**—30 days.	N/A
`Sequence`	Number of history statistics time point	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
`Time`	Current time	N/A	String. Length: 1 to 32 characters.	N/A
`SessionCount`	Number of history session count	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1	N/A
`EstablishedRate`	Number of history new established rate	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Session/TrafficLogFlowBegin

This table contains traffic log flow begin configuration.

XML structure

```
<Session>
  <TrafficLogFlowBegin>
    <OutputCreateLog></OutputCreateLog>
  </TrafficLogFlowBegin>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputCreateLog	Whether enable traffic logging.	N/A	Boolean: • **true**. • **false**.	N/A

Session/TrafficLogThreshold

This table contains threshold for traffic threshold logging.

XML structure

```
<Session>
  <TrafficLogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </TrafficLogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based traffic logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based traffic logging threshold (minutes).	Data structure.	Members include: • Type. • Threshold.	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: • 0—Packet-based threshold for traffic-based logging. • 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterZones

This table contains session traffic log enable ipv4 configuration.

XML structure

```
<Session>
  <Ipv4LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv4LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session

Table name	Ipv4LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
EnableLog	Logging enable	N/A	Boolean: • true—YES • false—NO	N/A
Mode	Whether by-server	N/A	Boolean: • true—YES • false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/Ipv6LogOnInterZones

This table contains session traffic log enable ipv6 configuration.

XML structure

```
<Session>
  <Ipv6LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv6LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and "|" can't be included.
EnableLog	Logging enable	N/A	Boolean: • true—YES • false—NO	N/A
Mode	Whether by-server	N/A	Boolean: • true—YES • false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/Ipv4Sessions

The table of IPv4 sessions.

XML structure

```
<Session>
  <Ipv4Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Handle></Handle>
      <PerChassis></PerChassis>
      <PerSlot></PerSlot>
```

```
      <PerCPUID></PerCPUID>
      <PerHandle></PerHandle>
      <LocalCreate></LocalCreate>
      <SessionMax></SessionMax>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitDSLiteTunnelPeer></InitDSLiteTunnelPeer>
      <InitProtocol></InitProtocol>
      <ResponseVRF></ResponseVRF>
      <ResponseSourceIp></ResponseSourceIp>
      <ResponseSourcePort></ResponseSourcePort>
      <ResponseDestinationIp></ResponseDestinationIp>
      <ResponseDestinationPort></ResponseDestinationPort>
      <ResponseDSLiteTunnelPeer></ResponseDSLiteTunnelPeer>
      <ResponseProtocol></ResponseProtocol>
      <Application></Application>
      <State></State>
      <StartTime></StartTime>
      <TTL></TTL>
      <RecvInterface></RecvInterface>
      <RecvSecurityZone></RecvSecurityZone>
      <SendInterface></SendInterface>
      <SendSecurityZone></SendSecurityZone>
      <InitToResponsePackets></InitToResponsePackets>
      <InitToResponseBytes></InitToResponseBytes>
      <ResponseToInitPackets></ResponseToInitPackets>
      <ResponseToInitBytes></ResponseToInitBytes>
      <InitEnProtocol></InitEnProtocol>
      <StopTime></StopTime>
      <Backupflag></Backupflag>
      <InitRuleName></InitRuleName>
      <EnState></EnState>
      <TimeRangeStart></TimeRangeStart>
      <TimeRangeEnd></TimeRangeEnd>
      <SessionDir></SessionDir>
      <PageNum></PageNum>
      <PageCnt></PageCnt>
      <TotalCnt></TotalCnt>
      <SessionType></SessionType>
    </Session>
  </Ipv4Sessions>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Handle	Session Handle	Index	Unsigned integer. Value range: 0 to 2^{64} - 1.	This column has no practical sense, it's only the index of the table.
PerChassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerSlot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerCPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	This column is for several times to get
PerHandle	Handle	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	This column is for several times to get
LocalCreate	Mark of the session that Local board Created	N/A	Unsigned integer. Value range: 0 to 1. • 0—All boards • 1—Local board	N/A
SessionMax	The number of one time get	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the module which created the session.	N/A	Unsigned integer. Enumeration: • 0—NAT. • 1—CONNECTION-LIMIT. • 2—LB. • 3—ASPF. • 4—LOG. • 5—ALG. • 6—DS-Lite. • 7—TCP MSS. • 8—Application of statistical. • 9—Inter-zone strategy. • 10—WAAS. • 11—TCP serial number to check. • 12—AFT. • 13—DIM Engine processing. • 14—TCP Engine restructuring. • 15—Traffic log.	This column can be used as query condition.
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: • 0—VRF instance name. • 1—VLAN ID. • 2—Inline ID.	This column can be used as query condition.
InitVRF	Session forward value of the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the initiator. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	String, case-insensitive. Length: 1 to 46 characters.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
ResponseVRF	Session forward value of the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
ResponseSourceIp	Source IP address of the packet from the responder to the initiator.	N/A	Ipv4 Address.	This column can be used as query condition.
ResponseSourcePort	Source port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDestinationIp	Destination IP address of the packet from the responder to the initiator.	N/A	Ipv4 Address.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponseDestinationPort	Destination port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the responder. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	String, case-insensitive. Length: 1 to 46 characters.	N/A
ResponseProtocol	Transport layer protocol name of the packet from the responder to the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Application	Application layer protocol. The value of OTHER indicates an unknown protocol with a non-well-known port.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be used as query condition.
State	Session state(String).	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
StartTime	Session establishment time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TTL	Remaining lifetime of the session, in seconds.v	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1 seconds.	N/A
RecvInterface	Interface name of the packet receiver.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
RecvSecurityZone	SecurityZone name of the packet receiver	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
SendInterface	Interface name of the packet sender.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
SendSecurityZone	SecurityZone name of the packet sender	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
InitToResponsePackets	Number of packets from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
InitToResponseBytes	Number of packet bytes from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ResponseToInitPackets	Number of packets from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ResponseToInitBytes	Number of packet bytes from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP. • 7—RAWIP. • 8—ALL.	This column can be used as query condition.
StopTime	Remaining time of stopping a specified session's flow	N/A	Unsigned integer.	N/A
Backupflag	Session state's mask: owner, director, etc	N/A	Unsigned Char. 0x40—OWNER 0x80—DIRECTOR	N/A
InitRuleName	The name of rule of which is matched by zone checking	N/A	String, case-insensitive. Length: 1 to 127 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 16—ICMP_REQUEST. • 17—ICMP_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECD. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	This column can be used as query condition.
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder. • 2—Both.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
PageNum	Page number.	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	This column can be used as query condition.
PageCnt	Number of sessions per page.	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	This column can be used as query condition.
TotalCnt	Total number of sessions.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionType	Session type.	N/A	Unsigned integer. • **0**—Normal session. • **1**—Deny session.	N/A

Session/Ipv6Sessions

This table is used to display the ipv6 session details.

XML structure

```
<Session>
  <Ipv6Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Handle></Handle>
      <PerChassis></PerChassis>
      <PerSlot></PerSlot>
      <PerCPUID></PerCPUID>
      <PerHandle></PerHandle>
      <LocalCreate></LocalCreate>
      <SessionMax></SessionMax>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitProtocol></InitProtocol>
      <ResponseVRF></ResponseVRF>
      <ResponseSourceIp></ResponseSourceIp>
      <ResponseSourcePort></ResponseSourcePort>
      <ResponseDestinationIp></ResponseDestinationIp>
      <ResponseDestinationPort></ResponseDestinationPort>
      <ResponseProtocol></ResponseProtocol>
      <Application></Application>
```

```
      <State></State>
      <StartTime></StartTime>
      <TTL></TTL>
      <RecvInterface></RecvInterface>
      <RecvSecurityZone></RecvSecurityZone>
      <SendInterface></SendInterface>
      <SendSecurityZone></SendSecurityZone>
      <InitToResponsePackets></InitToResponsePackets>
      <InitToResponseBytes></InitToResponseBytes>
      <ResponseToInitPackets></ResponseToInitPackets>
      <ResponseToInitBytes></ResponseToInitBytes>
      <InitEnProtocol></InitEnProtocol>
      <StopTime></StopTime>
      <Backupflag></Backupflag>
      <InitRuleName></InitRuleName>
      <EnState></EnState>
      <TimeRangeStart></TimeRangeStart>
      <TimeRangeEnd></TimeRangeEnd>
      <SessionDir></SessionDir>
      <PageNum></PageNum>
      <PageCnt></PageCnt>
      <TotalCnt></TotalCnt>
      <SessionType></SessionType>
    </Session>
  </Ipv6Sessions>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Handle	Handle.	Index	Unsigned integer. Value range: 0 to 2^{64} - 1.	This column has no practical sense, it's only the index of the table.
PerChasis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerSlot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65534	This column is for several times to get
PerCPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7	This column is for several times to get
PerHandle	Handle	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1	This column is for several times to get
LocalCreate	Mark of the session that Local board Created	N/A	Unsigned integer. Value range: 0 to 1. • 0—All boards • 1—Local board	N/A
SessionMax	The number of one time get	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Type	Type of the module which created the session.	N/A	Unsigned integer. Enumeration: • 0—NAT. • 1—CONNECTION-LIMIT • 2—LB. • 3—ASPF. • 4—LOG. • 5—ALG • 6—DS-Lite • 7—TCP MSS • 8—Application of statistical • 9—Inter-zone strategy • 10—WAAS • 11—TCP serial number to check • 12—AFT • 13—DIM Engine processing • 14—TCP Engine restructuring • 15—Traffic log	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: • 0—VRF instance name. • 1—VLAN ID. • 2—Inline ID.	This column can be used as query condition.
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID; SessionFwdType is Inline ID, the value for InitVRF is Inline ID, SessionFwdType is VRF instance name, the value for InitVRF is VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	This column can be used as query condition.
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	This column can be used as query condition.
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponseVRF	Session forward value of the responder.	N/A	String, case-sensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID; SessionFwdType is Inline ID, the value for InitVRF is Inline ID, SessionFwdType is VRF instance name, the value for InitVRF is VRF instance name.
ResponseSourceIp	Source IP address of the packet from the responder to the initiator.	N/A	Ipv6 Address.	This column can be used as query condition.
ResponseSourcePort	Source port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDestinationIp	Destination IP address of the packet from the responder to the initiator.	N/A	Ipv6 Address.	This column can be used as query condition.
ResponseDestinationPort	Destination port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseProtocol	Transport layer protocol name of the packet from the responder to the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Application	Application layer protocol. The value of OTHER indicates an unknown protocol with a non-well-known port.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be used as query condition.
State	Session state(String).	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
StartTime	Session establishment time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TTL	Remaining lifetime of the session, in seconds.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1 seconds.	N/A
RecvInterface	Interface name of the packet receiver.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
RecvSecurityZone	SecurityZone name of the packet receiver	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
SendInterface	Interface name of the packet sender.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
SendSecurity Zone	SecurityZone name of the packet sender	N/A	String, case-insensitive. Length: 1 to 31 characters	This column can be used as query condition.
InitToRespons ePackets	Number of packets from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
InitToRespons eBytes	Number of packet bytes from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ResponseToIn itPackets	Number of packets from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ResponseToIn itBytes	Number of packet bytes from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP. • 7—RAWIP. • 8—ALL.	This column can be used as query condition.
StopTime	Remaining time of stopping a specified session's flow	N/A	Unsigned integer..	N/A
Backupflag	Session state's mask: owner, director, etc	N/A	Unsigned Char. • 0x40—OWNER • 0x80—DIRECTOR	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitRuleName	The name of rule of which is matched by zone checking	N/A	String, case-insensitive. Length: 1 to 127 characters.	This column can be used as query condition.
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 18—ICMPV6_REQUEST. • 19—ICMPV6_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECD. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	This column can be used as query condition.
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder. • 2—Both.	This column can be used as query condition.
PageNum	Page number.	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	This column can be used as query condition.
PageCnt	Number of sessions per page.	N/A	Unsigned integer. Value range: 1 to 2^{32} - 1.	This column can be used as query condition.
TotalCnt	Total number of sessions.	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionType	Session type.	N/A	Unsigned integer. • **0**—Normal session. • **1**—Deny session.	N/A

Session/ConnectionLimit/Ipv4Policies

This table contains IPv4 connection limit policy configurations..

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv4Policies>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv4 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6Policies

This table contains IPv6 connection limit policy configurations..

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv6Policies>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	IPv6 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4LimitRules

This table contains IPv4 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
        <PermitNew></PermitNew>
      </Rule>
    </Ipv4LimitRules>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv4 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either *ACLNumber* or *ACLName* is required, and you cannot configure both.
ACLName	IPv4 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
`ClmRate`	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: • PerSource. • PerDestination. • PerService.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PerSource	Limits connections by source IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: • true—YES • false—NO(default).	N/A
Description	IPv4 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Unsigned integer. Value range: 0 to 2 • 0—Deny • 1—Permit • 2—Blocklist •	N/A

Session/ConnectionLimit/Ipv6LimitRules

This table contains IPv6 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
```

```
      <PermitNew></PermitNew>
     </Rule>
    </Ipv6LimitRules>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv6 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
ACLName	IPv6 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either *ACLNumber*or *ACLName* is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
`ClmRate`	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: • PerSource. • PerDestination. • PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: • true—YES • false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: • true—YES • false—NO(default).	N/A
Description	IPv6 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Unsigned integer. Value range: 0 to 2 • 0—Deny • 1—Permit • 2—Blocklist •	N/A

Session/ConnectionLimit/Ipv4PolicyAppliedGlobally

This table contains IPv4 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv4PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyAppliedGlobally

This table contains IPv6 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyAppliedGlobally>
```

```
      <PolicyNumber></PolicyNumber>
    </Ipv6PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4PolicyOnInterfaces

This table contains interfaces to which IPv4 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv4PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session

Table name	Ipv4PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyOnInterfaces

This table contains interfaces to which IPv6 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv6PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/GlobalStatistics

This table contains connection limit global statistics.

XML structure

```
<Session>
  <ConnectionLimit>
    <GlobalStatistics>
      <GlobalStatistic>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Ipv4DroppedPackets></Ipv4DroppedPackets>
        <Ipv6DroppedPackets></Ipv6DroppedPackets>
      </GlobalStatistic>
    </GlobalStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	GlobalStatistics
Table type	Multi-instance table
Row name	GlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Ipv4DroppedPackets	Number of dropped IPv4 packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Number of IPv4 packets that are dropped because the upper connection limit is exceeded when an IPv4 connection limit policy is configured globally.
Ipv6DroppedPackets	Number of dropped IPv6 packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Number of IPv6 packets that are dropped because the upper connection limit is exceeded when an IPv6 connection limit policy is configured globally.

Session/ConnectionLimit/InterfaceStatistics

This table contains connection limit statistics on interfaces.

XML structure

```
<Session>
  <ConnectionLimit>
    <InterfaceStatistics>
      <InterfaceStatistic>
        <IfIndex></IfIndex>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Ipv4DroppedPackets></Ipv4DroppedPackets>
        <Ipv6DroppedPackets></Ipv6DroppedPackets>
      </InterfaceStatistic>
    </InterfaceStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Ipv4DroppedPackets	Number of dropped IPv4 packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Number of IPv4 packets that are dropped because the upper connection limit is exceeded when an IPv4 connection limit policy is configured on an interface.
Ipv6DroppedPackets	Number of dropped IPv6 packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	Number of IPv6 packets that are dropped because the upper connection limit is exceeded when an IPv6 connection limit policy is configured on an interface.

Session/StatisticsSwitch

This table contains session statistics configuration of switch.

XML structure

```
<Session>
```

```
  <StatisticsSwitch>
    <Enable></Enable>
  </StatisticsSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	StatisticsSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session statistics	N/A	Boolean: • **true**. • **false**.	N/A

Session/SessionLogFlowBegin

This table contains session log flow begin configuration.

XML structure

```
<Session>
  <SessionLogFlowBegin>
    <SessionCreateLog></SessionCreateLog>
  </SessionLogFlowBegin>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionCreateLog	Whether enable session create logging.	N/A	Boolean: • true—YES • false—NO	N/A

Session/SessionLogFlowEnd

This table contains session log flow end configuration.

XML structure

```
<Session>
  <SessionLogFlowEnd>
    <SessionDeleteLog></SessionDeleteLog>
  </SessionLogFlowEnd>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionLogFlowEnd
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDeleteLog	Whether enable session delete logging.	N/A	Boolean: • true—YES • false—NO	N/A

Session/DenySession

This table contains packet dropping session feature configuration.

XML structure

```
<Session>
```

```
  <DenySession>
    <Aspf></Aspf>
    <ConnLimit></ConnLimit>
    <TimeValue></TimeValue>
    <RatioValue></RatioValue>
    <IsManageMDC></IsManageMDC>
  </DenySession>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	DenySession
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Aspf	Status of packet dropping session feature in aspf module.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ConnLimit	Status of packet dropping session feature in connection limit module.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
TimeValue	Packet dropping session aging time (seconds)	N/A	Unsigned integer. Value range: 1 to 3.	N/A
RatioValue	The ratio of packet dropping sessions to all sessions (permillage)	N/A	Unsigned integer. Value range: 1 to 20	N/A
IsManageMDC	Whether is manage context.	N/A	Boolean: • **true**—YES • **false**—NO	N/A

Session/DenySessionTopStat/Switch

This table contains the status of top packet dropping session statistics.

XML structure

```
<Session>
  <DenySessionTopStat>
    <Switch>
      <Enable></Enable>
    </Switch>
  </DenySessionTopStat>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Status of top packet dropping session statistics	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

Session/DenySessionTopStat/CountByAddress

This table contains top statistics for packet dropping sessions by addresses.

XML structure

```
<Session>
  <DenySessionTopStat>
    <CountByAddress>
      <Item>
        <Type></Type>
        <Period></Period>
        <Sequence></Sequence>
        <Address>
          <IPv4Addr></IPv4Addr>
          <IPv6Addr></IPv6Addr>
```

```
        </Address>
        <SumCount></SumCount>
        <EstablishedRate></EstablishedRate>
      </Item>
    </CountByAddress>
  </DenySessionTopStat>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	CountByAddress
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top packet dropping session statistics	Index	Enumeration: • 0—Top statistics by source address. • 1—Top statistics by destination address.	N/A
Period	Period of history packet dropping session statistics	Index	Unsigned integer. Value range: 0 to 2. • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
Sequence	Sequence number for top statistics	Index	Unsigned integer. Value range: 1 to 10.	N/A
Address	Source or destination network layer address	Data structure	Members include: • IPv4Addr. • IPv6Addr.	N/A
IPv4Addr	IPv4 address	N/A	IPv4 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
IPv6Addr	IPv6 address	N/A	IPv6 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
SumCount	Total number of packet dropping sessions	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	established in a period			
EstablishedRate	Average establishment rate of packet dropping sessions established between a pair of samples in a period	N/A	Unsigned integer. Value range: 0 to 2^{32} – 1.	N/A

Session/DenySessionTopStat/SampleTime

This table contains sample time for the top packet dropping session statistics in a period.

XML structure

```
<Session>
  <DenySessionTopStat>
    <SampleTime>
      <Item>
        <Type></Type>
        <Period></Period>
        <SampleTime></SampleTime>
      </Item>
    </SampleTime>
  </DenySessionTopStat>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SampleTime
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top packet dropping session statistics	Index	Enumeration: • 0—Top statistics by source address. • 1—Top statistics by destination address.	N/A
Period	Period of history packet dropping session statistics	Index	Unsigned integer. Value range: 0 to 2. • 0—1 hour. • 1—1 day. • 2—30 days.	N/A
SampleTime	Sample time	N/A	String. Length: 1 to 32 characters.	Example: 2000-04-25 21:23:23.

Session/DenySessionHistoryStat

This table contains packet dropping session history statistics.

XML structure

```
<Session>
  <DenySessionHistoryStat>
    <Item>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Period></Period>
      <Sequence></Sequence>
      <Time></Time>
      <DenySessionCount></DenySessionCount>
      <EstablishedRate></EstablishedRate>
    </Item>
  </DenySessionHistoryStat>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	DenySessionHistoryStat
Table type	Multi-instance table

Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the chassis where the entity resides	Index	Unsigned integer. • Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. • Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Period	Period of history packet dropping session statistics	Index	Unsigned integer. Value range: 0 to 2. • **0**—1 hour. • **1**—1 day. • **2**—30 days.	N/A
Sequence	Number of history statistics time point	Index	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
Time	Current time	N/A	String. Length: 1 to 32 characters.	N/A
DenySession Count	Number of history packet dropping session count	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1	N/A
EstablishedRate	Number of history new established rate	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Session/DenyStatisticsSummary

This table contains statistics summary for packet dropping sessions.

XML structure

```
<Session>
  <DenyStatisticsSummary>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <EstDenySession>
      <EstCount></EstCount>
      <EstTCPCount></EstTCPCount>
```

```
      <EstUDPCount></EstUDPCount>
      <EstRate></EstRate>
      <EstTCPRate></EstTCPRate>
      <EstUDPRate></EstUDPRate>
    </EstDenySession>
    <TryDenySession>
      <TryCount></TryCount>
      <TryTCPCount></TryTCPCount>
      <TryUDPCount></TryUDPCount>
      <TryRate></TryRate>
      <TryTCPRate></TryTCPRate>
      <TryUDPRate></TryUDPRate>
    </TryDenySession>
  </DenyStatisticsSummary>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	DenyStatisticsSummary
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the chassis where the entity resides	Index	Unsigned integer. • Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. • Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
EstDenySession	Number of established packet dropping sessions of different protocols	Data structure.	Members include: • Count • Rate	N/A
EstCount	The tatal number of established packet dropping	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sessions			
EstTCPCount	The number of established packet dropping sessions for TCP	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
EstUDPCount	The number of established packet dropping sessions for UDP	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
EstRate	Establishment rate packet dropping sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
EstTCPRate	Establishment rate of TCP packet dropping sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
EstUDPRate	Establishment rate of UDP packet dropping sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TryDenySession	Number of attempts to create packet dropping sessions for different protocols	Data structure.	Members include: • Count Rate	N/A
TryCount	The total number of attempts to create packet dropping sessions	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
TryTCPCount	The number of attempts to create packet dropping sessions for TCP	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
TryUDPCount	The number of attempts to create packet dropping sessions for UDP	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
TryRate	Rate of attempts to create packet dropping sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TryTCPRate	Rate of attempts to create packet dropping	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sessions for TCP (per second).			
TryUDPRate	Rate of attempts to create packet dropping sessions for UDP (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Session/DenySessionStatistics

This table contains statistics of packet dropping sessions.

XML structure

```
<Session>
  <DenySessionStatistics>
    <DenySessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CurDenySessionCount></CurDenySessionCount>
      <CurDenyEstablishedRate></CurDenyEstablishedRate>
      <DenySessionCount>
        <TCPCount></TCPCount>
        <UDPCount></UDPCount>
        <ICMPCount></ICMPCount>
        <ICMPv6Count></ICMPv6Count>
        <UDPLiteCount></UDPLiteCount>
        <SCTPCount></SCTPCount>
        <DCCPCount></DCCPCount>
        <RawIPCount></RawIPCount>
        <DNSCount></DNSCount>
        <FTPCount></FTPCount>
        <GTPCount></GTPCount>
        <H323Count></H323Count>
        <HTTPCount></HTTPCount>
        <ILSCount></ILSCount>
        <MGCPCount></MGCPCount>
        <NBTCount></NBTCount>
        <PPTPCount></PPTPCount>
        <RSHCount></RSHCount>
        <RTSPCount></RTSPCount>
        <SCCPCount></SCCPCount>
```

```
        <SIPCount></SIPCount>
        <SMTPCount></SMTPCount>
        <SQLNETCount></SQLNETCount>
        <SSHCount></SSHCount>
        <TELNETCount></TELNETCount>
        <TFTPCount></TFTPCount>
        <XDMCPCount></XDMCPCount>
      </DenySessionCount>
      <DenySessionEstablishedRate>
        <TCPRate></TCPRate>
        <UDPRate></UDPRate>
        <ICMPRate></ICMPRate>
        <ICMPv6Rate></ICMPv6Rate>
        <UDPLiteRate></UDPLiteRate>
        <SCTPRate></SCTPRate>
        <DCCPRate></DCCPRate>
        <RawIPRate></RawIPRate>
      </DenySessionEstablishedRate>
      <ReceivedPktsBytes>
        <DenyTCPBytes></DenyTCPBytes>
        <DenyTCPPkts></DenyTCPBytes>
        <DenyUDPBytes></DenyUDPBytes>
        <DenyUDPPkts></DenyUDPPkts>
        <DenyICMPBytes></DenyICMPBytes>
        <DenyICMPPkts></DenyICMPPkts>
        <DenyICMPv6Bytes></DenyICMPv6Bytes>
        <DenyICMPv6Pkts></DenyICMPv6Pkts>
        <DenyUDPLiteBytes></DenyUDPLiteBytes>
        <DenyUDPLitePkts></DenyUDPLitePkts>
        <DenySCTPBytes></DenySCTPBytes>
        <DenySCTPPkts></DenySCTPPkts>
        <DenyDCCPBytes></DenyDCCPBytes>
        <DenyDCCPPkts></DenyDCCPPkts>
        <DenyRawIPBytes></DenyRawIPBytes>
        <DenyRawIPPkts></DenyRawIPPkts>
      </ReceivedPktsBytes>
    </DenySessionStatistic>
  </DenySessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	DenySessionStatistics
Table type	Multi-instance table
Row name	DenySessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the chassis where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
CurDenySessionCount	Total number of current packet dropping sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
CurDenyEstablishedRate	Current packet dropping session establishment rate.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DenySessionCount	Number of packet dropping sessions of different protocols.	Data structure.	Members include: • TCPCount. • UDPCount. • ICMPCount. • ICMPv6Count. • UDPLiteCount. • SCTPCount. • DCCPCount. • RawIPCount.	N/A
TCPCount	Number of TCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPCount	Number of UDP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPCount	Number of ICMP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Count	Number of ICMPv6 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UDPLiteCount	Number of UDP-Lite sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPCount	Number of SCTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPCount	Number of DCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPCount	Number of Raw IP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DNSCount	Number of DNS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FTPCount	Number of FTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
GTPCount	Number of GTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
H323Count	Number of H323 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
HTTPCount	Number of HTTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ILSCount	Number of ILS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
MGCPCount	Number of MGCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
NBTCount	Number of NBT sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PPTPCount	Number of PPTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RSHCount	Number of RSH sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RTSPCount	Number of RTSP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCCPCount	Number of SCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SIPCount	Number of SIP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SMTPCount	Number of SMTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SQLNETCount	Number of SQLNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SSHCount	Number of SSH	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sessions.		Value range: 0 to 2^{32} - 1.	
TELNETCount	Number of TELNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TFTPCount	Number of TFTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
XDMCPCount	Number of XDMCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DenySessionEstablishedRate	Packet dropping session establishment rate, and rates for establishing packet dropping sessions of different protocols..	Data structure.	Members include: • TCPRate. • UDPRate. • ICMPRate. • ICMPv6Rate. • UDPLiteRate. • SCTPRate. • DCCPRate. • RawIPRate.	N/A
TCPRate	Establishment rate of TCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPRate	Establishment rate of UDP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPRate	Establishment rate of ICMP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Rate	Establishment rate of ICMPv6 sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPLiteRate	Establishment rate of UDP-Lite sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPRate	Establishment rate of SCTP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPRate	Establishment rate of DCCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPRate	Establishment rate of Raw IP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceivedPktsBytes	Number of received packets and bytes of different protocols.	Data structure.	Members include: • DenyTCPBytes. • DenyTCPPkts. • DenyUDPBytes. • DenyUDPPkts. • DenyICMPBytes. • DenyICMPPkts. • DenyICMPv6Bytes. • DenyICMPv6Pkts. • DenyUDPLiteBytes. • DenyUDPLitePkts. • DenySCTPBytes. • DenySCTPPkts. • DenyDCCPBytes. • DenyDCCPPkts. • DenyRawIPBytes. • DenyRawIPPkts.	N/A
DenyTCPBytes	Number of received TCP bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyTCPPkts	Number of received TCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyUDPBytes	Number of received UDP bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyUDPPkts	Number of received UDP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyICMPBytes	Number of received ICMP bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyICMPPkts	Number of received ICMP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyICMPv6Bytes	Number of received ICMPv6 bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyICMPv6Pkts	Number of received ICMPv6 packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyUDPLiteBytes	Number of received UDP-Lite bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyUDPLitePkts	Number of received UDP-Lite packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenySCTPBy	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
tes	received SCTP bytes.		Value range: 0 to 2^{64} - 1.	
DenySCTPPkts	Number of received SCTP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyDCCPBytes	Number of received DCCP bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyDCCPPkts	Number of received DCCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyRawIPBytes	Number of received Raw IP bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DenyRawIPPkts	Number of received Raw IP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Session/SessionStatistics

This table contains statistics of sessions.

XML structure

```
<Session>
  <SessionStatistics>
    <SessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CurSessionCount></CurSessionCount>
      <CurRelationCount></CurRelationCount>
      <SessionCount>
        <TCPCount></TCPCount>
        <UDPCount></UDPCount>
        <ICMPCount></ICMPCount>
        <ICMPv6Count></ICMPv6Count>
        <UDPLiteCount></UDPLiteCount>
        <SCTPCount></SCTPCount>
        <DCCPCount></DCCPCount>
        <RawIPCount></RawIPCount>
        <DNSCount></DNSCount>
        <FTPCount></FTPCount>
        <GTPCount></GTPCount>
        <H323Count></H323Count>
```

```
  <HTTPCount></HTTPCount>
  <ILSCount></ILSCount>
  <MGCPCount></MGCPCount>
  <NBTCount></NBTCount>
  <PPTPCount></PPTPCount>
  <RSHCount></RSHCount>
  <RTSPCount></RTSPCount>
  <SCCPCount></SCCPCount>
  <SIPCount></SIPCount>
  <SMTPCount></SMTPCount>
  <SQLNETCount></SQLNETCount>
  <SSHCount></SSHCount>
  <TELNETCount></TELNETCount>
  <TFTPCount></TFTPCount>
  <XDMCPCount></XDMCPCount>
</SessionCount>
<SessionEstablishedRate>
  <TCPRate></TCPRate>
  <UDPRate></UDPRate>
  <ICMPRate></ICMPRate>
  <ICMPv6Rate></ICMPv6Rate>
  <UDPLiteRate></UDPLiteRate>
  <SCTPRate></SCTPRate>
  <DCCPRate></DCCPRate>
  <RawIPRate></RawIPRate>
</SessionEstablishedRate>
<ReceivedPktsBytes>
  <TCPBytes></TCPBytes>
  <TCPPkts></TCPPkts>
  <UDPBytes></UDPBytes>
  <UDPPkts></UDPPkts>
  <ICMPBytes></ICMPBytes>
  <ICMPPkts></ICMPPkts>
  <ICMPv6Bytes></ICMPv6Bytes>
  <ICMPv6Pkts></ICMPv6Pkts>
  <UDPLiteBytes></UDPLiteBytes>
  <UDPLitePkts></UDPLitePkts>
  <SCTPBytes></SCTPBytes>
  <SCTPPkts></SCTPPkts>
  <DCCPBytes></DCCPBytes>
  <DCCPPkts></DCCPPkts>
  <RawIPBytes></RawIPBytes>
  <RawIPPkts></RawIPPkts>
</ReceivedPktsBytes>
```

```
    </SessionStatistic>
  </SessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionStatistics
Table type	Multi-instance table
Row name	SessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SourceIpv4	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
DestinationIpv4	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
SourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
DestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.

Protocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	Enumeration string: • dccp • icmp • raw-ip • sctp • tcp • udp • udp-lite	This column can be used as query condition.
CurSessionCount	Total number of current sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
CurRelationCount	Total number of current relation entries.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionCount	Number of sessions of different protocols.	Data structure.	Members include: • TCPCount. • UDPCount. • ICMPCount. • ICMPv6Count. • UDPLiteCount. • SCTPCount. • DCCPCount. • RawIPCount.	N/A
TCPCount	Number of TCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPCount	Number of UDP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPCount	Number of ICMP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Count	Number of ICMPv6 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPLiteCount	Number of UDP-Lite sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPCount	Number of SCTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPCount	Number of DCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPCount	Number of Raw IP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DNSCount	Number of DNS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
FTPCount	Number of FTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
GTPCount	Number of GTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
H323Count	Number of H323 sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
HTTPCount	Number of HTTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ILSCount	Number of ILS sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
MGCPCount	Number of MGCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
NBTCount	Number of NBT sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
PPTPCount	Number of PPTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RSHCount	Number of RSH sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RTSPCount	Number of RTSP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCCPCount	Number of SCCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SIPCount	Number of SIP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SMTPCount	Number of SMTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SQLNETCount	Number of SQLNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SSHCount	Number of SSH sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TELNETCount	Number of TELNET sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
TFTPCount	Number of TFTP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
XDMCPCount	Number of XDMCP sessions.	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SessionEstablishedRate	Session establishment rate, and rates for establishing sessions of different protocols.	Data structure.	Members include: • TCPRate. • UDPRate. • ICMPRate. • ICMPv6Rate. • UDPLiteRate. • SCTPRate. • DCCPRate.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• RawIPRate.	
TCPRate	Establishment rate of TCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPRate	Establishment rate of UDP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPRate	Establishment rate of ICMP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ICMPv6Rate	Establishment rate of ICMPv6 sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
UDPLiteRate	Establishment rate of UDP-Lite sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
SCTPRate	Establishment rate of SCTP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
DCCPRate	Establishment rate of DCCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
RawIPRate	Establishment rate of Raw IP sessions (per second).	N/A	Unsigned integer. Value range: 0 to 2^{32} - 1.	N/A
ReceivedPkts Bytes	Number of received packets and packet bytes of different protocols.	Data structure.	Members include: • TCPBytes. • TCPPkts. • UDPBytes. • UDPPkts. • ICMPBytes. • ICMPPkts. • ICMPv6Bytes. • ICMPv6Pkts. • UDPLiteBytes. • UDPLitePkts. • SCTPBytes. • SCTPPkts. • DCCPBytes. • DCCPPkts. • RawIPBytes. • RawIPPkts.	N/A
TCPBytes	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received TCP packet bytes.		Value range: 0 to 2^{64} - 1.	
TCPPkts	Number of received TCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPBytes	Number of received UDP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPPkts	Number of received UDP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPBytes	Number of received ICMP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPPkts	Number of received ICMP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPv6Bytes	Number of received ICMPv6 packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ICMPv6Pkts	Number of received ICMPv6 packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPLiteBytes	Number of received UDP-Lite packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
UDPLitePkts	Number of received UDP-Lite packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SCTPBytes	Number of received SCTP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SCTPPkts	Number of received SCTP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DCCPBytes	Number of received DCCP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DCCPPkts	Number of received DCCP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RawIPBytes	Number of received Raw IP packet bytes.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RawIPPkts	Number of received Raw IP packets.	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Session/ContextLimitNumRate

This table is used to limit the number of concurrnt sessions of context

XML structure

```
<Session>
  <ContextLimitNumRate>
      <ContextID></ContextID>
      <MaxNumber></MaxNumber>
      <MaxRate></MaxRate>
  </ContextLimitNumRate>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ContextLimitNumRate
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	The ID of context.	Index	Unsigned integer Value range: 1~64	N/A
MaxNumber	The Maxnumber of concurrnt sessions of context.	N/A	Unsigned integer Value range: 1~4294967295.	N/A
MaxRate	The Maxrate of concurrnt sessions of context.	N/A	Unsigned integer Value range: 1~4294967295.	N/A

Session/ExportIpv4Table

This table exports ipv4 session information to a file according to the specified conditions.

XML structure

```
<Session>
```

```
  <ExportIpv4Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </Session_Export>
  </ExportIpv4Table>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv4Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

Session/ExportIpv6Table

This table exports ipv6 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportIpv6Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </Session_Export>
  </ExportIpv6Table>
```

```
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv6Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

Session/LoadBalance

This table contains dual-active configuration.

XML structure

```
<Session>
  <LoadBalance>
    <LoadBalanceEnable></LoadBalanceEnable>
    <HashMode></HashMode>
    <UDPEnable></UDPEnable>
    <StateMachine></StateMachine>
  </LoadBalance>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	LoadBalance

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadBalanceEnable	Whether enable session dual-active mode.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
HashMode	Set the session create mode.	N/A	Enumeration: • **0**—local. • **1**—hash.	When asymmetric-path traffic exists in a hot backup system operating in session active/standby mode, set the mode of session state machine to loose to avoid abnormal traffic loss.
UDPEnable	Whether enable transparent transmission for UDP pachets.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StateMachine	Set the mode of session state machine to compact	N/A	Enumeration: • **0**—compact. • **1**—loose	N/A

Session/ExportTableByWeb

This table exports ipv4/6 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportTableByWeb>
    <Session_Export>
      <Type></Type>
      <FileName></FileName>
      <ExpEnable></ExpEnable>
    </Session_Export>
  </ExportTableByWeb>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ExportTableByWeb
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Session type.	N/A	Enumeration: • 0—IPv4 Session. • 1—IPv6 Session.	N/A
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
ExpEnable	Whether the file write operation is complate.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

SESSION/IPv4topCountEnable

This table contains top IPv4 session statistics.

XML structure

```
<Session>
  <IPv4TopCountSwitch>
    <EnableTop></EnableTop>
  </IPv4TopCountSwitch>
</Session>
```

Table description

Item	**Description**
Feature name	Session
Table name	IPv4TopCountSwitch
Table type	Single-instance table
Row name	

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableTop	Whether to enable top IPv4 session statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

SESSION/IPv6topCountEnable

This table contains top IPv6 session statistics.

XML structure

```
<Session>
  <IPv6TopCountSwitch>
    <EnableTop></EnableTop>
  </IPv6TopCountSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv6TopCountSwitch
Table type	Single-instance table
Row name	
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableTop	Whether to enable top IPv6 session statistics	N/A	Boolean: • true—YES • false—NO(default).	N/A

Session/IPv4TopCountPolicy

This table contains information about the top IPv4 session statistics policy.

XML structure

```
<Session>
  <IPv4TopCountPolicy>
    <SourceSubnetIP></SourceSubnetIP>
    <SourceSubnetMask></SourceSubnetMask>
    <DestinationSubnetIP></DestinationSubnetIP>
    <DestinationSubnetMask></DestinationSubnetMask>
    <SaveMode></SaveMode>
  </IPv4TopCountPolicy>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv4TopCountPolicy
Table type	Singel-instance table
Row name	
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceSubnetIP	Source IPv4 subnet address	N/A	IPv4: String, dotted decimal notation.	N/A
SourceSubnetMask	Mask length of the subnet	N/A	Unsigned integer. Value range: 16 to 32.	N/A
DestinationSubnetIP	Destination IPv4 subnet address	N/A	IPv4: String, dotted decimal notation.	N/A
DestinationSubnetMask	Mask length of the subnet	N/A	Unsigned integer. Value range: 16 to 32.	N/A

SaveMode	Save mode	N/A	Unsigned integer. Enumeration: 0— disk	N/A

Session/IPv6TopCountPolicy

This table contains information about the top IPv6 session statistics policy.

XML structure

```
<Session>
  <IPv6TopCountPolicy>
    <SourceSubnetIPv6></SourceSubnetIPv6>
    <SourceSubnetPrefixLen></SourceSubnetPrefixLen>
    <DestinationSubnetIPv6></DestinationSubnetIPv6>
    <DestinationSubnetPrefixLen></DestinationSubnetPrefixLen>
    <SaveMode></SaveMode>
  </IPv6TopCountPolicy>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	IPv6TopCountPolicy
Table type	Singel-instance table
Row name	
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceSubnetIPv6	Source IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
SourceSubnetPrefixLen	PrefixLen length of the global subnet	N/A	Unsigned integer. Value range: 96 to 128.	N/A
DestinationSubnetIPv6	Destination IPv6 address subnet	N/A	Hexadecimal string, colon-separated.	N/A
DestinationSubnetPrefixLen	PrefixLen length of the global	N/A	Unsigned integer. Value range: 96 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	subnet		128.	
SaveMode	Save mode	N/A	Unsigned integer. Enumeration: 0— disk	N/A

Contents

Comware 7 Session NETCONF XML API Error Message Reference ····· 1
Session/ConnectionLimit/Ipv4LimitRules ····· 1
Session/ConnectionLimit/Ipv6LimitRules ····· 1
Session/TopStatistics/Switch ····· 2
Session/Ipv4LogOnInterZones ····· 2
Session/Ipv6LogOnInterZones ····· 2
Session/TrafficLogFlowBegin ····· 2
Session/TrafficLogThreshold ····· 3
Session/HotBackup ····· 3
Session/ProtocolHotBackup ····· 3

Comware 7 Session NETCONF XML API Error Message Reference

Session/ConnectionLimit/Ipv4LimitRules

Message	Explanation
ACL name must start with an English letter, and it can't be the word 'all'. ACL名称不能为'all',且必须以字母开头。	ACL ipv4 name must start with an English letter, and it can't be the word 'all'(not case sensitive). ACL ipv4名称不能为'all'(不区分大小写),且必须以英文字母开头。
A number or a name is required for the ACL. ACL编号和ACL名称必须且只能配置其中一个。	**1.** A number or a name is required for the ACL ACL 编号和 ACL 名称有且只能有一个。 **2.** Operation Replace not allowed to replace from ACL number to ACL name or from ACL name to ACL number. Replace 操作不能从 ACL 编号替换到 ACL 名称，也不能从 ACL 名称切换到 ACL 编号。
The low and high thresholds are required. 触发阈值和恢复阈值都必须配置。	HighThreshold and LowThreshold are required and not equal to zero. 触发阈值和恢复阈值都必须配置且不能配为 0。
Low threshold can't be greater than high threshold. 触发阈值不能小于恢复阈值。	Low threshold can't be greater than high threshold. 触发阈值不能小于恢复阈值。
Another connection limit rule is using the ACL. 此ACL已经被其它规则引用。	An ACL rule can only be applied by one connection limit rule. 一个ACL只允许被一个连接数限制规则所引用。

Session/ConnectionLimit/Ipv6LimitRules

Message	Explanation
ACL name must start with an English letter, and it can't be the word 'all'. ACL名称不能为'all',且必须以字母开头。	ACL ipv6 name must start with an English letter, and it can't be the word 'all'(not case sensitive). ACL ipv6名称不能为'all'(不区分大小写),且必须以英文字母开头。
A number or a name is required for the ACL. ACL编号和ACL名称必须且只能配置其中一个。	**1.** A number or a name is required for the ACL. ACL 编号和 ACL 名称有且只能有一个。 **2.** Operation Replace not allowed to replace from ACL number to ACL name or from ACL name to ACL number. Replace 操作不能从 ACL 编号替换到 ACL 名称，也不能从 ACL 名称切换到 ACL 编号。
The low and high thresholds are required. 触发阈值和恢复阈值都必须配置。	HighThreshold and LowThreshold are required and not equal to zero. 触发阈值和恢复阈值都必须配置且不能配为 0。
Low threshold can't be greater than high threshold. 触发阈值不能小于恢复阈值。	Low threshold can't be greater than high threshold. 触发阈值不能小于恢复阈值。
Another connection limit rule is using the ACL. 此ACL已经被其它规则引用。	An ACL rule can only be applied by one connection limit rule. 一个ACL只允许被一个连接数限制规则所引用。

Session/TopStatistics/Switch

Message	Explanation
The operation is not supported on this the device. 该设备不支持此操作。	Session top statistics not be supported by this device. 该设备不支持头部会话统计功能。
The stop process is running. Please try it later. 关闭操作尚未执行完毕，请稍后重试。	Operation undo enable is processing. Undo 操作正在处理中。

Session/Ipv4LogOnInterZones

Message	Explanation
The specified source security zone doesn't exist. 指定的源安全域并不存在。	The security zone must exist before being configured as source zone. 指定的源安全域必须已经存在。
The specified destination security zone doesn't exist. 指定的目的安全域并不存在。	The security zone must exist before being configured as destination zone. 指定的目的安全域必须已经存在。
This device doesn't support session traffic log enable { ipv4 | ipv6 }. 当前设备不支持更改会话日志流开关。	This device doesn't support session traffic log. 当前设备不支持会话日志流功能。

Session/Ipv6LogOnInterZones

Message	Explanation
The specified source security zone doesn't exist. 指定的源安全域并不存在。	The security zone must exist before being configured as source zone. 指定的源安全域必须已经存在。
The specified destination security zone doesn't exist. 指定的目的安全域并不存在。	The security zone must exist before being configured as destination zone. 指定的目的安全域必须已经存在。
This device doesn't support session traffic log enable { ipv4 | ipv6 }. 当前设备不支持更改会话日志流开关。	This device doesn't support session traffic log. 当前设备不支持会话日志流功能。

Session/TrafficLogFlowBegin

Message	Explanation
This device doesn't support session traffic log flow-begin. 当前设备不支持输出会话新建日志。	This device doesn't support session traffic log flow-begin. 当前设备不支持输出会话新建日志。

Session/TrafficLogThreshold

Message	Explanation
This device doesn't support session traffic log threshold. 当前设备不支持更改会话日志输出阈值。	This device doesn't support modify session traffic log threshold. 当前设备不支持更改会话日志输出阈值。

Session/HotBackup

Message	Explanation
This device doesn't support hotbackup function. 当前设备不支持热备功能。	Some devices dose not support backup session or eim entries. 有一部分设备不支持会话和Eim表项备份功能。

Session/ProtocolHotBackup

Message	Explanation
This device doesn't support hotbackup function. 当前设备不支持热备功能。	Some devices dose not support backup session or eim entries (for dns and http). 有一部分设备不支持会话和Eim表项备份功能（对于dns和http协议的表项）。

Contents

SFLOW 1
SFOW/sFlowClearCollector 1
XML structure 1
Table description 1
Columns 1

SFLOW

SFOW/sFlowClearCollector

This table is used to clear the dynamic collectors of sflow.

XML structure

```
<SFLOW>
  <sFlowClearCollector>
    <ClearCollector>
      <CollectorID></CollectorID>
    </ClearCollector>
  </sFlowClearCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowClearCollector
Table type	Multi-instance table
Row name	ClearCollector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The MaxCollectorID depends on the device model.

Contents

SFLOW 1
SFLOW/sFlowCollector 1
XML structure 1
Table description 1
Columns 2
SFLOW/sFlowFlowSampler 3
XML structure 3
Table description 3
Columns 4
SFLOW/sFlowCounterSampler 5
XML structure 5
Table description 5
Columns 5
SFLOW/sFlowConfig 6
XML structure 6
Table description 7
Columns 7
SFLOW/sFlowFlowInstance 7
XML structure 7
Table description 8
Columns 8
SFLOW/sFlowCounterInstance 9
XML structure 9
Table description 10
Columns 10

SFLOW

SFLOW/sFlowCollector

This table contains SFLOW collector configuration information.

XML structure

```
<SFLOW>
  <sFlowCollector>
    <Collector>
      <CollectorID></CollectorID>
      <VRF></VRF>
      <IpAddress></IpAddress>
      <Port></Port>
      <MaxDatagramSize></MaxDatagramSize>
      <Timeout></Timeout>
      <Description></Description>
      <Dscp></Dscp>
    </Collector>
  </sFlowCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCollector
Table type	Multi-instance table
Row name	Collector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
VRF	VRF instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	If the SFLOW host is on the public network, the length of characters is 0.
IpAddress	The IPv4 address or IPv6 address of sFlow Collector	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.	For the create and replace operations, IpAddress must be configured. For the merge operation, IpAddress must be configured only when the instance is not exist. For the delete and remove operations, IpAddress cannot be configured.
Port	UDP port of sFlow Collector	N/A	Unsigned integer. Value range: 1 to 65535. Default: 6343.	N/A
MaxDatagramSize	The max size of sFlow datagram	N/A	Unsigned integer. Value range: 200 to 3000. Default: 1400.	N/A
Timeout	The aging time of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647. Default: 0.	0 means the instance is static.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of sFlow Collector	N/A	String, case insensitive. Length: 1 to 127 characters.	For the create and replace operations, Description must be configured. For the merge operation, Description must be configured only when the instance is not exist.
Dscp	DSCP value of the sFlow packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A

SFLOW/sFlowFlowSampler

This table contains SFLOW sampler configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowSampler>
    <FlowSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
      <PacketSamplingDirection></PacketSamplingDirection>
    </FlowSampler>
  </sFlowFlowSampler>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowSampler
Table type	Multi-instance table

Row name	FlowSampler
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 3 Ethernet interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
PacketSamplingRate	sflow sampling-rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	Values of MinSamplerRate and MaxSamplerRate depend on the device model.
SamplingMode	SamplingMode of SFLOW	N/A	Unsigned integer. • **1**—random **.** • **2—**determine	The default value of SamplingMode depends on the device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketSamplingDirection	sFlow sampling direction	N/A	String. “both” “inbound” “outbound” Default: “both”	N/A

SFLOW/sFlowCounterSampler

This table contains SFLOW counter sampler configuration information.

XML structure

```
<SFLOW>
  <sFlowCounterSampler>
    <CounterSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <Interval></Interval>
    </CounterSampler>
  </sFlowCounterSampler>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterSampler
Table type	Multi-instance table
Row name	CounterSampler
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface. Layer 3 Ethernet interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
Interval	The interval of counter sampling	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled as default.

SFLOW/sFlowConfig

This table contains SFLOW config configuration information.

XML structure

```
<SFLOW>
  <sFlowConfig>
    <AgentIpAddress></AgentIpAddress>
    <SourceIpv4Address></SourceIpv4Address>
    <SourceIpv6Address></SourceIpv6Address>
  </sFlowConfig>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowAgent
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AgentIpAddress	The IPv4 address or IPv6 address of sFlow agent	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv4Address	The IPv4 address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv6Address	The IPv6 address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.

SFLOW/sFlowFlowInstance

This table contains sFlow flow instance configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowInstance>
    <FlowInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
```

```
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
    </FlowInstance>
  </sFlowFlowInstance>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowInstance
Table type	Multi-instance table
Row name	FlowInstance
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see ”Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.
PacketSamplingRate	Flow sampling rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	Values of MinSamplerRate and MaxSamplerRate vary by device model.
SamplingMode	Flow sampling mode	N/A	Unsigned integer. • **1**—random. • **2—**determine.	The default value of SamplingMode varies by device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A

SFLOW/sFlowCounterInstance

This table contains SFLOW counter instance configuration information.

XML structure

```
<SFLOW>
  <sFlowCounterInstance>
    <CounterInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <Interval></Interval>
    </CounterInstance>
  </sFlowCounterInstance>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterInstance
Table type	Multi-instance table
Row name	CounterInstance
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see ”Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Counter sampling interval	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled by default.

Contents

SFLOW 1
SFLOW/sFlowCollector 1
XML structure 1
Table description 1
Columns 2
SFLOW/sFlowFlowSampler 2
XML structure 3
Table description 3
Columns 3
SFLOW/sFlowCounterSampler 4
XML structure 4
Table description 5
Columns 5
SFLOW/sFlowConfig 6
XML structure 6
Table description 6
Columns 6
SFLOW/sFlowSpecification 7
XML structure 7
Table description 7
Columns 8
SFLOW/sFlowFlowInstance 8
XML structure 8
Table description 8
Columns 9
SFLOW/sFlowCounterInstance 10
XML structure 10
Table description 10
Columns 11

SFLOW

SFLOW/sFlowCollector

This table contains SFLOW collector configuration information.

XML structure

```
<SFLOW>
  <sFlowCollector>
    <Collector>
      <CollectorID></CollectorID>
      <VRF></VRF>
      <IpAddress></IpAddress>
      <Port></Port>
      <MaxDatagramSize></MaxDatagramSize>
      <Timeout></Timeout>
      <AgeTime></AgeTime>
      <Description></Description>
      <Dscp></Dscp>
    </Collector>
  </sFlowCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCollector
Table type	Multi-instance table
Row name	Collector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
VRF	VRF instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	If the SFLOW host is on the public network, the length of characters is 0.
IpAddress	The IPv4address or IPv6address of sFlow Collector	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.	N/A
Port	UDP port of sFlow Collector	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MaxDatagramSize	The max size of sFlow datagram	N/A	Unsigned integer. Value range: 200 to 3000.	N/A
Timeout	The agetime of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647.	0 means the instance is static.
AgeTime	The remaining aging time of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647.	N/A
Description	Description of sFlow Collector	N/A	String, case insensitive. Length: 1 to 127 characters.	N/A
Dscp	DSCP value of the sFlow packets	N/A	Unsigned integer. Value range: 0 to 63.	N/A

SFLOW/sFlowFlowSampler

This table contains SFLOW sampler configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowSampler>
    <FlowSampler>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
      <Status></Status>
      <PacketSamplingDirection></PacketSamplingDirection>
    </FlowSampler>
  </sFlowFlowSampler>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowSampler
Table type	Multi-instance table
Row name	FlowSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 3 Ethernet interface

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
PacketSamplingRate	sflow sampling-rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	The values of MinSamplerRate and MaxSamplerRate depend on the device model.
SamplingMode	SamplingMode of SFLOW	N/A	Unsigned integer. • **1**—random **.** • **2—**determine	The default value of SamplingMode depends on the device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A
Status	Status of SFLOW	N/A	**Unsigned integer.** • **0—**Suspended**.** • **1—Active**	N/A
PacketSamplingDirection	sFlow sampling direction	N/A	String. “both” “inbound” “outbound” Default: “both”	N/A

SFLOW/sFlowCounterSampler

This table contains SFLOW counter sampler configuration information.

XML structure

```
<SFLOW>
```

```
  <sFlowCounterSampler>
    <CounterSampler>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <CollectorID></CollectorID>
      <Interval></Interval>
      <Status></Status>
    </CounterSampler>
  </sFlowCounterSampler>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterSampler
Table type	Multi-instance table
Row name	CounterSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface. Layer 3 Ethernet interface.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The interval of counter sampling	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled as default.
Status	Status of SFLOW	N/A	**Unsigned integer.** • **0—**Suspended**.** • **1—**Active	N/A

SFLOW/sFlowConfig

This table contains SFLOW config configuration information.

XML structure

```
<SFLOW>
  <sFlowConfig>
    <AgentIpAddress></AgentIpAddress>
    <SourceIpv4Address></SourceIpv4Address>
    <SourceIpv6Address></SourceIpv6Address>
  </sFlowConfig>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowAgent
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AgentIpAddress	The IPv4address or IPv6address of sFlow agent	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv4Address	The IPv4address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv6Address	The IPv6address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.

SFLOW/sFlowSpecification

This table contains SFLOW specification information.

XML structure

```
<SFLOW>
  <sFlowSpecification>
    <MaxCollectorID></MaxCollectorID>
    <MinSamplerRate></MinSamplerRate>
    <MaxSamplerRate></MaxSamplerRate>
    <DefaultSamplerMode></DefaultSamplerMode>
  </sFlowSpecification>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxCollectorID	The maximum of CollectorID.	N/A	Unsigned integer.
MinSamplerRate	The minimum of samplerRate.	N/A	Unsigned integer.
MaxSamplerRate	The maximum of SamplerRate.	N/A	Unsigned integer.
DefaultSamplerMode	The default of SamplerMode	N/A	Unsigned integer.

SFLOW/sFlowFlowInstance

This table contains sFlow flow instance configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowInstance>
    <FlowInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
      <Status></Status>
    </FlowInstance>
  </sFlowFlowInstance>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowInstance
Table type	Multi-instance table
Row name	FlowInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.
PacketSamplingRate	Flow sampling rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	The values of MinSamplerRate and MaxSamplerRate vary by device model.
SamplingMode	Flow sampling mode	N/A	Unsigned integer. • **1**—random. • **2—**determine.	The default value of SamplingMode varies by device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of sFlow	N/A	Unsigned integer. • **0**—Suspended. • **1**—Active.	N/A

SFLOW/sFlowCounterInstance

This table contains sFlow counter instance configuration information.

XML structure

```
<SFLOW>
  <sFlowCounterInstance>
    <CounterInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <Interval></Interval>     <Status></Status>
    </CounterInstance>
  </sFlowCounterInstance>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterInstance
Table type	Multi-instance table
Row name	CounterInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.
Interval	Counter sampling interval	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled by default.
Status	Status of sFlow	N/A	Unsigned integer. • **0**—Suspended. • **1**—Active.	N/A

Contents

SFLOW 1
SFLOW/sFlowCollector 1
SFLOW/sFlowFlowSampler 1
SFLOW/sFlowCounterSampler 2
SFLOW/sFlowConfig 2
SFLOW/sFlowSpecification 2
SFLOW/sFlowFlowInstance 2
SFLOW/sFlowCounterInstance 3
SFOW/sFlowClearCollector 3

SFLOW

SFLOW/sFlowCollector

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid IP address, please modify configuration under guidance. 非法的IP地址，请按照配置指导进行配置
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围，请按照配置指导进行配置
Configuration items don't meet the requirements. 不符合配置要求。	Configuration items don't meet the requirements, please modify configuration under guidance. 不符合配置要求，请按照配置指导进行配置
The same IP address already exists. 相同的IP地址已经存在。	Same configuration has existed when creating a new configuration. 相同的IP地址已经存在。请按照配置指导进行配置
The same IPv6 address already exists. 相同的IPV6地址已经存在。	Same configuration has existed when creating a new configuration. 相同的IPV6地址已经存在。请按照配置指导进行配置
Invalid IPv6 address. 非法的IPV6地址。	Invalid configuration, please modify configuration under guidance. 非法的IPV6地址。请按照配置指导进行配置

SFLOW/sFlowFlowSampler

Message	Explanation
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围，请按照配置指导进行配置
The collector ID is already binded 此collector ID已经被绑定。	The collector ID is already binded, please modify configuration under guidance. 此collector ID已经被绑定，请按照配置指导进行配置

SFLOW/sFlowCounterSampler

Message	Explanation
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围。请按照配置指导进行配置
The collector ID is already binded 此collector ID已经被绑定。	The collector ID is already binded, please modify configuration under guidance. 此collector ID已经被绑定。请按照配置指导进行配置

SFLOW/sFlowConfig

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid IP address, please modify configuration under guidance. 非法的IP地址。请按照配置指导进行配置
Invalid IPv6 address. 非法的IPV6地址。	Invalid IPv6 address, please modify configuration under guidance. 非法的IPV6地址，请按照配置指导进行配置

SFLOW/sFlowSpecification

Message	Explanation

SFLOW/sFlowFlowInstance

Message	Explanation
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围。请按照配置指导进行配置
The collector ID is already binded 此collector ID已经被绑定。	The collector ID is already binded, please modify configuration under guidance. 此collector ID已经被绑定。请按照配置指导进行配置

SFLOW/sFlowCounterInstance

Message	Explanation
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围。请按照配置指导进行配置
The collector ID is already binded 此collector ID已经被绑定。	The collector ID is already binded, please modify configuration under guidance. 此collector ID已经被绑定。请按照配置指导进行配置

SFOW/sFlowClearCollector

Message	Explanation
The value is out of range. 参数值超出范围。	The value is out of range, please modify configuration under guidance. 参数值超出范围。请按照配置指导进行配置

Contents

SIB 1
SIB/TotalBroadcast 1
XML structure 1
Table description 1
Columns 1
SIB/SingleBroadcasts 2
XML structure 2
Table description 2
Columns 2
SIB/TotalMulticast 3
XML structure 3
Table description 3
Columns 3
SIB/SingleMulticasts 3
XML structure 4
Table description 4
Columns 4
SIB/Capability 4
XML structure 5
Table description 5
Columns 5

SIB

SIB/TotalBroadcast

This table contains the total maximum broadcast throughput for contexts in the inbound direction.

XML structure

```
<SIB>
  <TotalBroadcast>
    <Value></Value>
  </TotalBroadcast>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	TotalBroadcast
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Value	Total maximum broadcast throughput for contexts in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.

SIB/SingleBroadcasts

This table contains the maximum broadcast throughput per context in the inbound direction.

XML structure

```
<SIB>
  <SingleBroadcasts>
    <SingleBroadcast>
      <ContextID></ContextID>
      <ConfigValue></ConfigValue>
    </SingleBroadcast>
  </SingleBroadcasts>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	SingleBroadcasts
Table type	Multi-instance table
Row name	SingleBroadcast
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextID	Context ID	Index	Unsigned integer. Value range: 1 to 65535.
ConfigValue	Maximum broadcast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 1000 to 100000.

SIB/TotalMulticast

This table contains the total maximum multicast throughput for contexts in the inbound direction.

XML structure

```
<SIB>
  <TotalMulticast>
    <Value></Value>
  </TotalMulticast>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	TotalMulticast
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Value	Total maximum multicast throughput for contexts in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.

SIB/SingleMulticasts

This table contains the maximum multicast throughput per context in the inbound direction.

XML structure

```
<SIB>
  <SingleMulticasts>
    <SingleMulticast>
      <ContextID></ContextID>
      <ConfigValue></ConfigValue>
    </SingleMulticast>
  </SingleMulticasts>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	SingleMulticasts
Table type	Multi-instance table
Row name	SingleMulticast
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextID	Context ID	Index	Unsigned integer. Value range: 1 to 65535.
ConfigValue	Maximum multicast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 1000 to 100000.

SIB/Capability

This table indicates whether logging is enabled for packets dropped because of capability limits on contexts.

XML structure

```
<SIB>
  <Capability>
    <LOG></LOG>
  </Capability>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LOG	Whether logging is enabled for packets dropped because of capability limits on contexts	N/A	Enumeration: • **1**—Enable the logging function. • **2**—Disable the logging function.

Contents

SIB 1
SIB/TotalBroadcast 1
XML structure 1
Table description 1
Columns 1
SIB/SingleBroadcasts 1
XML structure 2
Table description 2
Columns 2
SIB/TotalMulticast 3
XML structure 3
Table description 3
Columns 3
SIB/SingleMulticasts 3
XML structure 3
Table description 4
Columns 4
SIB/Capability 4
XML structure 5
Table description 5
Columns 5

SIB

SIB/TotalBroadcast

This table contains the total maximum broadcast throughput for contexts in the inbound direction.

XML structure

```
<SIB>
  <TotalBroadcast>
    <Value></Value>
  </TotalBroadcast>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	TotalBroadcast
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Value	Total maximum broadcast throughput for contexts in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.

SIB/SingleBroadcasts

This table contains the maximum broadcast throughput per context in the inbound direction.

XML structure

```
<SIB>
  <SingleBroadcasts>
    <SingleBroadcast>
      <ContextID></ContextID>
      <ConfigValue></ConfigValue>
      <RunningValue></RunningValue>
    </SingleBroadcast>
  </SingleBroadcasts>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	SingleBroadcasts
Table type	Multi-instance table
Row name	SingleBroadcast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextID	Context ID	Index	Unsigned integer. Value range: 1 to 65535.
ConfigValue	Configured maximum broadcast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.
RunningValue	Effective maximum broadcast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 to 100000.

SIB/TotalMulticast

This table contains the total maximum multicast throughput for contexts in the inbound direction.

XML structure

```
<SIB>
  <TotalMulticast>
    <Value></Value>
  </TotalMulticast>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	TotalMulticast
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Value	Total maximum multicast throughput for contexts in the inbound direction	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.

SIB/SingleMulticasts

This table contains the maximum multicast throughput per context in the inbound direction.

XML structure

```
<SIB>
  <SingleMulticasts>
```

```
    <SingleMulticast>
      <ContextID></ContextID>
      <ConfigValue></ConfigValue>
      <RunningValue></RunningValue>
    </SingleMulticast>
  </SingleMulticasts>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	SingleMulticasts
Table type	Multi-instance table
Row name	SingleMulticast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextID	Context ID	Index	Unsigned integer. Value range: 1 to 65535.
ConfigValue	Configured maximum multicast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 and 1000 to 100000.
RunningValue	Effective maximum multicast throughput per context in the inbound direction, in pps	N/A	Unsigned integer. Value range: 0 to 100000.

SIB/Capability

This table indicates whether logging is enabled for packets dropped because of capability limits on contexts.

XML structure

```
<SIB>
  <Capability>
    <LOG></LOG>
  </Capability>
</SIB>
```

Table description

Item	Description
Feature name	SIB
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LOG	Whether logging is enabled for packets dropped because of capability limits on contexts	N/A	Enumeration: • **1**—The logging function is enabled. • **2**—The logging function is disabled.

Contents

SLB 1
SLB/ProtectionPolicies 1
XML structure 1
Table description 1
Columns 1
SLB/HTTPRules 2
XML structure 2
Table description 2
Columns 3
SLB/VirtualServerWhiteDomains 3
XML structure 3
Table description 4
Columns 4
SLB/HTTPTrustedProxy 4
XML structure 4
Table description 5
Columns 5
SLB/GenericActionPayloadRewrites 7
XML structure 7
Table description 7
Columns 8
SLB/RealServerExternalMonitors 8
XML structure 9
Table description 9
Columns 9
SLB/VirtualServerSSLServerPolicies 9
XML structure 9
Table description 10
Columns 10

SLB

SLB/ProtectionPolicies

This table contains information about protection policies.

XML structure

```
<SLB>
  <ProtectionPolicies>
    <ProtectionPolicy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Warning></Warning>
      <Drop></Drop>
      <Verify></Verify>
    </ProtectionPolicy>
  </ProtectionPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ProtectionPolicies
Table type	Multi-instance table
Row name	ProtectionPolicy
Restrictions	Only protection policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the protection policy.	N/A	Enumeration: • 0—HTTP	When a protection policy is created, the column must be specified. Once created, this column cannot be changed.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description for the protection policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Warning	Enable warning action of the protection policy.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Drop	Enable drop action of the protection policy.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	This column cannot be configured with Verify together.
Verify	Enable verify action of the protection policy	N/A	Enumeration: • 0—Not configured. • 1—Insert header. • 2—Inject JS.	This column cannot be configured with Drop together.

SLB/HTTPRules

This table contains information about HTTP protection policy rules.

XML structure

```
<SLB>
  <HTTPRules>
    <HTTPRule>
      <Name></Name>
      <RuleID></RuleID>
      <URL></URL>
      <StatTime></StatTime>
      <IPReqThreshold></IPReqThreshold>
      <JsidReqThreshold></JsidReqThreshold>
      <CookieName></CookieName>
    <HTTPRule>
  </HTTPRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPRules
Table type	Multi-instance table

Row name	HTTPRule
Restrictions	Only protection policy rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	ID of the protection policy rule	Index	Unsigned integer. Value range: 1 to 65535.	N/A
URL	Regular expression of the protection URL.	N/A	String. Length: 1 to 255 characters.	N/A
StatTime	Statistical duration	N/A	Unsigned integer. Value range: 1 to 900. By default, the value is 120.	N/A
IPReqThreshold	IP threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
JsidReqThreshold	Jsessionid threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	This column and CookieName must be configured together.
CookieName	Cookie name of the Jsessionid	N/A	String. Length: 0 to 63 characters.	This column and Jsid-ReqThreshold must be configured together.

SLB/VirtualServerWhiteDomains

This table contains white domain information.

XML structure

```
<SLB>
  <VirtualServerWhiteDomains>
    <VirtualServerWhiteDomain>
      <Name></Name>
      <WhiteDomain></WhiteDomain>
    </VirtualServerWhiteDomain>
  </VirtualServerWhiteDomains>
```

```
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VirtualServerWhiteDomains
Table type	Multi-instance table
Row name	VirtualServerWhiteDomain
Restrictions	Only skylight exernal link rewrite white domain can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhiteDomain	White domain of the skylight external link	Index	String, case-insensitive. Length: 1 to 253 characters.	Example:a.com The string can contain letters, numbers, hyphens (-), underscores (_), and dot (.). This column can only be configured when the Type is HTTP (0)

SLB/HTTPTrustedProxy

This table contains information about HTTP trusted proxy.

XML structure

```
<SLB>
  <HTTPTrustedProxy>
    <Proxy>
      <Name></Name>
      <Type></Type>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Policy></Policy>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
```

```
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
      <ServiceEnable></ServiceEnable>
      <LimitPolicy></LimitPolicy>
      <AppProfile></AppProfile>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <TrustedAccessController></TrustedAccessController>
      <TrustedAccessControllerType></TrustedAccessControllerType>
    </Proxy>
  </HTTPTrustedProxy>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPTrustedProxy
Table type	Multi-instance table
Row name	Proxy
Restrictions	Only HTTP trusted proxy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the trusted proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the trusted proxy.	N/A	Enumeration: • 0—SP-APP. • 1—SP-API	When a trusted proxy is created, the column must be specified. Once created, this column cannot be changed.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 80.	N/A
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the trusted proxy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can be configured only when the type is HTTP (0).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can only be configured when the type is HTTP (0).
ServiceEnable	Enable the trusted proxy.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
TrustedAccessController	Name of the trusted access controller.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TrustedAccessControllerType	Type of the trusted access controller	N/A	Enumeration: • 0—None(default) • 1—IAM	When a trusted access controller is created, the column must be specified. Once created, this column cannot be changed.

SLB/GenericActionPayloadRewrites

This table contains information about the payload rewrite generic action.

XML structure

```
<SLB>
  <GenericActionPayloadRewrites>
    <GenericActionPayloadRewrite>
      <ActionName></ActionName>
      <PayloadRewriteDirection></PayloadRewriteDirection>
      <PayloadRewriteExpress></PayloadRewriteExpress>
      <PayloadRewritePattern></PayloadRewritePattern>
    <GenericActionPayloadRewrite>
  </GenericActionPayloadRewrites>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	GenericActionPayloadRewrites
Table type	Multi-instance table
Row name	GenericActionPayloadRewrite
Restrictions	Only generic action payload rewrite information can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionName	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	The type of the action must be generic.
PayloadRewriteDirection	The direction of payload rewrite.	Index	Enumeration: • 0—Both. • 1—Request. • 2—Response.	N/A
PayloadRewriteExpress	The value will be rewritten in TCP payload.	Index	String. Length: 0 to 127 characters.	N/A
PayloadRewritePattern	The value will replace the designated TCP payload content.	N/A	String. Length: 0 to 127 characters. Support carrying the following variables: • %[variable], variable with which the variable server farm member is associated. • %[1-9], the content that matched PayloadRewriteExpress will be replaced by the corresponding %[1-9] (), for example: PayloadRewriteExpress = (Wel)(co)(me) PayloadRewritePattern= %2, the result will be “Welcome” is replaced by “co”	When a payload rewrite generic action is created, the column must be specified.

SLB/RealServerExternalMonitors

This table contains information about Real Server Probe that only uses External Monitor template.

XML structure

```
<SLB>
  <RealServerExternalMonitors>
    <RealServerExternalMonitor>
      <RealServer></RealServer>
      <ExternalMonitor></ExternalMonitor>
    </RealServerExternalMonitor>
  </RealServerExternalMonitors>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RealServerExternalMonitors
Table type	Multi-instance table
Row name	RealServerExternalMonitor
Restrictions	Only Real server external monitor can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ExternalMonitor	External monitor for the real server.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

SLB/VirtualServerSSLServerPolicies

This table contains information about Virtual Server SSL server policy

XML structure

```
<SLB>
  <VirtualServerSSLServerPolicies>
    <VirtualServerSSLServerPolicy>
      <VirtualServer></VirtualServer>
      <SSLServerPolicy></SSLServerPolicy>
      <SNI></SNI>
```

```
    </VirtualServerSSLServerPolicy>
  </VirtualServerSSLServerPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VirtualServerSSLServerPolicies
Table type	Multi-instance table
Row name	VirtualServerSSLServerPolicy
Restrictions	Only Virtual server ssl server policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServer	Name of the virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SSLServerPolicy	Name of the SSL server policy.	Index	String, case-insensitive. Length: 0 to 31 characters.	N/A
SNI	Name of server name indication	N/A	String, case-insensitive. Length: 0 to 253 characters.	N/A

Contents

SLB 1
SLB/ProtectionPolicies 1
XML structure 1
Table description 1
Columns 1
SLB/HTTPRules 2
XML structure 2
Table description 2
Columns 3
SLB/VirtualServerWhiteDomains 3
XML structure 3
Table description 4
Columns 4
SLB/HTTPTrustedProxy 4
XML structure 4
Table description 5
Columns 5
SLB/GenericActionPayloadRewrites 7
XML structure 7
Table description 7
Columns 7
SLB/VirtualServerStatsSummeries 8
XML structure 8
Table description 9
Columns 9
SLB/RealServerExternalMonitors 10
XML structure 10
Table description 10
Columns 11
SLB/VirtualServerSSLServerPolicies 11
XML structure 11
Table description 11
Columns 12
SLB/EvalutionsLinks 12
XML structure 12
Table description 12
Columns 13

SLB

SLB/ProtectionPolicies

This table contains information about protection policies.

XML structure

```
<SLB>
  <ProtectionPolicies>
    <ProtectionPolicy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Warning></Warning>
      <Drop></Drop>
      <Verify></Verify>
      <TotalCnt></TotalCnt>
    </ProtectionPolicy>
  </ProtectionPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ProtectionPolicies
Table type	Multi-instance table
Row name	ProtectionPolicy
Restrictions	Only protection policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the protection policy.	N/A	Enumeration: • 0—HTTP	When a protection policy is created, the column must be specified. Once created, this column cannot be changed.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description for the protection policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Warning	Enable warning action of the protection policy.	N/A	Enumeration: • 0—Disable • 1—Enable.	N/A
Drop	Enable drop action of the protection policy.	N/A	Enumeration: • 0—Disable • 1—Enable.	N/A
Verify	Enable verify action of the protection policy	N/A	• 0—Not configured. • 1—Insert header. • 2—Inject JS.	N/A
TotalCnt	Total number of Protection policy entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/HTTPRules

This table contains information about HTTP protection policy rules.

XML structure

```
<SLB>
  <HTTPRules>
    <HTTPRule>
      <Name></Name>
      <RuleID></RuleID>
      <URL></URL>
      <StatTime></StatTime>
      <IPReqThreshold></IPReqThreshold>
      <JsidReqThreshold></JsidReqThreshold>
      <CookieName></CookieName>
    <HTTPRule>
  </HTTPRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPRules

Table type	Multi-instance table
Row name	HTTPRule
Restrictions	Only protection policy rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	ID of the protection policy rule	Index	Unsigned integer. Value range: 1 to 65535.	N/A
URL	Regular expression of the protection URL.	N/A	String. Length: 1 to 255 characters.	N/A
StatTime	Statistical duration	N/A	Unsigned integer. Value range: 1 to 900.	N/A
IPReqThreshold	IP threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
JsidReqThreshold	Jsessionid threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	This column and CookieName must be configured together.
CookieName	Cookie name of the Jsessionid	N/A	String. Length: 0 to 63 characters.	This column and Jsid-ReqThreshold must be configured together.

SLB/VirtualServerWhiteDomains

This table contains white domain information.

XML structure

```
<SLB>
  <VirtualServerWhiteDomains>
    <VirtualServerWhiteDomain>
      <Name></Name>
      <WhiteDomain></WhiteDomain>
    </VirtualServerWhiteDomain>
  </VirtualServerWhiteDomains>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VirtualServerWhiteDomains
Table type	Multi-instance table
Row name	VirtualServerWhiteDomain
Restrictions	Only skylight exernal link rewrite white domain can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhiteDomain	White domain of the skylight external link	Index	String, case-insensitive. Length: 1 to 253 characters.	Example: a.com This column can only be configured when the Type is HTTP (0)

SLB/HTTPTrustedProxy

This table contains information about HTTP trusted proxy.

XML structure

```
<SLB>
  <HTTPTrustedProxy>
    <Proxy>
      <Name></Name>
      <Type></Type>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Policy></Policy>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
```

```
      <ServiceEnable></ServiceEnable>
      <LimitPolicy></LimitPolicy>
      <AppProfile></AppProfile>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <TrustedAccessController></TrustedAccessController>
      <TrustedAccessControllerType></TrustedAccessControllerType>
    </Proxy>
  </HTTPTrustedProxy>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPTrustedProxy
Table type	Multi-instance table
Row name	Proxy
Restrictions	Only HTTP trusted proxy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the trusted proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the trusted proxy.	N/A	Enumeration: • 0—SP-APP. • 1—SP-API	When a trusted proxy is created, the column must be specified. Once created, this column cannot be changed.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.
PortNumber	Port number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Policy	Name of the	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		case-insensitive. Length: 1 to 63 characters.	
TCPParameter	Parameter profile whose type is TCP for the trusted proxy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This colume is conflicted with TCPParameter colume,they cannot be confirgured both.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can be configured only when the type is HTTP (0).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can only be configured when the type is HTTP (0).
ServiceEnable	Enable the trusted proxy.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AppProfile	App profile name	N/A	String. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
TrustedAccessController	Name of the trusted access controller.	N/A	String, case-insensitive. Length: 1 to 63	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
TrustedAccessController Type	Type of the trusted access controller	N/A	Enumeration: • 0—None • 1—IAM	When a trusted access controller is created, the column must be specified. Once created, this column cannot be changed.

SLB/GenericActionPayloadRewrites

This table contains information about the payload rewrite generic action.

XML structure

```
<SLB>
  <GenericActionPayloadRewrites>
    <GenericActionPayloadRewrite>
      <ActionName></ActionName>
      <PayloadRewriteDirection></PayloadRewriteDirection>
      <PayloadRewriteExpress></PayloadRewriteExpress>
      <PayloadRewritePattern></PayloadRewritePattern>
    <GenericActionPayloadRewrite>
  </GenericActionPayloadRewrites>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	GenericActionPayloadRewrites
Table type	Multi-instance table
Row name	GenericActionPayloadRewrite
Restrictions	Only generic action payload rewrite information can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionName	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PayloadRewriteDirection	The direction of payload rewrite.	Index	Enumeration: • 0—Both. • 1—Request. • 2—Response.	N/A
PayloadRewriteExpress	The value will be rewritten in TCP payload.	Index	String. Length: 0 to 127 characters.	N/A
PayloadRewritePattern	The value will replace the designated TCP payload content.	N/A	String. Length: 0 to 127 characters. Support carrying the following variables: • %[variable], variable with which the variable server farm member is associated. • %[1-9], the content that matched PayloadRewriteExpress will be replaced by the corresponding %[1-9] (), for example: PayloadRewriteExpress = (Wel)(co)(me) PayloadRewritePattern= %2, the result will be “Welcome” is replaced by “co”	N/A

SLB/VirtualServerStatsSummeries

This table contains statistics about a virtual server.

XML structure

```
<SLB>
  <VirtualServerStatsSummeries>
    <VirtualServerStatsSummery>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TenSecTotalConnections></TenSecTotalConnections>
```

```
      <TenSecActiveConnections></TenSecActiveConnections>
      <TenSecTrafficBytes></TenSecTrafficBytes>
      <FiveMinTotalConnections></FiveMinTotalConnections>
      <FiveMinActiveConnections></FiveMinActiveConnections>
      <FiveMinTrafficBytes></FiveMinTrafficBytes>
    </VirtualServerStatsSummery>
  </VirtualServerStatsSummeries>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerStats
Table type	Multi-instance table
Row name	VirtualServerStat
Restrictions	Only stats of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
TenSecTotalConnections	Total connections that the virtual server received during the last 10 seconds.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
TenSecActiveConnections	Active connections that the virtual server received during the last 10 seconds.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TenSecTrafficBytes	Total traffic that the virtual server received during the last 10 seconds.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
FiveMinTotalConnections	Total connections that the virtual server received during the last five minutes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
FiveMinActiveConnections	Active connections that the virtual server received during the last five minutes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
FiveMinTrafficBytes	Total traffic that the virtual server received during the last five minutes.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A

SLB/RealServerExternalMonitors

This table contains information about Real Server Probe that only uses External Monitor template.

XML structure

```
<SLB>
  <RealServerExternalMonitors>
    <RealServerExternalMonitor>
      <RealServer></RealServer>
      <ExternalMonitor></ExternalMonitor>
      <ExternalMonitorState></ExternalMonitorState>
    </RealServerExternalMonitor>
  </RealServerExternalMonitors>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RealServerExternalMonitors

Table type	Multi-instance table
Row name	RealServerExternalMonitor
Restrictions	Only Real server external monitors can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ExternalMonitor	External monitor for the real server.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ExternalMonitorState	State of the real server external-monitor.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

SLB/VirtualServerSSLServerPolicies

This table contains information about Virtual Server SSL server policy

XML structure

```
<SLB>
  <VirtualServerSSLServerPolicies>
    <VirtualServerSSLServerPolicy>
      <VirtualServer></VirtualServer>
      <SSLServerPolicy></SSLServerPolicy>
      <SNI></SNI>
    </VirtualServerSSLServerPolicy>
  </VirtualServerSSLServerPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VirtualServerSSLServerPolicies
Table type	Multi-instance table

Row name	VirtualServerSSLServerPolicy
Restrictions	Only Virtual server ssl server policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServer	Name of the virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SSLServerPolicy	Name of the SSL server policy.	Index	String, case-insensitive. Length: 0 to 31 characters.	N/A
SNI	Name of server name indication	N/A	String, case-insensitive. Length: 0 to 253 characters.	N/A

SLB/EvalutionsLinks

This table contains information about evaluation link score.

XML structure

```
<SLB>
  <EvaluationsLinks>
    <EvaluationsLink>
      <Type></Type>
      <Quality></Quality>
      <Score></Score>
      <EvaluationNameList>
       <LinkName></LinkName>
       <Status></Status>
      </EvaluationNameList>
    </EvaluationsLink>
  </EvaluationsLinks>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	EvaluationsLinks

Table type	Multi-instance table
Row name	EvaluationsLink
Restrictions	Only evaluation link score can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the real server.	Index	Enumeration: • 0—RS. • 1—LINK	N/A
Quality	Quality of the link	N/A	Enumeration: • 0—Bad. • 1—Fine • 2—Excellent	N/A
Score	Score of the link.	N/A	Unsigned integer. Value range: 0 to100.	N/A
LinkName	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Status	Status of the link.	N/A	Enumeration: • 1—Normal. • 2—Busy • 3—NoData. • 4—Fault	N/A

Contents

SLB 1

SLB/ProtectionPolicies 1
SLB/HTTPRules 1
SLB/VirtualServerSSLServerPolicies 1

SLB

SLB/ProtectionPolicies

Message	Explanation
The protection policy name is used by another type. 防护策略名称与已存在的其他类型防护策略重名。	The protection policy name has been used by another type. 防护策略名称与已存在的其他类型防护策略重名。
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。

SLB/HTTPRules

Message	Explanation
The protection rule ID is used by another type. 防护规则ID与已存在的其他类型防护规则ID重复。	The protection rule ID has been used by another type. 防护规则 ID 与已存在的其他类型防护规则重复。
The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。	The command is not supported, because the license for server load balancing is not available. 因缺少License，不支持配置本参数。

SLB/VirtualServerSSLServerPolicies

Message	Explanation
The SSL server policy has already been SSL 服务端策略已配置。	The SSL server policy has already been configured. SSL 服务端策略已配置。
The server name indication has already been configured. 服务器名称指示已配置。	The server name indication has already been configured. 服务器名称指示已配置。
Maximum number (64) of SSL server policy with SNI already reached. 允许配置的SSL服务端策略(SNI)个数达到了最大值。	Maximum number (64) of SSL server policy with SNI already reached. 允许配置的SSL服务端策略(SNI)个数达到了最大值。

Contents

SLBG/Groups 1
XML structure 1
Table description 1
Columns 1
SLBG/Members 2
XML structure 2
Table description 2
Columns 3

SLBG

SLBG/Groups

This table contains information about service loopback groups.

XML structure

```
<SLBG>
  <SLBGGroups>
    <SLBGGroup>
      <GroupId></GroupId>
      <ServiceType></ServiceType>
    </SLBGGroup>
  </SLBGGroups>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG
Table name	SLBGGroups
Table type	Multi-instance table
Row name	SLBGGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Service loopback group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type of the service loopback group	N/A	Unsigned integer. Default: 1.	Required. You cannot change the service type of a service loopback group. You can configure only one service loopback group for a service type. A service loopback group supports one of the following services: • **1**—Tunnel service. • **2**—Multicast tunnel service. • **3**—Tunnel service and multicast tunnel service. • **4**—Multiport service. • **8**—VSI gateway service. • **16**—Telemetry stream service. • **32**—Inter-VPN forwarding service. • **64**—Telemetry mod service. • **128**—Mirror service.

SLBG/Members

This table contains member port information for service loopback groups.

XML structure

```
<SLBG>
  <SLBGMembers>
    <SLBGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
    </SLBGMember>
  </SLBGMembers>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG.
Table name	SLBGMembers.

Table type	Multi-instance table.
Row name	SLBGMember.
Restrictions	This table supports only Layer 2 Ethernet interfaces and IRF physical interfaces.
Support for row creation and deletion	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Member port index	Index	Unsigned integer.	Interface name or index Some versions support interface name. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
GroupId	Service loopback group ID	N/A	Unsigned integer. Value range: 1 to 1024.	Required. You can add a port to only one service loopback group.

Contents

SLBG 1
SLBG/Groups 1
XML structure 1
Table description 1
Columns 1
SLBG/Members 2
XML structure 2
Table description 2
Columns 3

SLBG

SLBG/Groups

This table contains information about service loopback groups.

XML structure

```
<SLBG>
  <SLBGGroups>
    <SLBGGroup>
      <GroupId></GroupId>
      <ServiceType></ServiceType>
      <MemberList></MemberList>
    </SLBGGroup>
  </SLBGGroups>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG
Table name	SLBGGroups
Table type	Multi-instance table
Row name	SLBGGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Service loopback group ID	Index	Unsigned integer. Value range: 1 to 1024.
ServiceType	Service type of the service loopback group	N/A	Unsigned integer. Default: 1. A service loopback group supports one of the following services: • **1**—Tunnel service. • **2**—Multicast tunnel service. • **3**—Tunnel service and multicast tunnel service.

			• **4**—Multiport service. • **8**—VSI gateway service. • **16**—Telemetry stream service. • **32**—Inter-VPN forwarding service. • **64**—Telemetry mod service. • **128**—Mirror service.
MemberList	Member list	N/A	Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, and so on. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Each port of the device is represented by a single bit within the value of this object. If that bit has a value of 1, the port is included in the set of ports. The port is not included if its bit has a value of 0.

SLBG/Members

This table contains member port information for service loopback groups.

XML structure

```
<SLBG>
  <SLBGMembers>
    <SLBGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
      <SelectedStatus></SelectedStatus>
    </SLBGMember>
  </SLBGMembers>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG.
Table name	SLBGMembers.
Table type	Multi-instance table.
Row name	SLBGMember.
Restrictions	This table supports only Layer 2 Ethernet interfaces and IRF physical interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Member port index	Index	Unsigned integer.
GroupId	Service loopback group ID	N/A	Unsigned integer. Value range: 1 to 1024.
SelectedStatus	Selected status of the member port	N/A	Enumeration: • 0—Unselected. • 1—Selected.

Contents

SLBG 1
SLBG/Groups 1
SLBG/Members 1

SLBG

SLBG/Groups

Message	Explanation
A service loopback group of this type already exists. 该类型的业务环回组已经存在。	A system can only have a type of service group.
Can not modify service type of the service loopback group. 不允许修改业务环回组的业务类型。	The type of a service group can not be changed.

SLBG/Members

Message	Explanation
%s has been assigned to another service loopback group. %s已经加入其他业务环回组。	A interface can only assigned to a service group.
The service loopback group doesn't exist. 指定的业务环回组不存在。	The group the port assigned to does not exist.
The port can't be assigned to a service loopback group. 接口不能加入业务环回组。	The port can't be assigned to a service loopback group.
Failed to switch the port type. 切换接口类型失败。	Failed to switch the port type.

Contents

SmartMC 1
SmartMC/StartProgress 1
XML structure 1
Table description 1
Columns 1

SmartMC

SmartMC/StartProgress

This table contains SmartMC process information.

The StartProgress table does not support create or replace operations.

XML structure

```
<SmartMC>
  <StartProgress>
    <Role></Role>
    <Username></Username>
    <Password></Password>
  </StartProgress>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	StartProgress
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SmartMC functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Role of the SmartMC	N/A	String. Members include: • TM. • TC.	N/A
Username	Local username	N/A	String, case-insensitive. Length: 1 to 55 characters.	Example: admin
Password	Password of the local user	N/A	String. Length: 1 to 63 characters.	Example: 123

Contents

SmartMC 1
SmartMC/DeviceList 1
XML structure 1
Table description 1
Columns 1
SmartMC/LinkRelation 2
XML structure 2
Table description 3
Columns 3
SmartMC/StartProgress 3
XML structure 3
Table description 4
Columns 4

SmartMC

SmartMC/DeviceList

This table contains all member devices information.

XML structure

```
<SmartMC>
  <DeviceList>
    <Device>
      <MacAddress></MacAddress>
      <Id></Id>
      <Role></Role>
      <Status></Status>
      <HostName></HostName>
      <Model></Model>
      <Hop></Hop>
      <IpAddress></IpAddress>
      <SerialNumber></SerialNumber>
      <SysVersion></SysVersion>
      <IrfCount></IrfCount>
      <IsSnapshot></IsSnapshot>
    </Device>
  </DeviceList>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	DeviceList
Table type	Multi-instance table
Row name	Device
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Member device ID	Index	Unsigned integer Value range: 0 to 255	

MacAddress	Device MAC	NA	NA	Example: 84d9-3196-75ec
Role	Device role	NA	Enumeration: • 1—manager • 2—member	
Status	Device status	NA	Enumeration: • 1—normal • 2—offline	
HostName	Sysname	NA	String Length: 1 to 64 characters	
Model	Device model	NA	String Length: 1 to 32 characters	
Hop	Hop from member to manager	NA	Unsigned integer Value range: 0 to 255	
IpAddress	IP address of the device	NA	IpAddress IPv4: String, dotted decimal notation.	Example: 192.168.22.188
SerialNumber	Device serial number	NA	String Length: 1 to 64 characters	
SysVersion	System version	NA	String Length: 1 to 32 characters	
IrfCount	IRF member count	NA	Unsigned integer	
IsSnapshot	Save Topology	NA	Boolean: • true • false	

SmartMC/LinkRelation

This table contains the relation of devices.

XML structure

```
<SmartMC>
  <LinkRelation>
    <Relation>
      <SrcId></SrcId>
      <IfIndex></IfIndex>
      <SrcMAC></SrcMAC>
      <DesId></DesId>
      <DesMAC></DesMAC>
      <STPStatus></STPStatus>
      <LinkStatus></LinkStatus>
```

```
    </Relation>
  </LinkRelation>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	LinkRelation
Table type	Multi-instance table
Row name	Relation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcId	Link source ID	Index	Unsigned integer. Value range: 0 to 255.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A
DesId	Link destination ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcMAC	Link source MAC	N/A	Source MAC address.	Example: 84d9-3196-75ec
DesMAC	Link destination MAC	N/A	Destination MAC address.	Example: 84d9-3196-75fc
STPStatus	STP block status	N/A	Boolean: • true • false	
LinkStatus	Link status	N/A	Enumeration: • 1—normal. • 2—down. • 3—new	

SmartMC/StartProgress

This table contains SmartMC process information.

XML structure

```
<SmartMC>
  <StartProgress>
```

```
    <Role></Role>
    <Username></Username>
  </StartProgress>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	StartProgress
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Role of the SmartMC	N/A	String. Members include: • TM. • TC.	N/A
Username	Local username	N/A	String, case-insensitive. Length: 1 to 55 characters.	Example: admin

Contents

SmartMC 2
SmartMC/StartProgress 2

SmartMC

SmartMC/StartProgress

Message	Explanation
Failed to configure the topology master. 配置为管理设备失败。	Failed to configure the topology master. 配置为管理设备失败。
Invalid Username or Password. 非法的用户名或密码。	Invalid Username or Password. 用户名或密码不能是全0.
The device is already configured as a topology master. 设备角色已经是管理者。	The device is already configured as a topology master. SmartMC网络只能有一个管理者，当前设备角色已经是管理者。
Extra username or password. 多余的用户名或密码。	Extra username or password. 成员设备加入SmartMC网络前不需要设置用户名和密码，使用缺省用户名和密码。
Invalid role. 无效的用户角色。	Invalid role. SmartMC网络中的设备用户角色有TM和TC两种，请选择有效的用户角色。

Contents

SMS 1
SMS/SmsTests 1
XML structure 1
Table description 1
Columns 1

SMS

SMS/SmsTests

This table contains information about mobile numbers for testing SMS sending.

XML structure

```
<SMS>
  <SmsTests>
    <SmsTest>
      <SmsGwName></SmsGwName>
      <SmsGwType></SmsGwType>
      <SmsAppID></SmsAppID>
      <SmsSecretKey></SmsSecretKey>
      <VRF></VRF>
      <ServerUrl></ServerUrl>
      <MobileNumber></MobileNumber>
      <ConsumerID></ConsumerID>
      <ProviderID></ProviderID>
      <ChannelCode></ChannelCode>
      <AccessToken></AccessToken>
      <MessageType></MessageType>
    </SmsTest>
  </SmsTests>
</SMS>
```

Table description

Item	Description
Feature name	SMS
Table name	SmsTests
Table type	Multi-instance table
Row name	SmsTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SmsGwName	SMS gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(_).	
SmsGwType	SMS gateway type	N/A	Enumeration: • 0—none. • 1—emay. • 2—tplink. • 3—pingan. • 4—smp.	N/A
SmsAppID	Account ID for sending SMS	N/A	String. Length: 1 to 31 characters.	N/A
SmsSecretKey	Secret key for encryption	N/A	String. Length: 1 to 63 characters.	N/A
VRF	Name of the VRF instance associated with the SMS gateway	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
ServerUrl	URL of the SMS server	N/A	String. Length: 1 to 255 characters. The string can contain only digits.	N/A
MobileNumber	A mobile number for testing whether SMS messages can be sent normally or not	N/A	String. Length: 1 to 31 characters. The string can contain only digits.	N/A
ConsumerID	Consumer ID of the pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ProviderID	Provider ID of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ChannelCode	ChannelCode for sending SMS of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
AccessToken	AccessToken for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A
MessageType	MessageType for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A

Contents

SMS 1
SMS/SmsGateways 1
XML structure 1
Table description 1
Columns 1

SMS

SMS/SmsGateways

This table contains SMS gateway configuration information.

XML structure

```
<SMS>
  <SmsGateways>
    <SmsGateway>
      <SmsGwName></SmsGwName>
      <SmsGwType></SmsGwType>
      <SmsAppID></SmsAppID>
      <SmsSecretKey></SmsSecretKey>
      <VRF></VRF>
      <ServerUrl></ServerUrl>
      <ConsumerID></ConsumerID>
      <ProviderID></ProviderID>
      <ChannelCode></ChannelCode>
      <AccessToken></AccessToken>
      <MessageType></MessageType>
    </SmsGateway>
  </SmsGateways>
</SMS>
```

Table description

Item	Description
Feature name	SMS
Table name	SmsGateways
Table type	Multi-instance table
Row name	SmsGateway
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SmsGwName	SMS gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(_).	
SmsGwType	SMS gateway type	N/A	Enumeration: • 0—none (default). • 1—emay. • 2—tp-link. • 3—pingan. • 4—smp.	N/A
SmsAppID	Account ID for sending SMS	N/A	String. Length: 1 to 31 characters.	N/A
SmsSecretKey	Secret key for encryption	N/A	String. Length: 1 to 63 characters.	N/A
VRF	Name of the VRF instance associated with the SMS gateway	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
ServerUrl	URL of the SMS server	N/A	String. Length: 1 to 255 characters.	N/A
ConsumerID	Consumer ID of the pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ProviderID	Provider ID of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ChannelCode	ChannelCode for sending SMS of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
AccessToken	AccessToken for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A
MessageType	MessageType for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A

Contents

SMS 1
SMS/SmsGateways 1
XML structure 1
Table description 1
Columns 1

SMS

SMS/SmsGateways

This table contains SMS gateway configuration information.

XML structure

```
<SMS>
  <SmsGateways>
    <SmsGateway>
      <SmsGwName></SmsGwName>
      <SmsGwType></SmsGwType>
      <SmsAppID></SmsAppID>
      <SmsSecretKey></SmsSecretKey>
      <VRF></VRF>
      <ServerUrl></ServerUrl>
      <ConsumerID></ConsumerID>
      <ProviderID></ProviderID>
      <ChannelCode></ChannelCode>
      <AccessToken></AccessToken>
      <MessageType></MessageType>
    </SmsGateway>
  </SmsGateways>
</SMS>
```

Table description

Item	Description
Feature name	SMS
Table name	SmsGateways
Table type	Multi-instance table
Row name	SmsGateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SmsGwName	SMS gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmsGwType	SMS gateway type	N/A	Enumeration: • 0—none. • 1—emay. • 2—tp-link. • 3—pingan. • 4—smp.	N/A
SmsAppID	Account ID for sending SMS	N/A	String. Length: 1 to 31 characters.	N/A
SmsSecretKey	Secret key for encryption	N/A	String. Length: 1 to 63 characters.	N/A
VRF	Name of the VRF instance associated with the SMS gateway	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
ServerUrl	URL of the SMS server	N/A	String. Length: 1 to 255 characters.	N/A
ConsumerID	Consumer ID of the pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ProviderID	Provider ID of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
ChannelCode	ChannelCode for sending SMS of pingan platform.	N/A	String. Length: 1 to 10 characters. The string can contain only digits.	N/A
AccessToken	AccessToken for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A
MessageType	MessageType for sending SMS of pingan platform.	N/A	String. Length: 1 to 63characters.	N/A

Contents

Feature 1
SNMP/NotificationStatus 1
XML structure 1
Table description 1
Columns 1

Feature

SNMP/NotificationStatus

This table contains SNMP notification status action.

XML structure

```
<SNMP>
  <NotificationStatus>
    <EnableAll></EnableAll>
  </NotificationStatus>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	NotificationStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableAll	Status of all the SNMP notifications.	N/A	Boolean: • **true** • **false**	N/A

Contents

SNMP 1

SNMP/System 1
XML structure 1
Table description 1
Columns 1
SNMP/Agent 2
XML structure 2
Table description 2
Columns 3
SNMP/Notification 4
XML structure 4
Table description 5
Columns 5
SNMP/Communities 6
XML structure 6
Table description 7
Columns 7
SNMP/Contexts 9
XML structure 9
Table description 9
Columns 9
SNMP/CommunityMappings 10
XML structure 10
Table description 10
Columns 11
SNMP/MIBViews 11
XML structure 11
Table description 11
Columns 12
SNMP/Groups 12
XML structure 13
Table description 13
Columns 14
SNMP/Users 15
XML structure 16
Table description 16
Columns 17
SNMP/RemoteManages 20
XML structure 20
Table description 20
Columns 20
SNMP/TargetHosts 21
XML structure 21
Table description 21
Columns 22
SNMP/TrapConfigs 22
XML structure 23
Table description 23
Columns 23

SNMP

SNMP/System

This table contains SNMP system information.

XML structure

```
<SNMP>
  <System>
    <AgentStatus></AgentStatus>
    <Version>
      <V1></V1>
      <V2C></V2C>
      <V3></V3>
    </Version>
    <Location></Location>
    <Contact></Contact>  </System>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentStatus	SNMP status	N/A	Enumeration: • enable • disable	You must separately set AgentStatus to enable or disable SNMP.
V1	SNMP V1 status	N/A	Enumeration: • enable • disable Default: disable.	N/A
V2C	SNMP V2C status	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• enable • disable Default: disable.	
V3	SNMP V3 status	N/A	Enumeration: • enable • disable Default: enable.	N/A
Location	SNMP physical location information	N/A	String. Length: 0 to 255 characters.	Using zero-length to restore to default value.
Contact	SNMP contact information	N/A	String. Length: 0 to 255 characters.	Using zero-length to restore to default value.

SNMP/Agent

This table contains SNMP agent information.

XML structure

```
<SNMP>
  <Agent>
    <LocalEngineId></LocalEngineId>
    <AgentUdpPort></AgentUdpPort>
    <PacketMaxSize></PacketMaxSize>
    <GetLog></GetLog>
    <SetLog></SetLog>
    <NotificationLog></NotificationLog>
    <IPv4ACL>
        <Number></Number>
        <Name></Name>
    </IPv4ACL>
    <IPv6ACL>
        <Number></Number>
        <Name></Name>
    </IPv6ACL>
  </Agent>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Agent

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalEngineId	Local engine ID of agent	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.
AgentUdpPort	UDP port for receiving SNMP packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 161.	N/A
PacketMaxSize	Maximum size of packets that the agent can receive or send Unit: byte.	N/A	Unsigned integer. Value range: 484 to 17940. Default: 1500.	N/A
GetLog	Logging status of get.	N/A	Boolean: • **true** • **false** Default: false	N/A
SetLog	Logging status of set.	N/A	Boolean: • **true** • **false** Default: false	N/A
NotificationLog	Logging status of notificaion.	N/A	Boolean: • **true** • **false** Default: false	N/A
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can

Column name	Column description	Column type	Data type and restrictions	Remarks
	filter NMSs.			access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Notification

This table contains SNMP notification information.

XML structure

```
<SNMP>
  <Notification>
```

```
    <ColdStart></ColdStart>
    <WarmStart></WarmStart>
    <AuthenticationFailure></AuthenticationFailure>
    <QueueSize></QueueSize>
    <QueueLifeTime></QueueLifeTime>
    <TrapSource></TrapSource>
    <InformSource></InformSource>
  </Notification>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Notification
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColdStart	Status of SNMP coldStart notification.	N/A	Boolean: • **true** • **false** Default: true	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: • **true** • **false** Default: true	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: • **true** • **false** Default: true	N/A
QueueSize	Notification queue size.	N/A	Unsigned integer. Value range: 1 to 1000. Default: 100.	N/A
QueueLifeTime	Lifetime of notifications in the SNMP notification queue. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2592000. Default: 120.	N/A
TrapSource	An interface	N/A	String.	Only the interface which

Column name	Column description	Column type	Data type and restrictions	Remarks
	name, of which primary IP address as the source IP address for the traps.		Length: 2 to 47 characters. Default: no value is specified.	can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.
InformSource	An interface name, of which primary IP address as the source IP address for the informRequests.	N/A	String. Length: 2 to 47 characters. Default: no value is specified.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.

SNMP/Communities

This table contains SNMP community information.

XML structure

```
<SNMP>
  <Communities>
    <Community>
      <Name></Name>
      <Type></Type>
      <Role></Role>
      <MIBView></MIBView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
```

```
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
    </Community>
  </Communities>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Communities
Table type	Multi-instance table
Row name	Community
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunities in data namespace. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ‘IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Community name	Index	String. Length:1 to 32 characters.	N/A
Type	Community type	N/A	Enumeration: • 0 – read-only (Default) • 1 – read-write • 2 – use-RBAC	If specified ‘2 - use-RBAC’, then a ‘Role’ must be included together while ‘MIBView’ is meaningless. For the other enumerations, ‘Role’ is meaningless, and must not be included.
Role	User role name for the community.	N/A	String. Length:1 to 63 characters.	Applicable only when ‘Type’ is ‘2 - use-RBAC’.
MIBView	MIB view name available for the community.	N/A	String. Length:1 to 32 characters. Default: ViewDefault.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any

Column name	Column description	Column type	Data type and restrictions	Remarks
				rules, no NMS in this community can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Contexts

This table contains SNMP context information.

XML structure

```
<SNMP>
  <Contexts>
    <Context>
      <Name></Name>
    </Context>
  </Contexts>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxContexts in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Context name	Index	String. Length:1 to 32	An NMS and an SNMP agent can communicate with each other if the

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	following conditions exist: • No SNMP context is configured on the NMS and the SNMP agent. • The NMS and the SNMP agent use the same SNMP context.

SNMP/CommunityMappings

This table contains SNMP communities information.

XML structure

```
<SNMP>
  <CommunityMappings>
    <Mapping>
      <Community></Community>
      <Context></Context>
    </Mapping>
  </CommunityMappings>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	CommunityMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunityMappings in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Community	Community name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent communicate with community, this community can map to a context name of processes in system, and then the NMS can communicate with specified process.
Context	Context name	N/A	String. Length:1 to 32 characters.	This column must be specified.

SNMP/MIBViews

This table contains SNMP MIB view information.

XML structure

```
<SNMP>
  <MIBViews>
    <View>
      <Name></Name>
      <SubTree></SubTree>
      <Type></Type>
      <Mask></Mask>
    </View>
  </MIBViews>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	MIBViews
Table type	Multi-instance table
Row name	View
Restrictions	The system creates the **ViewDefault** view when the SNMP

	agent is enabled. In this default MIB view, all MIB objects in the **iso** subtree but the **snmpUsmMIB**, **snmpVacmMIB**, and **snmpModules.18** subtrees are accessible. The max number of tables depends on SNMP/Capabilities/MaxMIBViews in data namespace, including the 4 default MIB view records. After deleting, the default MIB view records will be restored after the system reboots, and the max number of rows can be created do not change.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	View name.	Index	String. Length:1 to 32 characters.	N/A
SubTree	A MIB subtree by its root node's OID or object name.	Index	String or dotted decimal notation string. Length:1 to 255 characters.	Example for OID, 1.3.6.1.2.1.1. Example for object name, iso. When creating a row with OIDs, the 'SubTree' will be transform to object name automatic if the whole MIB tree in the system contained these OIDs.
Type	Access type to any node in the subtree.	N/A	Enumeration: • 1 – included • 2 – excluded	This column must be specified.
Mask	A MIB subtree mask	N/A	Hex String. Length: 1 to 32 characters. Default: no value is specified.	N/A

SNMP/Groups

This table contains SNMP group information.

XML structure

```
<SNMP>
  <Groups>
    <Group>
      <Name></Name>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <ReadView></ReadView>
      <WriteView></WriteView>
      <NotifyView></NotifyView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
    </Group>
  </Groups>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxGroups in data namespace. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ‘IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name.	Index	String. • Length:1 to 32 characters.	N/A
SecurityMode	The security model by this group is provided.	Index	Enumeration: • 1 – v1 • 2 – v2c 3 – v3	N/A
SecurityLevel	Security Level.	Index	Enumeration: • 1 – noAuthNoPriv • 2 – authNoPriv • 3 – authPriv	When ‘SecurityMode’ is ‘1 – v2’ and ‘2 – v2c’, the applicable value is just ‘1 - noAuthNoPriv’.
ReadView	MIB view for read-only access.	N/A	String. Length:1 to 32 characters. Default: ViewDefault.	N/A
WriteView	MIB view for read and write access.	N/A	String. Length:1 to 32 characters. Default: no value is specified.	If no read and write view is specified, this group cannot set any MIB object.
NotifyView	MIB view for notify access.	N/A	String. Length:1 to 32 characters. Default: no value is specified.	The SNMP agent sends notifications to the NMS in this group only for the MIB objects included in the notify view. If no notify view is specified, the SNMP agent does not send any notification to the NMS in this group.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP

Column name	Column description	Column type	Data type and restrictions	Remarks
				agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Users

This table contains SNMP user information.

XML structure

```
<SNMP>
  <Users>
    <User>
      <SecurityMode></SecurityMode>
      <Name></Name>
      <EngineId></EngineId>
      <Address></Address>
      <VRF></VRF>
      <GroupControl>
        <Group></Group>
        <Role></Role>
      </GroupControl>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
    </User>
  </Users>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxUsers in data namespace.

	‘Group’ and ‘Role’ are two configuration ways. Only one way can take effect at the same time. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ‘IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’. ‘Remote/Address’ and ’ Remote/VPN’ only applicable when creating a row.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityMode	The security model by this user is provided.	Index	Enumeration: • 1 – v1 • 2 – v2c • 3 – v3	N/A
Name	User name.	Index	String. Length:1 to 32 characters.	N/A
EngineId	SNMP engine ID.	Index	Hex String. Length: 0 or 10 to 64 characters.	There are 2 ways to create a row: The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user . In this way, the ‘EngineId’and ‘Adress’and ‘VRF’must be zero-length. The second way is using the engine ID of remote SNMP manage. In this way, the ‘EngineId’ must be zero-length, then both the Remote/Address and Remode/VPN in this row must be included. The number of characters must be even. All-zero and all-F strings are invalid.
Address	Address of the remote manage.	index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	Only for remote SNMP manage.

Column name	Column description	Column type	Data type and restrictions	Remarks
			colon-separated.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	index	String. Length: 0 to 31 characters.	Only for remote SNMP manage VRF'must be zero-length if the remote manage is on the public network.
GroupControl	Group control of this user.	Data structure	Members include: • Group • Role	'Group' and 'Role' can not be specified together.
Group	Group name.	N/A	String. Length:1 to 32 characters.	N/A
Role	User role name.	N/A	String. Length:1 to 63 characters.	Multi-instance. Applicable only when 'SecurityMode' is '3 – v3'.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol • AuthKey • PrivProtocol • PrivKey Default: no value is specified.	Applicable only when 'SecurityMode' is '3 – v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: • 1 – MD5 • 2 – SHA • 3—SHA224 • 4—SHA256 • 5—SHA384 • 6—SHA512	N/A
AuthKey	Authentication key.	N/A	String. Length:1 to 128 characters.	Plaintext key string. Must be specified with 'AuthProtocol'.
PrivProtocol	Encryption algorithm for privacy.	N/A	Enumeration: • 1 – DES • 2 – AES • 3 – 3DES • 4 – AES192 • 5 – AES256	N/A
PrivKey	Privacy key.	N/A	String. Length:1 to 128 characters.	Plaintext key string. Must be specified with 'PrivProtocol.
IPv4BasicACL	Specifies an IPv4	Data	Members include:	If no ACL is specified, or

Column name	Column description	Column type	Data type and restrictions	Remarks
	basic ACL to filter NMSs.	structure	Number	the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access

Column name	Column description	Column type	Data type and restrictions	Remarks
				the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/RemoteManages

This table contains SNMP remote manage information.

XML structure

```
<SNMP>
  <RemoteManages>
    <Manage>
      <Address></Address>
      <VRF></VRF>
      <EngineId></EngineId>
    </Manage>
  </RemoteManages>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	RemoteManages
Table type	Multi-instance table
Row name	Manage
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxRemoteManages in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1 IPv6 example:

Column name	Column description	Column type	Data type and restrictions	Remarks
			IPv6: Hexadecimal string, colon-separated.	1:2:3:4:5:6:7:8
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
EngineId	SNMP engine ID of the remote manage.	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.

SNMP/TargetHosts

This table contains SNMP target host information.

XML structure

```
<SNMP>
  <TargetHosts>
    <UdpHost>
      <TargetType></TargetType>
      <SecurityName></SecurityName>
      <Address></Address>
      <VRF></VRF>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <Port></Port>
      <AddressType></AddressType>
      <SourceIP></SourceIP>
    </UdpHost>
  </TargetHosts>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	TargetHosts
Table type	Multi-instance table
Row name	UdpHost
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxTargetHosts in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetType	Notifications type.	Index	Enumeration: • 1 – InformRequest • 2 – Trap	N/A
SecurityName	Authentication parameter.	Index	String. Length: 1 to 32 characters.	For SNMPv3, ‘SecurityName’ specifies an username.
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
SecurityMode	The Security model to be used when generating SNMP notifications.	N/A	Enumeration: • 1 – v1 • 2 – v2c • 3 – v3	If ‘TargetType’ is ‘1 – InformRequest’, only ‘2 - v2c’ and ‘3 - v3’ are applicable.
SecurityLevel	Security level.	N/A	Enumeration: • 1 – noAuthNoPriv • 2 – authNoPriv • 3 – authPriv	Applicable only when ‘SecurityMode’ is ‘3 – v3’.
Port	UDP port for SNMP notifications	N/A	Unsigned integer. Value range: 0 to 65535. Default: 162.	N/A
AddressType	Host name type.	N/A	Enumeration: • 1 – IPv4 host name • 2 – IPv6 host name	If this column is not included, the Address column is an IPv4 or IPv6 address.
SourceIP	Source IP address for traps or informs.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2

SNMP/TrapConfigs

This table contains SNMP trap switch.

XML structure

```
<SNMP>
  <TrapConfigs>
    <TrapConfig>
      <FeatureName></FeatureName>
      <TrapSwitch></TrapSwitch>
    </TrapConfig>
  </TrapConfigs>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	TrapConfig
Table type	Multi-instance table
Row name	TrapConfig
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FeatureName	Feature name.	Index	String. Length: 1 to 127 characters.	N/A
TrapSwitch	The trap switch of feature.	N/A	EnableState: • **enable** • **disable**	N/A

Contents

SNMP 1

SNMP/System 1
XML structure 1
Table description 1
Columns 1
SNMP/Agent 2
XML structure 2
Table description 2
Columns 3
SNMP/Notification 4
XML structure 4
Table description 5
Columns 5
SNMP/Communities 6
XML structure 6
Table description 7
Columns 7
SNMP/Contexts 9
XML structure 9
Table description 9
Columns 9
SNMP/CommunityMappings 10
XML structure 10
Table description 10
Columns 10
SNMP/MIBViews 11
XML structure 11
Table description 11
Columns 12
SNMP/Groups 12
XML structure 12
Table description 13
Columns 13
SNMP/Users 15
XML structure 15
Table description 16
Columns 16
SNMP/RemoteManages 19
XML structure 19
Table description 19
Columns 20
SNMP/TargetHosts 20
XML structure 20
Table description 21
Columns 21
SNMP/Capabilities 22
XML structure 22
Table description 22
Columns 22
SNMP/Statistics 23
XML structure 23
Table description 24
Columns 24
SNMP/TrapConfigs 29
XML structure 29
Table description 29
Columns 29

SNMP

SNMP/System

This table contains SNMP system information.

XML structure

```
<SNMP>
  <System>
    <AgentStatus></AgentStatus>
    <Version>
      <V1></V1>
      <V2C></V2C>
      <V3></V3>
    </Version>
    <Location></Location>
    <Contact></Contact>
  </System>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentStatus	SNMP status	N/A	Enumeration: • enable • disable	N/A
V1	SNMP V1 status	N/A	Enumeration: • enable • disable	N/A
V2C	SNMP V2C status	N/A	Enumeration: • enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• disable	
V3	SNMP V3 status	N/A	Enumeration: • enable • disable	N/A
Location	SNMP physical location information	N/A	String. Length:0 to 255 characters.	N/A
Contact	SNMP contact information	N/A	String. Length:0 to 255 characters.	N/A

SNMP/Agent

This table contains SNMP agent information.

XML structure

```
<SNMP>
  <Agent>
    <LocalEngineId></LocalEngineId>
    <AgentUdpPort></AgentUdpPort>
    <PacketMaxSize></PacketMaxSize>
    <GetLog></GetLog>
    <SetLog></SetLog>
    <NotificationLog></NotificationLog>
    <IPv4ACL>
      <Number></Number>
      <Name></Name>
    </IPv4ACL>
    <IPv6ACL>
      <Number></Number>
      <Name></Name>
    </IPv6ACL>
  </Agent>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Agent
Table type	Single-instance table
Row name	N/A

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalEngineId	Local engine ID of agent	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.
AgentUdpPort	UDP port for receiving SNMP packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
PacketMaxSize	Maximum size of packets that the agent can receive or send Unit: byte.	N/A	Unsigned integer. Value range: 484 to 17940.	N/A
GetLog	Logging status of get.	N/A	Boolean: • **true** • **false**	N/A
SetLog	Logging status of set.	N/A	Boolean: • **true** • **false**	N/A
NotificationLog	Logging status of notificaion.	N/A	Boolean: • **true** • **false**	N/A
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3999.	
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs can access the SNMP agent. If the specified ACL does not have any rules, no NMS can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Notification

This table contains SNMP notification information.

XML structure

```
<SNMP>
  <Notification>
    <ColdStart></ColdStart>
    <WarmStart></WarmStart>
    <AuthenticationFailure></AuthenticationFailure>
    <QueueSize></QueueSize>
    <QueueLifeTime></QueueLifeTime>
    <TrapSource></TrapSource>
    <InformSource></InformSource>
    <EnableModules>
      <Module></Module>
    </EnableModules>
    <DisableModules>
      <Module></Module>
    </DisableModules>
  </Notification>
```

```
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Notification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColdStart	Status of SNMP coldStart notification.	N/A	Boolean: • **true** • **false**	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: • **true** • **false**	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: • **true** • **false**	N/A
QueueSize	Notification queue size.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
QueueLifeTime	Lifetime of notifications in the SNMP notification queue. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2592000.	N/A
TrapSource	An interface name, of which primary IP address as the source IP address for the traps.	N/A	String. Length: 2 to 47 characters.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.
InformSource	An interface name, of which primary IP address as the source IP address	N/A	String. Length: 2 to 47 characters.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the informRequests.			NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.
EnableModules	Modules of notification function status is enable.	N/A	Members include: • Module	For a module that has sub-modules, the status is **enable** if the notification function of one of its sub-modules is enabled.
Module	Module name.	N/A	String. Length: 1 to 127 characters.	N/A
DisableModules	Modules of notification function status is disable.	N/A	Members include: • Module	For a module that has sub-modules, the status is **disable** if the notification function of any of its sub-modules is disabled.
Module	Module name.	N/A	String. Length: 1 to 127 characters.	N/A

SNMP/Communities

This table contains SNMP community information.

XML structure

```
<SNMP>
  <Communities>
    <Community>
      <Name></Name>
      <Type></Type>
      <Role></Role>
      <MIBView></MIBView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
```

```
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
      <Context></Context>
    </Community>
  </Communities>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Communities
Table type	Multi-instance table
Row name	Community
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunities. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ’IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Community name	Index	String. Length:1 to 32 characters.	N/A
Type	Community type	N/A	Enumeration: • 0 – read-only • 1 – read-write • 2 – use-RBAC	If specified ‘2 - use-RBAC’, then a ‘Role’ must be included together. For the other enumerations, ‘Role’ is meaningless, and must not be included.
Role	User role name for the community.	N/A	String. Length:1 to 63 characters.	Applicable only when ‘Type’ is ‘2 - use-RBAC’.
MIBView	MIB view name available for the community.	N/A	String. Length:1 to 32 characters.	Applicable only when‘Type’ is‘0 – read-only

Column name	Column description	Column type	Data type and restrictions	Remarks
				’or ‘1 – read-write’.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.

Column name	Column description	Column type	Data type and restrictions	Remarks
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Context	The context mapped to a community.	N/A	String. Length:1 to 32 characters.	If no mapping between an SNMP community and an SNMP context exists, this field is not included.

SNMP/Contexts

This table contains SNMP context information.

XML structure

```
<SNMP>
  <Contexts>
    <Context>
      <Name></Name>
    </Context>
  </Contexts>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxContexts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Context name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent can communicate with each other if the following conditions exist: • No SNMP context is configured on the

Column name	Column description	Column type	Data type and restrictions	Remarks
				NMS and the SNMP agent. • The NMS and the SNMP agent use the same SNMP context.

SNMP/CommunityMappings

This table contains SNMP communities information.

XML structure

```
<SNMP>
  <CommunityMappings>
    <Mapping>
      <Community></Community>
      <Context></Context>
    </Mapping>
  </CommunityMappings>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	CommunityMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunityMappings.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Community	Community name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent communicate with community, this community can map to a context name of processes in system, then the NMS can communicate with specified process.

Column name	Column description	Column type	Data type and restrictions	Remarks
Context	Context name	N/A	String. Length:1 to 32 characters.	N/A

SNMP/MIBViews

This table contains SNMP MIB view information.

XML structure

```
<SNMP>
  <MIBViews>
    <View>
      <Name></Name>
      <SubTree></SubTree>
      <Type></Type>
      <Mask></Mask>
      <Status></Status>
    </View>
  </MIBViews>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	MIBViews
Table type	Multi-instance table
Row name	View
Restrictions	The system creates the **ViewDefault** view when the SNMP agent is enabled. In this default MIB view, all MIB objects in the **iso** subtree but the **snmpUsmMIB**, **snmpVacmMIB**, and **snmpModules.18** subtrees are accessible. The max number of tables depends on SNMP/Capabilities/MaxMIBViews, including the 4 default MIB view records. After deleting, the default MIB view records will be restored after the system reboots, and the max number of rows can be created do not change.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	View name.	Index	String. Length:1 to 32 characters.	N/A
SubTree	A MIB subtree by its root node's OID or object name.	Index	String or dotted decimal notation string. Length: 1 to 255 characters.	Example for OID, 1.3.6.1.2.1.1. Example for object name, iso. When creating a row with OIDs, the 'SubTree' will be transform to object name automatic if the whole MIB tree in the system contained these OIDs.
Type	Access type to any node in the subtree.	N/A	Enumeration: • 1 – included • 2 – excluded	N/A
Mask	A MIB subtree mask	N/A	Hex String. Length: 1 to 32 characters.	N/A
Status	Status of the MIB view.	N/A	Enumeration: • 1 – active • 2 - inactive	Only SNMP set operation can temporarily disable a MIB view without deleting it.

SNMP/Groups

This table contains SNMP group information.

XML structure

```
<SNMP>
  <Groups>
    <Group>
      <Name></Name>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <ReadView></ReadView>
      <WriteView></WriteView>
      <NotifyView></NotifyView>
      <IPv4BasicACL>
```

```
      <Number></Number>
    </IPv4BasicACL>
    <IPv4AdvancedACL>
      <Number></Number>
    </IPv4AdvancedACL>
    <IPv6BasicACL>
      <Number></Number>
    </IPv6BasicACL>
    <IPv6AdvancedACL>
      <Number></Number>
    </IPv6AdvancedACL>
  </Group>
 </Groups>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxGroups. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ’IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name.	Index	String. Length:1 to 32 characters.	N/A
SecurityMode	The security model by this group is provided.	Index	Enumeration: • 1 – v1 • 2 – v2c 3 – v3	N/A
SecurityLevel	Security Level.	Index	Enumeration: • 1 – noAuthNoPriv • 2 – authNoPriv • 3 – authPriv	When ‘SecurityMode’ is ‘1 – v2’ and ‘2 – v2c’, the applicable value is just ‘1 - noAuthNoPriv’.
ReadView	MIB view for	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	read-only access.		Length:1 to 32 characters.	
WriteView	MIB view for read and write access.	N/A	String. Length:1 to 32 characters.	If no read and write view is specified, this group cannot set any MIB object.
NotifyView	MIB view for notify access.	N/A	String. Length:1 to 32 characters.	The SNMP agent sends notifications to the NMS in this group only for the MIB objects included in the notify view. If no notify view is specified, the SNMP agent does not send any notification to the NMS in this group.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.

Column name	Column description	Column type	Data type and restrictions	Remarks
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Users

This table contains SNMP user information.

XML structure

```
<SNMP>
  <Users>
    <User>
      <SecurityMode></SecurityMode>
      <Name></Name>
      <EngineId></EngineId>
      <Address></Address>
      <VRF></VRF>
      <GroupControl>
        <Group></Group>
        <Role></Role>
      </GroupControl>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
```

```
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
      <Status></Status>
    </User>
  </Users>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxUsers. ‘Group’ and ‘Role’ are two configuration ways. Only one way can take effect at the same time. ‘Number’ and ‘Name’ are two configuration ways. Only one way can take effect at the same time for both ‘IPv4BasicACL’, ’IPv4AdvancedACL’, ‘IPv6BasicACL’ and ‘IPv6AdvancedACL’.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityMode	The security model by this user is provided.	Index	Enumeration: • 1 – v1 • 2 – v2c • 3 – v3	N/A
Name	User name.	Index	String. Length:1 to 32 characters.	N/A
EngineId	SNMP engine ID.	Index	Hex String. Length: 0 or 10 to 64 characters.	There are 2 ways to create a row: The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user .

Column name	Column description	Column type	Data type and restrictions	Remarks
				In this way, the 'EngineId'and 'Adress'and 'VRF'must be zero-length. The second way is using the engine ID of remote SNMP manage. In this way, the 'EngineId''Address' and 'VPN' in this row must be included.
				The number of characters must be even. All-zero and all-F strings are invalid.
Address	Address of the remote manage.	index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Only for remote SNMP manage. IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	index	String. Length: 0 to 31 characters.	Only for remote SNMP manage VRF'must be zero-length if the remote manage is on the public network.
GroupControl	Group control of this user.	Data structure	Members include: • Group • Role	'Group' and 'Role' can not be specified together.
Group	Group name.	N/A	String. Length:1 to 32 characters.	N/A
Role	User role name.	N/A	String. Length:1 to 63 characters.	Multi-instance.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol • AuthKey • PrivProtocol • PrivKey	Applicable only when 'SecurityMode' is '3 – v3'. Applicable only when 'SecurityMode' is '3 – v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: • 1 – MD5 • 2 – SHA	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—SHA224 • 4—SHA256 • 5—SHA384 • 6—SHA512	
AuthKey	Authentication key.	N/A	String. Length:1 to 128 characters.	Plaintext key string. Must be specified with ‘AuthProtocol’.
PrivProtocol	Encryption algorithm for privacy.	N/A	Enumeration: • 1 – DES • 2 – AES • 3 – 3DES • 4 – AES192 • 5 – AES256	N/A
PrivKey	Privacy key.	N/A	String. Length:1 to128 characters.	Plaintext key string. Must be specified with ‘PrivProtocol.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: • Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this

Column name	Column description	Column type	Data type and restrictions	Remarks
				community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Status	Status of the user.	N/A	Enumeration: • 1 – active • 2 - inactive	Only SNMP set operation can temporarily disable a user without deleting it.

SNMP/RemoteManages

This table contains SNMP remote manage information.

XML structure

```
<SNMP>
  <RemoteManages>
    <Manage>
      <Address></Address>
      <VRF></VRF>
      <EngineId></EngineId>
    </Manage>
  </RemoteManages>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	RemoteManages

Table type	Multi-instance table
Row name	Manage
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxRemoteManages.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
EngineId	SNMP engine ID of the remote manage.	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.

SNMP/TargetHosts

This table contains SNMP target host information.

XML structure

```
<SNMP>
  <TargetHosts>
    <UdpHost>
      <TargetType></TargetType>
      <SecurityName></SecurityName>
      <Address></Address>
      <VRF></VRF>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <Port></Port>
      <AddressType></AddressType>
      <SourceIP></SourceIP>
    </UdpHost>
  </TargetHosts>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	TargetHosts
Table type	Multi-instance table
Row name	UdpHost
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxTargetHosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetType	Notifications type.	Index	Enumeration: • 1 – InformRequest • 2 – Trap	N/A
SecurityName	Authentication parameter.	Index	String. Length: 1 to 32 characters.	For SNMPv3, 'SecurityName' specifies an username.
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
SecurityMode	The Security model to be used when generating SNMP notifications.	N/A	Enumeration: • 1 – v1 • 2 – v2c • 3 – v3	If 'TargetType' is '1 – InformRequest', only '2 - v2c' and '3 - v3' are applicable.
SecurityLevel	Security Level.	N/A	Enumeration: • 1 – noAuthNoPriv • 2 – authNoPriv • 3 – authPriv	Applicable only when 'SecurityMode' is '3 – v3'.
Port	UDP port for SNMP notifications	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AddressType	Host name type.	N/A	Enumeration: • 1 – IPv4 host name • 2 – IPv6 host name	If this column is not included, the Address column is an IPv4 or IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	Source IP address for traps or informs.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2

SNMP/Capabilities

This table contains capabilities information.

XML structure

```
<SNMP>
  <Capabilities>
    <MaxCommunities></MaxCommunities>
    <MaxContexts></MaxContexts>
    <MaxCommunityMappings></MaxCommunityMappings>
    <MaxMIBViews></MaxMIBViews>
    <MaxGroups></MaxGroups>
    <MaxUsers></MaxUsers>
    <MaxRemoteManages></MaxRemoteManages>
    <MaxTargetHosts></MaxTargetHosts>
    <MaxV3Roles></MaxV3Roles>
  </Capabilities>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Capabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxCommunities	Maximum number of communities.	N/A	Unsigned integer.	N/A
MaxContexts	Maximum number	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of contexts.			
MaxCommunity Mappings	Maximum number of community to context mappings.	N/A	Unsigned integer.	Each community can only mapping to one context.
MaxMIBViews	Maximum number of MIB views.	N/A	Unsigned integer.	N/A
MaxGroups	Maximum number of groups.	N/A	Unsigned integer.	N/A
MaxUsers	Maximum number of users.	N/A	Unsigned integer.	N/A
MaxRemoteMa nages	Maximum number of remote manages.	N/A	Unsigned integer.	N/A
MaxTargetHost s	Maximum number of target-hosts.	N/A	Unsigned integer.	N/A
MaxV3Roles	Maximum number of roles for one SNMPv3 user.	N/A	Unsigned integer.	Each SNMPv3 user can support multi-roles.

SNMP/Statistics

This table contains SNMP statistics information.

XML structure

```
<SNMP>
  <Statistics>
    <InPkts></InPkts>
    <OutPkts></OutPkts>
    <InBadVersions></InBadVersions>
    <InBadCommunityNames></InBadCommunityNames>
    <InBadCommunityUses></InBadCommunityUses>
    <InASNParseErrs></InASNParseErrs>
    <InTooBigs></InTooBigs>
    <InNoSuchNames></InNoSuchNames>
    <InBadValues></InBadValues>
    <InReadOnlys></InReadOnlys>
    <InGenErrs></InGenErrs>
    <InTotalReqVars></InTotalReqVars>
    <InTotalSetVars></InTotalSetVars>
    <InGetRequests></InGetRequests>
    <InGetNexts></InGetNexts>
    <InSetRequests></InSetRequests>
    <InGetResponses></InGetResponses>
    <InTraps></InTraps>
    <OutTooBigs></OutTooBigs>
```

```
    <OutNoSuchNames></OutNoSuchNames>
    <OutBadValues></OutBadValues>
    <OutGenErrs></OutGenErrs>
    <OutGetRequests></OutGetRequests>
    <OutGetNexts></OutGetNexts>
    <OutSetRequests></OutSetRequests>
    <OutGetResponses></OutGetResponses>
    <OutTraps></OutTraps>
    <SilentDrops></SilentDrops>
  </Statistics>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Statistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InPkts	The total number of Messages delivered to the SNMP entity from the transport service.	N/A	Unsigned integer.	N/A
OutPkts	The total number of SNMP Messages which were passed from the SNMP protocol entity to the transport service.	N/A	Unsigned integer.	N/A
InBadVersions	The total number of SNMP Messages which were delivered to the SNMP protocol entity and were for an unsupported SNMP version	N/A	Unsigned integer.	N/A
InBadCommunityNames	The total number of SNMP	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Messages delivered to the SNMP protocol entity which used a SNMP community name not known to said entity.			
InBadCommunityUses	The total number of SNMP Messages delivered to the SNMP protocol entity which represented an SNMP operation which was not allowed by the SNMP community named in the Message.	N/A	Unsigned integer.	N/A
InASNParseErrs	The total number of ASN.1 or BER errors encountered by the SNMP protocol entity when decoding received SNMP Messages.	N/A	Unsigned integer.	N/A
InTooBigs	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `tooBig'.	N/A	Unsigned integer.	N/A
InNoSuchNames	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `noSuchName'.	N/A	Unsigned integer.	N/A
InBadValues	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `badValue'.	N/A	Unsigned integer.	N/A
InReadOnlys	The total number	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	valid SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `readOnly'.			
InGenErrs	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `genErr'	N/A	Unsigned integer.	N/A
InTotalReqVars	The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs.	N/A	Unsigned integer.	N/A
InTotalSetVars	The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs.	N/A	Unsigned integer.	N/A
InGetRequests	The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InGetNexts	The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InSetRequests	The total number of SNMP Set-Request	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PDUs which have been accepted and processed by the SNMP protocol entity.			
InGetResponses	The total number of SNMP Get-Response PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InTraps	The total number of SNMP Trap PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutTooBigs	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is `tooBig.'	N/A	Unsigned integer.	N/A
OutNoSuchNames	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status is `noSuchName'.	N/A	Unsigned integer.	N/A
OutBadValues	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is `badValue'.	N/A	Unsigned integer.	N/A
OutGenErrs	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is `genErr'.	N/A	Unsigned integer.	N/A
OutGetRequests	The total number of SNMP	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Get-Request PDUs which have been generated by the SNMP protocol entity.			
OutGetNexts	The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutSetRequests	The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutGetResponses	The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutTraps	The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
SilentDrops	The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a Response-PDU) with an empty variable-bindings field was greater than either a local	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	constraint or the maximum message size associated with the originator of the request.			

SNMP/TrapConfigs

This table contains SNMP trap switch.

XML structure

```
<SNMP>
  <TrapConfigs>
    <TrapConfig>
      <FeatureName></FeatureName>
      <TrapSwitch></TrapSwitch>
    </TrapConfig>
  </TrapConfigs>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	TrapConfig
Table type	Multi-instance table
Row name	TrapConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FeatureName	Feature name.	Index	String. Length: 1 to 127 characters.	N/A
TrapSwitch	The trap switch of feature.	N/A	EnableState: • **enable** • **disable**	N/A

Contents

SNMP 2
SNMP/System 2
SNMP/Agent 2
SNMP/Notification 2
SNMP/Communities 3
SNMP/Contexts 3
SNMP/CommunityMappings 4
SNMP/MIBViews 4
SNMP/Groups 4
SNMP/Users 5
SNMP/RemoteManages 7
SNMP/TargetHosts 7
SNMP/Statistics 8
SNMP/NotificationStatus 8

SNMP

SNMP/System

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。
Operation failed. Please separately set the AgentStatus column to Disable in the System table. 操作失败。请单独设置System表的AgentStatus列为Disable以关闭SNMP功能。	Disable snmp first. 请先去使能 SNMP 服务。

SNMP/Agent

Message	Explanation
The number of hexadecimal characters must be even for an engine ID. 引擎ID的16进制字符个数必须是偶数。	Engine ID set failed. 引擎 ID 的 16 进制字符个数必须是偶数。
The engine ID can't be all 0s or all Fs. 引擎ID不能为全零或者全F。	Engine ID set failed. 引擎 ID 不能为全零或者全 F。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Notification

Message	Explanation
The interface has no IP address now. Please configure an IP address for the interface first. 接口未设置IP 地址。 请先指定接口的IP地址。	Set the interface for trap succeed, but the interface has no IP address now. 接口未设置 IP 地址。 请设置接口的 IP 地址。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Communities

Message	Explanation
Column Role can't be deleted for RBAC-based SNMP communities. 基于RBAC方式配置的团体，不能删除Role列。	‘Delete’ operation failed. 基于 RBAC 方式配置的团体，不能删除 Role 列。
Column Role must be specified for RBAC-based SNMP communities. 基于RBAC方式配置的团体，必须指定Role列。	SNMP communities of VACM convert to RBAC-based failed. Please specify ‘Role’. 团体类型由 VACM 切换为 RBAC，请先指定团体角色。
When community type is read-only or read-write, column Role is invalid and can't be configured. 基于VACM方式配置团体时，Role列无效，且不能指定该列的值。	Column ‘Role’ is invalid for communities of VACM. VACM 类型团体，不需要配置‘Role’。
When community type is user-RBAC, column MIBView is invalid and can't be configured. 基于RBAC方式配置团体时，MIBView列无效，且不能指定该列的值。	Column ‘MIBView’ is invalid for communities of RBAC. RBAC 类型团体，不需要配置‘MIBView’。
Operation failed. The number of communities reached the upper limit. 创建的community数量已达到最大值。	Create community failed. 创建的 community 数量已达到最大值。
IPv4BasicACL and IPv4AdvancedACL can't be configured together. IPv4BasicACL和IPv4AdvancedACL不能同时配置。	Create or replace community failed. IPv4BasicACL 和 IPv4AdvancedACL 不能同时配置。
IPv6BasicACL and IPv6AdvancedACL can't be configured together. IPv6BasicACL和IPv6AdvancedACL不能同时配置。	Create or replace community failed. IPv6BasicACL 和 IPv6AdvancedACL 不能同时配置。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Contexts

Message	Explanation
Operation failed. The number of contexts reached the upper limit. 创建的上下文数量已达到上限最大值。	Failed to create context. 创建的上下文数量已达到上限最大值。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/CommunityMappings

Message	Explanation
Column Context can't be deleted. Context列不能删除。	Can't delete the default context. Context 列不能删除。
Operation failed.The number of maps reached the upper limit. 创建的community maps数量已达到最大值。	Create community map failed. 创建的 community maps 数量已达到最大值。
Value for column Context must be specified. 必须指定Context列的值。	Create community map failed. 必须指定 Context 列的值。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/MIBViews

Message	Explanation
Value for column Type must be specified. 必须指定Type列的值。	MIB view type must be specified. 必须指定 Type 列的值。
Operation failed. The number of user-defined MIB views reached the upper limit. 用户定义的MIB视图数量已达到最大值。	Failed to create MIB-view. 用户定义的 MIB 视图数量已达到最大值。
Invalid MIB sub-tree node name or OID. 指定的MIB节点名或OID无效。	Please specify ‘SubTree’ value in the message. 指定的 MIB 节点名或 OID 无效。
The number of hexadecimal characters must be even for a subtree mask. 子树掩码的16进制字符个数必须是偶数。	Failed to set MIB subtree mask. 子树掩码的 16 进制字符个数必须是偶数。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Groups

Message	Explanation
Security model of an SNMPv1 or SNMPv2c group can only be noAuthNoPriv. SNMPv1和SNMPv2c组不支持认证和加密。	Failed to set ‘SecurityLevel’. Please set ‘SecurityLevel’ to 2. SNMPv1 和 SNMPv2c 组不支持认证和加密。
Operation failed.The number of groups reached the upper limit. 创建的group数量已达到最大值。	Create group failed. 创建的 group 数量已达到最大值。

Columns Role and Mibviews can't be configured together. Role列和MIBView列不能同时配置。	Create group failed. Role 列和 MIBView 列不能同时配置。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Users

Message	Explanation
The engine ID can't be all 0s or all Fs. 引擎ID不能为全零或者全F。	Invalid engine ID. 引擎 ID 不能为全零或者全 F。
Operation failed.The number of users reached the upper limit. 创建的用户数量已达到最大值。	Failed create new user. 创建的用户数量已达到最大值。
Can't find the remote engine ID specified by the IP address. 未找到该IP地址对应的远端引擎ID。	Failed to get, merge, replace or delete the remote engine. 未找到该 IP 地址对应的远端引擎 ID。
The last user role can't be deleted. 最后一个用户角色不能删除。	The last user role can't be deleted. 最后一个用户角色不能删除。
Operation failed. The number of user role reached the upper limit. 添加的用户角色数量已达到最大值。	Failed to add new user role. 添加的用户角色数量已达到最大值。
Value for column Group or Role must be specified. 必须指定Group或者Role列的值。	Parameters not complete in the message. 必须指定 Group 或者 Role 列的值。
Values for columns AuthProtocol and AuthKey must be specified together. 必须同时指定AuthProtocol和AuthKey的值。	‘AuthProtocol’ and ‘AuthKey’ must be specified together or not together. 必须同时指定 AuthProtocol 和 AuthKey 的值。
Values for columns PrivProtocol and PrivKey must be specified together. 必须同时指定PrivProtocol和PrivKey的值。	‘PrivProtocol’ and ‘PrivKey’ must be specified together or not together. 必须同时指定 PrivProtocol 和 PrivKey 的值。
When columns PrivProtocol and PrivKey are issued, columns AuthProtocol and AuthKey must be issued too. 当下发了PrivProtocol和PrivKey列,，必须同时下发AuthProtocol和AuthKey列。	‘AuthProtocol’ and ‘AuthKey’, ‘PrivProtocol’ and ‘PrivKey’ must be specified together or not together. 当下发了 PrivProtocol 和 PrivKey 列,，必须同时下发 AuthProtocol 和 AuthKey 列。
Column Group or Role can't be deleted. 不能删除Group或者Role列。	Group control doesn't support delete operation. 不能删除 Group 或者 Role 列。
The engine ID mismatch the remote SNMP entity. 引擎ID和远端SNMP实体不匹配。	The engine ID mismatch with ‘VPN name’ and ‘Address’. 引擎 ID 和远端 SNMP 实体不匹配。
Invalid user. 无效用户。	The engine ID mismatch with ‘VPN name’ and ‘Address’. 引擎 ID 和‘VPN name’、‘Address’不匹配，无效用户。
Value for column Group must be specified.	Group must be specified in ‘create’ and ‘replace’ operation.

必须指定Group列的值。	缺少 group 值，操作失败。
Column Group can't be deleted. 不能删除Group列。	Users of SNMPv1 and SNMPv2c can't delete group column. SNMPv1 和 SNMPv2c 用户不能删除 group 列。
EngineID, IP address and VRF are invalid for an SNMPv1 or SNMPv2c user. 对SNMPv1和SNMPv2c引擎ID,IP地址和VRF无效。	SNMPv1 or SNMPv2c user doesn't need ‘EngineID’, ‘IP address’ and ‘VRF’. SNMPv1 和 SNMPv2c 用户没有引擎 ID,IP 地址和 VRF 等属性。
User role, authentication and privacy are all invalid for an SNMPv1 or SNMPv2c user. 对SNMPv1和SNMPv2c用户,用户角色，认证和加密都是无效的。	‘User role’, ‘authentication’ and ‘privacy’ are valid for SNMPv3 user. 用户角色，认证和加密是 SNMPv3 新增属性，对 SNMPv1 和 SNMPv2c 用户无效。
One user only support one Group. 一个用户仅支持一个组。	One user only support one Group. 一个用户仅支持一个组。
Values for columns AuthProtocol and AuthKey must be deleted together. 必须同时删除AuthProtocol和AuthKey的值。	‘AuthProtocol’ and ‘AuthKey’ can't be deleted separately. 必须同时删除 AuthProtocol 和 AuthKey 的值。
Values for columns PrivProtocol and PrivKey must be deleted together. 必须同时删除PrivProtocol和AuthKey的值。	‘PrivProtocol’ and ‘PrivKey’ can't be deleted separately. 必须同时删除 PrivProtocol 和 AuthKey 的值。
When columns AuthProtocol and AuthKey are deleted, PrivProtocol and PrivKey columns must be deleted too. 当删除AuthProtocol和AuthKey列,，必须同时删除PrivProtocol和PrivKey列。	‘AuthProtocol’ , ‘AuthKey’ and ‘PrivProtocol’ , ‘PrivKey’ can't be deleted separately. 当删除 AuthProtocol 和 AuthKey 列,，必须同时删除 PrivProtocol 和 PrivKey 列。
Values for indexs EngineId or Address must be assigned for an SNMPv3 remote user. SNMPV3远端用户必须指定引擎ID或IP地址。	Please specify ‘EngineId’ and ‘Address’ for SNMPv3 remote users. SNMPV3 远端用户必须指定引擎 ID 或 IP 地址。
The shared key must contain uppercase letters, lowercase letters, digits, and symbols. 公钥必须包含大小写字母，数字和符号。	Set key for user of SNMPv3 failed. 公钥必须同时包含大小写字母，数字和符号。
The shared key must contain at least 15 characters. 公钥至少包含15个字符。	Set key for user of SNMPv3 failed. 公钥至少包含 15 个字符，设置密码失败。
Only users with the network-admin user role can configure SNMPv3 features. 只能具有network-admin 角色的用户才能配置SNMPv3功能。	Set SNMPv3 feature failed. network-admin 角色的用户才能配置 SNMPv3 功能。
Value for index Address must be assigned for an SNMPv3 remote user. SNMPV3远端用户必须指定IP地址。	Value for index Address must be assigned for an SNMPv3 remote user. SNMPV3 远端用户必须指定 IP 地址。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/RemoteManages

Message	Explanation
Operation failed. The number of configured remote engines reached the upper limit. 可配置的远端引擎数量已达到最大值。	Failed to set new remote engine. 可配置的远端引擎数量已达到最大值。
Invalid IP address for the remote SNMP entity. 远端SNMP实体的IP地址无效。	Failed to set new remote engine or delete remote engine. 远端 SNMP 实体的 IP 地址无效。
When Column VPN is issued, Column Address must be issued too. 当下发了VPN列，Address列必须和VPN列同时下发。	'VPN' and 'Address' must be specified together or not together. 当下发了 VPN 列，Address 列必须和 VPN 列同时下发。
Column Address or Column VPN can't be changed. Address或者VPN列不能被修改。	'VPN' and 'Address' can't be changed. Address 或者 VPN 列不能被修改或删除。
Column Address or VPN can't be deleted. Address或者VPN列不能被删除。	'VPN' and 'Address' can't be deleted. Address 或者 VPN 列不能被删除或修改。
Value for column EngineId must be specified. 必须指定引擎ID。	Please specify the engine ID. 引擎 ID 是必配属性，请指定。
Column EngineId can't be deleted. 引擎ID列不能删除。	Can't delete the default engine ID. 引擎 ID 是必配属性，不能删除。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/TargetHosts

Message	Explanation
Value for column SecurityMode must be specified. 必须指定SecurityMode列的值。	The security model is used when generating SNMP notifications. SecurityMode 是必配属性，请指定。
Operation failed. The number of specified target hosts reached the upper limit. 指定的目标主机数量已达到最大值。	Failed to create target host. 指定的目标主机数量已达到最大值。
Invalid IP address for an SNMP target host. 无效的目标主机IP地址。	Invalid IP address in message. 无效的目标主机 IP 地址。
Column SecurityMode can't be deleted. SecurityMode列不能删除。	Please specify the security model to be deleted. SecurityMode 是必配属性，不能删除。
An SNMPv1 or SNMPv2c targethost can only receive notifications as traps. SNMPv1日志主机只能接收trap报文。	An SNMPv1 or SNMPv2c targethost can't receive notifications as inform. SNMPv1 日志主机只能接收 trap 报文。
Invalid target host IP address. 无效的目标主机IP地址。	Please confirm the IP address of the target host. 无效的目标主机 IP 地址。

Invalid host name. 无效的目标主机名。	Please confirm the valid host name. 无效的目标主机名。
Column AddressType can't be deleted. 不能删除AddressType列。	‘AddressType’ shows address is host name or IPv4, IPv6 address. ‘AddressType’ can't be deleted. ‘AddressType’是必配属性，不能删除。
Value for column AddressType must be specified. 必须指定AddressType列的值。	‘AddressType’ must be specified for replace operation. ‘AddressType’是必配属性，请指定。
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/Statistics

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

SNMP/NotificationStatus

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table. 操作失败。请单独设置System表的AgentStatus列为Enable以使能SNMP。	Enable snmp first. 请先使能 SNMP 服务。

Contents

SQ 1

SQ/IfPQ 1
XML structure 1
Table description 1
Columns 1
SQ/PQLs 1
XML structure 2
Table description 3
Columns 4
SQ/PQLs/PQL 4
Table description 4
Columns 4
SQ/PQLs/PQL/InboundInterfaces 6
Table description 6
Columns 6
SQ/PQLs/PQL/InboundInterfaces/InboundInterface 6
Table description 6
Columns 7
SQ/PQLs/PQL/IPv4AclList 7
Table description 7
Columns 7
SQ/PQLs/PQL/IPv4AclList/IPv4Acl 7
Table description 7
Columns 8
SQ/PQLs/PQL/IPv6AclList 8
Table description 8
Columns 8
SQ/PQLs/PQL/IPv6AclList/IPv6Acl 8
Table description 9
Columns 9
SQ/PQLs/PQL/IPv4LSLengths 9
Table description 9
Columns 9
SQ/PQLs/PQL/IPv4LSLengths/IPv4LSLength 10
Table description 10
Columns 10
SQ/PQLs/PQL/IPv4GTLengths 10
Table description 10
Columns 11
SQ/PQLs/PQL/IPv4GTLengths/IPv4GTLength 11
Table description 11
Columns 11
SQ/PQLs/PQL/IPv6LSLengths 11
Table description 11
Columns 12
SQ/PQLs/PQL/IPv6LSLengths/IPv6LSLength 12
Table description 12
Columns 12
SQ/PQLs/PQL/IPv6GTLengths 12
Table description 13
Columns 13
SQ/PQLs/PQL/IPv6GTLengths/IPv6GTLength 13
Table description 13
Columns 13
SQ/PQLs/PQL/IPv4TcpPortList 14
Table description 14
Columns 14

SQ/PQLs/PQL/IPv4TcpPortList/IPv4TcpPort 14
Table description 14
Columns 15
SQ/PQLs/PQL/IPv4UdpPortList 15
Table description 15
Columns 15
SQ/PQLs/PQL/IPv4UdpPortList/IPv4UdpPort 15
Table description 15
Columns 16
SQ/PQLs/PQL/IPv6UdpPortList 16
Table description 16
Columns 16
SQ/PQLs/PQL/IPv6UdpPortList/IPv6UdpPort 16
Table description 17
Columns 17
SQ/PQLs/PQL/IPv6TcpPortList 17
Table description 17
Columns 17
SQ/PQLs/PQL/IPv6TcpPortList/IPv6TcpPort 18
Table description 18
Columns 18
SQ/PQLs/PQL/MplsExpList 18
Table description 18
Columns 19
SQ/PQLs/PQL/MplsExpList/MplsExp 19
Table description 19
Columns 19
SQ/PQLs/PQL/LocalPrecedences 19
Table description 19
Columns 20
SQ/PQLs/PQL/LocalPrecedences/LocalPrecedence 20
Table description 20
Columns 20
SQ/PQLength 20
XML structure 21
Table description 21
Columns 21
SQ/PQDefaultQueue 21
XML structure 21
Table description 22
Columns 22

SQ

SQ/IfPQ

This table contains information about priority queue applied to interfaces.

XML structure

```
<SQ>
  <IfPQ>
    <PQL>
      <IfName></IfName>
      <PQLIndex></PQLIndex>
    </PQL>
  </IfPQ>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	IfPQ
Table type	Multi-instance table
Row name	PQL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
PQLIndex	Priority queue list index	N/A	Unsigned integer. Value range: 1 to 16.	N/A

SQ/PQLs

This table contains information about priority queue list.

XML structure

```
<SQ>
  <PQLs>
    <PQL>
      <PQLIndex></PQLIndex>
      <IPv4Queue></IPv4Queue>
      <IPv6Queue></IPv6Queue>
      <IPv4FragmentsQueue></IPv4FragmentsQueue>
      <IPv6FragmentsQueue></IPv6FragmentsQueue>
      <InboundInterfaces>
        <InboundInterface>
          <IfName></IfName>
          <QueueId></QueueId>
        </InboundInterface>
      </InboundInterfaces>
      <IPv4AclList>
        <IPv4Acl>
          <AclNumber></AclNumber>
          <QueueId></QueueId>
        </IPv4Acl>
      </IPv4AclList>
      <IPv4GTLengths>
        <IPv4GTLength>
          <Length></Length>
          <QueueId></QueueId>
        </IPv4GTLength>
      </IPv4GTLengths>
      <IPv4LSLengths>
        <IPv4LSLength>
          <Length></Length>
          <QueueId></QueueId>
        </IPv4LSLength>
      </IPv4LSLengths>
      <IPv4TcpPortList>
        <IPv4TcpPort>
          <PortNumber></PortNumber>
          <QueueId></QueueId>
        </IPv4TcpPort>
      </IPv4TcpPortList>
      <IPv4UdpPortList>
        <IPv4UdpPort>
          <PortNumber></PortNumber>
          <QueueId></QueueId>
        </IPv4UdpPort>
      </IPv4UdpPortList>
      <IPv6AclList>
        <IPv6Acl>
```

```
        <AclNumber></AclNumber>
        <QueueId></QueueId>
      </IPv6Acl>
    </IPv6AclList>
    <IPv6GTLengths>
      <IPv6GTLength>
        <Length></Length>
        <QueueId></QueueId>
      </IPv6GTLength>
    </IPv6GTLengths>
    <IPv6LSLengths>
      <IPv6LSLength>
        <Length></Length>
        <QueueId></QueueId>
      </IPv6LSLength>
    </IPv6LSLengths>
    <IPv6TcpPortList>
      <IPv6TcpPort>
        <PortNumber></PortNumber>
        <QueueId></QueueId>
      </IPv6TcpPort>
    </IPv6TcpPortList>
    <IPv6UdpPortList>
      <IPv6UdpPort>
        <PortNumber></PortNumber>
        <QueueId></QueueId>
      </IPv6UdpPort>
    </IPv6UdpPortList>
    <MplsExpList>
      <MplsExp>
        <Exp></Exp>
        <QueueId></QueueId>
      </MplsExp>
    </MplsExpList>
    <LocalPrecedences>
      <LocalPrecedence>
        <Precedence></Precedence>
        <QueueId></QueueId>
      </LocalPrecedence>
    </LocalPrecedences>
  </PQL>
 </PQLs>
</SQ>
```


Table description

Item	Description
Feature name	SQ

Table name	PQLs
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQL	Priority queue list table.	Multi-instance table	N/A	For more information, see the PQL table.

SQ/PQLs/PQL

This table contains information about priority queue list.

Table description

Item	Description
Feature name	SQ
Table name	PQL
Table type	Multi-instance table,multi-level table
Row name	PQL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index.	Index	Unsigned integer. Value range: 1 to 16.	N/A
IPv4FragmentsQueue	Priority queue number for ipv4 fragmented packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv6FragmentsQueue	Priority queue number for ipv6 fragmented packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Queue	Priority queue number for ipv4 packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv6Queue	Priority queue number for ipv6 packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
InboundInterfaces	Configuration information about match inbound interface.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/InboundInterfaces table.
IPv4AclList	Match IPv4 ACL.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4AclList table.
IPv4GTLengths	Match IPv4 packet length larger than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4GTLengths table.
IPv4LSLengths	Match IPv4 packet length lesser than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4LSLengths table.
IPv4TcpPortList	Match IPv4 tcp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4TcpPortList table.
IPv4UdpPortList	Match IPv4 udp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4UdpPortList table.
IPv6AclList	Match IPv6 ACL.	Sublist	N/A	For more information, see the SQ/PQLs/IPv6AclList table.
IPv4GTLengths	Match IPv6 packet length larger than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6GTLengths table.
IPv4LSLengths	Match IPv6 packet length lesser than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6LSLengths table.
IPv4TcpPortList	Match IPv6 tcp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6TcpPortList table.
IPv4UdpPortList	Match IPv6 udp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6UdpPortList table.
MplsExpList	Match MPLS	Sublist	N/A	For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
	EXP value.			SQ/PQLs/PQL/MplsExpList table.
LocalPrecedences	Match local precedence.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/LocalPrecedences table.

SQ/PQLs/PQL/InboundInterfaces

This table contains information about the priority queue rule that matches the inbound interface.

Table description

Item	Description
Feature name	SQ
Table name	InboundInterfaces
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InboundInterface	Inbound interface list table.	Multi-instance table	N/A	For more information, see the InboundInterface table.

SQ/PQLs/PQL/InboundInterfaces/InboundInterface

This table contains information about the priority queue rule that matches the inbound interface.

Table description

Item	Description
Feature name	SQ
Table name	InboundInterface
Table type	Multi-instance table
Row name	InboundInterface

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4AclList

This table contains information about the priority queue rule that matches the ipv4 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv4AclList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Acl	IPv4 Acl list table.	Multi-instance table	N/A	For more information, see the IPv4Acl table.

SQ/PQLs/PQL/IPv4AclList/IPv4Acl

This table contains information about the priority queue rule that matches the ipv4 acl.

Table description

Item	Description
Feature name	SQ

Table name	IPv4Acl
Table type	Multi-instance table
Row name	IPv4Acl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	IPv4 Acl number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6AclList

This table contains information about the priority queue rule that matches the ipv6 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv6AclList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Acl	IPv6 Acl list table.	Multi-instance table	N/A	For more information, see the IPv6Acl table.

SQ/PQLs/PQL/IPv6AclList/IPv6Acl

This table contains information about the priority queue rule that matches the ipv6 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv6Acl
Table type	Multi-instance table
Row name	IPv6Acl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	IPv6 Acl number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4LSLengths

This table contains information about the priority queue rule that matches the ipv4 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4LSLengths
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4LSLengths	IPv4 Lesser PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv4LSLength table.

SQ/PQLs/PQL/IPv4LSLengths/IPv4LSLength

This table contains information about the priority queue rule that matches the ipv4 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4LSLength
Table type	Multi-instance table
Row name	IPv4LSLength
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4GTLengths

This table contains information about the priority queue rule that matches the ipv4 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4GTLengths
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4GTLengths	IPv4 Greater PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv4GTLength table.

SQ/PQLs/PQL/IPv4GTLengths/IPv4GTLength

This table contains information about the priority queue rule that matches the ipv4 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4GTLength
Table type	Multi-instance table
Row name	IPv4GTLength
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6LSLengths

This table contains information about the priority queue rule that matches the ipv6 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6LSLengths

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6LSLengths	IPv6 Lower PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv6LSLength table.

SQ/PQLs/PQL/IPv6LSLengths/IPv6LSLength

This table contains information about the priority queue rule that matches the ipv6 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6LSLength
Table type	Multi-instance table
Row name	IPv6LSLength
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6GTLengths

This table contains information about the priority queue rule that matches the ipv6 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6GTLengths
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6GTLengths	IPv6 Greater PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv6GTLength table.

SQ/PQLs/PQL/IPv6GTLengths/IPv6GTLength

This table contains information about the priority queue rule that matches the ipv6 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6GTLength
Table type	Single-instance table
Row name	IPv6GTLength
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4TcpPortList

This table contains information about the priority queue rule that matches the ipv4 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4TcpPortList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4TcpPort	IPv4 Tcp Port list table.	Multi-instance table	N/A	For more information, see the IPv4TcpPort table.

SQ/PQLs/PQL/IPv4TcpPortList/IPv4TcpPort

This table contains information about the priority queue rule that matches the ipv4 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4TcpPort
Table type	Multi-instance table
Row name	IPv4TcpPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4UdpPortList

This table contains information about the priority queue rule that matches the ipv4 tcp udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4UdpPortList
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4UdpPort	IPv4 Udp Port list table.	Multi-instance table	N/A	For more information, see the IPv4UdpPort table.

SQ/PQLs/PQL/IPv4UdpPortList/IPv4UdpPort

This table contains information about the priority queue rule that matches the ipv4 tcp udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4UdpPort

Table type	Single-instance table
Row name	IPv4UdpPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6UdpPortList

This table contains information about the priority queue rule information that matches the ipv6 udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6UdpPortList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6UdpPort	IPv6 Udp Port list table.	Multi-instance table	N/A	For more information, see the IPv6UdpPort table.

SQ/PQLs/PQL/IPv6UdpPortList/IPv6UdpPort

This table contains information about the priority queue rule information that matches the ipv6 udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6UdpPort
Table type	Multi-instance table
Row name	IPv6UdpPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6TcpPortList

This table contains information about the priority queue rule that matches the ipv6 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6TcpPortList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6TcpPort	IPv6 Tcp Port list table.	Multi-instance table	N/A	For more information, see the IPv6TcpPort table.

SQ/PQLs/PQL/IPv6TcpPortList/IPv6TcpPort

This table contains information about the priority queue rule that matches the ipv6 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6TcpPort
Table type	Multi-instance table
Row name	IPv6TcpPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/MplsExpList

This table contains information about the priority queue rule that matches the mpls exp number.

Table description

Item	Description
Feature name	SQ
Table name	MplsExpList
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MplsExp	Mpls exp value list table.	Multi-instance table	N/A	For more information, see the MplsExp table.

SQ/PQLs/PQL/MplsExpList/MplsExp

This table contains information about the priority queue rule that matches the mpls exp number.

Table description

Item	Description
Feature name	SQ
Table name	MplsExp
Table type	Multi-instance table
Row name	MplsExp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Exp	Mpls exp number	Index	Unsigned integer. Value range: 1 to 255.	Mpls exp bits set.
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/LocalPrecedences

This table contains information about the priority queue rule that matches the local precedence number.

Table description

Item	Description
Feature name	SQ
Table name	LocalPrecedences
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalPrecedence	Local precedence value list table.	Multi-instance table	N/A	For more information, see the LocalPrecedence table.

SQ/PQLs/PQL/LocalPrecedences/LocalPrecedence

This table contains information about the priority queue rule that matches the local precedence number.

Table description

Item	Description
Feature name	SQ
Table name	LocalPrecedence
Table type	Multi-instance table
Row name	LocalPrecedence
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	Local precedence	Index	Unsigned integer. Value range: 1 to 255.	Local precedence bits set.
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLength

This table contains information about priority queue length.

XML structure

```
<SQ>
  <PQLength>
    <Queue>
      <PQLIndex></PQLIndex>
      <QueueId></QueueId>
      <QueueLength></QueueLength>
    </Queue>
  </PQLength>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	PQLength
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index.	Index	Unsigned integer. Value range: 1 to 16.	N/A
QueueId	Queue ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
QueueLength	Queue length.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

SQ/PQDefaultQueue

This table contains information about default priority queues.

XML structure

```
<SQ>
  <PQDefaultQueue>
    <Queue>
      <PQLIndex></PQLIndex>
      <QueueId></QueueId>
```

```
    </Queue>
  </PQDefaultQueue>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	PQDefaultQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index.	Index	Unsigned integer. Value range: 1 to 16.	N/A
QueueId	Queue ID.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Contents

SQ 1

SQ/IfPQ 1
XML structure 1
Table description 1
Columns 1
SQ/PQLs 1
XML structure 1
Table description 3
Columns 4
SQ/PQLs/PQL 4
Table description 4
Columns 4
SQ/PQLs/PQL/InboundInterfaces 6
Table description 6
Columns 6
SQ/PQLs/PQL/InboundInterfaces/InboundInterface 6
Table description 7
Columns 7
SQ/PQLs/PQL/IPv4AclList 7
Table description 7
Columns 7
SQ/PQLs/PQL/IPv4AclList/IPv4Acl 8
Table description 8
Columns 8
SQ/PQLs/PQL/IPv6AclList 8
Table description 8
Columns 9
SQ/PQLs/PQL/IPv6AclList/IPv6Acl 9
Table description 9
Columns 9
SQ/PQLs/PQL/IPv4LSLengths 9
Table description 9
Columns 10
SQ/PQLs/PQL/IPv4LSLengths/IPv4LSLength 10
Table description 10
Columns 10
SQ/PQLs/PQL/IPv4GTLengths 10
Table description 11
Columns 11
SQ/PQLs/PQL/IPv4GTLengths/IPv4GTLength 11
Table description 11
Columns 11
SQ/PQLs/PQL/IPv6LSLengths 12
Table description 12
Columns 12
SQ/PQLs/PQL/IPv6LSLengths/IPv6LSLength 12
Table description 12
Columns 13
SQ/PQLs/PQL/IPv6GTLengths 13
Table description 13
Columns 13
SQ/PQLs/PQL/IPv6GTLengths/IPv6GTLength 13
Table description 13
Columns 14
SQ/PQLs/PQL/IPv4TcpPortList 14
Table description 14
Columns 14

SQ/PQLs/PQL/IPv4TcpPortList/IPv4TcpPort 14
Table description 15
Columns 15
SQ/PQLs/PQL/IPv4UdpPortList 15
Table description 15
Columns 15
SQ/PQLs/PQL/IPv4UdpPortList/IPv4UdpPort 16
Table description 16
Columns 16
SQ/PQLs/PQL/IPv6UdpPortList 16
Table description 16
Columns 17
SQ/PQLs/PQL/IPv6UdpPortList/IPv6UdpPort 17
Table description 17
Columns 17
SQ/PQLs/PQL/IPv6TcpPortList 17
Table description 17
Columns 18
SQ/PQLs/PQL/IPv6TcpPortList/IPv6TcpPort 18
Table description 18
Columns 18
SQ/PQLs/PQL/MplsExpList 18
Table description 19
Columns 19
SQ/PQLs/PQL/MplsExpList/MplsExp 19
Table description 19
Columns 19
SQ/PQLs/PQL/LocalPrecedences 20
Table description 20
Columns 20
SQ/PQLs/PQL/LocalPrecedences/LocalPrecedence 20
Table description 20
Columns 21
SQ/PQLength 21
XML structure 21
Table description 21
Columns 21
SQ/PQDefaultQueue 22
XML structure 22
Table description 22
Columns 22

SQ

SQ/IfPQ

This table contains information about priority queue applied to interfaces.

XML structure

```
<SQ>
  <IfPQ>
    <PQL>
      <IfName></IfName>
      <PQLIndex></PQLIndex>
    </PQL>
  </IfPQ>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	IfPQ
Table type	Multi-instance table
Row name	PQL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
PQLIndex	Priority queue list index	N/A	Unsigned integer. Value range: 1 to 16.	N/A

SQ/PQLs

This table contains information about priority queue list.

XML structure

```
<SQ>
```

```
<PQLs>
  <PQL>
    <PQLIndex></PQLIndex>
    <IPv4Queue></IPv4Queue>
    <IPv6Queue></IPv6Queue>
    <IPv4FragmentsQueue></IPv4FragmentsQueue>
    <IPv6FragmentsQueue></IPv6FragmentsQueue>
    <InboundInterfaces>
      <InboundInterface>
        <IfName></IfName>
        <QueueId></QueueId>
      </InboundInterface>
    </InboundInterfaces>
    <IPv4AclList>
      <IPv4Acl>
        <AclNumber></AclNumber>
        <QueueId></QueueId>
      </IPv4Acl>
    </IPv4AclList>
    <IPv4GTLengths>
      <IPv4GTLength>
        <Length></Length>
        <QueueId></QueueId>
      </IPv4GTLength>
    </IPv4GTLengths>
    <IPv4LSLengths>
      <IPv4LSLength>
        <Length></Length>
        <QueueId></QueueId>
      </IPv4LSLength>
    </IPv4LSLengths>
    <IPv4TcpPortList>
      <IPv4TcpPort>
        <PortNumber></PortNumber>
        <QueueId></QueueId>
      </IPv4TcpPort>
    </IPv4TcpPortList>
    <IPv4UdpPortList>
      <IPv4UdpPort>
        <PortNumber></PortNumber>
        <QueueId></QueueId>
      </IPv4UdpPort>
    </IPv4UdpPortList>
    <IPv6AclList>
      <IPv6Acl>
        <AclNumber></AclNumber>
        <QueueId></QueueId>
      </IPv6Acl>
```

```
      </IPv6AclList>
      <IPv6GTLengths>
        <IPv6GTLength>
          <Length></Length>
          <QueueId></QueueId>
        </IPv6GTLength>
      </IPv6GTLengths>
      <IPv6LSLengths>
        <IPv6LSLength>
          <Length></Length>
          <QueueId></QueueId>
        </IPv6LSLength>
      </IPv6LSLengths>
      <IPv6TcpPortList>
        <IPv6TcpPort>
          <PortNumber></PortNumber>
          <QueueId></QueueId>
        </IPv6TcpPort>
      </IPv6TcpPortList>
      <IPv6UdpPortList>
        <IPv6UdpPort>
          <PortNumber></PortNumber>
          <QueueId></QueueId>
        </IPv6UdpPort>
      </IPv6UdpPortList>
      <MplsExpList>
        <MplsExp>
          <Exp></Exp>
          <QueueId></QueueId>
        </MplsExp>
      </MplsExpList>
      <LocalPrecedences>
        <LocalPrecedence>
          <Precedence></Precedence>
          <QueueId></QueueId>
        </LocalPrecedence>
      </LocalPrecedences>
    </PQL>
  </PQLs>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	PQLs
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQL	Priority queue list table.	Multi-instance table	N/A	For more information, see the PQL table.

SQ/PQLs/PQL

This table contains information about priority queue list.

Table description

Item	Description
Feature name	SQ
Table name	PQL
Table type	Multi-instance table
Row name	PQL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index.	Index	Unsigned integer. Value range: 1 to 16.	N/A
IPv4FragmentsQueue	Priority queue number for ipv4 fragmented packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv6FragmentsQueue	Priority queue number for ipv6 fragmented packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv4Queue	Priority queue number for ipv4 packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPv6Queue	Priority queue number for ipv6 packets.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
InboundInterfaces	Configuration information about	Sublist	N/A	For more information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
	match inbound interface.			the SQ/PQLs/PQL/InboundInterfaces table.
IPv4AclList	Match IPv4 ACL.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4AclList table.
IPv4GTLengths	Match IPv4 packet length larger than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4GTLengths table.
IPv4LSLengths	Match IPv4 packet length lesser than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4LSLengths table.
IPv4TcpPortList	Match IPv4 tcp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4TcpPortList table.
IPv4UdpPortList	Match IPv4 udp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv4UdpPortList table.
IPv6AclList	Match IPv6 ACL.	Sublist	N/A	For more information, see the SQ/PQLs/IPv6AclList table.
IPv4GTLengths	Match IPv6 packet length larger than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6GTLengths table.
IPv4LSLengths	Match IPv6 packet length lesser than the specified length.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6LSLengths table.
IPv4TcpPortList	Match IPv6 tcp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6TcpPortList table.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4UdpPortList	Match IPv6 udp port number.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/IPv6UdpPortList table.
MplsExpList	Match MPLS EXP value.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/MplsExpList table.
LocalPrecedences	Match local precedence.	Sublist	N/A	For more information, see the SQ/PQLs/PQL/LocalPrecedences table.

SQ/PQLs/PQL/InboundInterfaces

This table contains information about the priority queue rule that matches the inbound interface.

Table description

Item	Description
Feature name	SQ
Table name	InboundInterfaces
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InboundInterface	Inbound interface list table.	Multi-instance table	N/A	For more information, see the InboundInterface table.

SQ/PQLs/PQL/InboundInterfaces/InboundInterface

This table contains information about the priority queue rule that matches the inbound interface.

Table description

Item	Description
Feature name	SQ
Table name	InboundInterface
Table type	Multi-instance table
Row name	InboundInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4AclList

This table contains information about the priority queue rule that matches the ipv4 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv4AclList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Acl	IPv4 Acl list table.	Multi-instance table	N/A	For more information, see the IPv4Acl table.

SQ/PQLs/PQL/IPv4AclList/IPv4Acl

This table contains information about the priority queue rule that matches the ipv4 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv4Acl
Table type	Multi-instance table
Row name	IPv4Acl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	IPv4 Acl number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6AclList

This table contains information about the priority queue rule that matches the ipv6 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv6AclList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Acl	IPv6 Acl list table.	Multi-instance table	N/A	For more information, see the IPv6Acl table.

SQ/PQLs/PQL/IPv6AclList/IPv6Acl

This table contains information about the priority queue rule that matches the ipv6 acl.

Table description

Item	Description
Feature name	SQ
Table name	IPv6Acl
Table type	Multi-instance table
Row name	IPv6Acl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	IPv6 Acl number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4LSLengths

This table contains information about the priority queue rule that matches the ipv4 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4LSLengths
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4LSLengths	IPv4 Lesser PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv4LSLength table.

SQ/PQLs/PQL/IPv4LSLengths/IPv4LSLength

This table contains information about the priority queue rule that matches the ipv4 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4LSLength
Table type	Multi-instance table
Row name	IPv4LSLength
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4GTLengths

This table contains information about the priority queue rule that matches the ipv4 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4GTLengths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4GTLengths	IPv4 Greater PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv4GTLength table.

SQ/PQLs/PQL/IPv4GTLengths/IPv4GTLength

This table contains information about the priority queue rule that matches the ipv4 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv4GTLength
Table type	Multi-instance table
Row name	IPv4GTLength
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6LSLengths

This table contains information about the priority queue rule that matches the ipv6 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6LSLengths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6LSLengths	IPv6 Lower PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv6LSLengths table.

SQ/PQLs/PQL/IPv6LSLengths/IPv6LSLength

This table contains information about the priority queue rule that matches the ipv6 packet's length lesser than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6LSLength
Table type	Multi-instance table
Row name	IPv6LSLength
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6GTLengths

This table contains information about the priority queue rule that matches the ipv6 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6GTLengths
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6GTLengths	IPv6 Greater PacketLength list table.	Multi-instance table	N/A	For more information, see the IPv6GTLengths table.

SQ/PQLs/PQL/IPv6GTLengths/IPv6GTLength

This table contains information about the priority queue rule that matches the ipv6 packet's length greater than the specified length.

Table description

Item	Description
Feature name	SQ
Table name	IPv6GTLength

Table type	Multi-instance table
Row name	IPv6GTLength
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	Packet Length	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4TcpPortList

This table contains information about the priority queue rule that matches the ipv4 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4TcpPortList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4TcpPort	IPv4 Tcp Port list table.	Multi-instance table	N/A	For more information, see the IPv4TcpPort table.

SQ/PQLs/PQL/IPv4TcpPortList/IPv4TcpPort

This table contains information about the priority queue rule that matches the ipv4 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4TcpPort
Table type	Multi-instance table
Row name	IPv4TcpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv4UdpPortList

This table contains information about the priority queue rule that matches the ipv4 tcp udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4UdpPortList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4UdpPort	IPv4 Udp Port list table.	Multi-instance table	N/A	For more information, see the IPv4UdpPort table.

SQ/PQLs/PQL/IPv4UdpPortList/IPv4UdpPort

This table contains information about the priority queue rule that matches the ipv4 tcp udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv4UdpPort
Table type	Multi-instance table
Row name	IPv4UdpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6UdpPortList

This table contains information about the priority queue rule that matches the ipv6 udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6UdpPortList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6UdpPort	IPv6 Udp Port list table.	Multi-instance table	N/A	For more information, see the IPv6UdpPort table.

SQ/PQLs/PQL/IPv6UdpPortList/IPv6UdpPort

This table contains information about the priority queue rule that matches the ipv6 udp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6UdpPort
Table type	Multi-instance table
Row name	IPv6UdpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/IPv6TcpPortList

This table contains information about the priority queue rule that matches the ipv6 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6TcpPortList
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6TcpPort	IPv6 Tcp Port list table.	Multi-instance table	N/A	For more information, see the IPv6TcpPort table.

SQ/PQLs/PQL/IPv6TcpPortList/IPv6TcpPort

This table contains information about the priority queue rule that matches the ipv6 tcp packet's port number.

Table description

Item	Description
Feature name	SQ
Table name	IPv6TcpPort
Table type	Multi-instance table
Row name	IPv6TcpPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port Number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/MplsExpList

This table contains information about the priority queue rule that matches the mpls exp number.

Table description

Item	Description
Feature name	SQ
Table name	MplsExpList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MplsExp	Mpls exp value list table.	Multi-instance table	N/A	For more information, see the MplsExp table.

SQ/PQLs/PQL/MplsExpList/MplsExp

This table contains information about the priority queue rule that matches the mpls exp number.

Table description

Item	Description
Feature name	SQ
Table name	MplsExp
Table type	Multi-instance table
Row name	MplsExp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Exp	Mpls exp number bits	Index	Unsigned integer. Value range: 1 to 255.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLs/PQL/LocalPrecedences

This table contains information about the priority queue rule that matches the local precedence number.

Table description

Item	Description
Feature name	SQ
Table name	LocalPrecedences
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalPrecedence	Local precedence value list table.	Multi-instance table	N/A	For more information, see the LocalPrecedence table.

SQ/PQLs/PQL/LocalPrecedences/LocalPrecedence

This table contains information about the priority queue rule that matches the local precedence number.

Table description

Item	Description
Feature name	SQ
Table name	LocalPrecedence
Table type	Multi-instance table
Row name	LocalPrecedence
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Precedence	Local precedence bits	Index	Unsigned integer. Value range: 1 to 255.	N/A
QueueId	Priority queue number	N/A	Unsigned integer. Value range: 0 to 7.	N/A

SQ/PQLength

This table contains information about priority queue length.

XML structure

```
<SQ>
  <PQLength>
    <Queue>
      <PQLIndex></PQLIndex>
      <QueueId></QueueId>
      <QueueLength></QueueLength>
    </Queue>
  </PQLength>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	PQLength
Table type	Multi-instance table
Row name	Queue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index	Index	Unsigned integer. Value range: 1 to 16.	N/A
QueueId	Queue ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueLength	Queue length	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

SQ/PQDefaultQueue

This table contains information about default priority queues.

XML structure

```
<SQ>
  <PQDefaultQueue>
    <Queue>
      <PQLIndex></PQLIndex>
      <QueueId></QueueId>
    </Queue>
  </PQDefaultQueue>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	PQDefaultQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PQLIndex	Priority queue list index	Index	Unsigned integer. Value range: 1 to 16.	N/A
QueueId	Queue ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Contents

SQ 1
SQ/CQPQ 1

SQ

SQ/CQPQ

Message	Explanation
Please disable CBQ first. 请先删除接口的CBQ队列配置。	For a create,meger or replace operation, please disable CBQ first in the interface. 执行 create 或者 meger 或者 replace 操作时，请先删除接口上的 CBQ 相关配置。
IfName invalid. 接口名字错误。	IfName invalid. 相关操作的接口是无效的。
QueueId only support 4 to 7. 队列编号仅支持4到7。	For a create,meger or replace operation, only support config on queue 4~7. 执行create或者meger或者replace操作时，只支持配置在队列4~7。
Number of rules in the %s exceeded the limit. %s里的规则个数超过上限100。	For a create,meger or replace operation, the rules exceeded the limit. 执行create或者meger或者replace操作时，规则数量达到上限。

Contents

SQA 1
SQA/Remark 1
XML structure 1
Table description 1
Columns 1
SQA/SqaEnable 2
XML structure 2
Table description 2
Columns 3
SQA/ListeningPort 3
XML structure 3
Table description 3
Columns 3
SQA/FilterAddress 4
XML structure 4
Table description 4
Columns 4
SQA/SqaProfiles 5
XML structure 5
Table description 5
Columns 6
SQA/SqaProfiles/SqaProfile 6
Table description 6
Columns 6
SQA/WlanSqaProfiles 7
XML structure 8
Table description 8
Columns 8
SQA/WlanSqaProfiles/WlanSqaProfile 8
Table description 8
Columns 9

SQA

SQA/Remark

Set the priority of SQA packets.

XML structure

```
<SQA>
  <Remark>
    <RemarkInfo>
      <AppProto></AppProto>
      <RemarkType></RemarkType>
      <Priority></Priority>
    </RemarkInfo>
  </Remark>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	Remark
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • **0**—SIP. • **1**—H.323.	N/A
RemarkType	Remark a priority	Index	Enumeration: • **0**—802.1p priority. • **1**—DSCP priority.	N/A
Priority	Priority value	N/A	For 802.1p priority. Unsigned integer. Value range: 0 to 7. For DSCP priority: • Unsigned integer. Value range: 0 to 63. • Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			○ **default**—000000. ○ **af11**—001010. ○ **af12**—001100. ○ **af13**—001110. ○ **af21**—010010. ○ **af22**—010100. ○ **af23**—010110. ○ **af31**—011010. ○ **af32**—011100. ○ **af33**—011110. ○ **af41**—100010. ○ **af42**—100100. ○ **af43**—100110. ○ **cs1**—001000. ○ **cs2**—010000. ○ **cs3**—011000. ○ **cs4**—100000. ○ **cs5**—101000. ○ **cs6**—110000. ○ **cs7**—111000. ○ **ef**—101110.	

SQA/SqaEnable

This table contains informations about sqa enabling function for which protocol.

XML structure

```
<SQA>
  <SqaEnable>
    <EnableInfo>
      <AppProto></AppProto>
      <Enable></Enable>
    </EnableInfo>
  </SqaEnable>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	SqaEnable
Table type	Multi-instance table
Row name	EnableInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
Enable	Whether enable sqa function.	N/A	Boolean: • true—YES • false—NO(default).	N/A

SQA/ListeningPort

This table contains informations about sqa listening port function for which protocol.

XML structure

```
<SQA>
  <ListeningPort>
    <PortInfo>
      <AppProto></AppProto>
      <PortNumber></PortNumber>
    </PortInfo>
  </ListeningPort>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	ListeningPort
Table type	Multi-instance table
Row name	PortInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.225.	N/A
PortNumber	Listening port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.225.	N/A
	number		• Value range: 1 to 65534.	

SQA/FilterAddress

This table contains informations about sqa filter address function for which protocol.

XML structure

```
<SQA>
  <FilterAddress>
    <AddressInfo>
      <AppProto></AppProto>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </AddressInfo>
  </FilterAddress>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	FilterAddress
Table type	Multi-instance table
Row name	AddressInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
StartIpv4Address	Start IPv4 address of filter protocal	N/A	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
				the EndIpv4Address.
EndIpv4Address	End IPv4 address of filter protocal	N/A	String, dotted decimal notation	Example: 1.1.1.6.

SQA/SqaProfiles

This table contains the SQA profile information.

XML structure

```
<SQA>
  <SqaProfiles>
    <SqaProfile>
      <ProfileName></ProfileName>
      <SipEnable></SipEnable>
      <AppStatisticsEnable></AppStatisticsEnable>
      <AppInterval></AppInterval>
      <AppStatisticsInterval></AppStatisticsInterval>
      <AppEnableList>
        <AppType></AppType>
      </AppEnableList>
    </SqaProfile>
  </SqaProfiles>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	SqaProfiles
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SqaProfile	SqaProfile table	Sublist	N/A	For more information, see the SQA/SqaProfiles/SqaProfile table.

SQA/SqaProfiles/SqaProfile

This table contains the SQA profile information.

Table description

Item	Description
Feature name	SQA
Table name	SqaProfile
Table type	Multi-instance table
Row name	SqaProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a SQA profile	Index	String. Length: 1 to 31 characters.	N/A
SipEnable	Enabling status of SQA for Sip	N/A	Boolean: • **true**—Enabled. • **false—**Not enabled.	Defalut: Not enable
AppStatisticsEnable	Whether the function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	Defalut: Not enable
AppInterval	Application interval time value in minutes	N/A	Unsigned integer. • Value range: 1 to 60.	Defalut value: 5
AppStatisticsInterval	Application Statistics interval time value in seconds	N/A	Unsigned integer. Value range: 10 to 3600.	Defalut value: 300
AppEnableList	Application type list of SQA Function enable.	Data structure	Members include: AppType.	

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application name represented by a number.	N/A	Enumeration: · 0: TencentMeeting. · 1: DingTalkVoIP. · 2: DingTalk. · 3: Zoom. · 4 :WeChatVoIP. · 5: WeChat. · 6: QQVoIP. · 7: QQ. · 8: EnterpriseWechat. · 9: SkypeVoIP. · 10: Skype. · 11: HUAWEICloudWeLinkVoIP. · 12: HUAWEICloudWeLink. · 13: CiscoWebex. · 14: XiaoYuYiLian. · 15: ZhuMuMeeting. · 16: SOMO. · 17: MindLinker. · 18: FeiShu. · 19: HaoShiTong. · 20: QuanShiYunHuiYi. · 21: CiscoWebexMeetings. · 22: Skype4B · 23: Skype4BVoip · 24: JDJoyMeeting · 25: JDIntelligentProjection · 26: AirPlay · 27: LeboMirror · 28: citrixclient · 29: GameForpeace · 30: WangZheRongYao · 31: BaiduInfoflow · 32: GoogleMeet	

SQA/WlanSqaProfiles

This table contains information about SQA profiles applied to service templates.

XML structure

```
<SQA>
 <WlanSqaProfiles>
    <WlanSqaProfile>
      <WlanServiceTemp></WlanServiceTemp>
      <SqaProfileName></SqaProfileName>
    </WlanSqaProfile>
  </WlanSqaProfiles>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	WlanSqaProfiles
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanSqaProfile	WlanSqaProfile table	Sublist	N/A	For more information, see the SQA/WlanSqaProfiles/WlanSqaProfile table.

SQA/WlanSqaProfiles/WlanSqaProfile

This table contains information about SQA profiles applied to service templates.

Table description

Item	Description
Feature name	SQA
Table name	WlanSqaProfile
Table type	Single-instance table
Row name	WlanSqaProfile
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanServiceTemp	Name of a service template	Index	String. Length: 1 to 63 characters.	N/A
SqaProfileName	Name of the SQA profile applied to the service template	N/A	String. Length: 1 to 31 characters. Default: No SQA profile is applied to a service template.	N/A

Contents

SQA 1
SQA/CallEntries/CallEntry 1
XML structure 1
Table description 1
Columns 2
SQA/Remark 3
XML structure 3
Table description 3
Columns 3
SQA/SqaEnable 4
XML structure 4
Table description 5
Columns 5
SQA/ListeningPort 5
XML structure 5
Table description 5
Columns 6
SQA/FilterAddress 6
XML structure 6
Table description 6
Columns 6
SQA/SqaProfiles 7
XML structure 7
Table description 7
Columns 8
SQA/SqaProfiles/SqaProfile 8
Table description 8
Columns 8
SQA/WlanSqaProfiles 9
XML structure 9
Table description 10
Columns 10
SQA/WlanSqaProfiles/WlanSqaProfile 10
Table description 10
Columns 11

SQA

SQA/CallEntries/CallEntry

This table contains information about call information.

XML structure

```
<SQA>
  <CallEntries>
    <CallEntry>
      <AppProto></AppProto>
      <CallID></CallID>
      <VlanID></VlanID>
      <CallerIP></CallerIP>
      <CallerPort></CallerPort>
      <ReplierIP></ReplierIP>
      <ReplierPort></ReplierPort>
      <MediaType></MediaType>
      <VxlanID></VxlanID>
      <GUID></GUID>
      <CallerMAC></CallerMAC>
      <ReplierMAC></ReplierMAC>
      <IPProto></IPProto>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <State></State>
      <CallerMOS></CallerMOS>
      <ReplierMOS></ReplierMOS>
      <AliasAddress></AliasAddress>
    </CallEntry>
  </CallEntries>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	CallEntries
Table type	Multi-instance table
Row name	CallEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • **0**—SIP. • **1**—H323.	N/A
CallID	Call ID	Index	String. Length: 1 to 64 characters.	N/A
VlanID	User VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	Value 0 indicates that the user access interface is a Layer 3 interface (other than VLAN interface).
CallerIP	Caller IP address	Index	IPv4: String, dotted decimal notation.	N/A
CallerPort	Caller port	Index	Unsigned integer. Value range: 1 to 65535.	N/A
ReplierIP	Callee IP address	Index	IPv4: String, dotted decimal notation.	N/A
ReplierPort	Callee port	Index	Unsigned integer. Value range: 1 to 65535.	N/A
MediaType	Media type	Index	Unsigned integer.	N/A
VxlanID	VXLAN ID	Index	Unsigned integer. Value range: 0 to 16777216.	Value 16777216 indicates that an invalid VXLAN ID.
GUID	Global unique ID (GUID)	Index	String Length: 1 to 64 characters.	Value NA indicates an invalid GUID.
CallerMAC	Caller MAC address	N/A	String. Length: 6 characters.	N/A
ReplierMAC	Callee MAC address	N/A	String. Length: 6 characters.	N/A
IPProto	IP protocol type	N/A	Unsigned integer.	N/A
StartTime	Call start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndTime	Call end time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This field is available only after the call was terminated.
State	Call state	N/A	Enumeration: • **0**—Online. • **1**—Closed. • **2**—Aging. • **3**—ConnectTimeout. • **4**—ConnectFailed.	N/A
CallerMOS	Mean opinion score value of	N/A	Unsigned integer. Value range: 0 to 500.	This field is available only when the device has

Column name	Column description	Column type	Data type and restrictions	Remarks
	the caller			enough drive resources.
ReplierMOS	Mean opinion score value of the callee	N/A	Unsigned integer. Value range: 0 to 500.	This field is available only when the device has enough drive resources.
AliasAddress	Alias address	N/A	String. Length: 0 to 128 characters.	This field is available only for H323 calls.

SQA/Remark

Get the priority of SQA packets.

XML structure

```
<SQA>
  <Remark>
    <RemarkInfo>
      <AppProto></AppProto>
      <RemarkType></RemarkType>
      <RemarkEnable></RemarkEnable>
      <Priority></Priority>
   </RemarkInfo>
  </Remark>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	RemarkPriortiy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • **0**—SIP. • **1**—H.323.	N/A
RemarkType	Remark a priority	Index	Enumeration: • **0**—802.1p priority.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—DSCP priority.	
RemarkEnable	Enable or disable remark	N/A	Boolean: • **true**—Enable remark. • **false**—Disable remark.	N/A

Priority	Priority value	N/A	For 802.1p priority. Unsigned integer. Value range: 0 to 7.
			For DSCP priority:
			• Unsigned integer. Value range: 0 to 63.
			• Enumeration:
			  ○ **default**—000000.
			  ○ **af11**—001010.
			  ○ **af12**—001100.
			  ○ **af13**—001110.
			  ○ **af21**—010010.
			  ○ **af22**—010100.
			  ○ **af23**—010110.
			  ○ **af31**—011010.
			  ○ **af32**—011100.
			  ○ **af33**—011110.
			  ○ **af41**—100010.
			  ○ **af42**—100100.
			  ○ **af43**—100110.
			  ○ **cs1**—001000.
			  ○ **cs2**—010000.
			  ○ **cs3**—011000.
			  ○ **cs4**—100000.
			  ○ **cs5**—101000.
			  ○ **cs6**—110000.
			  ○ **cs7**—111000.
			  ○ **ef**—101110.
				N/A

SQA/SqaEnable

This table contains informations about sqa enabling function for which protocol.

XML structure

```
<SQA>
  <SqaEnable>
    <EnableInfo>
      <AppProto></AppProto>
      <Enable></Enable>
    </EnableInfo>
  </SqaEnable>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	SqaEnable
Table type	Multi-instance table
Row name	EnableInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
Enable	Whether enable sqa function.	N/A	Boolean: • true—YES • false—NO	N/A

SQA/ListeningPort

This table contains informations about sqa listening port function for which protocol.

XML structure

```
<SQA>
  <ListeningPort>
    <PortInfo>
      <AppProto></AppProto>
      <PortNumber></PortNumber>
    <PortInfo>
  </ListeningPort>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	ListeningPort
Table type	Multi-instance table
Row name	PortInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.225.	N/A
PortNumber	Listening port number	N/A	Unsigned integer. • Value range: 1 to 65534.	N/A

SQA/FilterAddress

This table contains informations about sqa filter address function for which protocol.

XML structure

```
<SQA>
  <FilterAddress>
    <AddressInfo>
      <AppProto></AppProto>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </AddressInfo>
  </FilterAddress>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	FilterAddress
Table type	Multi-instance table
Row name	AddressInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
StartIpv4Addr	Start IPv4	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppProto	Application protocol type	Index	Enumeration: • 0—SIP. • 1—H.323.	N/A
ess	address of filter protocal			The StartIpv4Address cannot be greater than the EndIpv4Address.
EndIpv4Address	End IPv4 address of filter protocal	N/A	String, dotted decimal notation	Example: 1.1.1.6.

SQA/SqaProfiles

This table contains the SQA profile information.

XML structure

```
<SQA>
  <SqaProfiles>
    <SqaProfile>
      <ProfileName></ProfileName>
      <SipEnable></SipEnable>
      <AppStatisticsEnable></AppStatisticsEnable>
      <AppInterval></AppInterval>
      <AppEnableLists>
        <AppEnableList>
          <AppEnable></AppEnable>
        </AppEnableList>
      </AppEnableLists>
    </SqaProfile>
  </SqaProfiles>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	SqaProfiles
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SqaProfile	SqaProfile table	Sublist	N/A	For more information, see the SQA/SqaProfiles/SqaProfile table.

SQA/SqaProfiles/SqaProfile

This table contains the SQA profile information.

Table description

Item	Description
Feature name	SQA
Table name	SqaProfile
Table type	Multi-instance table
Row name	SqaProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a SQA profile	Index	String. Length: 1 to 31 characters.	N/A
SipEnable	Enabling status of SQA for Sip	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	Defalut: Not enable
AppStatisticsEnable	Whether the function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	Defalut: Not enable
AppInterval	Application interval time value in minutes	N/A	Unsigned integer. • Value range: 1 to 60.	Defalut value: 5
AppStatisticsInterval	Application Statistics interval time value in seconds	N/A	Unsigned integer. Value range: 10 to 3600.	Defalut value: 300
AppEnableList	Application type list of SQA Function enable.	Data structure	Members include: AppType.	
AppType	Application name	N/A	Enumeration:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	represented by a number.		• 0: TencentMeeting. • 1: DingTalkVoIP. • 2: DingTalk. • 3: Zoom. • 4 :WeChatVoIP. • 5: WeChat. • 6: QQVoIP. • 7: QQ. • 8: EnterpriseWechat. • 9: SkypeVoIP. • 10: Skype. • 11: HUAWEICloudWeLinkVoIP. • 12: HUAWEICloudWeLink. • 13: CiscoWebex. • 14: XiaoYuYiLian. • 15: ZhuMuMeeting. • 16: SOMO. • 17: MindLinker. • 18: FeiShu. • 19: HaoShiTong. • 20: QuanShiYunHuiYi. • 21: CiscoWebexMeetings. • 22: Skype4B • 23: Skype4BVoip • 24: JDJoyMeeting • 25: JDIntelligentProjection • 26: AirPlay • 27: LeboMirror • 28: citrixclient • 29: GameForpeace • 30: WangZheRongYao • 31: BaiduInfoflow • 32: GoogleMeet	

SQA/WlanSqaProfiles

This table contains information about SQA profiles applied to service templates.

XML structure

```
<SQA>
```

```
 <WlanSqaProfiles>
   <WlanSqaProfile>
     <WlanServiceTemp></WlanServiceTemp>
     <SqaProfileName></SqaProfileName>
   </WlanSqaProfile>
  </WlanSqaProfiles>
</SQA>
```

Table description

Item	Description
Feature name	SQA
Table name	WlanSqaProfiles
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanSqaProfile	WlanSqaProfile table	Sublist	N/A	For more information, see the SQA/WlanSqaProfiles/WlanSqaProfile table.

SQA/WlanSqaProfiles/WlanSqaProfile

This table contains information about SQA profiles applied to service templates.

Table description

Item	Description
Feature name	SQA
Table name	WlanSqaProfile
Table type	Single-instance table
Row name	WlanSqaProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanServiceTemp	Name of a service template	Index	String. Length: 1 to 63 characters.	N/A
SqaProfileName	Name of the SQA profile applied to the service template	N/A	String. Length: 1 to 31 characters.	N/A

Contents

Comware 7 SQA NETCONF XML API Error Message Reference ····· 1
SQA/Remark ····· 1
SQA/SqaProfiles/SqaProfile ····· 1
SQA/SqaProfiles/SqaProfile/AppEnableList/AppType ····· 1

Comware 7 SQA NETCONF XML API Error Message Reference

SQA/Remark

Message	Explanation
The value range of dot1p is 0~7. Dot1p 的有效值范围为0~7。	When RemarkType is dot1p, the priority must be in the range of 0 to 7. 当RemarkType为dot1p时，优先级取值范围为0~7。
This device doesn't support sqa remark. 当前设备不支持remark功能。	The device does not support packet priority remarking for SQA. 这个提示说明当前设备不支持服务质量分析的重标记优先级功能。

SQA/SqaProfiles/SqaProfile

Message	Explanation
The device does not support the SQA application function. 当前设备不支持音视频应用流量的服务质量分析功能。	The device does not support the SQA-based analysing quality of service for applications. 这个提示说明当前设备不支持音视频应用流量的服务质量分析功能。

SQA/SqaProfiles/SqaProfile/AppEnableList/AppType

Message	Explanation
The device does not support analysing quality of service for this application. 当前设备音视频应用流量的服务质量分析功能不支持该应用。	The device does not support analysing quality of service for this application. 这个提示说明当前设备音视频应用流量的服务质量分析功能不支持该应用。

Contents

SR-POLICY 1

sr-policy/policy-attributes 1
- XML structure 1
- Table description 3
- Columns 4

sr-policy/policy-attributes/segment-lists 6
- XML structure 6
- Table description 6
- Columns 7

sr-policy/policy-attributes/segment-lists/segments 7
- XML structure 7
- Table description 7
- Columns 7

sr-policy/policy-attributes/segment-lists/segments/segment-types 8
- XML structure 8
- Table description 8
- Columns 8

sr-policy/policy-attributes/segment-lists/segments/segment-types/segment-type-1 8
- XML structure 8
- Table description 9
- Columns 9

sr-policy/policies 9
- XML structure 9
- Table description 9
- Columns 10

sr-policy/policies/candidate-paths 12
- XML structure 12
- Table description 13
- Columns 13

sr-policy/policies/candidate-paths/segment-lists 14
- XML structure 14
- Table description 14
- Columns 14

sr-policy/policygroups 14
- XML structure 14
- Table description 14
- Columns 15

sr-policy/policygroups/color-dscps 15
- XML structure 15
- Table description 15
- Columns 16

Example 16

SR-POLICY

The name space of SR-POLICY is "urn:ietf:params:xml:ns:yang:ietf-sr-policy ".

sr-policy/policy-attributes

This table contains SR-TE policy attributes configuration information.

XML structure

```
<segment-routing>
  <sr-policy>
    <policy-attributes>
      <traffic-statistics></traffic-statistics>
      <traffic-service-class></traffic-service-class>
      <traffic-statistics-interval></traffic-statistics-interval>
      <backup-hot-standby></backup-hot-standby>
      <backup-hot-standby-type></backup-hot-standby-type>
      <sbfd></sbfd>
      <echo></echo>
      <sbfd-proxy-reflector></sbfd-proxy-reflector>
      <sbfd-encapsulation-mode></sbfd-encapsulation-mode>
      <sbfd-remoteid></sbfd-remoteid>
      <sbfd-template></sbfd-template>
      <sbfd-backuptemplate></sbfd-backuptemplate>
      <up-delay></up-delay>
      <sbfd-detect-multiplier></sbfd-detect-multiplier>
      <sbfd-min-tx-interval></sbfd-min-tx-interval>
      <bgp-ls></bgp-ls>
      <drop-upon-invalid></drop-upon-invalid>
      <bfd-trigger-path-down></bfd-trigger-path-down>
      <bfd-echo></bfd-echo>
      <bfd-echo-sourceipv4></bfd-echo-sourceipv4>
      <bfd-echo-sourceipv6></bfd-echo-sourceipv6>
      <bfd-echo-template></bfd-echo-template>
      <bfd-echo-backuptemplate></bfd-echo-backuptemplate>
      <switch-delay></switch-delay>
      <delete-delay></delete-delay>
     <bfd-first-fail-timer></bfd-first-fail-timer>
     <pce-delegation></pce-delegation>
     <passive-delegate-report-only></passive-delegate-report-only>
     <pce-reoptimization></pce-reoptimization>
     <pce-reoptimization-frequency></pce-reoptimization-frequency>
      <segment-lists>
        <segment-list>
          <name></name>
          <segments>
```

```
      <segment>
        <index></index>
        <type></type>
        <segment-types>
          <segment-type-1>
            <sid-value></sid-value>
          </segment-type-1>
        </segment-types>
      </segment>
    </segments>
  </segment-list>
</segment-lists>
</policy-attributes>
<policies>
  <policy>
    <color></color>
    <endpoint></endpoint>
    <name></name>
    <binding-sid>
      <dataplane></dataplane>
      <value></value>
    </binding-sid>
    <admin-state></admin-state>
    <traffic-statistics></traffic-statistics>
    <traffic-service-class></traffic-service-class>
    <backup-hot-standby></backup-hot-standby>
    <backup-hot-standby-type></backup-hot-standby-type>
    <sbfd></sbfd>
    <echo></echo>
    <sbfd-proxy-reflector></sbfd-proxy-reflector>
    <sbfd-encapsulation-mode></sbfd-encapsulation-mode>
    <sbfd-remoteid></sbfd-remoteid>
    <sbfd-template></sbfd-template>
    <sbfd-backuptemplate></sbfd-backuptemplate>
    <up-delay></up-delay>
    <service-class></service-class>
    <drop-upon-invalid></drop-upon-invalid>
    <bfd-trigger-path-down></bfd-trigger-path-down>
    <bfd-echo></bfd-echo>
    <bfd-echo-sourceipv4></bfd-echo-sourceipv4>
    <bfd-echo-sourceipv6></bfd-echo-sourceipv6>
    <bfd-echo-template></bfd-echo-template>
    <bfd-echo-backuptemplate></bfd-echo-backuptemplate>
    <source-address></source-address>
    <pce-delegation></pce-delegation>
    <passive-delegate-report-only></passive-delegate-report-only>
    <pce-reoptimization></pce-reoptimization>
    <pce-reoptimization-frequency></pce-reoptimization-frequency>
```

```
      <candidate-paths>
        <candidate-path>
          <protocol-origin></protocol-origin>
          <originator></originator>
          <discriminator></discriminator>
          <preference></preference>
          <router-target></router-target>
          <name></name>
          <bsid></bsid>
          <segment-lists>
            <segment-list>
              <name-ref></name-ref>
              <weight></weight>
            </segment-list>
          </segment-lists>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
  <policygroups>
    <policygroup>
      <groupid></groupid >
      <endpoint></endpoint>
      <best-effort-ipv4-default></best-effort-ipv4-default>
      <best-effort-ipv6-default></best-effort-ipv6-default>
      <color-dscps>
        <color-dscp>
          <color></color>
          <dscp-ipv4></dscp-ipv4>
          <dscp-ipv6></dscp-ipv6>
          <dscp-ipv4-default></dscp-ipv4-default>
          <dscp-ipv6-default></dscp-ipv6-default>
        </color-dscp>
      </color-dscps>
    </policygroup>
  </policygroups>
 </sr-policy>
</segment-routing>
```

Table description

Item	Description
Feature name	sr-policy
Table name	policy-attributes
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service-class	Traffic statistic service-class enable	N/A	Boolean: • true. • false.	N/A
traffic-statistics-interval	Traffic statistics interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds. Default: 30 seconds.	N/A
backup-hot-standby	Hot-standby backup	N/A	Boolean: • true. • false.	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • • 0—hot standby not enabled (default) , equal to backup-hot-standb false. • 1—enable policy hot standby, equal to backup-hot-standby true 2—enable policy hot standby with multilevel-backup	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
echo	SBFD echo	N/A	Boolean: • true. • false.	The echo column is finally effective when the sbfd column is configured at the same time
sbfd-proxy-reflector	SBFD proxy reflector function	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
sbfd-encapsulation-mode	Sbfd packets encaped with IPv4 mode for IPv6 Endpoint	N/A	Enumeration: • 0—IPv6 (default). • 1—IPv4.	N/A
sbfd-remotei	Remote	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
d	discriminator of a BFD session		Value range: 1 to 4294967295.	
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of the BFD template for the backup path	N/A	String. Length: 1 to 63 characters.	N/A
up-delay	All policy seglist up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
sbfd-detect-multiplier	Detection time multiplier.	N/A	Unsigned integer.	The value range for this parameter varies by device model.
sbfd-min-tx-interval	Minimum interval for transmitting SBFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this parameter varies by device model.
bgp-ls	Advertise link state information to BGP	N/A	**Boolean:** • **true.** • **false.**	N/A
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false(default).	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false(default).	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sourceipv4	Source IPv4 address for BFD echo sessions	N/A	IPv4: String, dotted decimal notation.	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo sessions	N/A	IPv6 address, hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
bfd-echo-template	BFD echo template name	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	BFD echo backup template name	N/A	String. Length: 1 to 63 characters.	N/A
switch-delay	Switchover delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds. Default: 5000 milliseconds.	N/A
delete-delay	Deletion delay	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time interval		Value range: 0 to 600000 milliseconds. Default: 20000 milliseconds.	
bfd-first-fail-timer	Timer that delays reporting the first BFD session setup failure	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
segment-lists	Information of the segment-lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A
pce-delegation	Enable the PCE delegation function	N/A	Boolean: • **true.** **false.**	N/A
passive-delegate-report-only	Report path information without delegating paths to the PCE	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimization	Enable the PCE reoptimization function	N/A	Boolean: • true. false.	N/A
pce-reoptimization-frequency	Frequency for PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds. Default: 3600 seconds.	To configure this parameter, make sure the pce-reoptimization value is true.

sr-policy/policy-attributes/segment-lists

This table contains segment list configuration information for SR policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
name	Segment list name	Index	String. Length: 1 to 128 characters.
segments	Information of the segments	Sublist	For details of the sublist, refer to the segments table.

sr-policy/policy-attributes/segment-lists/segments

This table contains segment configuration information for SR policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segments
Table type	Multi-instance table
Row name	segment
Restrictions	When creating, merging or replacing,the corresponding child table must be brought with it, otherwise the result will be successful but will not actually take effect.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Segment ID	Index	Unsigned integer. Value range: 1 to 65535.	You must set index together with the sid-value.
type	Segment type	N/A	Enumeration: • 1—segment-type-1. • 2—segment-type-2. • 3—segment-type-3. • 4—segment-type-4. • 5—segment-type-5. • 6—segment-type-6. • 7—segment-type-7. • 8—segment-type-8.	Only 1 is supported now.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9—segment-type-9. • 10—segment-type-10. • 11—segment-type-11.	
segment-types	Types of segments	Sublist	For details of the sublist, refer to the segment-types table.	N/A

sr-policy/policy-attributes/segment-lists/segments/segment-types

This table contains segment type configuration information for SR policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-types
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
segment-type-1	Segment declared by MPLS label	Sublist	For details of the sublist, refer to the segment-type-1 table.

sr-policy/policy-attributes/segment-lists/segments/segment-types/segment-type-1

This table contains segment-type-1 configuration information for SR policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-type-1
Table type	Multi-instance table
Row name	None
Restrictions	You must set segment-type-1 table together with the segments table. You can't delete segment-type-1 table only. When you delete segments table, segment-type-1 table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
sid-value	MPLS label value	N/A	Unsigned integer. Value range: 0, 2, 3, 16 to 1048575.

sr-policy/policies

This table contains SR-TE policy configuration information.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	Sr-policy
Table name	policies
Table type	Multi-instance table
Row name	policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	- Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A
name	SR-TE policy name	N/A	String. Length: 1 to 59 characters.	During a set operation, if the name column is not specified and no SR-TE policy associated with color and endpoint exists, an SR-TE policy named sr-color-endpoint will be automatically created. Once a policy name is created, it cannot be modified.
binding-sid	Binding SID information	Data structure	Members include: • dataplane. • value.	N/A
dataplane	Binding SID dataplane type	N/A	Enumeration: • 1—MPLS. • 2—SRv6.	Only 1 is supported now.
value	Binding SID value	N/A	Unsigned integer. Value range: 16 to 1048575.	N/A
admin-state	Administrative state of the policy	N/A	Enumeration: • 1—UP. • 2—DOWN	N/A
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service-class	Traffic statistic service-class enable	N/A	Boolean: • true. • false.	N/A
backup-hot-standby	Hot-standby backup	N/A	Boolean: • true. ——equal to backup-hot-standby-type 2 • false. ——equal to backup-hot-standby-type 1	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Use policy-attributes/backup-hot-standby-type configure (default).	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-typ

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—disable policy hot standby, equal to backup-hot-standby false. • 2—enable policy hot standby, equal to backup-hot-standby true. • 3—enable policy hot standby with multilevel-backup. .	e为准
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
echo	SBFD echo	N/A	Boolean: • true. • false.	The echo column is finally effective when the sbfd column is configured at the same time
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of the BFD template for the backup path	N/A	String. Length: 1 to 63 characters.	N/A
up-delay	Policy seglist up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
service-class	Service class for the policy	N/A	Unsigned integer. The value range varies by device model.	The smaller the value, the lower the priority.When service class no set, the default class is 255. Service class 255 means the lowest priority class.
drop-upon-inv alid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false	N/A
bfd-trigger-pa th-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sour ceipv4	Source IPv4 address for BFD echo sessions	N/A	IPv4: String, dotted decimal notation.	N/A
bfd-echo-sour ceipv6	Source IPv6 address for BFD echo sessions	N/A	IPv6: hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	Source address for srpolicy	N/A	IPv4: String, dotted decimal notation. IPv6: hexadecimal string, colon-separated.	Now source address onlyfor BFD echo, sbfd and sbfd echo packets
bfd-echo-template	Name of BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	Name of backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
candidate-paths	Information of the candidate paths	Sublist	For details of the sublist, refer to the candidate-paths table.	N/A
sbfd-proxy-reflector	SBFD proxy reflector function	N/A	Enumeration: • 0—Use global configuration(default). • 1—Enable. • 2—Disable.	N/A
sbfd-encapsulation-mode	Sbfd packets encaped with IPv4 mode for IPv6 Endpoint	N/A	Enumeration: • 0—Use global configuration(default). • 1—IPv4. • 2—IPv6.	N/A
pce-delegation	Enable the PCE delegation function	N/A	Boolean: • **true.** **false.**	N/A
passive-delegate-report-only	Report path information without delegating paths to the PCE	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimization	Enable the PCE reoptimization function	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimization-frequency	Frequency for PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds. Default: 3600 seconds.	To configure this parameter, make sure the pce-reoptimization value is true.

sr-policy/policies/candidate-paths

This table contains candidate path configuration for an SR policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	candidate-paths
Table type	Multi-instance table
Row name	candidate-path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that signaled/instantiated the candidate path on the headend	Index	String. Length: 1 to 160 characters.	This column will be ignored when protocol-origin is 20 in some products and when protocol-origin is 30.
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Unsigned integer. Value range: 1 to 65535 in some products.	N/A
preference	Preference of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535	You must set preference equal to discriminator in some products.
segment-lists	Information of segment lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A
router-target	Router ID of the destinaton node	N/A	IPv4: String, dotted decimal notation.	N/A
name	Path name of the candidate path	N/A	String. Length: 1 to 59 characters.	N/A
bsid	Binding-SID of the candidate path	N/A	Unsigned integer. Value range: 16 to 1048575.	N/A

sr-policy/policies/candidate-paths/segment-lists

This table contains segment list information of an SR-TE policy candidate path.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name-ref	Segment list for an SR-TE policy candidate path	Index	String. Length: 1 to 128 characters.	Reference to segment list name.
weight	Weight of the segment list for weighted load sharing	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A

sr-policy/policygroups

This table contains SR-TE policy group configuration information.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	policygroups
Table type	Multi-instance table

Item	Description
Row name	policygroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
groupid	Policy group ID	Index	Unsigned integer. Value range: 1 to 4294967295.
endpoint	IP address of the policy group endpoint	N/A	IPv4: String, dotted decimal notation.
best-effort-ipv4-default	Use SR-BE as the default policy for IPv4 packets	N/A	Boolean: • true • false
best-effort-ipv6-default	Use SR-BE as the default policy for IPv6 packets	N/A	Boolean: • true • false
color-dscps	Color-DSCP mappings	Sublist	For more information about the sublist, refer to the color-dscps table.

sr-policy/policygroups/color-dscps

This table contains color-DSCP mappings for an SR-TE policy group.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a hyphen (-) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or hyphen. By default, an SR-TE policy group does not have an IPv4 DSCP list for a color value.	Example: 1,2,3,5-8,10-20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a hyphen (-) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or hyphen. By default, an SR-TE policy group does not have an IPv6 DSCP list for a color value.	Example: 1,2,3,5-8,10-20. Available DSCP values are from 0 to 63.
dscp-ipv4-default	Whether to use this SR-TE policy as the default policy for IPv4 packets	N/A	Boolean: • true • false	N/A
dscp-ipv6-default	Whether to use this SR-TE policy as the default policy for IPv6 packets	N/A	Boolean: • true • false	N/A

Example

Configure an SR policy:

```
<v:segment-routing xc:operation="merge"
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-sr-policy">
  <v:sr-policy>
    <v:policy-attributes>
      <v:traffic-statistics>true</traffic-statistics>
```

```
  <v:traffic-statistics-interval>100</traffic-statistics-interval>
  <v:backup-hot-standby>true</backup-hot-standby>
  <v:backup-hot-standby-type>1</backup-hot-standby-type>
  <v:sbfd>true</sbfd>
  <v:up-delay>100</up-delay>
  <v:segment-lists>
    <v:segment-list>
      <v:name>abc</v:name>
      <v:segments>
        <v:segment>
          <v:index>10</v:index>
          <v:type>1</v:type>
          <v:segment-types>
            <v:segment-type-1>
              <v:sid-value>16100</v:sid-value>
            </v:segment-type-1>
          </v:segment-types>
        </v:segment>
      </v:segments>
    </v:segment-list>
  </v:segment-lists>
</v:policy-attributes>
<v:policies>
  <v:policy>
    <v:color>1</v:color>
    <v:endpoint>1.2.3.4</v:endpoint>
    <v:name>aaa</v:name>
    <v:priority>128</v:priority>
    <v:binding-sid>
      <v:dataplane>1</v:dataplane>
      <v:value>15000</v:value>
    </v:binding-sid>
    <v:backup-hot-standby>true</backup-hot-standby>
    <v:backup-hot-standby-type>1</backup-hot-standby-type>
    <v:sbfd>true</sbfd>
    <v:up-delay>200</up-delay>
    <v:candidate-paths>
      <v:candidate-path>
        <v:protocol-origin>30</v:protocol-origin>
        <v:originator>0</v:originator>
        <v:discriminator>110</v:discriminator>
        <v:preference>110</v:preference>
        <v:segment-lists>
          <v:segment-list>
            <v:name-ref>www</v:name-ref>
            <v:weight>10</v:weight>
          </v:segment-list>
        </v:segment-lists>
```

```
        </v:candidate-path>
      </v:candidate-paths>
    </v:policy>
  </v:policies>
  <v:policygroups>
    <v:policygroup>
      <v:groupid>1</v:groupid>
      <v:endpoint>1.2.3.4</v:endpoint>
      <v:color-dscps>
        <v:color-dscp>
          <v:color>1</color>
          <v:dscp-ipv4>33 34 35-41 42 44-60 61-62 63</v:dscp-ipv4>
          <v:dscp-ipv6>0 1 2-12 13-14 15-16 17</v:scp-ipv6>
          <v:dscp-ipv4-default>false</v:dscp-ipv4-default>
          <v:dscp-ipv6-default>true</v:dscp-ipv6-default>
        </v:color-dscp>
      </v:color-dscps>
    </v:policygroup>
  </v:policygroups>
 </v:sr-policy>
</v:segment-routing>
```

Contents

SR-POLICY 1

sr-policy/policy-attributes 1
XML structure 1
Table description 5
Columns 6
sr-policy/policy-attributes/segment-lists 8
XML structure 8
Table description 8
Columns 9
sr-policy/policy-attributes/segment-lists/segments 9
XML structure 9
Table description 9
Columns 9
sr-policy/policy-attributes/segment-lists/segments/segment-types 10
XML structure 10
Table description 10
Columns 10
sr-policy/policy-attributes/segment-lists/segments/segment-type-1 10
XML structure 10
Table description 11
Columns 11
sr-policy/policies 11
XML structure 11
Table description 11
Columns 11
sr-policy/policies/candidate-paths 16
XML structure 16
Table description 16
Columns 16
sr-policy/policies/candidate-paths/segment-lists 17
XML structure 17
Table description 18
Columns 18
sr-policy/policies/candidate-paths/segment-lists/service-classes 19
XML structure 19
Table description 19
Columns 20
sr-policy/policies/candidate-paths/segment-lists/forwarding-paths 21
XML structure 21
Table description 21
Columns 21
sr-policy/policies/candidate-paths/segment-lists/forwarding-paths/service-classes 22
XML structure 23
Table description 23
Columns 23
sr-policy/policies/candidate-paths/segment-lists/forwarding-paths/outgoing-sids 24
XML structure 24
Table description 24
Columns 24
sr-policy/policygroups 25
XML structure 25
Table description 25
Columns 25
sr-policy/policygroups/color-dscps 25
XML structure 25
Table description 26
Columns 26

Example 27

SR-POLICY

The namespace of SR-POLICY is "urn:ietf:params:xml:ns:yang:ietf-sr-policy".

sr-policy/policy-attributes

This table contains policy-attributes configuration information for SR policy.

XML structure

```
<segment-routing>
  <sr-policy>
    <policy-attributes>
      <traffic-statistics></traffic-statistics>
      <traffic-service-class></traffic-service-class>
      <traffic-statistics-interval></traffic-statistics-interval>
      <backup-hot-standby></backup-hot-standby>
      <backup-hot-standby-type></backup-hot-standby-type>
      <sbfd></sbfd>
      <echo></echo>
      <sbfd-proxy-reflector></sbfd-proxy-reflector>
      <sbfd-encapsulation-mode></sbfd-encapsulation-mode>
      <sbfd-remoteid></sbfd-remoteid>
      <sbfd-template></sbfd-template>
      <sbfd-backuptemplate></sbfd-backuptemplate>
      <up-delay></up-delay>
      <sbfd-detect-multiplier></sbfd-detect-multiplier>
      <sbfd-min-tx-interval></sbfd-min-tx-interval>
      <bgp-ls></bgp-ls>
      <drop-upon-invalid></drop-upon-invalid>
      <bfd-trigger-path-down></bfd-trigger-path-down>
      <bfd-echo></bfd-echo>
      <bfd-echo-sourceipv4></bfd-echo-sourceipv4>
      <bfd-echo-sourceipv6></bfd-echo-sourceipv6>
      <bfd-echo-template></bfd-echo-template>
      <bfd-echo-backuptemplate></bfd-echo-backuptemplate>
      <source-address></source-address>
      <switch-delay></switch-delay>
      <delete-delay></delete-delay>
      <bfd-first-fail-timer></bfd-first-fail-timer>
      <pce-delegation></pce-delegation>
      <passive-delegate-report-only></passive-delegate-report-only>
      <pce-reoptimization></pce-reoptimization>
      <pce-reoptimization-frequency></pce-reoptimization-frequency>
      <segment-lists>
        <segment-list>
          <name></name>
```

```
      <segments>
        <segment>
          <index></index>
          <type></type>
          <segment-types>
            <segment-type-1>
              <sid-value></sid-value>
            </segment-type-1>
          </segment-types>
          <validate></validate>
        </segment>
      </segments>
    </segment-list>
  </segment-lists>
</policy-attributes>
<policies>
  <policy>
    <color></color>
    <endpoint></endpoint>
    <name></name>
    <priority></priority>
    <oper-state></oper-state>
    <forwarding-state></forwarding-state>
    <up-time></up-time>
    <down-time></down-time>
    <down-reason></down-reason>
    <binding-sid>
      <dataplane></dataplane>
      <value></value>
      <alloc-mode></alloc-mode>
      <allocated-sid></allocated-sid>
      <oper-state></oper-state>
    </binding-sid>
    <counters>
      <pkts></pkts>
      <octets></octets>
      <inpkts></inpkts>
      <inoctets></inoctets>
      <avg-bit-rate></avg-bit-rate>
      <avg-octet-rate></avg-octet-rate>
      <avg-packet-rate></avg-packet-rate>
      <rt-bit-rate></rt-bit-rate>
      <rt-octet-rate></rt-octet-rate>
      <rt-packet-rate></rt-packet-rate>
    </counters>
    <admin-state></admin-state>
    <traffic-statistics></traffic-statistics>
    <traffic-service-class></traffic-service-class>
```

```
<backup-hot-standby></backup-hot-standby>
<backup-hot-standby-type></backup-hot-standby-type>
<sbfd></sbfd>
<echo></echo>
<sbfd-proxy-reflector></sbfd-proxy-reflector>
<sbfd-encapsulation-mode></sbfd-encapsulation-mode>
<sbfd-remoteid></sbfd-remoteid>
<sbfd-template></sbfd-template>
<sbfd-backuptemplate></sbfd-backuptemplate>
<up-delay></up-delay>
<service-class></service-class>
<drop-upon-invalid></drop-upon-invalid>
<bfd-trigger-path-down></bfd-trigger-path-down>
<bfd-echo></bfd-echo>
<bfd-echo-sourceipv4></bfd-echo-sourceipv4>
<bfd-echo-sourceipv6></bfd-echo-sourceipv6>
<bfd-echo-template></bfd-echo-template>
<bfd-echo-backuptemplate></bfd-echo-backuptemplate>
<pce-delegation></pce-delegation>
<passive-delegate-report-only></passive-delegate-report-only>
<pce-reoptimization></pce-reoptimization>
<pce-reoptimization-frequency></pce-reoptimization-frequency>
<candidate-paths>
  <candidate-path>
    <protocol-origin></protocol-origin>
    <originator></originator>
    <discriminator></discriminator>
    <preference></preference>
    <name></name>
   <router-target></router-target>
   <bsid></bsid>
    <binding-sid>
      <dataplane></dataplane>
      <value></value>
    </binding-sid>
    <is-best-candidate-path></is-best-candidate-path>
    <non-selection-reason></non-selection-reason>
    <is-valid></is-valid>
    <segment-lists>
      <segment-list>
        <name-ref></name-ref>
        <weight></weight>
        <is-valid></is-valid>
        <bfd-state></bfd-state>
        <forwarding-state></forwarding-state>
        <pkts></pkts>
        <octets></octets>
        <rate>
```

```
  <avg-bit-rate></avg-bit-rate>
  <avg-octet-rate></avg-octet-rate>
  <avg-packet-rate></avg-packet-rate>
  <rt-bit-rate></rt-bit-rate>
  <rt-octet-rate></rt-octet-rate>
  <rt-packet-rate></rt-packet-rate>
</rate>
<service-classes>
  <service-class>
    <service-class-id></service-class-id>
    <pkts></pkts>
    <octets></octets>
    <rate>
      <avg-bit-rate></avg-bit-rate>
      <avg-octet-rate></avg-octet-rate>
      <avg-packet-rate></avg-packet-rate>
      <rt-bit-rate></rt-bit-rate>
      <rt-octet-rate></rt-octet-rate>
      <rt-packet-rate></rt-packet-rate>
    </rate>
  </service-class>
</service-classes>
<forwarding-paths>
  <forwarding-path>
    <path-id></path-id>
    <next-hop-address></next-hop-address>
    <next-hop-table-id></next-hop-table-id>
    <outgoing-interface></outgoing-interface>
    <outgoing-sids>
      <labels>
        <label></label>
      </labels>
    </outgoing-sids>
    <is-protected></is-protected>
    <is-pure-backup></is-pure-backup>
    <weight></weight>
    <pkts></pkts>
    <octets></octets>
    <rate>
      <avg-bit-rate></avg-bit-rate>
      <avg-octet-rate></avg-octet-rate>
      <avg-packet-rate></avg-packet-rate>
      <rt-bit-rate></rt-bit-rate>
      <rt-octet-rate></rt-octet-rate>
      <rt-packet-rate></rt-packet-rate>
    </rate>
    <service-classes>
      <service-class>
```

```
                <service-class-id></service-class-id>
                <pkts></pkts>
                <octets></octets>
                <rate>
                  <avg-bit-rate></avg-bit-rate>
                  <avg-octet-rate></avg-octet-rate>
                  <avg-packet-rate></avg-packet-rate>
                  <rt-bit-rate></rt-bit-rate>
                  <rt-octet-rate></rt-octet-rate>
                  <rt-packet-rate></rt-packet-rate>
                </rate>
              </service-class>
            </service-classes>
          </forwarding-path>
        </forwarding-paths>
      </segment-list>
    </segment-lists>
  </candidate-path>
</candidate-paths>
</policy>
</policies>
<policygroups>
  <policygroup>
    <groupid></groupid >
    <endpoint></endpoint>
    <best-effort-ipv4-default></best-effort-ipv4-default>
    <best-effort-ipv6-default></best-effort-ipv6-default>
    <color-dscps>
      <color-dscp>
        <color></color>
        <dscp-ipv4></dscp-ipv4>
        <dscp-ipv6></dscp-ipv6>
        <dscp-ipv4-default></dscp-ipv4-default>
        <dscp-ipv6-default></dscp-ipv6-default>
      </color-dscp>
    </color-dscps>
  </policygroup>
</policygroups>
</sr-policy>
</segment-routing>
```

Table description

Item	Description
Feature name	sr-policy
Table name	policy-attributes
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service-class	Traffic statistics service-class enable	N/A	Boolean: • true. • false.	N/A
traffic-statistics-interval	Traffic statistics interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds. Default: 30 seconds.	N/A
backup-hot-standby	Hot-standby backup	N/A	Boolean: • true. ——equal to backup-hot-standby-type 1 • false. ——equal to backup-hot-standby-type 0	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—hot standby not enabled (default) , equal to backup-hot-standb false. • 1—enable policy hot standby, equal to backup-hot-standby true • 2—enable policy hot standby with multilevel-backup .	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
echo	SBFD echo	N/A	Boolean: • true. • false.	The echo column is finally effective when the sbfd column is configured at the same time
sbfd-proxy-reflector	SBFD proxy reflector function	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
sbfd-encapsulation-mode	Sbfd packets encaped with IPv4 mode for IPv6 Endpoint	N/A	Enumeration: • 0—IPv6 (default). • 1—IPv4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of the BFD template for the backup path	N/A	String. Length: 1 to 63 characters.	N/A
up-delay	All policy segment list up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
sbfd-detect-multiplier	Detection time multiplier.	N/A	Unsigned integer.	The value range for this parameter varies by device model.
sbfd-min-tx-interval	Minimum interval for transmitting SBFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this parameter varies by device model.
bgp-ls	Advertise link state information to BGP	N/A	Boolean: • **true.** • **false.**	N/A
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false.	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sourceipv4	Source IPv4 address for BFD echo session	N/A	IPv4: String, dotted decimal notation.	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo session	N/A	IPv6 address, hexadecimal string, colon-separated.	N/A
bfd-echo-template	BFD echo template name	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	BFD echo backup template name	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
switch-delay	Switchoverdelay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A
delete-delay	Deletion delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A
bfd-first-fail-timer	Timer that delays reporting the first BFD session setup failure	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
segment-lists	Information of the segment-lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A
pce-delegation	Enable the PCE delegation function	N/A	Boolean: • **true.** **false.**	N/A
passive-delegate-report-only	Report path information without delegating paths to the PCE	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimization	Enable the PCE reoptimization function	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimization-frequency	Frequency for PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds.	N/A

sr-policy/policy-attributes/segment-lists

This table contains segment list configuration information for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Segment-list name	Index	String. Length: 1 to 128 characters.	N/A
segments	Information of the segments	Sublist	For details of the sublist, refer to the segments table.	N/A

sr-policy/policy-attributes/segment-lists/segments

This table contains segment configuration information for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segments
Table type	Multi-instance table
Row name	segment
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Segment ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
type	Segment type	N/A	Enumeration: • 1—segment-type-1. • 2—segment-type-2. • 3—segment-type-3. • 4—segment-type-4. • 5—segment-type-5. • 6—segment-type-6. • 7—segment-type-7. • 8—segment-type-8. • 9—segment-type-9. • 10—segment-type-10. • 11—segment-type-11.	Only 1 is supported now.

Column name	Column description	Column type	Data type and restrictions	Remarks
segment-types	Types of segments	Sublist	For details of the sublist, refer to the segment-types table.	N/A
validate	Validity of the segment	N/A	Boolean: • true—Valid. • false—Invalid.	N/A

sr-policy/policy-attributes/segment-lists/segments/segment-types

This table contains segment-type configuration information for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-types
Table type	Multi-instance table
Row name	None
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
segment-type-1	Segment declared by MPLS label	Sublist	For details of the sublist, refer to the segment-type-1 table.	N/A

sr-policy/policy-attributes/segment-lists/segments/segment-type-1

This table contains segment-type-1 configuration information for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-type-1
Table type	Multi-instance table
Row name	None
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sid-value	MPLS label value	N/A	Unsigned integer. Value range: 0, 2, 3, 16 to 1048575.	The value range for this parameter varies by device model.

sr-policy/policies

This table contains SR-TE policy configuration information.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	policies
Table type	Multi-instance table
Row name	policy
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
endpoint	IP address of the policy endpoint	Index	Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A
name	SR-TE policy name	N/A	String. Length: 1 to 59 characters.	N/A
oper-state	SR-TE policy state	N/A	Enumeration: • 1—UP. • 2—DOWN.	N/A
forwarding-state	SR-TE policy forwarding-state	N/A	String. Length: 1 to 51 characters.	N/A
priority	Priority of the policy	N/A	Unsigned char.	N/A
up-time	Policy up time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
down-time	Policy down time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
down-reason	Policy down reason	N/A	String. Length: 1 to 51 characters.	N/A
binding-sid	Binding SID information	Data structure	Members include: • dataplane. • value. • alloc-mode • allocated-sid • oper-state	N/A
dataplane	Binding SID dataplane type	N/A	Enumeration: • 1—MPLS. • 2—SRv6.	N/A
value	Binding SID value	N/A	Unsigned integer.	N/A
alloc-mode	Binding SID type	N/A	Enumeration: • 1—explicit, explicitly specified BSID. • 2—dynamic, dynamically allocated BSID.	N/A
allocated-sid	Allocated SID value for the binding SID	N/A	Unsigned integer.	N/A
oper-state	Binding SID operational state	N/A	Enumeration: • 1—ALLOC-PENDING • 3—PROGRAMMED. • 4—CONFLICT.	N/A
counters	Forwarding statistics counters	Data structure	Members include: • pkts. • octets. • inpkts	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• inoctets • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	
pkts	Number of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
inpkts	Number of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
inoctets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
avg-bit-rate	Average rate of bits forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average rate of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average rate of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
admin-state	Administrative state of the policy	N/A	Enumeration: • 1—UP. • 2—DOWN	N/A
backup-hot-standby	Hot-standby backup	N/A	Boolean: • true. ——equal to backup-hot-standby-type 2 • false. ——equal to backup-hot-standby-type 1	当backup-hot-standby和backup-hot-standby-type同时存

Column name	Column description	Column type	Data type and restrictions	Remarks
				在时，以backup-hot-standby-type为准
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Use policy-attributes/backup-hot-standby-type configure (default). • 1—disable policy hot standby, equal to backup-hot-standby false. • 2—enable policy hot standby, equal to backup-hot-standby true. • 3—enable policy hot standby with multilevel-backup.	当backup-hot-standby和backup-hot-standby-type同时存在时，以backup-hot-standby-type为准
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
echo	SBFD echo	N/A	Boolean: • true. • false.	The echo column is finally effective when the sbfd column is configured at the same time
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backuptemplate	Name of the BFD template for the backup path	N/A	String. Length: 1 to 63 characters.	N/A
up-delay	Policy segment list up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
service-class	Service class for the policy	N/A	Unsigned integer. The value range varies by device model.	The smaller the value, the lower the priority.When service class no set, the default class is 255. Service class 255 means the lowest priority class.
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service-class	Traffic statistics service-class enable	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false.	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sourceipv4	Source IPv4 address for BFD echo session	N/A	IPv4: String, dotted decimal notation.	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo session	N/A	IPv6: hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
source-address	Source address for srpolicy	N/A	IPv4: String, dotted decimal notation. IPv6: hexadecimal string, colon-separated.	Now source address only for BFD echo, sbfd and sbfd echo packets
bfd-echo-template	Name of BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	Name of backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
candidate-paths	Information of the candidate paths	Sublist	For details of the sublist, refer to the candidate-paths table.	N/A
sbfd-proxy-reflector	SBFD proxy reflector function	N/A	Enumeration: • 0—Use global configuration(default). • 1—Enable. • 2—Disable.	N/A
sbfd-encapsulation-mode	Sbfd packets encaped with IPv4 mode for IPv6 Endpoint	N/A	Enumeration: • 0—Use global configuration(default). • 1—IPv4. • 2—IPv6.	N/A
pce-delegation	Enable the PCE delegation function	N/A	Boolean: • **true.** **false.**	N/A
passive-delegate-report-only	Report path information without delegating paths to the PCE	N/A	Boolean: • **true.** **false.**	N/A
pce-reoptimi	Enable the PCE	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
zation	reoptimization function		• **true.** **false.**	
pce-reoptimization-frequency	Frequency for PCE reoptimization	N/A	Unsigned integer. Value range: 1 to 604800 seconds.	N/A

sr-policy/policies/candidate-paths

This table contains candidate path configuration information for an SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	candidate-paths
Table type	Multi-instance table
Row name	candidate-path
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that signaled/instantiated the candidate path on the headend	Index	String. Length: 1 to 160 characters.	N/A
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535 in some products.	N/A
preference	Preference of the candidate path	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 65535	
name	SR policy candidate-path name	N/A	String. Length: 1 to 59 characters.	N/A
binding-sid	Binding SID infomation	Data structure	Members include: • dataplane. • value.	N/A
dataplane	Binding SID dataplane type	N/A	Enumeration: • 1—MPLS. • 2—SRv6.	N/A
value	Binding SID value	N/A	Unsigned integer.	N/A
is-best-candidate-path	Best candidate path	N/A	Boolean: • true • false	N/A
non-selection-reason	Reason when the candidate path was not selected	N/A	String. Length: 1 to 51 characters.	For instance: Candidate-path-not-selected-no-valid-segment-list. Candidate-path-not-selected-empty-segment-list. Candidate-path-not-selected-not-best. Candidate-path-not-selected-invalid-binding-sid.
is-valid	Validity of the segment list	N/A	Boolean: • true—Valid. • false—Invalid.	N/A
router-target	Router ID of the destinaton node	N/A	IPv4: String, dotted decimal notation.	N/A
bsid	Binding-SID of the candidate path	N/A	Unsigned integer.	N/A
segment-lists	Information of segment lists	Sublist	For the details of the sublist, refer to the segment-lists table.	N/A

sr-policy/policies/candidate-paths/segment-lists

This table contains segment list information of an SR-TE policy candidate path.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name-ref	Segment list for an SR-TE policy candidate path	Index	String. Length: 1 to 128 characters.	Reference to segment list name.
is-valid	Validity of the segment list	N/A	Boolean: • true—Valid. • false—Invalid.	N/A
weight	Weight of the segment list for weighted load sharing	N/A	Unsigned integer.	N/A
bfd-state	BFD state of the sid list	N/A	String. Length: 1 to 59 characters.	N/A
forwarding-state	SR-TE policy segment list forwarding-state	N/A	String. Length: 1 to 59 characters.	N/A
pkts	Number of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
rate	Forwarding rate via the segment list	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average rate of bits forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average rate of bytes forwarded	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	via the segment list			
avg-packet-rate	Average rate of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
service-classes	Service-class forwarding Information of the segment list	Sublist	For details of the sublist, refer to the segment-list service-classes table.	N/A
forwarding-paths	Information of the forwarding-paths	Sublist	For details of the sublist, refer to the forwarding-paths table.	N/A

sr-policy/policies/candidate-paths/segment-lists/service-classes

This table contains service-class forwarding information of an SR-TE policy segment-list.

XML structure

Please refer to the XML Structure of sr-policy.

Table description

Item	Description
Feature name	sr-policy
Table name	service-classes
Table type	Multi-instance table
Row name	service-class
Restrictions	None.
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class-id	service class ID	index	Unsigned integer. Value range: 0 to 255.	N/A
packets	Number of service class packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of service class bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rate	Service class forwarding rate via the segment list	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

sr-policy/policies/candidate-paths/segment-lists/forwarding-paths

This table contains forwarding-paths information for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	forwarding-paths
Table type	Multi-instance table
Row name	forwarding-path
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-id	Primary path ID	Index	Unsigned char.	N/A
next-hop-address	Nexthop address	N/A	Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A
next-hop-table-id	Table ID for the nexthop address	N/A	Unsigned integer.	N/A
outgoing-interface	Outgoing interface	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
outgoing-sids	Information of the outgoing SIDs	Sublist	For details of the sublist, refer to the outgoing-sids table.	N/A
is-protected	Whether the path has a backup path	N/A	Boolean: • true • false	N/A
is-pure-backu	Whether the path	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
p	is a backup path		• true • false	
weight	Weight of the path for W-ECMP balancing	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
pkts	Number of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
rate	Forwarding rate via the path	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average rate of bits forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average rate of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average rate of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
service-classes	Service-class forwarding Information of the path	Sublist	For details of the sublist, refer to the forwarding service-classes table.	N/A

sr-policy/policies/candidate-paths/segment-lists/forwarding-paths/service-classes

This table contains service-class forwarding information of forwarding path for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy.

Table description

Item	Description
Feature name	sr-policy
Table name	service-classes
Table type	Multi-instance table
Row name	service-class
Restrictions	None.
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class-id	Service class ID	index	Unsigned integer. Value range: 0 to 255.	N/A
pkts	Number of service class packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of service class bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rate	Service class forwarding rate via the path	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average forwarding rate	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of packets associated with the service class		Value range: 0 to 2^{64} – 1.	
rt-bit-rate	Real-time forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

sr-policy/policies/candidate-paths/segment-lists/forwarding-paths/outgoing-sids

This table contains outgoing SIDs information of forwarding paths for SR-TE policy.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	outgoing-sids
Table type	Multi-instance table
Row name	labels
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions
label	MPLS label value	Index	Unsigned integer. Value range: 0, 3, 16 to 1048575.

sr-policy/policygroups

This table contains SR-TE policy group configuration information.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	policygroups
Table type	Multi-instance table
Row name	policygroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
groupid	Policy group ID	Index	Unsigned integer. Value range: 1 to 4294967295.
endpoint	IP address of the policy group endpoint	N/A	IPv4: String, dotted decimal notation.
best-effort-ipv4-default	Use SR-BE as the default policy for IPv4 packets	N/A	Boolean: • true • false
best-effort-ipv6-default	Use SR-BE as the default policy for IPv6 packets	N/A	Boolean: • true • false
color-dscps	Color-DSCP mapping	Sublist	For more information about the color-dscps table.

sr-policy/policygroups/color-dscps

This table containscolor-DSCP mappings for an SR-TE policy group.

XML structure

Please refer to the XML Structure of sr-policy/policy-attributes.

Table description

Item	Description
Feature name	sr-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a hyphen (-) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or hyphen. By default, an SR-TE policy group does not have an IPv4 DSCP list for a color value.	Example: 1,2,3,5-8,10-20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a hyphen (-) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or hyphen. By default, an SR-TE policy group does not have an IPv6 DSCP list for a color value.	Example: 1,2,3,5-8,10-20. Available DSCP values are from 0 to 63.
dscp-ipv4-default	Whether to use this SR-TE policy as the default policy for IPv4 packets	N/A	Boolean: • true • false	N/A
dscp-ipv6-default	Whether to use this SR-TE policy as the default	N/A	Boolean: • true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy for IPv6 packets		• false	

Example

Get SR-TE policy information.

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get-bulk>
    <filter type="subtree">
      <segment-routing xmlns="urn:ietf:params:xml:ns:yang:ietf-sr-policy">
        <sr-policy>
          <policy-attributes>
            <segment-lists>
              <segment-list>
                <name>abc</name>
                <segments>
                  <segment>
                    <index/>
                  </segment>
                </segments>
              </segment-list>
            </segment-lists>
          </policy-attributes>
          <policies>
            <policy>
              <color>12</color>
              <endpoint>12.1.2.3</endpoint>
              <candidate-paths>
                <candidate-path>
                  <protocol-origin/>
                  <originator/>
                  <discriminator/>
                  <segment-lists>
                    <segment-list>
                      <name-ref/>
                        <forwarding-paths>
                          <forwarding-path>
                            <path-id/>
                            <outgoing-sids>
                             <labels>
                                <label/>
                             </labels>
                           </outgoing-sids>
                         </forwarding-path>
```

```
                  </forwarding-paths>
                </segment-list>
              </segment-lists>
            </candidate-path>
          </candidate-paths>
        </policy>
        </policies>
        <policygroups>
          <policygroup>
            <groupid>1</groupid >
            <endpoint></endpoint>
            <best-effort-ipv4-default></best-effort-ipv4-default>
            <best-effort-ipv6-default></best-effort-ipv6-default>
            <color-dscps>
              <color-dscp>
                <color>3</color>
                <dscp-ipv4></dscp-ipv4>
                <dscp-ipv6></dscp-ipv6>
                <dscp-ipv4-default></dscp-ipv4-default>
                <dscp-ipv6-default></dscp-ipv6-default>
              </color-dscps>
            </color-dscps>
          </policygroup>
        </policygroups>
      </sr-policy>
    </segment-routing>
  </filter>
 </get-bulk>
</rpc>
```

Contents

SR-POLICY 2
ietf-sr-policy/attributes 2
ietf-sr-policy/policies 3
ietf-sr-policy/policies/candidate-paths 5
ietf-sr-policy/segment-lists/segments 5
ietf-sr-policy/segment-lists/segments/segment-type-1 6
ietf-sr-policy/policygroups 6
ietf-sr-policy/policygroups/color-dscps 6

SR-POLICY

ietf-sr-policy/attributes

Message	Explanation
To configure traffic-service-class, you must configure the traffic-statistics column. 当配置traffic-service-class时，必须指定traffic-statistics列	To configure traffic-service-class, you must configure the traffic-statistics column. 当配置traffic-service-class时，必须指定traffic-statistics列
When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列	When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列
To configure BFD, you must configure the bfd-echo column. 当配置BFD时，必须指定bfd-echo列。	To configure BFD, you must configure the bfd-echo column. 当配置bfd时，必须携带bfd-echo列。
When you create, merge or replace, if you configure the bfd-echo column as true, the bfd-echo-sourceipv4 or bfd-echo-sourceipv6 column must be carried.. create、merge、replace操作时，如果bfd列配置为true，必须携带bfd-echo-sourceipv4列或bfd-echo-sourceipv6列。	When you create, merge or replace, if you configure the bfd-echo column as true, the bfd-echo-sourceipv4 or bfd-echo-sourceipv6 column must be carried. create、merge、replace操作时，如果bfd列配置为true，必须携带bfd-echo-sourceipv4列或bfd-echo-sourceipv6列。
When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv4, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv4，bfd-echo-template，bfd-echo-backuptemplate列。	When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv4, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv4，bfd-echo-template，bfd-echo-backuptemplate列。
When you create, merge or replace, bfd-echo-sourceipv4 and bfd-echo-sourceipv6 cannot be set at the same time. Create、merge、replace操作时，bfd-echo-sourceipv4 和 bfd-echo-sourceipv6列不能同时配置。	When you create, merge or replace, bfd-echo-sourceipv4 and bfd-echo-sourceipv6 cannot be set at the same time. Create、merge、replace操作时，bfd-echo-sourceipv4 和 bfd-echo-sourceipv6列不能同时配置。
To configure SBFD, you must configure the sbfd column or echo column. 当配置SBFD时，必须指定sbfd列或echo列。	To configure SBFD, you must configure the sbfd column or echo column. 当配置 SBFD 时，必须指定 sbfd 列或 echo 列。
When you create, merge or replace, if you set the sbfd column to false, other related sbfd columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。	When you create, merge or replace, if you set the sbfd column to false, other related sbfd columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。
The sbfd-proxy-reflector column must be set together with the sbfd column. The The Sbfd-proxy-reflector需要和sbfd同时配置。	The sbfd-proxy-reflector column must be set together with the sbfd column. 创建sbfd-proxy-reflector时，需要设置sbfd列。

The sbfd-encapsulation-mode column must be set together with the sbfd column. Sbfd-encapsulation-mode需要和sbfd同时配置。	The sbfd-encapsulation-mode column must be set together with the sbfd column. 创建Sbfd-encapsulation-mode时，需要设置sbfd列。

ietf-sr-policy/policies

Message	Explanation
Segment Routing is not supported.. 不支持Segment Routing。	Segment Routing is not support. 不支持 SR 相关配置。
The SR policy is not configured. 没有配置SRPOLICY。	SRPOLICY process has not been started. SRPOLICY进程没有启动。
The SR policy name already exists and cannot be modified. SR Policy名字已存在不能修改。	During executing merge or replace operation, if the policy has configured name and both names are not same. 执行merge或者replace操作时，policy 已有name，并且下发的name和该name不同，则不能修改policy name。
SR policy name cannot be deleted. 不允许删除SR policy的名称。	During executing delete or remove operation, not permit deleting name of policy. 执行delete或者remove操作时，不允许删除name。
The dataplane attribute column is required. 需要配置dataplane属性列。	During executing create、merge or replace operation, the dataplane attribute column is required. 执行create 、merge或者replace操作时，下发bsid的配置需要同时下dataplane 和value。 Please configure dataplane attribute column.
The value attribute column is required. 需要配置value属性列。	During executing create、merge or replace operation, the value attribute column is required. 执行create 、merge或者replace操作时，下发bsid的配置需要同时下dataplane 和value。 Please configure value attribute column.
Invalid dataplane value. The value can only be 1. dataplane的值无效，目前仅支持1。	During executing create、merge or replace operation, the value of dataplane attribute column can only be 1. 执行create 、merge或者replace操作时，下发的dataplane只能为1。 Please set 1 for . dataplane attribute column.
Policy name is conflict with other policy. Policy name与其他policy名称冲突。	During executing create、merge or replace operation, policy name is conflict with other policy. 执行create 、merge或者replace操作时，下发的name已被其他policy配置。 Please try other name for .the policy name.
TE is not enable and cannot be configured. TE未使能，不允许配置。	During executing create、merge or replace operation, TE is not enable and cannot be configured. 执行create 、merge或者replace操作时，TE未使能，不允许配置。
SRP is doing reset and cannot be configured. SRP进程正在reset,不允许配置。	Can’t configure the router while SRP process is doing reset. SRP进程正在做reset，不允许配置。
Segment-routing isn’t configured. 未配置Segment-routing。	Segment-routing isn’t configured. Segment-routing配置未使能。
To configure traffic-service-class, you must	To configure traffic-service-class, you must configure the

configure the traffic-statistics column. 当配置traffic-service-class时，必须指定traffic-statistics列	traffic-statistics column. 当配置traffic-service-class时，必须指定traffic-statistics列
When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列	When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列
When you create, merge or replace, if you configure the traffic-statistics column as false, traffic-service-class column is not allowed to be configured. create、merge、replace操作时，如果traffic-statistics列配置为false，不允许traffic-service-class配置列	When you create, merge or replace, if you configure the traffic-statistics column as false, traffic-service-class column is not allowed to be configured. create、merge、replace操作时，如果traffic-statistics列配置为false，不允许traffic-service-class配置列
To configure BFD, you must configure the bfd-echo column. 当配置BFD时，必须指定bfd-echo列。	To configure BFD, you must configure the bfd-echo column. 当配置bfd时，必须携带bfd-echo列。
When you create, merge or replace, if you configure the bfd-echo column as false, other bfd-echo columns are not allowed to be configured. create、merge、replace操作时，如果bfd列配置为false，不允许配置其他bfd-echo列。	When you create, merge or replace, if you configure the bfd-echo column as false, other bfd-echo columns are not allowed to be configured. create、merge、replace操作时，如果bfd列配置为false，不允许配置其他bfd-echo列。
When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv4, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv4，bfd-echo-template，bfd-echo-backuptemplate列。	When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv4, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv4，bfd-echo-template，bfd-echo-backuptemplate列。
When you create, merge or replace, bfd-echo-sourceipv4 and bfd-echo-sourceipv6 cannot be set at the same time. Create、merge、replace操作时，bfd-echo-sourceipv4 和 bfd-echo-sourceipv6列不能同时配置。	When you create, merge or replace, bfd-echo-sourceipv4 and bfd-echo-sourceipv6 cannot be set at the same time. Create、merge、replace操作时，bfd-echo-sourceipv4 和 bfd-echo-sourceipv6列不能同时配置。
To configure SBFD, you must configure the sbfd column or echo column. 当配置SBFD时，必须指定sbfd列或echo列。	To configure SBFD, you must configure the sbfd column or echo column. 当配置 SBFD 时，必须指定 sbfd 列或 echo 列。
When you create, merge or replace, if you set the sbfd column to false, other sbfd related columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。	When you create, merge or replace, if you set the sbfd column to false, other sbfd related columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。
When you create, merge or replace, the sbfd-remoteid column must be set together with the sbfd column. Create、merge、replace操作时，sbfd-remoteid 需要和sbfd列同时配置。	When you create, merge or replace, sbfd-remoteid must be set together with sbfd column. Create、merge、replace操作时，sbfd-remoteid 需要和sbfd列同时配置。
SR-TE Policy with an IPv6 endpoint is not supported. 不支持endpoint为IPv6的SR-TE Policy。	SR-TE Policy with an IPv6 endpoint is not supported. 不支持endpoint为IPv6的SR-TE Policy。

The sbfd-proxy-reflector column must be set together with the sbfd column. The The Sbfd-proxy-reflector需要和sbfd同时配置。	The sbfd-proxy-reflector column must be set together with the sbfd column. 创建sbfd-proxy-reflector时，需要设置sbfd列。
The sbfd-encapsulation-mode column must be set together with the sbfd column. Sbfd-encapsulation-mode需要和sbfd同时配置。	The sbfd-encapsulation-mode column must be set together with the sbfd column. 创建Sbfd-encapsulation-mode时，需要设置sbfd列。

ietf-sr-policy/policies/candidate-paths

Message	Explanation
The path from BGP or PCEP cannot be created, modified, or deleted. 不支持创建、修改和删除BGP和PCEP类型的候选路径。	During executing set operation, the path from BGP or PCEP cannot be created, modified, or deleted. 执行set操作时，BGP和PCEP类型的候选路径不支持创建、修改和删除。
The preference already exists and can't be modified. Preference的值已存在不能修改。	During executing set operation, the preference already exists and can't be modified. 执行set操作时，如果Preference的值已存在，不能修改。
When cpath is created firstly, discriminator and preference must have same value. 首次创建cpath时，下发的discriminator和preference的值应该一致。	Please make sure that preference and discriminator have same value, when creating path. 创建path时，下发的discriminator和preference的值需要保持一致。

ietf-sr-policy/segment-lists/segments

Message	Explanation
The value of segment type can’t be deleted or removed. Segments表中type的值不支持delete、remove操作。	During executing delete or remove operation, the value of segment type can’t be deleted or removed. 执行delete、remove操作时，segments表中type的值不支持delete、remove操作。
The value of segment type is invalid. The value can only be 1. Segments表中type的值无效，目前仅支持1。	During executing set operation, please make sure that the value of segment type is 1. 执行set操作时，segments表中type的值必须为1。
Index must be the maximum value when label is 0, 2, or 3. 标签为0、 2或3时，索引必须为最大值。	Index must be the maximum value when label is 0, 2, or 3. 标签为0、 2或3时，索引必须为最大值。
Maximum label depth is already reached.The SID list is invalid on the device. 配置的标签已到最大标签深度。该SID列表在设备上无效。	Maximum label depth is already reached.The SID list is invalid on the device. 配置的标签已到最大标签深度。该SID列表在设备上无效。

ietf-sr-policy/segment-lists/segments/segment-type-1

Message	Explanation
The sid-value can't be deleted or removed. Sid-value的值不支持delete、remove操作。	During executing delete or remove operation, the sid-value can't be deleted or removed. 执行delete、remove操作时，sid-value的值不支持delete、remove操作。
When operation is set, sid-value must be together with index. Set操作，要求sid-value和index一起下发。	When operation is set, sid-value must be together with index. Set操作，要求sid-value和index一起下发。

ietf-sr-policy/policygroups

Message	Explanation
Policygroup is not supported. 不支持policygroup。	Policygroup is not support. 不支持 policygroup 的相关配置。
Another SR-TE policy is using the color value and end point. Different SR-TE policies cannot use the same color value and end point. 不同SR-TE Policy组中不能存在相同的Endpoint和Color.	A pair of color and endpoint identifies one policy, so it cannot be used in more than one policy-group during executing set operation. 修改或创建policy-groups表的end-point和color时，同一对color、endpoint标识了policy,所以不可以在其他policy-group中存在。

ietf-sr-policy/policygroups/color-dscps

Message	Explanation
Another SR-TE policy is using the color value and end point. Different SR-TE policies cannot use the same color value and end point. 不同SR-TE Policy组中不能存在相同的Endpoint和Color.	A pair of color and endpoint identifies one policy, so it cannot be used in more than one policy-group during executing set operation. 修改或创建policy-groups表的end-point和color时，同一对color、endpoint表识了policy,所以不可以在其他policy-group中存在。
The end DSCP value must be greater than the start DSCP value. DSCP结束值要大于DSCP起始值。	When operation is set, the end DSCP value must be greater than the start DSCP value. Set操作，DSCP end值要超过DSCP start的值。
The inputted DSCP value is incorrect. 输入的DSCP值错误。	When operation is set, the inputted DSCP value is incorrect. Set操作，输入的DSCP值错误。
The duplicate DSCP values canont be configured. 不能配置重复的DSCP值。	When operation is set, the duplicate DSCP values canont be configured. Set操作，输入的DSCP值重复。
The DSCP is already associated with another color. DSCP值已经与Color值关联。	The DSCP is already associated with another color. DSCP值已经与Color值关联。
Creating ColorDscpTable Need dscp or default.	Creating ColorDscpTable Need dscp or default.

创建colordscp表必须携带dscp值或者default属性。	创建colordscp表必须携带dscp值或者default属性。

Contents

SRPOLICY event stream 1
sr-policy-status-event 1
XML structure for event subscription 1
XML structure for event report 1

SRPOLICY event stream

sr-policy-status-event

This table is used to notify an SR policy status event.

XML structure for event subscription

```
<sr-policy-status-event>
</sr-policy-status-event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>srpolicy</stream>
    <filter type="subtree">
      <sr-policy-status-event
xmlns="http://www.h3c.com/netconf/event:1.0/srpolicy:1.0">
      </sr-policy-status-event>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SRPOLICY stream
Event name	sr-policy-status-event
Event namespace	http://www.h3c.com/netconf/event:1.0/srpolicy:1.0
Support for extended query	No

XML structure for event report

```
<sr-policy-status-event>
  <policy>
    <color></color>
    <endpoint></endpoint>
    <name></name>
    <event></event>
    <oper-state></oper-state>
    <down-reason></down-reason>
    <candidate-paths>
      <candidate-path>
        <protocol-origin></protocol-origin>
        <originator></originator>
```

```
      <discriminator></discriminator>
      <preference></preference>
      <name></name>
      <is-best-candidate-path></is-best-candidate-path>
      <non-selection-reason></non-selection-reason>
      <is-valid></is-valid>
      <segment-lists>
        <segment-list>
          <list-id></list-id>
          <name-ref></name-ref>
          <state></state>
          <bfd-state></bfd-state>
          <sid-list>
            <sid>
              <index></index>
              <sid-value></sid-value>
            </sid>
          </sid-list>
        </segment-list>
      </segment-lists>
    </candidate-path>
  </candidate-paths>
</policy>
</sr-policy-status-event>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-05-21T09:10:51</eventTime>
  <sr-policy-status-event xmlns="http://www.h3c.com/netconf/event:1.0/srpolicy:1.0">
    <policy>
      <color>12</color>
      <endpoint>1.1.1.1</endpoint>
      <name>p1</name>
      <event>2</event>
      <oper-state>2</oper-state>
      <down-reason>Admin down</down-reason>
      <candidate-paths>
        <candidate-path>
          <protocol-origin>30</protocol-origin>
          <originator>2</originator>
          <discriminator>1</discriminator>
          <preference>1</preference>
          <name>abc</name>
          <is-best-candidate-path>false</is-best-candidate-path>
          <non-selection-reason>candidate-path-not-selected-no-valid-segment-list</non-
selection-reason>
          <is-valid>2</is-valid>
```

```
        <segment-lists>
          <segment-list>
            <list-id>1</list-id>
            <name-ref>aaa</name-ref>
            <state>Up</state>
            <bfd-state>Up</bfd-state>
            <sid-list>
              <sid>
                <index>1</index>
                <sid-value>16001</sid-value>
              </sid>
              <sid>
                <index>2</index>
                <sid-value>16002</sid-value>
              </sid>
              <sid>
                <index>3</index>
                <sid-value>16003</sid-value>
              </sid>
            </sid-list>
          </segment-list>
        </segment-lists>
      </candidate-path>
    </candidate-paths>
  </policy>
 </sr-policy-status-event>
</notification>
```


Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	- Dotted decimal notation for IPv4, or colon-separated hexadecimal string for IPv6.	N/A
name	SR policy name	N/A	String. Length: 1 to 59 characters.	N/A
event	SR policy event	N/A	Enumeration: • 1—Add. • 2—Update. • 3—Delete.	N/A
oper-state	SR policy state	N/A	Enumeration: • 1—UP. • 2—DOWN.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
down-reason	SR policy down reason	N/A	String. Length: 1 to 51 characters.	For instance: No-candidate-path. No-valid-candidate-path. Candidate-path-invalid-segment-list.
candidate-paths	Information of the candidate paths	Sublist	Members include: • protocol-origin • originator • discriminator • preference • name • is-best-candidate-path • non-selection-reason • is-valid • segment-lists	N/A
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that signaled/instantiated the candidate path on the headend	Index	String. Length: 1 to 160 characters.	N/A
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535.	N/A
preference	Preference of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535	N/A
name	SR policy candidate-path name	N/A	String. Length: 1 to 59 characters.	N/A
is-best-candidate-path	Best candidate path	N/A	Boolean: • true • false	N/A
non-selection-reason	Reason why the candidate path was not selected	N/A	String. Length: 1 to 51 characters.	N/A
is-valid	Validity of the candidate-paths	N/A	Boolean: • true—Valid. • false—Invalid.	N/A
segment-lists	Information of the segment-lists	Sublist	Members include: • list-id • name-ref • state	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• bfd-state • sid-list	
list-id	Segment list ID	Index	Unsigned integer.	N/A
name-ref	Segment list for an SR policy candidate path	Index	String. Length: 1 to 128 characters.	Reference to segment list name.
state	Segment list state	N/A	String. • Up • Down	N/A
bfd-state	Segment list BFD state	N/A	String. • No sbfd. • PathInactive. • Unknown. • Down • Up	N/A
sid-list	Information of the SID list	Sublist	Members include: • index • value	N/A
index	Index of SID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
sid-value	MPLS label value	N/A	Unsigned integer. Value range: 0, 3, 16 to 1048575.	N/A

Contents

ietf-srv6 1

srv6 1
- XML structure 1
- Table description 8
- Columns 8

srv6/encapsulation 10
- XML structure 10
- Table description 10
- Columns 11

srv6/locators 11
- XML structure 11
- Table description 11
- Columns 11

srv6/locators/static/local-sids 12
- XML structure 13
- Table description 13
- Columns 13

srv6/locators/static/local-sids/end-x/paths 17
- XML structure 17
- Table description 17
- Columns 18

srv6/locators/static/local-sids/end-x_coc32/paths 18
- XML structure 18
- Table description 18
- Columns 19

srv6/locators/static/local-sids/end-x_psp/paths 19
- XML structure 19
- Table description 19
- Columns 19

srv6/locators/static/local-sids/end-x_psp_coc32/paths 20
- XML structure 20
- Table description 20
- Columns 20

srv6/locators/static/local-sids/end-dx4/paths 21
- XML structure 21
- Table description 21
- Columns 21

srv6/locators/static/local-sids/end-dx6/paths 22
- XML structure 22
- Table description 22
- Columns 22

srv6/locators/static/local-sids/end-m/mirror-locators 23
- XML structure 23
- Table description 23
- Columns 23

srv6/locators/staticsid/local-sids 23
- XML structure 24
- Table description 24
- Columns 24

srv6/locators/staticsid/local-sids/end-x/paths 30
- XML structure 31
- Table description 31
- Columns 31

srv6/locators/staticsid/local-sids/end-x_coc32/paths 31
- XML structure 31
- Table description 32
- Columns 32

srv6/locators/staticsid/local-sids/end-x_psp/paths ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33
srv6/locators/staticsid/local-sids/end-x_psp_coc32/paths ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 34
srv6/locators/staticsid/local-sids/end-x_cocnone/paths ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 34
srv6/locators/staticsid/local-sids/end-x_psp_cocnone/paths ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 35
srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 37
srv6/locators/staticsid/local-sids/end-dx4/paths ····· 37
XML structure ····· 37
Table description ····· 38
Columns ····· 38
srv6/locators/staticsid/local-sids/end-dx6/paths ····· 38
XML structure ····· 38
Table description ····· 39
Columns ····· 39
srv6/locators/staticsid/local-sids/end-m/mirror-locators ····· 39
XML structure ····· 39
Table description ····· 40
Columns ····· 40
srv6/locators/staticsid/local-sids/end-as/l2-fwds ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 41
srv6/locators/staticsid/local-sids/end-as/l3-fwds ····· 41
XML structure ····· 41
Table description ····· 42
Columns ····· 42
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs ····· 42
XML structure ····· 43
Table description ····· 43
Columns ····· 43
srv6/locators/Locator-algos ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 44
srv6/remote-end-op-prefixes ····· 44
XML structure ····· 44
Table description ····· 44
Columns ····· 44
Example ····· 44

ietf-srv6

The namespace of srv6 is "urn:ietf:params:xml:ns:yang:ietf-srv6-base".

The example on the end of the module sets an instance that the module can’t be under top node.

srv6

This table contains SRv6 configuration information.

XML structure

```
<srv6>
  <encapsulation>
    <source-address></source-address>
    <hop-limit>
      <value></value>
    </hop-limit>
  </encapsulation>
  <path-mtu></path-mtu>
  <path-mtu-reserved></path-mtu-reserved>
  <sr-te-frr></sr-te-frr>
  <sr-te-frr-mode></sr-te-frr-mode>
  <srh-flag-check></srh-flag-check>
  <icmpv6-error-relay></icmpv6-error-relay>
  <compress-enable></compress-enable>
  <mirror-remote-sid-delete-delay></mirror-remote-sid-delete-delay>
  <proxy-peer-sid></proxy-peer-sid>
  <EndXUpdateDelay></EndXUpdateDelay>
  <diffserv-mode>
    <ingress-mode></ingress-mode>
    <egress-mode></egress-mode>
    <service-class></service-class>
  </diffserv-mode>
  <locators>
    <locator>
      <name></name>
      <prefix>
        <address></address>
        <length></length>
      </prefix>
      <coc32-enable></coc32-enable>
     <compress-mode></compress-mode>
      <common-prefix-length></common-prefix-length>
      <static-length></static-length>
      <noncompress-static-length></noncompress-static-length>
      <reserved-start-sid></reserved-start-sid>
```

```
<reserved-count></reserved-count>
<args-length></args-length>
<anycast></anycast>
<static>
  <local-sids>
    <sid>
      <opcode></opcode>
      <end-behavior-type></end-behavior-type>
      <end-x>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <weight></weight>
          </path>
        </paths>
      </end-x>
      <end-x_coc32>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x_coc32>
      <end-x_psp>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <weight></weight>
          </path>
        </paths>
      </end-x_psp>
      <end-x_psp_coc32>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x_psp_coc32>
      <end-dt4>
        <vrf></vrf>
```

```
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-dx2>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
</end-dx2>
<end-dx2l>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
</end-dx2l>
<end-dt2u>
  <vsi-name></vsi-name>
</end-dt2u>
<end-dt2m>
  <vsi-name></vsi-name>
</end-dt2m>
<end-dt2ul>
  <vsi-name></vsi-name>
</end-dt2ul>
<end-dx4>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <vrf></vrf>
      <evpn-enable></evpn-enable>
    </path>
  </paths>
</end-dx4>
<end-dx6>
```

```
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <vrf></vrf>
            <evpn-enable></evpn-enable>
          </path>
        </paths>
      </end-dx6>
      <end-m>
        <mirror-locators>
          <locator>
            <prefix></prefix>
            <prefix-length></prefix-length>
          </locator>
        </mirror-locators>
      </end-m>
    </sid>
  </local-sids>
</static>
<staticsid>
  <local-sids>
    <sid>
      <opcode></opcode>
      <end-behavior-type></end-behavior-type>
      <end-x>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x>
      <end-x_coc32>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x_coc32>
      <end-x_psp>
        <paths>
          <path>
            <path-index></path-index>
```

```
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_psp>
<end-x_psp_coc32>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_psp_coc32>
<end-x_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_cocnone>
<end-x_psp_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_psp_cocnone>
<end-x_pspuspusd_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_pspuspusd_cocnone>
<end-x_pspuspusd>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
```

```
  </paths>
</end-x_pspuspusd>
<end-dt4>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-dx2>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
</end-dx2>
<end-dx2l>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
</end-dx2l>
<end-dt2u>
  <vsi-name></vsi-name>
</end-dt2u>
<end-dt2m>
  <vsi-name></vsi-name>
</end-dt2m>
<end-dt2ul>
  <vsi-name></vsi-name>
</end-dt2ul>
<end-dx4>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <vrf></vrf>
      <evpn-enable></evpn-enable>
```

```
    </path>
  </paths>
</end-dx4>
<end-dx6>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <vrf></vrf>
      <evpn-enable></evpn-enable>
    </path>
  </paths>
</end-dx6>
<end-m>
  <mirror-locators>
    <locator>
      <prefix></prefix>
      <prefix-length></prefix-length>
    </locator>
  </mirror-locators>
</end-m>
<end-as>
  <backup-value></backup-value>
  <inner-type></inner-type>
  <bypass></bypass>
  <bypass-sid></bypass-sid>
  <diffserv-mode></diffserv-mode>
  <service-class></service-class>
  <color></color>
  <ttl-mode></ttl-mode>
  <ttl-value></ttl-value>
  <l2-fwds>
    <l2-fwd>
      <out-interface></out-interface>
      <out-s-vlan></out-s-vlan>
      <out-c-vlan></out-c-vlan>
      <in-interface></in-interface>
      <in-s-vlan></in-s-vlan>
      <in-c-vlan></in-c-vlan>
      <dest-mac></dest-mac>
    </l2-fwd>
  </l2-fwds>
  <l3-fwds>
    <l3-fwd>
      <nexthop-address></nexthop-address>
      <out-interface></out-interface>
      <in-interface></in-interface>
```

```
                <symmetric-index></symmetric-index>
              </l3-fwd>
            </l3-fwds>
            <cache>
              <source-address></source-address>
              <ipv6addrs>
                <ipv6addr>
                  <ipv6-address></ipv6-address>
                </ipv6addr>
              </ipv6addrs>
            </cache>
          </end-as>
        </sid>
      </local-sids>
    </staticsid>
  </locator>
  <Locator-algos>
    <Locator-algo>
      <Name></Name>
      <Algorithm></Algorithm>
    </Locator-algo>
  </Locator-algos>
</locators>
<remote-end-op-prefixes>
  <remote-end-op-prefix>
    <prefix></prefix>
    <prefix-length></prefix-length>
  </remote-end-op-prefix>
</remote-end-op-prefixes>
</srv6>
```

Table description

Item	Description
Feature name	ietf_srv6
Table name	srv6
Table type	Single-instance table,multi-level table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
encapsulation	Information of the encapsulation	Subtable	For details of the subtable, refer to the encapsulation table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
path-mtu	Path MTU	N/A	Unsigned integer. The value range varies by device model.	N/A
path-mtu-reserved	Path MTU reserved	N/A	Unsigned integer. The value range varies by device model. Default: 72.	N/A
compress-enable	Whether to enable SRv6 compression	N/A	Boolean: • **true**—Enable SRv6. compression. • **false**—Disable SRv6 compression (default).	N/A
mirror-remote-sid-delete-delay	Delay time of mirror remote-SID deletion	N/A	Unsigned integer. Value range: 1 to 21845, in seconds. Default: 60.	N/A
proxy-peer-sid	Peer SID of the proxy node	N/A	String, IPv6 address string, END SID.	Example: 1::1.
diffserv-mode	DiffServ mode configuration	Data structure	Members include: • ingress-mode • egress-mode • service-class	N/A
ingress-mode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
egress-mode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
service-class	Service class value	N/A	Unsigned integer. Value range: 0 to 7.	This column will be ignored when ingress-mode is uniform.
locators	Information of the locators	Sublist	For details of the sublist, refer to locators table.	N/A
remote-end-op-prefixes	Information of remote-End.OP prefixes	Sublist	For more information about the sublist, see the remote-end-op-prefixes table.	N/A
sr-te-frr	SR-TE FRR	N/A	Boolean: • **true** • **false**	This column is ignored when sr-te-frr-mode is also configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
sr-te-frr-mode	Mode of SR-TE FRR	N/A	Enumeration: • disabled--SR-TE FRR is disabled (default). • enabled--SR-TE FRR is enabled. • downgrade—Enable SR-TE FRR downgrade.	N/A
srh-flag-check	Whether to check the SRH flag	N/A	Enumeration: • 0—Does not check (default). • 1—Check SRH flags.	N/A
icmpv6-error-relay	Whether to relay ICMPv6 error packets	N/A	Enumeration: • **disabled**—ICMPv6 error packets are not relayed (default). • **enabled**—ICMPv6 error packets are relayed.	N/A
EndXUpdateDelay	Delay time for issuing static End.X SIDs to the FIB	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds. Default: 0.	N/A

srv6/encapsulation

This table contains encapsulation configuration information of ietf srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	encapsulation
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	IPv6 source address	N/A	IPv6 address.	N/A
hop-limit	Hop limit	Data structure	Members include: • value	N/A
value	Hop limit value	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	N/A

srv6/locators

This table contains SRv6 locator configuration information of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	locators
Table type	Multi-instance table,multi-level table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
prefix	IPv6 address prefix and the prefix length.	Data structure	Members include: • address • length	N/A
address	IPv6 address prefix.	N/A	IPv6 address	N/A
length	Prefix length.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 32 to 120.	
coc32-enable	Whether to enable 32-bit G-SID compression	N/A	Boolean: • **true—**Enable 32-bit G-SID compression. • **false—**Disable 32-bit G-SID compression (default).	N/A
compress-mode	Compress mode	N/A	Enumeration • 0—non compression. • 1—coc32 compression. • 2—coc32 both compression.	N/A
common-prefix-length	G-SID common prefix length	N/A	Unsigned integer.	N/A
static-length	Static length.	N/A	Unsigned integer. Value range: 0 to 32. Default: 0.	N/A
noncompress-static-length	Non compress static length.	N/A	Unsigned integer. Value range: 0 to .56 Default: 0.	N/A
reserved-start-sid	Start IPv6 address of reserved sids.	N/A	IPv6 address	N/A
reserved-count	Count of reserved sids.	N/A	Unsigned integer.	N/A
args-length	Argument length.	N/A	Unsigned integer. Value range: 0 to 64. Default: 0.	N/A
anycast	Locator anycast	N/A	Boolean: • true • false	N/A
static	Information of the static SIDs.	Sublist	The details of the sublist refer to static local-sid table.	- You must make sure locator is not cocoboth.
staticsid	Information of the staticsid.	Sublist	The details of the sublist refer to staticsid local-sid table.	N/A

srv6/locators/static/local-sids

This table contains local SID configuration information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	local-sids
Table type	Multi-instance table,multi-level table
Row name	sid
Restrictions	If end-behavior-type is not End.OP or End_PSP when you create, merge, or replace an SID, you must bring the child table of the SID with the operation. If you do not bring the child table of the SID with the create, merge, or replace operation, the operation can succeed. However, the SID cannot take effect.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID	Index	String, Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Eg: String: 1 String: ::1
end-behavior-type	SRv6 SID type	N/A	String, case-sensitive. Supported types: • End • End_COC32 • End_PSP • End_PSP_COC32 • End.X • End.X_COC32 • End.X_PSP • End.X_PSP_COC32 • End.OP • End.DT4 • End.DT6 • End.DT46 • End.DX2 • End.DT2U • End.DT2M • End.DX2L • End.DT2UL • End.DX4 • End.DX6 • End.M	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
end-x	Information of the End.X SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_coc32	Information of the End.X (COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COC32.
paths	Paths of the End.X (COC32) SID	Sublist	The details of the sublist refer to end-x_coc32 paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-x_psp_coc32	Information of the End.X (PSP_COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COC32.
paths	Paths of the End.X (PSP_COC32) SID	Sublist	The details of the sublist refer to end-x_psp_coc32 paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf	This column is valid only when end-behavior-type is

Column name	Column description	Column type	Data type and restrictions	Remarks
			• evpn-enable • l3vpn-evpn-enable	End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
end-dx2	Information of the End.DX2 SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
end-dx2l	Information of the End.DX2L SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2L.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
end-dt2u	Information of the End.DT2U SID	Data structure	Members include: • vsi-name.	This column is valid only when end-behavior-type is End.DT2U.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2m	Information of the End.DT2M SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2M.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
end-dt2ul	Information of the End.DT2UL SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2UL.
vsi-name	VSI name	N/A	String. Length: 1 to 31characters.	N/A
end-dx4	Information of the End.DX4 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.DX4.
paths	Paths of the End.DX4 SID	Sublist	The details of the sublist refer to end-dx4 paths table.	N/A
end-dx6	Information of the End.DX6 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End. DX6.
paths	Paths of the End.DX6 SID	Sublist	The details of the sublist refer to end-dx6 paths table.	N/A
end-m	Information of the End.M SID	Data structure	Members include: • mirror-locators.	This column is valid only when end-behavior-type is End.M.
mirror-locators	Information of the End.M SID locators	Sublist	The details of the sublist refer to end-m mirror-locators table.	N/A

srv6/locators/static/local-sids/end-x/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set paths table together while end-behavior-type is End.X. You can’t delete paths table only. When you delete local-sids table, paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
weight	Weight value	N/A	Unsigned integer. Value range: 1 to 254. Default: 1.	N/A

srv6/locators/static/local-sids/end-x_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_COC32. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/static/local-sids/end-x_psp/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
weight	Weight value	N/A	Unsigned integer. Value range: 1 to 254. Default: 1.	N/A

srv6/locators/static/local-sids/end-x_psp_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP_COC32. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/static/local-sids/end-dx4/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.DX4. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv4 nexthop address	N/A	IPv4 address.	N/A
vrf	VPN instance name	N/A	String. • Length: 0 to 31	If the path belongs to the public network, do not include this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	An empty string indicates the public network.
evpn-enable	Whether to enable EVPN	N/A	Enumeration • 0—Disable (default). • 1—Enable.	N/A

srv6/locators/static/local-sids/end-dx6/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.DX6. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
vrf	Information of	N/A	String.	If the path belongs to the public

Column name	Column description	Column type	Data type and restrictions	Remarks
	VPN instance name		• Length: 0 to 31 characters.	network, do not include this column. An empty string indicates the public network.
evpn-enable	Enable evpn for this SID	N/A	Enumeration • 0—Disable (default). • 1—Enable.	N/A

srv6/locators/static/local-sids/end-m/mirror-locators

This table contains locator information for End.M SIDs of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	mirror-locators
Table type	Multi-instance table
Row name	locator
Restrictions	You must set the paths table together while end-behavior-type is End.M. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	IPv6 prefix.	Index	IPv6 address.	N/A
prefix-length	Prefix length.	Index	Unsigned integer. Value range: 32 to 120.	N/A

srv6/locators/staticsid/local-sids

This table contains local SID configuration information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	local-sids
Table type	Multi-instance table
Row name	sid
Restrictions	If end-behavior-type is not End.OP or End_PSP when you create, merge, or replace an SID, you must bring the child table of the SID with the operation. If you do not bring the child table of the SID with the create, merge, or replace operation, the operation can succeed. However, the SID cannot take effect.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID	Index	String, Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Eg: String: 1 String: ::1
end-behavior-type	SRv6 SID type	Index	String, case-sensitive. Supported types: • End • End_COC32 • End_PSP • End_PSP_COC32 • End_PSPUSPUSD • End_COCNONE • End_PSP_COCNONE • End_PSPUSPUSD_COCNONE • End.X • End.X_COC32 • End.X_PSP • End.X_PSP_COC32 • End.X _PSPUSPUSD • End.X_COCNONE • End.X_PSP_COCNONE • End.X_PSPUSPUSD_COCNONE • End.OP • End.DT4	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• End.DT6 • End.DT46 • End.DX2 • End.DT2U • End.DT2M • End.DX2L • End.DT2UL • End.DX4 • End.DX6 • End.M • End.AS	
end-x	Information of the End.X SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_coc32	Information of the End.X (COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COC32.
paths	Paths of the End.X (COC32) SID	Sublist	The details of the sublist refer to end-x_coc32 paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-x_psp_coc32	Information of the End.X (PSP_COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COC32.
paths	Paths of the End.X (PSP_COC32) SID	Sublist	The details of the sublist refer to end-x_psp_coc32 paths table.	N/A
end-x_pspuspusd	Information of the End.X (PSP USP USD) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSPUSPUSD.
paths	Paths of the End.X (PSP USP USD) SID	Sublist	The details of the sublist refer to end-x_pspuspusd paths table.	N/A
end-x_cocnone	Information of the End.X (COC-NONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COCNONE.

Column name	Column description	Column type	Data type and restrictions	Remarks
paths	Paths of the End.X (COC-NONE) SID	Sublist	The details of the sublist refer to end-x_cocnone paths table.	N/A
end-x_psp_cocnone	Information of the End.X (PSP_COCNONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COCNONE.
paths	Paths of the End.X (PSP_COCNONE) SID	Sublist	The details of the sublist refer to end-x_psp_cocnone paths table.	N/A
end-x_pspuspusd_cocnone	Information of the End.X (PSPUSPUSD_COCNONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSPUSPUSD_COCNONE.
paths	Paths of the End.X (PSPUSPUSD_COCNONE) SID	Sublist	The details of the sublist refer to end-x_pspuspusd_cocnone paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string

Column name	Column description	Column type	Data type and restrictions	Remarks
				indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If the SID belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable.	N/A
end-dx2	Information of the End.DX2 SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
end-dx2l	Information of the End.DX2L SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2L.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
end-dt2u	Information of the End.DT2U SID	Data structure	Members include: • vsi-name.	This column is valid only when end-behavior-type is End.DT2U.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2m	Information of the End.DT2M SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2M.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2ul	Information of the End.DT2UL SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2UL.
vsi-name	VSI name	N/A	String. Length: 1 to 31characters.	N/A
end-dx4	Information of	Data	Members include:	This column is valid

Column name	Column description	Column type	Data type and restrictions	Remarks
	the End.DX4 SID	structure	• paths.	only when end-behavior-type is End.DX4.
paths	Paths of the End.DX4 SID	Sublist	The details of the sublist refer to end-dx4 paths table.	N/A
end-dx6	Information of the End.DX6 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End. DX6.
paths	Paths of the End.DX6 SID	Sublist	The details of the sublist refer to end-dx6 paths table.	N/A
end-m	Information of the End.M SID	Data structure	Members include: • mirror-locators.	This column is valid only when end-behavior-type is End.M.
mirror-locators	Information of the End.M SID locators	Sublist	The details of the sublist refer to end-m mirror-locators table.	N/A
end-as	Information of the End.AS SID	Data structure	Members include: • backup-value. • inner-type. • bypass. • bypass-sid. • service-class. • color. • diffserv-uniform. • ttl-value. • ttl-uniform. • l2-fwds. • l3-fwds. • cache.	This column is valid only when end-behavior-type is End.AS.
backup-value	Backup static SRv6 SID	N/A	String, Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
inner-type	Original message type	N/A	Enumeration: • None. • IPv4. • IPv6. • IPv4-IPv6.	N/A
bypass	Enabling status of bypass	N/A	Enumeration: • disabled. • enabled.	N/A
bypass-sid	End.AS bypass SID value	N/A	String, IPv6 address string.	This column can be set only when bypass is enabled.
diffserv-mode	DiffServ mode	N/A	Enumeration: • Uniform. • Pipe.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class	Pipe-mode service class	N/A	Enumeration: • be. • af1. • af2. • af3. • af4. • ef. • cs6. • cs7.	This column can be set only when diffserv-mode is pipe.
color	Color for packets of the specified pipe-mode service class	N/A	Enumeration: • Green. • Yellow. • Red.	This column can be set only when diffserv-mode is pipe.
ttl-mode	TTL processing mode	N/A	Enumeration: • Uniform. • Pipe.	N/A
ttl-value	Pipe-mode TTL value	N/A	Unsigned integer. Value range: 1 to 255	This column can be set only when ttl-mode is pipe.
l2-fwds	SFC Layer 2 Ethernet encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l2-fwds table.
l3-fwds	SFC Layer 3 IPv4 or IPv6 encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l3-fwds table.
cache	Cache configuration	Data structure	Members include: • cache-source-address. • ipv6addrs.	For more information, see the srv6/locators/staticsid/local-sids/cache table.
source-address	Source address used for SFF encapsulation	N/A	String, IPv6 address string.	Example: 1::1.
ipv6addrs	List of SIDs to be encapsulated	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/cache/ipv6addrs table.

srv6/locators/staticsid/local-sids/end-x/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table,multi-level table
Row name	path
Restrictions	You must set paths table together while end-behavior-type is End.X. You can’t delete paths table only. When you delete local-sids table, paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_COC32. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_psp/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path

Item	Description
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_psp_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP_COC32. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_psp_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop	N/A	IPv6 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address			

srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSPUSPUSD_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSPUSPUSD. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-dx4/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.DX4. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv4 nexthop address	N/A	IPv4 address.	N/A
vrf	VPN instance name	N/A	String. • Length: 0 to 31 characters.	If the path belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Whether to enable EVPN	N/A	Enumeration • 0—Disable (default). • 1—Enable.	N/A

srv6/locators/staticsid/local-sids/end-dx6/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.DX6. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
vrf	Information of VPN instance name	N/A	String. • Length: 0 to 31 characters.	If the path belongs to the public network, do not include this column. An empty string indicates the public network.
evpn-enable	Enable evpn for this SID	N/A	Enumeration • 0—Disable (default). • 1—Enable.	N/A

srv6/locators/staticsid/local-sids/end-m/mirror-locators

This table contains locator information for End.M SIDs of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	mirror-locators
Table type	Multi-instance table
Row name	locator
Restrictions	You must set the paths table together while end-behavior-type is End.M. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	IPv6 prefix.	Index	IPv6 address.	N/A
prefix-length	Prefix length.	Index	Unsigned integer. Value range: 32 to 120.	N/A

srv6/locators/staticsid/local-sids/end-as/l2-fwds

This table contains Layer 2 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as.

Table description

Item	Description
Feature name	SRv6
Table name	l2-fwds
Table type	Multi-instance table
Row name	l2-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
out-interface	Outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
out-s-vlan	Outer VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
out-c-vlan	Inner VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
in-interface	Incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-s-vlan	Outer VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
in-c-vlan	Inner VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
dest-mac	Destination MAC address	N/A	String. Format: H-H-H.	N/A

srv6/locators/staticsid/local-sids/end-as/l3-fwds

This table contains Layer 3 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as.

Table description

Item	Description
Feature name	SRv6
Table name	l3-fwds
Table type	Multi-instance table
Row name	l3-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthop-address	Layer 3 encapsulation next hop IPv4 or IPv6 address	Index	String, IPv4/IPv6 address string.	Example: 1.1.1.1. 1::1
out-interface	Layer 3 outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-interface	Layer 3 incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
symmetric-index	Outgoing and incoming traffic that travels through the same VM	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

This table contains a list of SIDs to be encapsulated in packets.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as

Table description

Item	Description
Feature name	SRv6
Table name	ipv6addrs
Table type	Multi-instance table
Row name	ipv6addr
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-address	List of SIDs to be encapsulated	Index	String, IPv6 address string.	Example: 1::1.

srv6/locators/Locator-algos

This table contains SRv6 locator algorithm configuration information of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	Locator-algos
Table type	Multi-instance table
Row name	Locator-algo
Restrictions	You must create the locator before you merge/replace/create this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Algorithm	Algorithm of the locator	N/A	Unsigned integer. Value range: 128 to 255	N/A

srv6/remote-end-op-prefixes

This table contains remote-End.OP prefix information of ietf srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	remote-end-op-prefixes
Table type	Multi-instance table
Row name	remote-end-op-prefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	IPv6 prefix.	Index	IPv6 address.	N/A
prefix-length	Prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A

Example

Get SRv6 locator information.

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<edit-config>
  <target>
```

```
  <running/>
</target>
<config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
<b:srv6 xc:operation="merge" xmlns:b="urn:ietf:params:xml:ns:yang:ietf-srv6-base">
    <b:locators>
    <b:locator>
        <b:name>bbb</b:name>
        <b:prefix>
          <b:address>1:5::</b:address>
          <b:length>57</b:length>
       </b:prefix>
       <b:coc32-enable>true</b:coc32-enable>
       <b:compress-mode>2</b:compress-mode>
       <b:common-prefix-length>33</b:common-prefix-length>
      <b:static-length>8</b:static-length>
       <b:noncompress-static-length>16</b:noncompress-static-length>
      <b:reserved-start-sid> 1:5::1</b:reserved-start-sid>
      <b:reserved-count>123</b:reserved-count>
      <b:args-length>8</b:args-length>
      <b:anycast>true</b:anycast>
      <b:static>
        <b:local-sids>
          <b:sid>
            <b:opcode>3</b:opcode>
            <b:end-behavior-type>End.X_PSP</b:end-behavior-type>
            <b:end-x_psp>
               <b:paths>
                  <b:path>
                    <b:path-index>0</b:path-index>
                    <b:interface>270</b:interface>
                   <b:next-hop>1:1::1:1</b:next-hop>
                 </b:path>
               </b:paths>
            </b:end-x_psp>
          </b:sid>
      </b:local-sids>
    </b:static>
  </b:locator>
  <b:Locator-algos>
    <b:Locator-algo>
      <b:Name>bbb</b:Name>
      <b:Algorithm>128</b:Algorithm>
    </b:Locator-algo>
  </b:Locator-algos>
```

```
  </b:locators>
 </b:srv6>
 </config>
</edit-config>
</rpc>
```

Contents

ietf_srv6 1

srv6 1
XML structure 1
Table description 9
Columns 9
srv6/encapsulation 11
XML structure 11
Table description 11
Columns 11
srv6/locators 11
XML structure 11
Table description 11
Columns 12
srv6/locators/static/local-sids 13
XML structure 13
Table description 13
Columns 13
srv6/locators/static/local-sids/end-x/paths 18
XML structure 18
Table description 18
Columns 18
srv6/locators/static/local-sids/end-x_coc32/paths 19
XML structure 19
Table description 19
Columns 19
srv6/locators/static/local-sids/end-x_psp/paths 20
XML structure 20
Table description 20
Columns 20
srv6/locators/static/local-sids/end-x_psp_coc32/paths 21
XML structure 21
Table description 21
Columns 21
srv6/locators/static/local-sids/end-dx4/paths 22
XML structure 22
Table description 22
Columns 22
srv6/locators/static/local-sids/end-dx6/paths 23
XML structure 23
Table description 23
Columns 23
srv6/locators/static/local-sids/end-m/mirror-locators 24
XML structure 24
Table description 24
Columns 24
srv6/locators/staticsid/local-sids 25
XML structure 25
Table description 25
Columns 25
srv6/locators/staticsid/local-sids/end-x/paths 32
XML structure 32
Table description 32
Columns 32
srv6/locators/staticsid/local-sids/end-x_coc32/paths 33
XML structure 33
Table description 33
Columns 33

srv6/locators/staticsid/local-sids/end-x_psp/paths ····· 34
XML structure ····· 34
Table description ····· 34
Columns ····· 34
srv6/locators/staticsid/local-sids/end-x_psp_coc32/paths ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 35
srv6/locators/staticsid/local-sids/end-x_cocnone/paths ····· 36
XML structure ····· 36
Table description ····· 36
Columns ····· 36
srv6/locators/staticsid/local-sids/end-x_psp_cocnone/paths ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 37
srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 38
srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 39
srv6/locators/staticsid/local-sids/end-dx4/paths ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
srv6/locators/staticsid/local-sids/end-dx6/paths ····· 41
XML structure ····· 41
Table description ····· 41
Columns ····· 41
srv6/locators/staticsid/local-sids/end-m/mirror-locators ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42
srv6/locators/staticsid/local-sids/end-as/l2-fwds ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 43
srv6/locators/staticsid/local-sids/end-as/l3-fwds ····· 43
XML structure ····· 44
Table description ····· 44
Columns ····· 44
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 45
srv6/locators/Locator-algos ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
srv6/remote-end-op-prefixes ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 46
Example ····· 47

ietf_srv6

The namespace of srv6 is "urn:ietf:params:xml:ns:yang:ietf-srv6-base".

The example on the end of the module sets an instance that the module can’t be under top node.

srv6

This table contains SRv6 configuration information.

XML structure

```
<srv6>
  <encapsulation>
    <source-address></source-address>
    <hop-limit>
      <value></value>
    </hop-limit>
  </encapsulation>
  <path-mtu></path-mtu>
  <path-mtu-reserved></path-mtu-reserved>
  <sr-te-frr></sr-te-frr>
  <sr-te-frr-mode></sr-te-frr-mode>
  <srh-flag-check></srh-flag-check>
  <icmpv6-error-relay></icmpv6-error-relay>
  <compress-enable></compress-enable>
  <mirror-remote-sid-delete-delay></mirror-remote-sid-delete-delay>
  <proxy-peer-sid></proxy-peer-sid>
  <EndXUpdateDelay></EndXUpdateDelay>
  <diffserv-mode>
    <ingress-mode></ingress-mode>
    <egress-mode></egress-mode>
    <service-class></service-class >
  </diffserv-mode>
  <max-sid-list-depth></max-sid-list-depth>
  <locators>
    <locator>
      <name></name>
      <prefix>
        <address></address>
        <length></length>
      </prefix>
      <coc32-enable></coc32-enable>
      <compress-mode></compress-mode>
      <common-prefix-length></common-prefix-length>
      <node-length></node-length>
      <csid-length></csid-length>
```

```
 <static-length></static-length>
<dynamic-length></dynamic-length>
 <noncompress-static-length></noncompress-static-length>
 <noncompress-dynamic-length></noncompress-dynamic-length>
 <reserved-start-sid></reserved-start-sid>
 <reserved-count></reserved-count>
 <args-length></args-length>
 <anycast></anycast>
 <static>
   <local-sids>
     <sid>
       <opcode></opcode>
       <end-behavior-type></end-behavior-type>
       <end-x>
         <paths>
           <path>
             <path-index></path-index>
             <interface></interface>
             <next-hop></next-hop>
             <if-name></if-name>
             <weight></weight>
           </path>
         </paths>
       </end-x>
       <end-x_coc32>
         <paths>
           <path>
             <path-index></path-index>
             <interface></interface>
             <next-hop></next-hop>
             <if-name></if-name>
           </path>
         </paths>
       </end-x_coc32>
       <end-x_psp>
         <paths>
           <path>
             <path-index></path-index>
             <interface></interface>
             <next-hop></next-hop>
             <if-name></if-name>
             <weight></weight>
           </path>
         </paths>
       </end-x_psp>
       <end-x_psp_coc32>
         <paths>
           <path>
```

```
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_psp_coc32>
<end-dt4>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-dx2>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
  <if-name></if-name>
</end-dx2>
<end-dx2l>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
  <if-name></if-name>
</end-dx2l>
<end-dt2u>
  <vsi-name></vsi-name>
</end-dt2u>
<end-dt2m>
  <vsi-name></vsi-name>
</end-dt2m>
<end-dt2ul>
  <vsi-name></vsi-name>
</end-dt2ul>
<end-dx4>
```

```
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <vrf></vrf>
            <evpn-enable></evpn-enable>
            <if-name></if-name>
          </path>
        </paths>
      </end-dx4>
      <end-dx6>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <vrf></vrf>
            <evpn-enable></evpn-enable>
            <if-name></if-name>
          </path>
        </paths>
      </end-dx6>
      <end-m>
        <mirror-locators>
          <locator>
            <prefix></prefix>
            <prefix-length></prefix-length>
          </locator>
        </mirror-locators>
      </end-m>
    </sid>
  </local-sids>
</static>
<staticsid>
  <local-sids>
    <sid>
      <opcode></opcode>
      <end-behavior-type></end-behavior-type>
      <end-x>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
            <if-name></if-name>
          </path>
        </paths>
```

```
</end-x>
<end-x_coc32>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_coc32>
<end-x_psp>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_psp>
<end-x_psp_coc32>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_psp_coc32>
<end-x_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_cocnone>
<end-x_psp_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
```

```
    </path>
  </paths>
</end-x_psp_cocnone>
<end-x_pspuspusd_cocnone>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_pspuspusd_cocnone>
<end-x_pspuspusd>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <if-name></if-name>
    </path>
  </paths>
</end-x_pspuspusd>
<end-dt4>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-dx2>
  <xconnect-group-name></xconnect-group-name>
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
  <if-name></if-name>
</end-dx2>
<end-dx2l>
  <xconnect-group-name></xconnect-group-name>
```

```
  <connection-name></connection-name>
  <interface></interface>
  <vsi-name></vsi-name>
  <service-instance></service-instance>
  <if-name></if-name>
</end-dx2l>
<end-dt2u>
  <vsi-name></vsi-name>
</end-dt2u>
<end-dt2m>
  <vsi-name></vsi-name>
</end-dt2m>
<end-dt2ul>
  <vsi-name></vsi-name>
</end-dt2ul>
<end-dx4>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <vrf></vrf>
      <evpn-enable></evpn-enable>
      <if-name></if-name>
    </path>
  </paths>
</end-dx4>
<end-dx6>
  <paths>
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
      <vrf></vrf>
      <evpn-enable></evpn-enable>
      <if-name></if-name>
    </path>
  </paths>
</end-dx6>
<end-m>
  <mirror-locators>
    <locator>
      <prefix></prefix>
      <prefix-length></prefix-length>
    </locator>
  </mirror-locators>
</end-m>
<end-as>
```

```
          <backup-value></backup-value>
          <inner-type></inner-type>
          <bypass></bypass>
          <bypass-sid></bypass-sid>
          <diffserv-mode></diffserv-mode>
          <service-class></service-class>
          <color></color>
          <ttl-mode></ttl-mode>
          <ttl-value></ttl-value>
          <l2-fwds>
            <l2-fwd>
              <out-interface></out-interface>
              <out-s-vlan></out-s-vlan>
              <out-c-vlan></out-c-vlan>
              <in-interface></in-interface>
              <in-s-vlan></in-s-vlan>
              <in-c-vlan></in-c-vlan>
              <dest-mac></dest-mac>
            </l2-fwd>
          </l2-fwds>
          <l3-fwds>
            <l3-fwd>
              <nexthop-address></nexthop-address>
              <out-interface></out-interface>
              <in-interface></in-interface>
              <symmetric-index></symmetric-index>
            </l3-fwd>
          </l3-fwds>
          <cache>
            <source-address></source-address>
            <sl-num></sl-num>
            <ipv6addrs>
              <ipv6addr>
                <ipv6-address></ipv6-address>
              </ipv6addr>
            </ipv6addrs>
          </cache>
        </end-as>
      </sid>
    </local-sids>
  </staticsid>
</locator>
<Locator-algos>
  <Locator-algo>
    <Name></Name>
    <Algorithm></Algorithm>
  </Locator-algo>
</Locator-algos>
```

```
  </locators>
  <remote-end-op-prefixes>
    <remote-end-op-prefix>
      <prefix></prefix>
      <prefix-length></prefix-length>
    </remote-end-op-prefix>
  </remote-end-op-prefixes>
</srv6>
```

Table description

Item	Description
Feature name	ietf_srv6
Table name	srv6
Table type	Single-instance table,multi-level table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
encapsulation	Information of the encapsulation	Subtable	For more information about the subtable, see the encapsulation table.	N/A
path-mtu	Path MTU	N/A	Unsigned integer. The value range varies by device model.	N/A
path-mtu-reserved	Path MTU reserved	N/A	Unsigned integer. The value range varies by device model.	N/A
compress-enable	Whether SRv6 compression is enabled	N/A	Boolean: • **true**—Enable SRv6. compression. • **false**—Disable SRv6 compression.	N/A
mirror-remote-sid-delete-delay	Delay time of mirror remote-SID deletion	N/A	Unsigned integer. Value range: 1 to 21845, in seconds.	N/A
proxy-peer-sid	Peer SID of the proxy node	N/A	String, IPv6 address string, END SID.	Example: 1::1.
diffserv-mode	DiffServ mode configuration	Data structure	Members include: • ingress-mode • egress-mode • service-class	N/A
ingress-mode	DiffServ mode in	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the inbound direction		• 1—Uniform. • 2—Pipe. • 3—Short-pipe.	
egress-mode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
service-class	Service class value	N/A	Unsigned integer. Value range: 0 to 7.	This column will be ignored when ingress-mode is uniform.
max-sid-list-depth	Maximum SID depth	N/A	Unsigned integer.	Only supports the get operation.
locators	Information of the locators	Sublist	For details of the sublist, refer to the locators table.	N/A
remote-end-op-prefixes	Information of remote-End.OP prefixes	Sublist	For more information about the sublist, see the remote-end-op-prefixes table.	N/A
sr-te-frr	SR-TE FRR	N/A	Boolean: • **true** • **false**	This column is ignored when sr-te-frr-mode is also configured.
sr-te-frr-mode	Mode of SR-TE FRR	N/A	Enumeration: • disabled--SR-TE FRR is disabled. • enabled--SR-TE FRR is enabled. • downgrade—Enable SR-TE FRR downgrade.	N/A
srh-flag-check	Whether to check SRH flag	N/A	Enumeration: • 0—Does not check. • 1—Check SRH flags.	N/A
icmpv6-error-relay	Whether to relay ICMPv6 error packets	N/A	Enumeration: • **disabled**—ICMPv6 error packets are not relayed. • **enabled**—ICMPv6 error packets are relayed.	N/A
EndXUpdateDelay	Delay time for issuing static End.X SIDs to the FIB	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A

srv6/encapsulation

This table contains encapsulation configuration information of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	encapsulation
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	IPv6 source address	N/A	IPv6 address.	N/A
hop-limit	Hop limit	Data structure	Members include: • value	N/A
value	Hop limit value	N/A	Unsigned integer. Value range: 1 to 255.	N/A

srv6/locators

This table contains SRv6 locator configuration information of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	locators
Table type	Multi-instance table,multi-level table
Row name	locator

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
prefix	IPv6 address prefix and the prefix length.	Data structure	Members include: • address • length	N/A
address	IPv6 address prefix.	N/A	IPv6 address.	N/A
length	Prefix length.	N/A	Unsigned integer. Value range: 32 to 120.	N/A
coc32-enable	Enable 32-bit G-SID compression	N/A	Boolean: • **true**—Enable 32-bit G-SID compression. • **false**—Disable 32-bit G-SID compression.	N/A
compress-mode	Compress mode	N/A	Enumeration • 0—non compression. • 1—coc32 compression. • 2—coc32 both compression.	N/A
common-prefix-length	G-SID common prefix length	N/A	Unsigned integer.	N/A
node-length	Node length.	N/A	Unsigned integer.	N/A
csid-length	Compress sid length.	N/A	Unsigned integer.	N/A
static-length	Static length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
dynamic-length	Dynamic length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
noncompress-static-length	Non compress static length.	N/A	Unsigned integer. Value range: 0 to 56.	N/A
noncompress-dynamic-length	Non compress dynamic length.	N/A	Unsigned integer. Value range: 0 to 56.	N/A
reserved-start-sid	Start IPv6 address	N/A	IPv6 address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of reserved sids.			
reserved-count	Count of reserved sids.	N/A	Unsigned integer.	N/A
args-length	Argument length.	N/A	Unsigned integer. Value range: 0 to 64.	N/A
anycast	Locator anycast	N/A	Boolean: • **true** • **false**	N/A
static	Information of the static SIDs.	Sublist	For more information about the sublist, see the static local-sids table.	N/A
staticsid	Information of the static SIDs.	Sublist	For more information about the sublist, see the staticsid local-sids table.	N/A

srv6/locators/static/local-sids

This table contains local SID configuration information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	local-sids
Table type	Multi-instance table,multi-level table
Row name	sid
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Eg: String: 1 String: ::1

Column name	Column description	Column type	Data type and restrictions	Remarks
end-behavior-type	SRv6 SID type	N/A	String, case-sensitive. Supported types: • End • End_COC32 • End_PSP • End_PSP_COC32 • End.X • End.X_COC32 • End.X_PSP • End.X_PSP_COC32 • End.OP • End.DT4 • End.DT6 • End.DT46 • End.DX2 • End.DT2U • End.DT2M • End.DX2L • End.DT2UL • End.DX4 • End.DX6 • End.M	N/A
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_coc32	Information of the End.X (COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COC32.
paths	Paths of the End.X (COC32) SID	Sublist	The details of the sublist refer to end-x_coc32 paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-x_psp_coc32	Information of the End.X (PSP_COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COC32.
paths	Paths of the End.X (PSP_COC32) SID	Sublist	The details of the sublist refer to end-x_psp_coc32 paths table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether	N/A	Enumeration	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	EVPN is enabled for the End.DT46 SID		• 0—Disable • 1—Enable	
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dx2	Information of the End.DX2 SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
end-dx2l	Information of the End.DX2L SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2L.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface	N/A	Unsigned integer.	Some versions

Column name	Column description	Column type	Data type and restrictions	Remarks
	index.			support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
end-dt2u	Information of the End.DT2U SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2U.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2m	Information of the End.DT2M SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2M.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2ul	Information of the End.DT2UL SID	Data structure	Members include: • vsi-name.	This column is valid only when end-behavior-type is End.DT2UL.
vsi-name	VSI name	N/A	String. Length: 1 to 31characters.	N/A
end-dx4	Information of the End.DX4 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.DX4.
paths	Paths of the End.DX4 SID	Sublist	For more information about the sublist, see the end-dx4 paths table.	N/A
end-dx6	Information of the End.DX6 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End. DX6.
paths	Paths of the End.DX6 SID	Sublist	For more information about the sublist, see the end-dx6 paths table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
end-m	Information of the End.M SID	Data structure	Members include: • mirror-locators.	This column is valid only when end-behavior-type is End.M.
mirror-locators	Information of the End.M SID locators	Sublist	For more information about the sublist, see the end-m mirror-locators table.	N/A

srv6/locators/static/local-sids/end-x/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
weight	Weight value	N/A	Unsigned integer. Value range: 1 to 254.	N/A

srv6/locators/static/local-sids/end-x_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set paths table together while end-behavior-type is End.X_COC32. You can't delete paths table only. When you delete local-sids table, paths table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/static/local-sids/end-x_psp/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
weight	Weight value	N/A	Unsigned integer. Value range: 1 to 254.	N/A

srv6/locators/static/local-sids/end-x_psp_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/static/local-sids/end-dx4/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv4 nexthop address	N/A	IPv4 address.	N/A
vrf	Information of VPN instance	N/A	String. Length: 0 to 31	If this column is not included, the path belongs to the public

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		characters.	network. An empty string indicates the public network.
evpn-enable	Enable evpn for this SID	N/A	Enumeration • 0—Disable. • 1—Enable.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/static/local-sids/end-dx6/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
vrf	Information of VPN instance name	N/A	String. Length: 0 to 31 characters.	If this column is not included, the path belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled	N/A	Enumeration • 0—Disabled. • 1—Enabled.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/static/local-sids/end-m/mirror-locators

This table contains locator information for End.M SIDs of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	mirror-locators
Table type	Multi-instance table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	IPv6 prefix	Index	IPv6 address.	IPv6 address.
prefix-length	Prefix length	Index	Unsigned integer. Value range: 32 to	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions	Remarks
			120.	Value range: 32 to 120.

srv6/locators/staticsid/local-sids

This table contains local SID configuration information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	local-sids
Table type	Multi-instance table,multi-level table
Row name	sid
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Eg: String: 1 String: ::1
end-behavior-type	SRv6 SID type	Index	String, case-sensitive. Supported types: • End • End_COC32 • End_PSP • End_PSP_COC32 • End_PSPUSPUSD • End_COCNONE • End_PSP_COCNONE • End_PSPUSPUSD_COCNONE • End.X • End.X_COC32 • End.X_PSP • End.X_PSP_COC32 • End.X_PSPUSPUSD • End.X_COCNONE	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• End.X_PSP_COCNONE • End.X_PSPUSPUSD_COCNONE • End.OP • End.DT4 • End.DT6 • End.DT46 • End.DX2 • End.DT2U • End.DT2M • End.DX2L • End.DT2UL • End.DX4 • End.DX6 • End.M • End.AS	
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_coc32	Information of the End.X (COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COC32.
paths	Paths of the End.X (COC32) SID	Sublist	The details of the sublist refer to end-x_coc32 paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-x_psp_coc32	Information of the End.X (PSP_COC32) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COC32.
paths	Paths of the End.X (PSP_COC32) SID	Sublist	The details of the sublist refer to end-x_psp_coc32 paths table.	N/A
end-x_pspuspusd	Information of the End.X (PSP USP USD) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSPUSPUSD.
paths	Paths of the	Sublist	The details of the sublist refer to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	End.X (PSP USP USD) SID		end-x_pspuspusd paths table.	
end-x_cocnone	Information of the End.X (COC-NONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_COCNONE.
paths	Paths of the End.X (COC-NONE) SID	Sublist	The details of the sublist refer to end-x_cocnone paths table.	N/A
end-x_psp_cocnone	Information of the End.X (PSP_COCNONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSP_COCNONE.
paths	Paths of the End.X (PSP_COCNONE) SID	Sublist	The details of the sublist refer to end-x_psp_cocnone paths table.	N/A
end-x_pspuspusd_cocnone	Information of the End.X (PSPUSPUSD_COCNONE) SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.X_PSPUSPUSD_COCNONE.
paths	Paths of the End.X (PSPUSPUSD_COCNONE) SID	Sublist	The details of the sublist refer to end-x_pspuspusd_cocnone paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable	This column is valid only when end-behavior-type is End.DT6.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• l3vpn-evpn-enable	
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dx2	Information of the End.DX2 SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of

Column name	Column description	Column type	Data type and restrictions	Remarks
				your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
end-dx2l	Information of the End.DX2L SID	Data structure	Members include: • xconnect-group-name • connection-name	This column is valid only when end-behavior-type is End.DX2L.
xconnect-group-name	Cross-connect group name	N/A	String. Length: 1 to 31 characters.	N/A
connection-name	Cross-connect name	N/A	String. Length: 1 to 20 characters.	N/A
vsi-name	Specify a VSI name	N/A	String. Length: 1 to 31 characters.	N/A
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
service-instance	service-instance		Unsigned integer. Value range: 1 to 4096. Default: 0.	Some versions support max service instance ID not 4096.
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
end-dt2u	Information of the End.DT2U SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2U.
vsi-name	VSI name	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
end-dt2m	Information of the End.DT2M SID	Data structure	Members include: • vsi-name	This column is valid only when end-behavior-type is End.DT2M.
vsi-name	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
end-dt2ul	Information of the End.DT2UL SID	Data structure	Members include: • vsi-name.	This column is valid only when end-behavior-type is End.DT2UL.
vsi-name	VSI name	N/A	String. Length: 1 to 31characters.	N/A
end-dx4	Information of the End.DX4 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End.DX4.
paths	Paths of the End.DX4 SID	Sublist	For more information about the sublist, see the end-dx4 paths table.	N/A
end-dx6	Information of the End.DX6 SID	Data structure	Members include: • paths.	This column is valid only when end-behavior-type is End. DX6.
paths	Paths of the End.DX6 SID	Sublist	For more information about the sublist, see the end-dx6 paths table.	N/A
end-m	Information of the End.M SID	Data structure	Members include: • mirror-locators.	This column is valid only when end-behavior-type is End.M.
mirror-locators	Information of the End.M SID locators	Sublist	For more information about the sublist, see the end-m mirror-locators table.	N/A
end-as	Information of the End.AS SID	Data structure	Members include: • backup-value. • inner-type. • bypass. • bypass-sid. • service-class. • color. • diffserv-uniform. • ttl-value. • ttl-uniform. • l2-fwds. • l3-fwds. • cache.	This column is valid only when end-behavior-type is End.AS.
backup-value	Backup static SRv6 SID	N/A	String, Value range: 1 to $2^{static\text{-}length}$-1.	Example: String: 1

Column name	Column description	Column type	Data type and restrictions	Remarks
			String, IPv6 address string.	String: ::1
inner-type	Original message type	N/A	Enumeration: • None. • IPv4. • IPv6. • IPv4-IPv6.	N/A
bypass	Enabling status of bypass	N/A	Enumeration: • disabled. • enabled.	N/A
bypass-sid	End.AS bypass SID value	N/A	String, IPv6 address string.	This column can be set only when bypass is enabled.
diffserv-mode	DiffServ mode	N/A	Enumeration: • Uniform. • Pipe.	N/A
service-class	Pipe-mode service class	N/A	Enumeration: • be. • af1. • af2. • af3. • af4. • ef. • cs6. • cs7.	This column can be set only when diffserv-mode is pipe.
color	Color for packets of the specified pipe-mode service class	N/A	Enumeration: • Green. • Yellow. • Red.	This column can be set only when diffserv-mode is pipe.
ttl-mode	TTL processing mode	N/A	Enumeration: • Uniform. • Pipe.	N/A
ttl-value	Pipe mode TTL value	N/A	Unsigned integer. Value range: 1 to 255.	This column can be set only when ttl-mode is pipe.
l2-fwds	SFC Layer 2 Ethernet encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l2-fwds table.
l3-fwds	SFC Layer 3 IPv4 or IPv6 encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l3-fwds table.
cache	Cache configuration	Data structure	Members include: • cache-source-address. • sl-num. • ipv6addrs.	For more information, see the srv6/locators/staticsid/local-sids/cache table.

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	Source address used for SFF encapsulation	N/A	String, IPv6 address string.	Example: 1::1.
sl-num	Number of nodes that packets must visit before reaching the destination address	N/A	Unsigned integer.	N/A
ipv6addrs	List of SIDs to be encapsulated	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/cache/ipv6addrs table.

srv6/locators/staticsid/local-sids/end-x/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-x_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set paths table together while end-behavior-type is End.X_COC32. You can't delete paths table only. When you delete local-sids table, paths table is deleted at the same time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-x_psp/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-x_psp_coc32/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-x_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-x_psp_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSP_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. Example: GigabitEthernet2/0/2	

srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSPUSPUSD_COCNONE. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			GigabitEthernet2/0/2	

srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	You must set the paths table together while end-behavior-type is End.X_PSPUSPUSD. You cannot delete the paths table alone. When you delete the local-sids table, the paths table is deleted at the same time.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-dx4/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv4 nexthop address	N/A	IPv4 address.	N/A
vrf	Information of VPN instance name	N/A	String. Length: 0 to 31 characters.	If this column is not included, the path belongs to the public network. An empty string indicates the public network.
evpn-enable	Enable evpn for this SID	N/A	Enumeration • 0—Disable. • 1—Enable.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-dx6/paths

This table contains paths information of ietf-srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address	N/A	IPv6 address.	N/A
vrf	Information of VPN instance name	N/A	String. Length: 0 to 31 characters.	If this column is not included, the path belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled	N/A	Enumeration • 0—Disabled. • 1—Enabled.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

srv6/locators/staticsid/local-sids/end-m/mirror-locators

This table contains locator information for End.M SIDs of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	mirror-locators
Table type	Multi-instance table
Row name	locator
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	IPv6 prefix	Index	IPv6 address.	IPv6 address.
prefix-length	Prefix length	Index	Unsigned integer. Value range: 32 to 120.	Unsigned integer. Value range: 32 to 120.

srv6/locators/staticsid/local-sids/end-as/l2-fwds

This table contains Layer 2 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as.

Table description

Item	Description
Feature name	SRv6
Table name	l2-fwds
Table type	Multi-instance table

Row name	l2-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
out-interface	Outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
out-s-vlan	Outer VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
out-c-vlan	Inner VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
in-interface	Incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-s-vlan	Outer VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
in-c-vlan	Inner VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
dest-mac	Destination MAC address	N/A	String. Format: H-H-H.	N/A

srv6/locators/staticsid/local-sids/end-as/l3-fwds

This table contains Layer 3 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as.

Table description

Item	Description
Feature name	SRv6
Table name	l3-fwds
Table type	Multi-instance table
Row name	l3-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthop-address	Layer 3 encapsulation next hop IPv4 or IPv6 address	index	String, IPv4/IPv6 address string.	Example: 1.1.1.1. 1::1
out-interface	Layer 3 outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-interface	Layer 3 incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
symmetric-index	outgoing and incoming traffic that travels through the same VM	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

This table contains a list of SIDs to be encapsulated in packets.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as.

Table description

Item	Description
Feature name	SRv6
Table name	ipv6addrs
Table type	Multi-instance table
Row name	ipv6addr
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-address	List of SIDs to be encapsulated	Index	String, IPv6 address string.	Example: 1::1.

srv6/locators/Locator-algos

This table contains SRv6 locator algorithm configuration information of ietf_srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	Locator-algos
Table type	Multi-instance table

Item	Description
Row name	Locator-algo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Algorithm	Algorithm of the locator	N/A	Unsigned integer. Value range: 128 to 255	N/A

srv6/remote-end-op-prefixes

This table contains remote-end-op-prefix information of ietf srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	ietf_srv6
Table name	remote-end-op-prefixes
Table type	Multi-instance table
Row name	remote-end-op-prefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Colum n type	Data type and restrictions	Remarks
prefix	IPv6 prefix	Index	IPv6 address.	N/A
prefix-length	Prefix length	Index	Unsigned integer. Value range: 1 to 128.	N/A

Example

Get SRv6 locator information.

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get>
  <filter type="subtree">
<b:srv6  xmlns:b="urn:ietf:params:xml:ns:yang:ietf-srv6-base">
  <b:locators>
    <b:locator>
      <b:name>aaa</b:name>
      <b:prefix>
        <b:address></b:address>
        <b:length></b:length>
      </b:prefix>
      <b:coc32-enable></b:coc32-enable>
      <b:compress-mode></b:compress-mode>
      <b:common-prefix-length></b:common-prefix-length>
      <b:node-length></b:node-length>
      <b:csid-length></b:csid-length>
      <b:static-length></b:static-length>
      <b:dynamic-length></b:dynamic-length>
      <b:noncompress-static-length></b:noncompress-static-length>
      <b:noncompress-dynamic-length></b:noncompress-dynamic-length>
      <b:reserved-start-sid></b:reserved-start-sid>
      <b:reserved-count></b:reserved-count>
      <b:args-length></b:args-length>
      <b:anycast></b:anycast>
      <b:static>
        <b:local-sids>
          <b:sid>
            <b:opcode></b:opcode>
            <b:end-behavior-type></b:end-behavior-type>
            <b:end-x_psp>
              <b:paths>
                <b:path>
                  <b:path-index></b:path-index>
                  <b:interface></b:interface>
                  <b:next-hop></b:next-hop>
                  <b:if-name></b:if-name>
                </b:path>
              </b:paths>
            </b:end-x_psp>
          </b:sid>
```

```
        </b:local-sids>
      </b:static>
    </b:locator>
    <b:Locator-algos>
      <b:Locator-algo>
        <b:Name>aaa</b:Name>
        <b:Algorithm>128</b:Algorithm>
      </b:Locator-algo>
    </b:Locator-algos>
  </b:locators>
 </b:srv6>
 </filter>
 </get>
</rpc>
```

Contents

ietf_SRv6 2

srv6 2
srv6/locators/ 2
srv6/locators/static/local-sids 4
srv6/locators/static/local-sids/end-x_psp/paths 6
srv6/locators/static/local-sids/end-x_coc32/paths 7
srv6/locators/static/local-sids/end-dx4/paths 7
srv6/locators/staticsid/local-sids 7
srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths 9
srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths 9
srv6/locators/staticsid/local-sids/end-as/l2-fwds 10
srv6/locators/staticsid/local-sids/end-as/l3-fwds 10
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs 11
srv6/locators/Locator-algos 11

ietf_SRv6

srv6

Message	Explanation
When you create, merge or replace the ingress-mode property column as 2 or 3, the service-class property column must be carried. create, merge 或 replace操作时， ingress属性列的值设置为2或3时必须设置serv-class。	When the value for the ingress-mode column is set to 2 or 3, the service-class column must be carried. create, merge 或 replace操作时， ingress属性列的值设置为2或3时必须设置serv-class。
When an operation is delete or remove that carries the diffserv-mode property column, the ingress-mode, egress-mode, and service-class columns must be carried. 对diffserv-mode的操作是delete或remove时，请携带 ingress egress serv-class列。	When you delete or remove the diffserv-mode column, the ingress-mode, egress-mode, and service-class columns must be carried. 对diffserv-mode的操作是delete或remove时，请携带 ingress egress serv-class列。
When you create, merge or replace the diffserv-mode column, the ingress-mode and egress-mode columns must be carried. 当对diffserv-mode的操作是create, merge 或 replace时，ingress和egress必须配置。	When you create, merge or replace the diffserv-mode column, the ingress-mode and egress-mode columns must be carried. 当对diffserv-mode的操作是create, merge 或 replace时，ingress和egress必须配置。
The compress-enable column can't be set before the opcode configuration is removed from end_coc32, end_psp_coc32, end-x_coc32 and end-x_psp_coc32. 将compress-enable属性列设置为false之前，必须删除end_coc32，end_psp_coc32，end-x_coc32及end-x_psp_coc32配置。	Please delete the end_coc32, end_psp_coc32, end-x_coc32 and end-x_psp_coc32 configuration first. 请先删除end_coc32，end_psp_coc32，end-x_coc32及end-x_psp_coc32配置。
SRv6 is not enabled. 未开启SRv6功能。	SRv6 is not enabled. 未开启SRv6功能。

srv6/locators/

Message	Explanation
The locator name already exists. 指定Locator name已经存在。	The locator name already exists. 指定Locator name已经存在。
address attribute column is required. 需要补齐address属性列。	address attribute column is required. 需要补齐address属性列。
length attribute column is required. 需要补齐length属性列。	length attribute column is required. 需要补齐length属性列。
static-length attribute column is required. 需要补齐static-length属性列。	static-length attribute column is required. 需要补齐static-length属性列。
The locator name is invalid.	The locator name is invalid.

指定Locator name无效值。	指定Locator name无效值。
The locator prefix overlaps with that of another locator. 指定的前缀与其他locator有重叠。	The locator prefix overlaps with that of another locator. 指定的前缀与其他locator有重叠。
The value of static-length is invalid. The value must be in the range of %u to %u. static-length的值非法，该值有效范围是%u - %u	The value of static-length is invalid. The value must be in the range of %u to %u. static-length的值非法，该值有效范围是%u - %u
The prefix has been used by another locator. 指定的前缀已被其他locator占用。	The prefix has been used by another locator. 指定的前缀已被其他locator占用。
Please specify a prefix for the locator. 请给指定的locator指定一个prefix。	Please specify a prefix for the locator. 请给指定的locator指定一个prefix。
The value of args-length is invalid. The value must be in the range of %u to %u. args-length的值无效，该值有效范围为%u - %u。	The value of args-length is invalid. The value must be in the range of %u to %u. args-length的值无效，该值有效范围是%u - %u。
args-length attribute column is required. 需要补齐args-length属性列。	args-length attribute column is required. 需要补齐args-length属性列。
The IPv6 prefix cannot be a multicast IPv6 address. 组播地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a multicast IPv6 address. 组播地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be a loopback IPv6 address. 环回地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a loopback IPv6 address. 环回地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be a link-local IPv6 address. 链路本地地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a link-local IPv6 address. 链路本地地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be the unspecified address. 未指定地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be the unspecified address. 未指定地址不能作为IPv6前缀地址。
The IPv6 prefix conflicts with the IPv6 address of %s. IPv6前缀地址与接口%s的IPv6地址冲突。	The IPv6 prefix conflicts with the IPv6 address of %s. IPv6前缀地址与接口%s的IPv6地址冲突。
The IPv6 prefix conflicts with a global address or global prefix. IPv6前缀地址与全局地址或全局前缀冲突。	The IPv6 prefix conflicts with a global address or global prefix. IPv6前缀地址与全局地址或全局前缀冲突。
The coc32-enable column is required. 需要补齐coc32-enable属性列。	The coc32-enable column is required. 需要补齐coc32-enable属性列。
The common-prefix-length column is required. 需要补齐common-prefix-length属性列。	The common-prefix-length column is required. 需要补齐common-prefix-length属性列。
The value of common-prefix-length is invalid. The value must be in the range of %u to %u. common-prefix-length的值无效，该值有效范围为%u - %u。	The value of common-prefix-length is invalid. The value must be in the range of %u to %u. common-prefix-length的值无效，该值有效范围为%u - %u。
Can't delete the locator because dynamic SRv6 SIDs of the locator are being used.	Can't delete the locator because dynamic SRv6 SIDs of the locator are being used.

Locator段内存在正在被使用的动态SRv6 SID时，不能删除该Locator。	Locator段内存在正在被使用的动态SRv6 SID时，不能删除该Locator。

srv6/locators/static/local-sids

Message	Explanation
The operation code already exists. 指定Opcode已经存在。	The operation code already exists. 指定Opcode已经存在。
end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。	end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。
any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。	any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。
path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。	path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。
The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。	The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。
vrf attribute column is required. 需要补齐vrf属性列。	vrf attribute column is required. 需要补齐vrf属性列。
evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。	evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。
xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。	xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。
connection-name attribute column is required. 需要补齐connection-name属性列。	connection-name attribute column is required. 需要补齐connection-name属性列。
vsi-name attribute column is required. 需要补齐vsi-name属性列。	vsi-name attribute column is required. 需要补齐vsi-name属性列。
The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。	The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。
The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。	The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。
l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。	l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。
evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。	evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。
The value of xconnect-group-name attribute column can’t contain ‘-‘.	The value of xconnect-group-name attribute column can’t contain ‘-‘.

xconnect-grouop-name属性列的值不能含有'-'。	xconnect-grouop-name属性列的值不能含有'-'。
The value of connection-name attribute column can't contain '-'. connection-name属性列的值不能含有'-'。	The value of connection-name attribute column can't contain '-'. connection-name属性列的值不能含有'-'。
The referenced VPN instance does not exist. 引用的VPN实例不存在。	The referenced VPN instance column does not exist. 引用的VPN实例不存在。
The referenced xconnect-group-name or connection-name does not exist. 引用的xconnect-group-name或connection-name不存在。	The referenced xconnect-group-name or connection-name does not exist. 引用的connection-name不存在。
The referenced vsi-name does not exist. 引用的vsi-name不存在。	The referenced vsi-name does not exist. 引用的vsi-name不存在。
The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode中已经使用过了引用。	The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode引用中已经使用过了。
The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode中已经使用过了引用。	The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode引用中已经使用过了。
This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。	This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。
Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。	Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。
Invalid hex opcode. Please specify a valid static length. Hex Opcode无效，请指定有效的静态段长度。	Invalid hex opcode. Please specify a valid static length. Hex Opcode无效，请指定有效的静态段长度。
Please specify the sub table corresponding to %s. 需要指定%s对应的子表。	Please specify the sub table corresponding to %s. 需要指定%s对应的子表。
Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。	Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。
You cannot configure both the connection-name and vsi settings. connection-name与vsi配置存在冲突，不能同时配置。	You cannot configure both the connection-name and vsi settings. connection-name与vsi配置存在冲突，不能同时配置。
You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。
You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。
Please use staticsid table to config cocboth locator.	Please use staticsid table to config cocboth locator.

cocboth类型的locator请使用staticsid表配置。	cocboth类型的locator请使用staticsid表配置。
The specified output interface and next hop configuration already exist. 指定的出接口和下一跳配置已存在。	The specified output interface and next hop configuration already exist. 指定的出接口和下一跳配置已存在。
The End.X SIDs with the same opcode value must have the same end-behavior-type value. 相同opcode值的End.X SID的end-behavior-type值必须相同	The End.X SIDs with the same opcode value must have the same end-behavior-type value. 相同opcode值的End.X SID的end-behavior-type值必须相同
The path index value is already exist. 路径索引值已存在。	The path index value is already exist. 路径索引值已存在。
The proxy peer SID cannot be in the same locator as the End.AS SID. Proxy peer-sid不能和End.AS类型的SID属于locator下。	The proxy peer SID cannot be in the same locator as the End.AS SID. Proxy peer-sid不能和End.AS类型的SID属于locator下。

srv6/locators/static/local-sids/end-x_psp/paths

Message	Explanation
Invalid next hop. 无效的Nexthop。	Invalid next hop. 无效的Nexthop。
interface attribute column is required. 要补齐interface属性列。	interface attribute column is required. 要补齐interface属性列。
next-hop attribute column is required. 需要补齐next-hop属性列。	next-hop attribute column is required. 需要补齐next-hop属性列。
The path-index attribute index only support 0. path-index索引列只支持0。	The path-index attribute index only support 0. path-index索引列只支持0。
Invalid Interface Index. 无效的接口索引。	Invalid Interface Index. 无效的接口索引。
The specified output interface and next hop configuration already exist. 指定的出接口和下一跳配置已存在。	The specified output interface and next hop configuration already exist. 指定的出接口和下一跳配置已存在。
The End.X SIDs with the same opcode value must have the same end-behavior-type value. 相同opcode值的End.X SID的end-behavior-type值必须相同	The End.X SIDs with the same opcode value must have the same end-behavior-type value. 相同opcode值的End.X SID的end-behavior-type值必须相同
The path index value is already exist. 路径索引值已存在。	The path index value is already exist. 路径索引值已存在。

srv6/locators/static/local-sids/end-x_coc32/paths

Message	Explanation
Please enable the compress-enable and commom-prefix-length columns first. 请先启用compress-enable和commom-prefix-length属性列。	Please enable the compress-enable and commom-prefix-length columns first. 请先启用compress-enable和commom-prefix-length属性列。

srv6/locators/static/local-sids/end-dx4/paths

Message	Explanation
The VPN instance and nexthop address have already been used by another opcode 该VPN实例和Nexthop地址已经被另一个opcode使用。	The VPN instance and nexthop address have already been used by another opcode 该VPN实例和Nexthop地址已经被另一个opcode使用。

srv6/locators/staticsid/local-sids

Message	Explanation
The operation code already exists. 指定Opcode已经存在。	The operation code already exists. 指定Opcode已经存在。
end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。	end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。
any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。	any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。
path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。	path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。
The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。	The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。
vrf attribute column is required. 需要补齐vrf属性列。	vrf attribute column is required. 需要补齐vrf属性列。
evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。	evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。
xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。	xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。
connection-name attribute column is required. 需要补齐connection-name属性列。	connection-name attribute column is required. 需要补齐connection-name属性列。
vsi-name attribute column is required. 需要补齐vsi-name属性列。	vsi-name attribute column is required. 需要补齐vsi-name属性列。

The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。	The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。
The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。	The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。
l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。	l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。
evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。	evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。
The value of xconnect-group-name attribute column can’t contain ‘-‘. xconnect-grouop-name属性列的值不能含有’-‘。	The value of xconnect-group-name attribute column can’t contain ‘-‘. xconnect-grouop-name属性列的值不能含有’-‘。
The value of connection-name attribute column can’t contain ‘-‘. connection-name属性列的值不能含有’-‘。	The value of connection-name attribute column can’t contain ‘-‘. connection-name属性列的值不能含有’-‘。
The referenced VPN instance does not exist. 引用的VPN实例不存在。	The referenced VPN instance column does not exist. 引用的VPN实例不存在。
The referenced xconnect-group-name or connection-name does not exist. 引用的xconnect-group-name或connection-name不存在。	The referenced xconnect-group-name or connection-name does not exist. 引用的connection-name不存在。
The referenced vsi-name does not exist. 引用的vsi-name不存在。	The referenced vsi-name does not exist. 引用的vsi-name不存在。
The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode中已经使用过了引用。	The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode引用中已经使用过了。
The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode中已经使用过了引用。	The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode引用中已经使用过了。
This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。	This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。
Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。	Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。
Please specify the sub table corresponding to %s. 需要指定%s对应的子表。	Please specify the sub table corresponding to %s. 需要指定%s对应的子表。
Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。	Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。
You cannot configure both the connection-name and vsi settings.	You cannot configure both the connection-name and vsi settings.

connection-name与vsi配置存在冲突，不能同时配置。	connection-name与vsi配置存在冲突，不能同时配置。
You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。
You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。
PSPUSPUSD is not supported. 不支持PSUSPUSD配置	PSPUSPUSD is not supported. 不支持PSUSPUSD配置

srv6/locators/staticsid/local-sids/end-x_pspuspusd/paths

Message	Explanation
Invalid next hop. 无效的Nexthop。	Invalid next hop. 无效的Nexthop。
interface attribute column is required. 要补齐interface属性列。	interface attribute column is required. 要补齐interface属性列。
next-hop attribute column is required. 需要补齐next-hop属性列。	next-hop attribute column is required. 需要补齐next-hop属性列。
The path-index attribute index only support 0. path-index索引列只支持0。	The path-index attribute index only support 0. path-index索引列只支持0。
Invalid Interface Index. 无效的接口索引。	Invalid Interface Index. 无效的接口索引。

srv6/locators/staticsid/local-sids/end-x_pspuspusd_cocnone/paths

Message	Explanation
Please enable the compress-enable and commom-prefix-length columns first. 请先启用compress-enable和commom-prefix-length属性列。	Please enable the compress-enable and commom-prefix-length columns first. 请先启用compress-enable和commom-prefix-length属性列。

srv6/locators/staticsid/local-sids/end-as/l2-fwds

Message	Explanation
The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。	The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。
The same incoming interface, inner VLAN, and outer VLAN can be specified only for one End.AS. 相同入接口和入方向报文的内外层vlan只能在一个End.AS中。	The same incoming interface, inner VLAN, and outer VLAN can be specified only for one End.AS. 相同入接口和入方向报文的内外层vlan只能在一个End.AS中。
The number of load balancing paths between SFF and SF exceeds the maximum value. 多次下发指定不同接口和VLAN，SFF和SF之间负载分担链路数量超出限制。	The number of load balancing paths between SFF and SF exceeds the maximum value. 多次下发指定不同接口和VLAN，SFF和SF之间负载分担链路数量超出限制。
Illegal MAC address. 无效的MAC地址。	Illegal MAC address. 无效的MAC地址。
The in-interface attribute column is required. 需要补齐in-interface属性列。	The in-interface attribute column is required. 需要补齐in-interface属性列。
You cannot specify the inner VLAN column when the outer VLAN column is not specified. 未携带外层vlan属性列时，不允许携带内层vlan属性列。	You cannot specify the inner VLAN column when the outer VLAN column is not specified. 未携带外层vlan属性列时，不允许携带内层vlan属性列。

srv6/locators/staticsid/local-sids/end-as/l3-fwds

Message	Explanation
The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。	The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。
The number of load balancing paths between SFF and SF exceeds the maximum value. SFF和SF之间负载分担链路数量超出限制。	The number of load balancing paths between SFF and SF exceeds the maximum value. SFF和SF之间负载分担链路数量超出限制。
The same incoming interface can be specified only for one End.AS. 同一个入接口只能配置在一个End.AS下。	The same incoming interface can be specified only for one End.AS. 同一个入接口只能配置在一个End.AS下。
The same incoming interface can be specified only in one encapsulation mode. 同一个入接口只能配置在相同的封装模式下。	The same incoming interface can be specified only in one encapsulation mode. 同一个入接口只能配置在相同的封装模式下。
The outgoing interface and incoming interface can only be Layer 3 interfaces. 出接口和入接口只支持三层口。	The outgoing interface and incoming interface can only be Layer 3 interfaces. 出接口和入接口只支持三层口。

The in-interface attribute column is required. 需要补齐in-interface属性列。	The in-interface attribute column is required. 需要补齐in-interface属性列。

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

Message	Explanation
Do not add two identical SIDs in the cache list. Cache list中的不能有两个相同SID。	Do not add two identical SIDs in the cache list. Cache list中的不能有两个相同SID。
The local End.AS SID must be in the cache list but cannot be the last address. 本地End.AS SID必须在除第1个地址外的其余地址中。	The local End.AS SID must be in the cache list but cannot be the last address. 本地End.AS SID必须在除第1个地址外的其余地址中。

srv6/locators/Locator-algos

Message	Explanation
Algorithm attribute column is required. 需要补齐 Algorithm 属性列。	Algorithm attribute column is required. 需要补齐 Algorithm 属性列。

Contents

SRv6 2

srv6 2
XML structure 2
Table description 5
Columns 5
srv6/encapsulation 6
XML structure 6
Table description 7
Columns 7
srv6/locators 7
XML structure 7
Table description 7
Columns 8
srv6/locators/static/local-sids 9
XML structure 9
Table description 9
Columns 9
srv6/locators/static/local-sids/end-x/paths 12
XML structure 12
Table description 12
Columns 13
srv6/locators/static/local-sids/end-x_psp/paths 13
XML structure 13
Table description 13
Columns 13
srv6/locators/staticsid/local-sids 14
XML structure 14
Table description 14
Columns 14
srv6/locators/staticsid/local-sids/end-x/paths 19
XML structure 19
Table description 19
Columns 20
srv6/locators/staticsid/local-sids/end-x_psp/paths 20
XML structure 20
Table description 21
Columns 21
srv6/locators/staticsid/local-sids/end-as/l2-fwds 21
XML structure 22
Table description 22
Columns 22
srv6/locators/staticsid/local-sids/end-as/l3-fwds 23
XML structure 23
Table description 23
Columns 24
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs 25
XML structure 25
Table description 25
Columns 25

SRv6

srv6

This table contains SRv6 configuration information.

XML structure

```
<srv6>
  <encapsulation>
    <source-address></source-address>
    <hop-limit>
      <value></value>
    </hop-limit>
  </encapsulation>
  <path-mtu></path-mtu>
  <path-mtu-reserved></path-mtu-reserved>
  <diffserv-mode>
    <ingress-mode></ingress-mode>
    <egress-mode></egress-mode>
    <service-class></service-class >
  </diffserv-mode>
  <proxy-peer-sid></proxy-peer-sid>
  <locators>
    <locator>
      <name></name>
      <prefix>
        <address></address>
        <length></length>
      </prefix>
      <static-length></static-length>
      <args-length></args-length>
      <static>
        <local-sids>
          <sid>
            <opcode></opcode>
            <end-behavior-type></end-behavior-type>
            <end-x>
              <paths>
                <path>
                  <path-index></path-index>
                  <interface></interface>
                  <next-hop></next-hop>
```

```
          </path>
        </paths>
      </end-x>
      <end-x_psp>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x_psp>
      <end-dt6>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt6>
      <end-dt4>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt4>
      <end-dt46>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt46>
    </sid>
  </local-sids>
</static>
<staticsid>
  <local-sids>
    <sid>
      <opcode></opcode>
      <end-behavior-type></end-behavior-type>
      <end-x>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x>
      <end-x_psp>
        <paths>
          <path>
```

```
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_psp>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt4>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-as>
  <backup-value></backup-value>
  <inner-type></inner-type>
  <bypass></bypass>
  <bypass-sid></bypass-sid>
  <diffserv-mode></diffserv-mode>
  <service-class></service-class>
  <color></color>
  <ttl-mode></ttl-mode>
  <ttl-value></ttl-value>
  <l2-fwds>
    <l2-fwd>
      <out-interface></out-interface>
      <out-s-vlan></out-s-vlan>
      <out-c-vlan></out-c-vlan>
      <in-interface></in-interface>
      <in-s-vlan></in-s-vlan>
      <in-c-vlan></in-c-vlan>
      <dest-mac></dest-mac>
    </l2-fwd>
  </l2-fwds>
  <l3-fwds>
    <l3-fwd>
      <nexthop-address></nexthop-address>
      <out-interface></out-interface>
      <in-interface></in-interface>
```

```
            <symmetric-index></symmetric-index>
          </l3-fwd>
        </l3-fwds>
        <cache>
          <source-address></source-address>
          <ipv6addrs>
            <ipv6addr>
              <ipv6-address></ipv6-address>
            </ipv6addr>
          </ipv6addrs>
        </cache>
      </end-as>
    </sid>
  </local-sids>
</staticsid>
</locator>
</locators>
</srv6>
```

Table description

Item	Description
Feature name	SRv6
Table name	srv6
Table type	Single-instance table, multi-level table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
encapsulation	Information of the encapsulation	Subtable	For details of the subtable, refer to the encapsulation table.	N/A
path-mtu	Path MTU	N/A	Unsigned integer. The value range varies by device model.	N/A
path-mtu-reserved	Path MTU	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	reserved		The value range varies by device model. Default: 72.	
diffserv-mode	DiffServ mode configuration	Data structure	Members include: • ingress-mode • egress-mode • service-class	N/A
ingress-mode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
egress-mode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
service-class	Service class value	N/A	Unsigned integer. Value range: 0 to 7.	This column will be ignored when ingress-mode is uniform.
proxy-peer-sid	Peer SID of the proxy node	N/A	String, IPv6 address string, END SID.	Example: 1::1.
locators	Information of the locators	Sublist	For details of the sublist, refer to locators table.	N/A

srv6/encapsulation

This table contains encapsulation configuration information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	encapsulation
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	IPv6 source address	N/A	IPv6 address.	N/A
hop-limit	Hop limit	Data structure	Members include: • value	N/A
value	Hop limit value	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	N/A

srv6/locators

This table contains SRv6 locator configuration information of SRv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6

Item	Description
Table name	locators
Table type	Multi-instance table, multi-level table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
prefix	IPv6 address prefix and the prefix length.	Data structure	Members include: • address • length	N/A
address	IPv6 address prefix.	N/A	IPv6 address	N/A
length	Prefix length.	N/A	Unsigned integer. Value range: 32 to 120.	N/A
static-length	Static length.	N/A	Unsigned integer. Value range: 0 to 32. Default: 0.	N/A
args-length	Argument length.	N/A	Unsigned integer. Value range: 0 to 64. Default: 0.	N/A
static	Information of the static SIDs.	Sublist	For more information about the sublist, see the static local-sids table.	N/A
staticsid	Information of the	Sublist	For more information	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	static SIDs.		about the sublist, see the staticsid local-sids table.	

srv6/locators/static/local-sids

This table contains local SID configuration information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	local-sids
Table type	Multi-instance table, multi-level table
Row name	sid
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
end-behavior-type	SRv6 SID type	N/A	String, case-sensitive. Supported types:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• End • End_PSP • End.X • End.X_PSP • End.OP • End.DT4 • End.DT6 • End.DT46	
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the	N/A	Enumeration • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	End.DT4 SID		• 1—Enable	
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public

Column name	Column description	Column type	Data type and restrictions	Remarks
				network.
evpn-enable	Whether EVPN is enabled for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A

srv6/locators/static/local-sids/end-x/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

srv6/locators/static/local-sids/end-x_psp/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids

This table contains local SID configuration information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	local-sids
Table type	Multi-instance table, multi-level table
Row name	sid
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
end-behavior-type	SRv6 SID type	Index	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Supported types: • End • End_PSP • End.X • End.X_PSP • End.OP • End.DT4 • End.DT6 • End.DT46 • End.AS	
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
evpn-enable	Whether EVPN is enabled for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the

Column name	Column description	Column type	Data type and restrictions	Remarks
				public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-as	Information of the End.AS SID	Data structure	Members include: • backup-value. • inner-type. • bypass. • bypass-sid. • service-class. • color. • diffserv-uniform. • ttl-value. • ttl-uniform. • l2-fwds. • l3-fwds. • cache.	This column is valid only when end-behavior-type is End.AS.
backup-value	Backup static SRv6 SID	N/A	String, Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
inner-type	Original message type	N/A	Enumeration: • None. • IPv4. • IPv6. • IPv4-IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
bypass	Enabling status of bypass	N/A	Enumeration: • disabled. • enabled.	N/A
bypass-sid	End.AS bypass SID value	N/A	String, IPv6 address string.	This column can be set only when bypass is enabled.
diffserv-mode	DiffServ mode	N/A	Enumeration: • Iniform. • Pipe.	N/A
service-class	Pipe-mode service class	N/A	Enumeration: • be. • af1. • af2. • af3. • af4. • ef. • cs6. • cs7.	This column can be set only when diffserv-mode is pipe.
color	Color for packets of the specified pipe-mode service class	N/A	Enumeration: • Green. • Yellow. • Red.	This column can be set only when diffserv-mode is pipe.
ttl-mode	TTL processing mode.	N/A	Enumeration: • Uniform. • Pipe.	N/A
ttl-value	TTL value	N/A	Unsigned integer. Value range: 1 to 255.	This column can be set only when ttl-mode is pipe.
l2-fwds	SFC Layer 2 Ethernet encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l2-fwds table.

Column name	Column description	Column type	Data type and restrictions	Remarks
l3-fwds	SFC Layer 3 IPv4 or IPv6 encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l3-fwds table.
cache	Cache configuration	Data structure	Members include: • cache-source-address. • ipv6addrs.	For more information, see the srv6/locators/staticsid/local-sids/cache table.
source-address	Source address used for SFF encapsulation	N/A	String, IPv6 address string.	Example: 1::1.
ipv6addrs	List of SIDs to be encapsulated	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/cache/ipv6addrs table.

srv6/locators/staticsid/local-sids/end-x/paths

This table contains paths information of srv6-base.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	paths
Table type	Multi-instance table

Item	Description
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_psp/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-as/l2-fwds

This table contains Layer 2 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	l2-fwds
Table type	Multi-instance table
Row name	l2-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
out-interface	Outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
out-s-vlan	Outer VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
out-c-vlan	Inner VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
in-interface	Incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-s-vlan	Outer VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
in-c-vlan	Inner VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
dest-mac	Destination MAC address	N/A	String. Format: H-H-H.	N/A

srv6/locators/staticsid/local-sids/end-as/l3-fwds

This table contains Layer 3 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	l3-fwds

Table type	Multi-instance table
Row name	l3-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthop-address	Layer 3 encapsulation next hop IPv4 or IPv6 address	Index	String, IPv4/IPv6 address string.	Example: 1.1.1.1. 1::1
out-interface	Layer 3 outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-interface	Layer 3 incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
symmetric-index	Outgoing and	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	incoming traffic that travels through the same VM		Value range: 1 to 4294967295.	

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

This table contains a list of SIDs to be encapsulated in packets.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	ipv6addrs
Table type	Multi-instance table
Row name	ipv6addr
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-address	List of SIDs to be encapsulated	Index	String, IPv6 address string.	Example: 1::1.

Contents

SRv6 2

srv6 2
XML structure 2
Table description 5
Columns 5
srv6/encapsulation 6
XML structure 7
Table description 7
Columns 7
srv6/locators 7
XML structure 7
Table description 8
Columns 8
srv6/locators/static/local-sids 9
XML structure 9
Table description 9
Columns 9
srv6/locators/static/local-sids/end-x/paths 12
XML structure 12
Table description 12
Columns 13
srv6/locators/static/local-sids/end-x_psp/paths 13
XML structure 13
Table description 13
Columns 13
srv6/locators/staticsid/local-sids 14
XML structure 14
Table description 14
Columns 14
srv6/locators/staticsid/local-sids/end-x/paths 19
XML structure 19
Table description 20
Columns 20
srv6/locators/staticsid/local-sids/end-x_psp/paths 20
XML structure 21
Table description 21
Columns 21
srv6/locators/staticsid/local-sids/end-as/l2-fwds 22
XML structure 22
Table description 22
Columns 22
srv6/locators/staticsid/local-sids/end-as/l3-fwds 23
XML structure 23
Table description 24
Columns 24
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs 25
XML structure 25
Table description 25
Columns 26

SRv6

srv6

This table contains SRv6 configuration information.

XML structure

```
<srv6>
  <encapsulation>
    <source-address></source-address>
    <hop-limit>
      <value></value>
    </hop-limit>
  </encapsulation>
  <path-mtu></path-mtu>
  <path-mtu-reserved></path-mtu-reserved>
  <diffserv-mode>
    <ingress-mode></ingress-mode>
    <egress-mode></egress-mode>
    <service-class></service-class >
  </diffserv-mode>
  <proxy-peer-sid></proxy-peer-sid>
  <max-sid-list-depth></max-sid-list-depth>
  <locators>
    <locator>
      <name></name>
      <prefix>
        <address></address>
        <length></length>
      </prefix>
      <static-length></static-length>
      <args-length></args-length>
      <static>
        <local-sids>
          <sid>
            <opcode></opcode>
            <end-behavior-type></end-behavior-type>
            <end-x>
              <paths>
                <path>
                  <path-index></path-index>
                  <interface></interface>
```

```
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x>
      <end-x_psp>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x_psp>
      <end-dt6>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt6>
      <end-dt4>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt4>
      <end-dt46>
        <vrf></vrf>
        <evpn-enable></evpn-enable>
        <l3vpn-evpn-enable></l3vpn-evpn-enable>
      </end-dt46>
    </sid>
  </local-sids>
</static>
<staticsid>
  <local-sids>
    <sid>
      <opcode></opcode>
      <end-behavior-type></end-behavior-type>
      <end-x>
        <paths>
          <path>
            <path-index></path-index>
            <interface></interface>
            <next-hop></next-hop>
          </path>
        </paths>
      </end-x>
      <end-x_psp>
        <paths>
```

```
    <path>
      <path-index></path-index>
      <interface></interface>
      <next-hop></next-hop>
    </path>
  </paths>
</end-x_psp>
<end-dt6>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt6>
<end-dt4>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt4>
<end-dt46>
  <vrf></vrf>
  <evpn-enable></evpn-enable>
  <l3vpn-evpn-enable></l3vpn-evpn-enable>
</end-dt46>
<end-as>
  <backup-value></backup-value>
  <inner-type></inner-type>
  <bypass></bypass>
  <bypass-sid></bypass-sid>
  <diffserv-mode></diffserv-mode>
  <service-class></service-class>
  <color></color>
  <ttl-mode></ttl-mode>
  <ttl-value></ttl-value>
  <l2-fwds>
    <l2-fwd>
      <out-interface></out-interface>
      <out-s-vlan></out-s-vlan>
      <out-c-vlan></out-c-vlan>
      <in-interface></in-interface>
      <in-s-vlan></in-s-vlan>
      <in-c-vlan></in-c-vlan>
      <dest-mac></dest-mac>
    </l2-fwd>
  </l2-fwds>
  <l3-fwds>
    <l3-fwd>
      <nexthop-address></nexthop-address>
      <out-interface></out-interface>
```

```
                <in-interface></in-interface>
                <symmetric-index></symmetric-index>
              </l3-fwd>
            </l3-fwds>
            <cache>
              <source-address></source-address>
              <sl-num></sl-num>
              <ipv6addrs>
                <ipv6addr>
                  <ipv6-address></ipv6-address>
                </ipv6addr>
              </ipv6addrs>
            </cache>
          </end-as>
        </sid>
      </local-sids>
    </staticsid>
  </locator>
</locators>
</srv6>
```

Table description

Item	Description
Feature name	SRv6
Table name	srv6
Table type	Single-instance table, multi-level table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
encapsulation	Information of the encapsulation	Subtable	For more information about the subtable, see the encapsulation table.	N/A
path-mtu	Path MTU	N/A	Unsigned integer. The value range varies by device model.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
path-mtu-reserved	Path MTU reserved	N/A	Unsigned integer. The value range varies by device model.	N/A
diffserv-mode	DiffServ mode configuration	Data structure	Members include: • ingress-mode • egress-mode • service-class	N/A
ingress-mode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
egress-mode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
service-class	Service class value	N/A	Unsigned integer. Value range: 0 to 7.	This column will be ignored when ingress-mode is uniform.
max-sid-list-depth	Maximum SID depth	N/A	Unsigned integer.	Only supports the get operation.
proxy-peer-sid	Peer SID of the proxy node	N/A	String, IPv6 address string, END SID.	Example: 1::1.
locators	Information of the locators	Sublist	For details of the sublist, refer to the locators table.	N/A

srv6/encapsulation

This table contains encapsulation configuration information of SRv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	encapsulation
Table type	Single-instance table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
source-address	IPv6 source address	N/A	IPv6 address.	N/A
hop-limit	Hop limit	Data structure	Members include: • value	N/A
value	Hop limit value	N/A	Unsigned integer. Value range: 1 to 255.	N/A

srv6/locators

This table contains SRv6 locator configuration information of SRv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	locators
Table type	Multi-instance table, multi-level table
Row name	locator
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Locator name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
prefix	IPv6 address prefix and the prefix length.	Data structure	Members include: • address • length	N/A
address	IPv6 address prefix.	N/A	IPv6 address.	N/A
length	Prefix length.	N/A	Unsigned integer. Value range: 32 to 120.	N/A
static-length	Static length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
args-length	Argument length.	N/A	Unsigned integer. Value range: 0 to 64.	N/A
static	Information of the static SIDs.	Sublist	For more information about the sublist, see the static local-sids table.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
staticsid	Information of the static SIDs.	Sublist	For more information about the sublist, see the staticsid local-sids table.	N/A

srv6/locators/static/local-sids

This table contains local SID configuration information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	local-sids
Table type	Multi-instance table, multi-level table
Row name	sid
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
end-behavior-type	SRv6 SID type	N/A	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Supported types: • End • End_PSP • End.X • End.X_PSP • End.OP • End.DT4 • End.DT6 • End.DT46	
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Whether	N/A	Enumeration	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	EVPN is enabled for the End.DT4 SID		• 0—Disable • 1—Enable	
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
				An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A

srv6/locators/static/local-sids/end-x/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

srv6/locators/static/local-sids/end-x_psp/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	srv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids

This table contains local SID configuration information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	local-sids
Table type	Multi-instance table, multi-level table
Row name	sid
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
opcode	Opcode of an SRv6 SID.	Index	String. Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
end-behavior-type	SRv6 SID type	Index	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Supported types: • End • End_PSP • End.X • End.X_PSP • End.OP • End.DT4 • End.DT6 • End.DT46 • End.AS	
end-x	Information of the End.X SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X.
paths	Paths of the End.X SID	Sublist	The details of the sublist refer to end-x paths table.	N/A
end-x_psp	Information of the End.X (PSP) SID	Data structure	Members include: • paths	This column is valid only when end-behavior-type is End.X_PSP.
paths	Paths of the End.X (PSP) SID	Sublist	The details of the sublist refer to end-x_psp paths table.	N/A
end-dt4	Information of the End.DT4 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT4.
vrf	VPN instance name of the End.DT4 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
evpn-enable	Whether EVPN is enabled for the End.DT4 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT4 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt6	Information of the End.DT6 SID	Data structure	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT6.
vrf	VPN instance name of the End.DT6 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the public network. An empty string indicates the public network.
evpn-enable	Information of the EVPN END.DT6 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT6 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-dt46	Information of the End.DT46 SID	N/A	Members include: • vrf • evpn-enable • l3vpn-evpn-enable	This column is valid only when end-behavior-type is End.DT46.
vrf	VPN instance name of the End.DT46 SID	N/A	String. Length: 0 to 31 characters.	If this column is not included, the SID belongs to the

Column name	Column description	Column type	Data type and restrictions	Remarks
				public network. An empty string indicates the public network.
evpn-enable	Whether EVPN is enabled for the End.DT46 SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
l3vpn-evpn-enable	Information of L3VPN and EVPN END.DT46 type SID	N/A	Enumeration • 0—Disable • 1—Enable	N/A
end-as	Information of the End.AS SID	Data structure	Members include: • backup-value. • inner-type. • bypass. • bypass-sid. • service-class. • color. • diffserv-uniform. • ttl-value. • ttl-uniform. • l2-fwds. • l3-fwds. • cache.	This column is valid only when end-behavior-type is End.AS.
backup-value	Backup static SRv6 SID	N/A	String, Value range: 1 to $2^{static\text{-}length}$-1. String, IPv6 address string.	Example: String: 1 String: ::1
inner-type	Original message type	N/A	Enumeration: • None. • IPv4. • IPv6. • IPv4-IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
bypass	Enabling status of bypass	N/A	Enumeration: • disabled. • enabled.	N/A
bypass-sid	End.AS bypass SID value	N/A	String, IPv6 address string.	This column can be set only when bypass is enabled.
diffserv-mode	DiffServ mode	N/A	Enumeration: • Uniform. • Pipe.	N/A
service-class	Pipe-mode service class	N/A	Enumeration: • be. • af1. • af2. • af3. • af4. • ef. • cs6. • cs7.	This column can be set only when diffserv-mode is pipe.
color	Color for packets of the specified pipe-mode service class	N/A	Enumeration: • Green. • Yellow. • Red.	This column can be set only when diffserv-mode is pipe.
ttl-mode	TTL processing mode	N/A	Enumeration: • Uniform. • Pipe.	N/A
ttl-value	TTL value	N/A	Unsigned integer. Value range: 1 to 255.	This column can be set only when ttl-mode is pipe.
l2-fwds	SFC Layer 2 Ethernet encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l2-fwds table.

Column name	Column description	Column type	Data type and restrictions	Remarks
l3-fwds	SFC Layer 3 IPv4 or IPv6 encapsulation method	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/l3-fwds table.
cache	Cache configuration	Data structure	Members include: • cache-source-address. • sl-num. • ipv6addrs.	For more information, see the srv6/locators/staticsid/local-sids/cache table.
source-address	Source address used for SFF encapsulation	N/A	String, IPv6 address string.	Example: 1::1.
sl-num	Number of nodes that packets must visit before reaching the destination address	N/A	Unsigned integer.	N/A
ipv6addrs	List of SIDs to be encapsulated	Sublist	N/A	For more information, see the srv6/locators/staticsid/local-sids/cache/ipv6addrs table.

srv6/locators/staticsid/local-sids/end-x/paths

This table contains paths information of srv6-base.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-x_psp/paths

This table contains paths information of srv6.

XML structure

Please refer to the XML Structure of srv6.

Table description

Item	Description
Feature name	SRv6
Table name	paths
Table type	Multi-instance table
Row name	path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-index	Index of path.	Index	Unsigned integer. Value range: 0.	Only 0 is supported.
interface	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
next-hop	IPv6 nexthop address.	N/A	IPv6 address.	N/A

srv6/locators/staticsid/local-sids/end-as/l2-fwds

This table contains Layer 2 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	l2-fwds
Table type	Multi-instance table
Row name	l2-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
out-interface	Outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
out-s-vlan	Outer VLAN ID of the outgoing	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			
out-c-vlan	Inner VLAN ID of the outgoing interface	Index	Unsigned integer. Value range: 1 to 4094.	N/A
in-interface	Incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-s-vlan	Outer VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
in-c-vlan	Inner VLAN ID of the incoming interface	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
dest-mac	Destination MAC address	N/A	String. Format: H-H-H.	N/A

srv6/locators/staticsid/local-sids/end-as/l3-fwds

This table contains Layer 3 encapsulation method parameters for SFC.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	l3-fwds
Table type	Multi-instance table
Row name	l3-fwd
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthop-address	Layer 3 encapsulation next hop IPv4 ornIPv6 address	Index	String, IPv4/IPv6 address string.	Example: 1.1.1.1. 1::1
out-interface	Layer 3 outgoing interface	Index	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
in-interface	Layer 3 incoming interface	N/A	String. Length: 1 to 47 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
symmetric-index	Outgoing and incoming traffic that travels through the same VM	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

This table contains a list of SIDs to be encapsulated in packets.

XML structure

Please refer to the XML Structure of srv6/locators/staticsid/local-sids/end-as/

Table description

Item	Description
Feature name	SRv6
Table name	ipv6addrs
Table type	Multi-instance table
Row name	ipv6addr
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ipv6-address	List of SIDs to be encapsulated	Index	String, IPv6 address string.	Example: 1::1.

Contents

SRv6 2
srv6 2
srv6/locators/ 2
srv6/locators/static/local-sids 4
srv6/locators/static/local-sids/end-x_psp/paths 6
srv6/locators/staticsid/local-sids 7
srv6/locators/staticsid/local-sids/end-as/l2-fwds 8
srv6/locators/staticsid/local-sids/end-as/l3-fwds 9
srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs 10

SRv6

srv6

Message	Explanation
When you create, merge or replace the ingress-mode property column as 2 or 3, the service-class property column must be carried. create, merge 或 replace操作时， ingress属性列的值设置为2或3时必须设置serv-class。	When the value for the ingress-mode column is set to 2 or 3, the service-class column must be carried. create, merge 或 replace操作时， ingress属性列的值设置为2或3时必须设置serv-class。
When an operation is delete or remove that carries the diffserv-mode property column, the ingress-mode, egress-mode, and service-class columns must be carried. 对diffserv-mode的操作是delete或remove时，请携带 ingress egress serv-class列。	When you delete or remove the diffserv-mode column, the ingress-mode, egress-mode, and service-class columns must be carried. 对diffserv-mode的操作是delete或remove时，请携带 ingress egress serv-class列。
When you create, merge or replace the diffserv-mode column, the ingress-mode and egress-mode columns must be carried. 当对diffserv-mode的操作是create, merge 或 replace时，ingress和egress必须配置。	When you create, merge or replace the diffserv-mode column, the ingress-mode and egress-mode columns must be carried. 当对diffserv-mode的操作是create, merge 或 replace时，ingress和egress必须配置。
SRv6 is not enabled. 未开启SRv6功能。	SRv6 is not enabled. 未开启SRv6功能。

srv6/locators/

Message	Explanation
The locator name already exists. 指定Locator name已经存在。	The locator name already exists. 指定Locator name已经存在。
address attribute column is required. 需要补齐address属性列。	address attribute column is required. 需要补齐address属性列。
length attribute column is required. 需要补齐length属性列。	length attribute column is required. 需要补齐length属性列。

static-length attribute column is required. 需要补齐static-length属性列。	static-length attribute column is required. 需要补齐static-length属性列。
The locator name is invalid. 指定Locator name无效值。	The locator name is invalid. 指定Locator name无效值。
The locator prefix overlaps with that of another locator. 指定的前缀与其他locator有重叠。	The locator prefix overlaps with that of another locator. 指定的前缀与其他locator有重叠。
The value of static-length is invalid. The value must be in the range of %u to %u. static-length的值非法，该值有效范围是%u - %u	The value of static-length is invalid. The value must be in the range of %u to %u. static-length的值非法，该值有效范围是%u - %u
The prefix has been used by another locator. 指定的前缀已被其他locator占用。	The prefix has been used by another locator. 指定的前缀已被其他locator占用。
Please specify a prefix for the locator. 请给指定的locator指定一个prefix。	Please specify a prefix for the locator. 请给指定的locator指定一个prefix。
The value of args-length is invalid. The value must be in the range of %u to %u. args-length的值无效，该值有效范围为%u - %u。	The value of args-length is invalid. The value must be in the range of %u to %u. args-length的值无效，该值有效范围是%u - %u。
args-length attribute column is required. 需要补齐args-length属性列。	args-length attribute column is required. 需要补齐args-length属性列。
The IPv6 prefix cannot be a multicast IPv6 address. 组播地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a multicast IPv6 address. 组播地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be a loopback IPv6 address. 环回地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a loopback IPv6 address. 环回地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be a link-local IPv6 address. 链路本地地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be a link-local IPv6 address. 链路本地地址不能作为IPv6前缀地址。
The IPv6 prefix cannot be the unspecified address. 未指定地址不能作为IPv6前缀地址。	The IPv6 prefix cannot be the unspecified address. 未指定地址不能作为IPv6前缀地址。
The IPv6 prefix conflicts with the IPv6 address of %s. IPv6前缀地址与接口%s的IPv6地址冲突。	The IPv6 prefix conflicts with the IPv6 address of %s. IPv6前缀地址与接口%s的IPv6地址冲突。

The IPv6 prefix conflicts with a global address or global prefix. IPv6前缀地址与全局地址或全局前缀冲突。	The IPv6 prefix conflicts with a global address or global prefix. IPv6前缀地址与全局地址或全局前缀冲突。
Can't delete the locator because dynamic SRv6 SIDs of the locator are being used. Locator段内存在正在被使用的动态SRv6 SID时，不能删除该Locator。	Can't delete the locator because dynamic SRv6 SIDs of the locator are being used. Locator段内存在正在被使用的动态SRv6 SID时，不能删除该Locator。

srv6/locators/static/local-sids

Message	Explanation
The operation code already exists. 指定Opcode已经存在。	The operation code already exists. 指定Opcode已经存在。
end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。	end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。
any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。	any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。
path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。	path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。
The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。	The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。
vrf attribute column is required. 需要补齐vrf属性列。	vrf attribute column is required. 需要补齐vrf属性列。
evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。	evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。
xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。	xconnect-group-name attribute column is required. 需要补齐xonnect-group-name属性列。
connection-name attribute column is required. 需要补齐connection-name属性列。	connection-name attribute column is required. 需要补齐connection-name属性列。
vsi-name attribute column is required.	vsi-name attribute column is required.

需要补齐vsi-name属性列。	需要补齐vsi-name属性列。
The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。	The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。
The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。	The value of l3vpn-evpn-enable attribute column can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。
l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。	l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。
evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。	evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。
The value of xconnect-group-name attribute column can't contain '-'. xconnect-grouop-name属性列的值不能含有'-'。	The value of xconnect-group-name attribute column can't contain '-'. xconnect-grouop-name属性列的值不能含有'-'。
The value of connection-name attribute column can't contain '-'. connection-name属性列的值不能含有'-'。	The value of connection-name attribute column can't contain '-'. connection-name属性列的值不能含有'-'。
The referenced VPN instance does not exist. 引用的VPN实例不存在。	The referenced VPN instance column does not exist. 引用的VPN实例不存在。
The referenced xconnect-group-name or connection-name does not exist. 引用的xconnect-group-name或connection-name不存在。	The referenced xconnect-group-name or connection-name does not exist. 引用的connection-name不存在。
The referenced vsi-name does not exist. 引用的vsi-name不存在。	The referenced vsi-name does not exist. 引用的vsi-name不存在。
The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode中已经使用过了引用。	The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode引用中已经使用过了。
The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode中	The VSI of vsi-name attribute column is already used by another opcode. 该vsi-name已经被属性列的值在另一个Opcode引用中已经使用过

已经使用过了引用。	了。
This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。	This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。
Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。	Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。
Invalid hex opcode. Please specify a valid static length. Hex Opcode无效，请指定有效的静态段长度。	Invalid hex opcode. Please specify a valid static length. Hex Opcode无效，请指定有效的静态段长度。
Please specify the sub table corresponding to %s. 需要指定%s对应的子表。	Please specify the sub table corresponding to %s. 需要指定%s对应的子表。
Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。	Please specify the xconnect-group-name or vsi-name settings. 需要补充xconnect-group-name或者vsi-name属性列。
You cannot configure both the connection-name and vsi settings. connection-name与vsi配置存在冲突，不能同时配置。	You cannot configure both the connection-name and vsi settings. connection-name与vsi配置存在冲突，不能同时配置。
You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the interface and xconnect-group-name settings. interface与xconnect-group-name配置存在冲突，不能同时配置。
You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。	You cannot configure both the service-instance and xconnect-group-name settings. service-instance与xconnect-group-name配置存在冲突，不能同时配置。

srv6/locators/static/local-sids/end-x_psp/paths

Message	Explanation
Invalid next hop. 无效的Nexthop。	Invalid next hop. 无效的Nexthop。
interface attribute column is required.	interface attribute column is required.

要补齐interface属性列。	要补齐interface属性列。
next-hop attribute column is required. 需要补齐next-hop属性列。	next-hop attribute column is required. 需要补齐next-hop属性列。
The path-index attribute index only support 0. path-index索引列只支持0。	The path-index attribute index only support 0. path-index索引列只支持0。
Invalid Interface Index. 无效的接口索引。	Invalid Interface Index. 无效的接口索引。

srv6/locators/staticsid/local-sids

Message	Explanation
The operation code already exists. 指定Opcode已经存在。	The operation code already exists. 指定Opcode已经存在。
end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。	end-behavior-type attribute column is required. 需要补齐end-behavior-type属性列。
any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。	any end-x_psp attribute column is not required. 不允许携带end-x_psp参数。
path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。	path-index attribute index is required when end-behavior-type attribute colum set to End.X_PSP. end-behavior-type指定为End.X_PSP时，需要补齐path-index。
The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。	The value of opcode is invalid. The value must be in the range of %u to %u. opcode的值非法，该值有效范围是%u - %u。
vrf attribute column is required. 需要补齐vrf属性列。	vrf attribute column is required. 需要补齐vrf属性列。
evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。	evpn-enable attribute column is required. 需要补齐EvpnEnable属性列。
The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。	The value of evpn-enable attribute column can only be 0 or 1. evpn-enable属性列的值只能是0或1。
The value of l3vpn-evpn-enable attribute column	The value of l3vpn-evpn-enable attribute column can only be 0 or

can only be 0 or 1. l3vpn-evpn-enable属性列的值只能是0或1。	1. l3vpn-evpn-enable属性列的值只能是0或1。
l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。	l3vpn-evpn-enable attribute column only can be set when vrf attribute column is configured. l3vpn-evpn-enable只有在配置vrf属性列后才能生效。
evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。	evpn-enable and l3vpn-evpn-enable attribute columns can not be configured at the same time. evpn-enable和l3vpn-evpn-enable属性列不能同时配置。
The referenced VPN instance does not exist. 引用的VPN实例不存在。	The referenced VPN instance column does not exist. 引用的VPN实例不存在。
The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode中已经使用过了引用。	The VPN instance of vrf attribute column is already used by another opcode. 该VPN实例已经被vrf属性列的值在另一个Opcode引用中已经使用过了。
This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。	This column is valid only when end-behavior-type is %s. 当前属性列只支持end-behavior为%s。
Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。	Invalid opcode. Please specify a valid static length. Opcode无效，请指定有效的静态段长度。
Please specify the sub table corresponding to %s. 需要指定%s对应的子表。	Please specify the sub table corresponding to %s. 需要指定%s对应的子表。
The proxy peer SID cannot be in the same locator as the End.AS SID. Proxy peer-sid不能和End.AS类型的SID属于locator下。	The proxy peer SID cannot be in the same locator as the End.AS SID. Proxy peer-sid不能和End.AS类型的SID属于locator下。

srv6/locators/staticsid/local-sids/end-as/l2-fwds

Message	Explanation
The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict.	The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation

同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。	ipv4/encapsulation ipv6提示冲突。
The same incoming interface, inner VLAN, and outer VLAN can be specified only for one End.AS. 相同入接口和入方向报文的内外层vlan只能在一个End.AS中。	The same incoming interface, inner VLAN, and outer VLAN can be specified only for one End.AS. 相同入接口和入方向报文的内外层vlan只能在一个End.AS中。
The number of load balancing paths between SFF and SF exceeds the maximum value. 多次下发指定不同接口和VLAN，SFF和SF之间负载分担链路数量超出限制。	The number of load balancing paths between SFF and SF exceeds the maximum value. 多次下发指定不同接口和VLAN，SFF和SF之间负载分担链路数量超出限制。
Illegal MAC address. 无效的 MAC 地址。	Illegal MAC address. 无效的 MAC 地址。
The in-interface attribute column is required. 需要补齐 in-interface 属性列。	The in-interface attribute column is required. 需要补齐 in-interface 属性列。
You cannot specify the inner VLAN column when the outer VLAN column is not specified. 未携带外层 vlan 属性列时，不允许携带内层 vlan 属性列。	You cannot specify the inner VLAN column when the outer VLAN column is not specified. 未携带外层 vlan 属性列时，不允许携带内层 vlan 属性列。

srv6/locators/staticsid/local-sids/end-as/l3-fwds

Message	Explanation
The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。	The Ethernet encapsulation configuration and the IPv4 or IPv6 encapsulation configuration conflict. 同时配置了encapsulation eth和encapsulation ipv4/encapsulation ipv6提示冲突。
The number of load balancing paths between SFF and SF exceeds the maximum value. SFF 和 SF 之间负载分担链路数量超出限制。	The number of load balancing paths between SFF and SF exceeds the maximum value. SFF 和 SF 之间负载分担链路数量超出限制。
The same incoming interface can be specified only for one End.AS. 同一个入接口只能配置在一个 End.AS 下。	The same incoming interface can be specified only for one End.AS. 同一个入接口只能配置在一个 End.AS 下。
The same incoming interface can be specified only in one encapsulation mode.	The same incoming interface can be specified only in one encapsulation mode.

同一个入接口只能配置在相同的封装模式下。	同一个入接口只能配置在相同的封装模式下。
The outgoing interface and incoming interface can only be Layer 3 interfaces. 出接口和入接口只支持三层口。	The outgoing interface and incoming interface can only be Layer 3 interfaces. 出接口和入接口只支持三层口。
The in-interface attribute column is required. 需要补齐 in-interface 属性列。	The in-interface attribute column is required. 需要补齐 in-interface 属性列。

srv6/locators/staticsid/local-sids/end-as/cache/ipv6addrs

Message	Explanation
Do not add two identical SIDs in the cache list. Cache list中的不能有两个相同SID。	Do not add two identical SIDs in the cache list. Cache list中的不能有两个相同SID。
The local End.AS SID must be in the cache list but cannot be the last address. 本地 End.AS SID 必须在除第 1 个地址外的其余地址中。	The local End.AS SID must be in the cache list but cannot be the last address. 本地 End.AS SID 必须在除第 1 个地址外的其余地址中。

Contents

SRv6 policy 1
srv6-policy/clear-global-statistics 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 1
Responsed columns 1
srv6-policy/clear-policy-statistics 2
XML structure 2
Responsed XML structure 2
Table description 2
Columns 2
Responsed columns 2

SRv6 policy

srv6-policy/clear-global-statistics

This table is a description of SRv6 Policy protocol actions.

XML structure

```
<srv6-policy>
  <clear-global-statistics>
    <clear/>
  </clear-global-statistics>
</srv6-policy>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	SRv6-policy
Table name	ClearGlobalStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear SRv6-policy GlobalStatistics	N/A	Must be empty	N/A

Responsed columns

N/A

srv6-policy/clear-policy-statistics

This table resets data for the SRv6-policy protocol.

XML structure

```
<srv6-policy>
  <clear-policy-statistics>
    <clear>
     <color></color>
     <endpoint></endpoint>
    </clear>
  </clear-policy-statistics>
</srv6-policy>
```

Responsed XML structure

```
N/A
```

Table description

Item	Description
Feature name	SRv6-policy
Table name	ClearPolicyStatistics
Table type	Single-instance table
Row name	clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	
endpoint	IPv6 address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A

Responsed columns

N/A

Contents

SRv6-policy 1

segment-routing-ipv6/traffic-engineering 1
XML structure 1
Table description 8
Columns 8
segment-routing-ipv6/traffic-engineering/attributes 8
XML structure 8
Table description 8
Columns 9
segment-routing-ipv6/traffic-engineering/attributes/segment-lists 13
XML structure 13
Table description 13
Columns 13
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments 13
XML structure 13
Table description 14
Columns 14
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types 14
XML structure 14
Table description 14
Columns 15
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types/segment-type-2 15
XML structure 15
Table description 15
Columns 15
segment-routing-ipv6/traffic-engineering/policies 16
XML structure 16
Table description 16
Columns 16
segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters 20
XML structure 20
Table description 20
Columns 20
segment-routing-ipv6/traffic-engineering/policies/candidate-paths 21
XML structure 21
Table description 21
Columns 21
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists 23
XML structure 23
Table description 23
Columns 24
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-any 24
XML structure 24
Table description 25
Columns 25
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-all 25
XML structure 25
Table description 25
Columns 26
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-exclude-any 26
XML structure 26
Table description 26
Columns 26
segment-routing-ipv6/traffic-engineering/policygroups 26
XML structure 26
Table description 27
Columns 27

segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters 28
XML structure 29
Table description 29
Columns 29
segment-routing-ipv6/traffic-engineering/policygroups/color-dscps 29
XML structure 29
Table description 30
Columns 30
segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps 31
XML structure 31
Table description 31
Columns 31
segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses 32
XML structure 32
Table description 32
Columns 32
segment-routing-ipv6/traffic-engineering/on-demands 33
XML structure 33
Table description 33
Columns 33
segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-any 35
XML structure 35
Table description 35
Columns 35
segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-all 35
XML structure 35
Table description 35
Columns 36
segment-routing-ipv6/traffic-engineering/on-demands/affinities-exclude-any 36
XML structure 36
Table description 36
Columns 36
segment-routing-ipv6/traffic-engineering/on-demand-groups 37
XML structure 37
Table description 37
Columns 37
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps 38
XML structure 38
Table description 38
Columns 39
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses 39
XML structure 40
Table description 40
Columns 40
segment-routing-ipv6/traffic-engineering/affinity-maps 40
XML structure 41
Table description 41
Columns 41
Example 41

SRv6-policy

segment-routing-ipv6/traffic-engineering

This table contains configuration information for SRv6 policy.

XML structure

```
<segment-routing-ipv6>
  <traffic-engineering>
    <attributes>
      <locator></locator>
      <traffic-statistics></traffic-statistics>
      <traffic-service-class></traffic-service-class>
      <traffic-statistics-interval></traffic-statistics-interval>
      <backup-hot-standby></backup-hot-standby>
      <backup-hot-standby-type></backup-hot-standby-type>
      <sbfd></sbfd>
      <sbfd-remoteid></sbfd-remoteid>
      <sbfd-template></sbfd-template>
      <sbfd-backuptemplate></sbfd-backuptemplate>
      <sbfd-reverse-path-type></sbfd-reverse-path-type>
      <bfd-echo></bfd-echo>
      <bfd-echo-sourceipv6></bfd-echo-sourceipv6>
      <bfd-echo-template></bfd-echo-template>
      <bfd-echo-backuptemplate></bfd-echo-backuptemplate>
      <bfd-echo-reverse-path-bsid></bfd-echo-reverse-path-bsid>
      <bfd-type></bfd-type>
      <fwd-ignore-last-sid></fwd-ignore-last-sid>
      <switch-delay></switch-delay>
      <delete-delay></delete-delay>
      <bgp-ls></bgp-ls>
      <pce-delegation></pce-delegation>
      <passive-delegate-report-only></passive-delegate-report-only>
      <pce-reoptimization></pce-reoptimization>
      <pce-reoptimization-frequency></pce-reoptimization-frequency>
      <path-verification></path-verification>
      <path-verification-type></path-verification-type>
      <drop-upon-invalid></drop-upon-invalid>
      <bfd-trigger-path-down></bfd-trigger-path-down>
      <up-delay></up-delay>
      <calc-schedule-interval>
```

```
      <maximum></maximum>
      <minimum></minimum>
      <incremental></incremental>
      <conservative></conservative>
      <millisecond></millisecond>
    </calc-schedule-interval>
    <suppress-flapping>
      <enable></enable>
      <detect-interval></detect-interval>
      <threshold></threshold>
      <resume-interval></resume-interval>
    </suppress-flapping>
    <bfd-first-fail-timer></bfd-first-fail-timer>
    <segment-lists>
      <segment-list>
        <name></name>
        <local-binding-sid></local-binding-sid>
        <reverse-binding-sid></reverse-binding-sid>
        <segments>
          <segment>
            <index></index>
            <type></type>
            <segment-types>
              <segment-type-2>
                <sid-value></sid-value>
                <prefix-length></prefix-length>
                <flags></flags>
              </segment-type-2>
            </segment-types>
          </segment>
        </segments>
      </segment-list>
    </segment-lists>
  </attributes>
  <policies>
    <policy>
      <color></color>
      <endpoint></endpoint>
      <name></name>
      <binding-sid>
        <dataplane></dataplane>
        <value></value>
      </binding-sid>
      <admin-state></admin-state>
```

```
<traffic-statistics></traffic-statistics>
<traffic-service-class></traffic-service-class>
<backup-hot-standby></backup-hot-standby>
<backup-hot-standby-type></backup-hot-standby-type>
<drop-upon-invalid></drop-upon-invalid>
<bfd-trigger-path-down></bfd-trigger-path-down>
<sbfd></sbfd>
<sbfd-remoteid></sbfd-remoteid>
<sbfd-template></sbfd-template>
<sbfd-backuptemplate></sbfd-backuptemplate>
<sbfd-oam-sid></sbfd-oam-sid>
<sbfd-encap></sbfd-encap>
<sbfd-reverse-path-type></sbfd-reverse-path-type>
<fwd-ignore-last-sid></fwd-ignore-last-sid>
<bfd-echo></bfd-echo>
<bfd-echo-sourceipv6></bfd-echo-sourceipv6>
<bfd-echo-template></bfd-echo-template>
<bfd-echo-backuptemplate></bfd-echo-backuptemplate>
<source-address></source-address>
<bfd-oam-sid></bfd-oam-sid>
<bfd-encap></bfd-encap>
<bfd-echo-reverse-path-bsid></bfd-echo-reverse-path-bsid>
<bfd-type></bfd-type>
<service-class></service-class>
<rate-limit></rate-limit>
<pce-delegation></pce-delegation>
<passive-delegate-report-only></passive-delegate-report-only>
<pce-reoptimization></pce-reoptimization>
<pce-reoptimization-frequency></pce-reoptimization-frequency>
<path-verification></path-verification>
<path-verification-type></path-verification-type>
<autoroute>
  <protocol></protocol>
  <cost-absolute></cost-absolute>
  <cost-relative></cost-relative>
</autoroute>
<autoroute-parameters>
  <autoroute-parameter>
    <protocol></protocol>
    <type></type>
    <route-policy></route-policy>
    <include-ipv4></include-ipv4>
  <autoroute-parameter>
</autoroute-parameters>
```

```
<bypassEnable></bypassEnable>
<up-delay></up-delay>
<candidate-paths>
  <candidate-path>
    <protocol-origin></protocol-origin>
    <originator></originator>
    <discriminator></discriminator>
    <preference></preference>
    <dynamic></dynamic>
    <pcep></pcep>
    <router-target></router-target>
    <name></name>
    <bsid></bsid>
    <strict-sid-only></strict-sid-only>
    <metric></metric>
    <metric-type></metric-type>
    <sid-limit></sid-limit>
    <constraints></constraints>
    <segments></segments>
    <sid-algorithm></sid-algorithm>
    <affinity></affinity>
    <include-any-enable></include-any-enable>
    <include-all-enable></include-all-enable>
    <exclude-any-enable></exclude-any-enable>
    <network-slice>
      <slice-id></slice-id>
    </network-slice>
    <affinities-include-any>
      <include-any>
        <name></name>
      </include-any>
    </affinities-include-any>
    <affinities-include-all>
      <include-all>
        <name></name>
      </include-all>
    </affinities-include-all>
    <affinities-exclude-any>
      <exclude-any>
        <name></name>
      </exclude-any>
    </affinities-exclude-any>
    <segment-lists>
      <segment-list>
```

```
            <name-ref></name-ref>
            <weight></weight>
            <path-mtu></path-mtu>
            <backup-segment-list-name></backup-segment-list-name>
            <backup-segment-list-weight></backup-segment-list-weight>
            <backup-segment-list-path-mtu></backup-segment-list-path-mtu>
            <local-binding-sid></local-binding-sid>
            <reverse-binding-sid></reverse-binding-sid>
          </segment-list>
        </segment-lists>
      </candidate-path>
    </candidate-paths>
  </policy>
</policies>
<policygroups>
  <policygroup>
    <groupid></groupid >
    <endpoint></endpoint>
    <group-color></group-color>
    <drop-upon-mismatch></drop-upon-mismatch>
    <forward-type-dot1p></forward-type-dot1p>
    <forward-type></forward-type>
    <best-effort-serviceclass></best-effort-serviceclass>
    <best-effort-default></best-effort-default>
    <best-effort-ipv4-default></best-effort-ipv4-default>
    <best-effort-ipv6-default></best-effort-ipv6-default>
    <autoroute>
      <protocol></protocol>
      <cost-absolute></cost-absolute>
      <cost-relative></cost-relative>
    </autoroute>
    <autoroute-parameters>
      <autoroute-parameter>
        <protocol></protocol>
        <type></type>
        <route-policy></route-policy>
        <include-ipv4></include-ipv4>
      <autoroute-parameter>
    </autoroute-parameters>
    <color-dscps>
      <color-dscp>
        <color></color>
        <dscp-ipv4></dscp-ipv4>
        <dscp-ipv6></dscp-ipv6>
```

```
        <dscp-ipv4-default></dscp-ipv4-default>
        <dscp-ipv6-default></dscp-ipv6-default>
      </color-dscp>
    </color-dscps>
    <color-dot1ps>
      <color-dot1p>
        <color></color>
        <dot1p></dot1p>
        <dot1p-default></dot1p-default>
      </color-dot1p>
    </color-dot1ps>
    <color-serviceclasses>
      <color-serviceclass>
        <color></color>
        <serviceclass></serviceclass>
        <serviceclass-default></serviceclass-default>
      </color-serviceclass>
    </color-serviceclasses>
  </policygroup>
</policygroups>
<on-demands>
  <on-demand>
    <color></color>
    <dynamic></dynamic>
    <pcep></pcep>
    <restrict-prefix-list></restrict-prefix-list>
    <delete-delay></delete-delay>
    <maximum-sid-depth></maximum-sid-depth>
    <sid-algorithm></sid-algorithm>
    <strict-sid-only></strict-sid-only>
    <metric></metric>
    <metric-type></metric-type>
    <include-any-enable></include-any-enable>
    <include-all-enable></include-all-enable>
    <exclude-any-enable></exclude-any-enable>
    <affinities-include-any>
      <include-any>
        <name></name>
      </include-any>
    </affinities-include-any>
    <affinities-include-all>
      <include-all>
        <name></name>
      </include-all>
```

```
        </affinities-include-all>
        <affinities-exclude-any>
          <exclude-any>
            <name></name>
          </exclude-any>
        </affinities-exclude-any>
      </on-demand>
    </on-demands>
    <on-demand-groups>
      <on-demand-group>
        <color></color>
        <description></description>
        <drop-upon-mismatch></drop-upon-mismatch>
        <forward-type-dscp></forward-type-dscp>
        <forward-type></forward-type>
        <best-effort-serviceclass></best-effort-serviceclass>
        <best-effort-default></best-effort-default>
        <color-dscps>
          <color-dscp>
            <color></color>
            <dscp-ipv4></dscp-ipv4>
            <dscp-ipv6></dscp-ipv6>
            <dscp-ipv4-default></dscp-ipv4-default>
            <dscp-ipv6-default></dscp-ipv6-default>
          </color-dscp>
        </color-dscps>
        <color-serviceclasses>
          <color-serviceclass>
            <color></color>
            <serviceclass></serviceclass>
            <serviceclass-default></serviceclass-default>
          </color-serviceclass>
        </color-serviceclasses>
      </on-demand-group>
    </on-demand-groups>
    <affinity-maps>
      <affinity-map>
        <name></name>
        <bit-position></bit-position>
      </affinity-map>
    </affinity-maps>
  </traffic-engineering>
  </segment-routing-ipv6>
```

Table description

Item	Description
Feature name	srv6-policy
Table name	traffic-engineering
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
attributes	Attributes of SRv6 policy.	Subtable	For details of the subtable, refer to the attributes table.	N/A
policies	SRv6 policies.	Sublist	For details of the sublist, refer to the policies table.	N/A
policygroups	SRv6 policy groups.	Sublist	For details of the sublist, refer to the policygroups table.	N/A
on-demands	SRv6 policy on-demands	Sublist	For details of the sublist, refer to the on-demands table.	N/A
on-demand-groups	SRv6 policy on-demand-groups.	Sublist	For details of the sublist, refer to the on-demand-groups table.	N/A
affinity-maps	SRv6 policy affinity-maps.	Sublist	For details of the sublist, refer to the affinity-maps table.	N/A

segment-routing-ipv6/traffic-engineering/attributes

This table contains attributes configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	attributes
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
locator	Locator name	N/A	String. Length: 1 to 31 characters.	N/A
traffic-statistics	Traffic statistics enable	N/A	Boolean: • **true.** • **false.**	N/A
traffic-service-class	Traffic statistic service-class enable	N/A	Boolean: • true. • false.	N/A
traffic-statistics-interval	Traffic statistics interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds. Default: 30 seconds.	N/A
backup-hot-standby	Hot-standby backup.	N/A	Boolean: • **true.** ——Hot standy is enabled. This value equals to backup-hot-standby-type 1 • **false.** ——Hot standby is not enabled. This value equals to backup-hot-standby-type 0	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Hot standby not enabled (default). This value equals to setting backup-hot-standby to false. • 1—Enable policy hot standby. This value equasl to setting backup-hot-standby to true • 2—Enable policy hot standby with multilevel-backup	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
sbfd	SBFD function	N/A	Boolean: • **true.** • **false.**	N/A
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-reverse-path-type	Reverse path for SBFD packets	N/A	Enumeration: • **0**—No reverse path is specified for SBFD packets (default). • **1**—Use the SID list associated with the reverse BSID as the reverse path for SBFD packets.	N/A
fwd-ignore-la st-sid	Ignore last sid when traffic forwarded	N/A	Enumeration: • disabled(default). • enabled	N/A
bfd-echo	BFD echo function	N/A	Boolean: • **true.** • **false.**	N/A
bfd-echo-sour ceipv6	Source IPv6 address for BFD echo session	N/A	IPv6 address, hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
bfd-echo-tem plate	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-bac kuptemplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-reve rse-path-bsid	Enable BFD echo reverse path using Binding SID function	N/A	Boolean: • true. • false.	N/A
bfd-type	BFD type	N/A	Enumeration: • 0—Bypass (default). • 1—No bypass.	N/A
switch-delay	Switchover delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds. Default: 5000 milliseconds.	N/A
delete-delay	Deletion delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds. Default: 20000 milliseconds.	N/A
bgp-ls	Advertise link state information to BGP	N/A	Boolean: • **true.** • **false.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
pce-delegation	Enable PCE delegation function	N/A	Boolean: • **true.** • **false.**	N/A
passive-delegate-report-only	Enable PCE passive-delegate report-only function	N/A	Boolean: • **true.** • **false.**	N/A
pce-reoptimization	Enable PCE reoptimization function	N/A	Boolean: • true. • false.	N/A
pce-reoptimization-frequency	Frequency of PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds. Default: 3600 seconds.	You must make sure pce-reoptimization is true.
path-verification	Enable path verification	N/A	Boolean: • true. • false.	N/A
path-verification-type	Path verification type	N/A	Enumeration: • 0—Path Verification is disabled(default). • 1—Enable path verification. • 2—Enable specified-sid path verification.	N/A
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false(default).	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false(default).	N/A
up-delay	All policy seglist up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
calc-schedule-interval	Time interval of calculation.	Data structure	Members include: • maximum. • minimum. • incremental. • conservative. • millisecond.	N/A
maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60 seconds. Default: 5 seconds.	When configuring minimum, incremental and conservative, maximum must be set; maximum cannot be set at the same time as millisecond.
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000	When configuring incremental and conservative, minimum

Column name	Column description	Column type	Data type and restrictions	Remarks
			milliseconds. Default: 50 milliseconds.	must be set; minimum cannot be set at the same time as millisecond.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000 milliseconds. Default: 200 milliseconds.	When configuring conservative, incremental must be set; minimum cannot be set at the same time as millisecond.
conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • true—Enable route calculation is based on the maximum time interval. • false—Disable route calculation is based on the maximum time interval.	Conservative cannot be set at the same time as millisecond.
millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000 milliseconds. Default: 0 milliseconds.	Millisecond cannot be set at the same time as maximum ,minimum, incremental and conservative.
suppress-flapping	Flapping suppression for srv6-policy sid.	Data structure	Members include: • enable. • detect-interval. • threshold. • resume-interval.	N/A
enable	Enable suppression flapping	N/A	Boolean: • true. • false. Default: true.	N/A
detect-interval	Detect interval of sid flapping suppression	N/A	Unsigned integer. Value range:1 to 300 seconds. Default:60 seconds.	When configuring minimum, resume-interval must be greater than detect-interval.
threshold	Threshold of sid flapping suppression	N/A	Unsigned integer. Value range:1 to 1000. Default:10.	N/A
resume-interval	Resume interval of sid flapping suppression	N/A	Unsigned integer. Value range:2 to 1000 seconds. Default:120 seconds.	When configuring minimum, resume-interval must be greater than detect-interval.
bfd-first-fail-timer	Timer that delays reporting the first BFD session setup failure	N/A	Unsigned integer. Value range: 1 to 600 seconds. Default: 60 seconds.	N/A
segment-lists	Information of the segment-lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists

This table contains segment list configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering/attributes.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Segment list name	Index	String. Length: 1 to 128 characters.	N/A
local-binding-sid	Local Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
reverse-binding-sid	Reverse Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
segments	Information of the segments	Sublist	For details of the sublist, refer to the segments table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments

This table contains segment configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segments
Table type	Multi-instance table
Row name	segment
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Segment ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
type	Segment type	N/A	Enumeration: • 2—segment-type-2.	Only 2 is supported now.
segment-types	Types of segments	Sublist	For details of the sublist, refer to the segment-types table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types

This table contains segment type configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-types
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
segment-type-2	SRv6 SIDs	Subtable	For details of the subtable, refer to the segment-type-2 table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types/segment-type-2

This table contains segment-type-2 configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-type-2
Table type	Single-instance table
Row name	None
Restrictions	You must set the segment-type-2 table together with the segments table. You can't delete the segment-type-2 table seperately. When you delete the segments table, the segment-type-2 table is deleted at the same time.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sid-value	SRv6 SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
prefix-length	Common prefix length of the next G-SID	N/A	Unsigned char. Value range: 1 to 94	N/A
flags	Segment Flags	N/A	Unsigned char. Value range: 0 to 255	N/A

segment-routing-ipv6/traffic-engineering/policies

This table contains SRv6 policy configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	policies
Table type	Multi-instance table
Row name	policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IPv6 address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
name	SRv6 policy name	N/A	String. Length: 1 to 59 characters.	Once a policy name is created, it cannot be modified.
binding-sid	Binding SID information	Data structure	Members include: • dataplane. • value.	N/A
dataplane	Binding SID dataplane type	N/A	Enumeration: • 2—SRv6.	Only 2 is supported now.
value	Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
admin-state	Admin state of the policy	N/A	Enumeration: • 1—UP. • 2—DOWN	N/A
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service	Traffic statistic	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
-class	service-class enable		• true. • false.	
backup-hot-standby	Hot-standby backup.	N/A	Boolean: • **true**. ——Hot standy is enabled. This value equals to backup-hot-standby-type 2 • **false**. ——Hot standby is not enabled. This value equals to backup-hot-standby-type 1**.**	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Use policy-attributes/backup-hot-standby-type setting (default). • 1—Disable policy hot standby. This value equals to setting backup-hot-standby to false.. • 2—Enable policy hot standby. This value equals to setting backup-hot-standby to true • 3—Enable policy hot standby with multilevel-backup.	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false.	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-oam-sid	OAM SID for SBFD	N/A	IPv6: hexadecimal string, colon-separated.	Example: 12::21.
sbfd-encap	Encapsulation	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	mode		• 1—ENCAP • 2—INSERT • 3—INSERT NO ENDPOINT	
sbfd-reverse-path-type	Reverse path for SBFD packets	N/A	Enumeration: • **0**—No reverse path is specified for SBFD packets (default). • **1**—Use the SID list associated with the reverse BSID as the reverse path for SBFD packets.	N/A
fwd-ignore-last-sid	Ignore last sid when traffic forwarded	N/A	Enumeration: • disabled. • enabled	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo session	N/A	IPv6: hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value.
source-address	Source IPv6 address for srv6 policy	N/A	IPv6: hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value. Now Source IPv6 address only for BFD echo and sbfd packet
bfd-echo-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-oam-sid	OAM SID for BFD	N/A	IPv6: hexadecimal string, colon-separated.	Example: 12::21.
bfd-encap	Encapsulation mode	N/A	Enumeration: • 1—ENCAP • 2—INSERT	N/A
bfd-echo-reverse-path-bsid	Enable BFD echo reverse path using Binding SID function	N/A	Boolean: • true. • false.	N/A
bfd-type	BFD type	N/A	Enumeration: • 0—Using BFD-type configuration in attributes (default). • 1—No bypass. • 2—Bypass.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class	Service class for the policy	N/A	Unsigned integer. The value range varies by device model.	The smaller the value, the lower the priority.When service class no set, the default class is 255. Service class 255 means the lowest priority class.
rate-limit	Rate limit for the policy	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
pce-delegation	Enable PCE delegation function	N/A	Boolean: • **true.** • **false.**	N/A
passive-delegate-report-only	Enable PCE passive-delegate report-only function	N/A	Boolean: • **true.** • **false.**	N/A
pce-reoptimization	Enable PCE reoptimization function	N/A	Boolean: • true. • false.	N/A
pce-reoptimization-frequency	Frequency of PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds. Default: 3600 seconds.	You must make sure pce-reoptimization is true.
path-verification	Enable path verification	N/A	Boolean: • true. • false.	N/A
path-verification-type	Path verification type	N/A	Enumeration: • 0—Using path-verification configuration in attributes (default). • 1—Disable path verification. • 2—Enable path verification. • 3—Enable specified-sid path verification.	N/A
autoroute	SRv6 Policy autoroute Information of IGP	Data structure	Members include: • protocol. • cost-absolute • cost-relative	N/A
protocol	IGP protocol	N/A	String. • all • isisv6 • ospfv3	N/A
cost-absolute	Absolute cost	N/A	Unsigned integer. Value range: 1 to 65535.	Cost-absolute and cost-relative cannot both be set at the same time

Column name	Column description	Column type	Data type and restrictions	Remarks
cost-relative	Relative cost	N/A	Integer. Value range: -10 to 10.	Cost-absolute and cost-relative cannot both be set at the same time
autoroute-parameters	Autoroute parameters	Sublist	For more information about the sublist, refer to the autoroute-parameters table.	N/A
bypassEnable	Enable midpoint protection	N/A	Boolean: • true. • false (default).	N/A
up-delay	Policy seglist up delay time	N/A	Unsigned integer. Value range: 1 to 600000.	N/A
candidate-paths	Information of the candidate paths	Sublist	For details of the sublist, refer to the candidate-paths table.	N/A

segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters

This table contains SRv6 policy autoroute parameters.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	autoroute-parameters
Table type	Multi-instance table
Row name	autoroute-parameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	IGP protocol	Index	String. • isisv6.	Specify both the index and non-index parameters for create,merge or replace

Column name	Column description	Column type	Data type and restrictions	Remarks
				operation. Specify only the index parameter for delete or remove operation.
type	Enable type	N/A	String: • host-only.	N/A
route-policy	Name of the routing policy	N/A	String. Length: 1 to 63 characters.	N/A
include-ipv4	Enable support ipv4 route autoroute	N/A	Enumeration: • true. • false.(default)	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths

This table contains candidate path configuration for an SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	candidate-paths
Table type	Multi-instance table
Row name	candidate-path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that	Index	String. Length: 0 to 160 characters.	This column will be ignored when protocol-origin is 20 in some products and is 30.

Column name	Column description	Column type	Data type and restrictions	Remarks
	signaled/instantiated the candidate path on the headend			
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535 in some products.	N/A
preference	Preference of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535	You must set preference equal to discriminator in some products..
dynamic	Dynamic path	N/A	Boolean: • **true.** • **false.**	N/A
pcep	Enable PCE computed SID list function	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
router-target	Router ID of the destinaton node	N/A	IPv4: String, dotted decimal notation.	N/A
name	Path name of the candidate path	N/A	String. Length: 1 to 59 characters.	N/A
bsid	Binding-SID of the candidate path	N/A	IPv6: hexadecimal string, colon-separated.	N/A
strict-sid-only	Enable strict sid only function	N/A	Boolean: • true. • false.	You must make sure dynamic is true.
metric	Path metric	N/A	Boolean: • true. • false.	You must make sure dynamic is true.
metric-type	Path metric type	N/A	Enumeration: • 1—hop count. • 2—igp. • 3—latency. • 4—te.	You must make sure metric is true.
sid-limit	Limit number of SIDs in a SID list	N/A	Unsigned integer.	You must make sure metric is true.
constraints	Path constraints	N/A	Boolean: • true. • false.	N/A
segments	Path segments constraints	N/A	Boolean: • true. • false.	You must make sure constraints is true.
sid-algorithm	Prefix-sid algorithm.	N/A	Unsigned integer. Value range: 128 to 255	You must make sure segments is true.
affinity	Affinity constraints	N/A	Boolean: • true.	You must make sure constraints is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false.	
include-any-enable	Enable affinity attributes, at least one of which must be included.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
include-all-enable	Enable affinity attributes that must be all included.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
exclude-any-enable	Enable the affinity attributes to exclude.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
network-slice	Network slice instance information	Data structure	Members include: • slice-id.	N/A
slice-id	ID of a network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
affinities-include-any	Information of affinities, at least one of which must be included.	Sublist	For details of the sublist, refer to the affinities-include-any table.	You must make sure include-any-enable is true.
affinities-include-all	Information of affinities that must be all included.	Sublist	For details of the sublist, refer to the affinities-include-all table.	You must make sure include-all-enable is true.
affinities-exclude-any	Information of affinities to exclude.	Sublist	For details of the sublist, refer to the affinities-exclude-any table.	You must make sure exclude-any-enable is true.
segment-lists	Information of segment lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists

This table contains segment list information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy

Item	Description
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name-ref	Segment list for an SRv6 policy candidate path	Index	String. Length: 1 to 128 characters.	Reference to segment list name.
weight	Weight of the segment list for weighted load sharing	N/A	Unsigned integer. Value range: 1 to 4294967295. Default: 1.	N/A
path-mtu	Path MTU of the segment list	N/A	Unsigned integer. The value range varies by device model.	N/A
backup-segment-list-name	Backup segment list name	N/A	String. Length: 0 to 128 characters	N/A
backup-segment-list-weight	Weight of the backup segment list for weighted load sharing	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
backup-segment-list-path-mtu	Paht MTU of the backup segment list	N/A	Unsigned integer. The value range varies by device model.	N/A
local-binding-sid	Local Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
reverse-binding-sid	Reverse Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-any

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-any
Table type	Multi-instance table
Row name	include-any
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-all

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-all
Table type	Multi-instance table
Row name	include-all
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-exclude-any

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-exclude-any
Table type	Multi-instance table
Row name	exclude-any
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policygroups

This table contains SRv6 policy group configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	policygroups
Table type	Multi-instance table
Row name	policygroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
groupid	Policy group ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
endpoint	IPv6 address of the policy group endpoint	N/A	IPv6: hexadecimal string, colon-separated.	N/A
group-color	Group color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
drop-upon-mismatch	Enable dropping traffic when the policy or best-effort mismatch	N/A	Enumeration: • disabled(default). • enabled.	N/A
forward-type-dot1p	802.1p priority-based forwarding type	N/A	Boolean: • **true.** • **false.**	N/A
forward-type	Forwarding type	N/A	Enumeration: • dscp—Forward-type-dscp(default). • dot1p—802.1p priority-based forwarding type. • serviceclass—Class-based Tunnel Selection forwarding type.	N/A
best-effort-serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank	Example: 1,2,3,5~8. Available serviceclass values are determined by product. You must make sure forward-type is serviceclass.

Column name	Column description	Column type	Data type and restrictions	Remarks
			spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an serviceclass list for best-effort.	
best-effort-default	Use SRv6-BE as the default policy for packets	N/A	Enumeration: • disabled(default). • enabled.	You must make sure forward-type is serviceclass.
best-effort-ipv4-default	Use SRv6-BE as the default policy for IPv4 packets	N/A	Boolean: • **true** • **false**	N/A
best-effort-ipv6-default	Use SRv6-BE as the default policy for IPv6 packets	N/A	Boolean: • **true** • **false**	N/A
autoroute	SRv6 policy autoroute information of IGP	Data structure	Members include: • protocol. • cost-absolute. • cost-relative.	N/A
protocol	IGP protocol	N/A	String. • isisv6.	N/A
cost-absolute	Absolute cost	N/A	Unsigned integer. Value range: 1 to 65535.	The absolute cost and relative cost cannot be set in pairs.
cost-relative	Relative cost	N/A	Integer. Value range: -10 to 10.	The absolute cost and relative cost cannot be set in pairs.
autoroute-parameters	Autoroute parameters	Sublist	For more information about the sublist, refer to the autoroute-parameters table.	N/A
color-dscps	Color-DSCP mappings	Sublist	For more information about the sublist, refer to the color-dscps table.	N/A
color-dot1ps	Color-802.1p priority mappings	Sublist	For more information about the sublist, refer to the color-dot1ps table.	N/A
color-serviceclasses	Color-serviceclass mappings	Sublist	For more information about the sublist, refer to the color-serviceclasses table.	You must make sure forward-type is serviceclass.

segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters

This table contains SRv6 policy group autoroute parameters.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	autoroute-parameters
Table type	Multi-instance table
Row name	autoroute-parameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	IGP protocol	Index	String. • isisv6.	Specify both the index and non-index parameters for create,merge or replace operation. Specify only the index parameter for delete or remove operation.
type	Enable type	N/A	String: • host-only.	N/A
route-policy	Name of the routing policy	N/A	String. Length: 1 to 63 characters.	N/A
include-ipv4	Enable support ipv4 route autoroute	N/A	Enumeration: • true. • false.(default)	N/A

segment-routing-ipv6/traffic-engineering/policygroups/color-dscps

This table contains color-DSCP mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv4 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv6 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv6 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv4-default	Whether to use this SRv6 policy as the default policy for IPv4 packets	N/A	Boolean: • **true** • **false**	N/A
dscp-ipv6-def	Whether to use	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ault	this SRv6 policy as the default policy for IPv6 packets		• **true** • **false**	

segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps

This table contains color-802.1p priority mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dot1ps
Table type	Multi-instance table
Row name	color-dot1p
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dot1p	802.1p priority values for packets matching	N/A	String. It is a comma-separated list of 802.1p priority values. Each item can be an individual 802.1p priority value or a 802.1p priority value range. Use a tilde (~) to separate the start and end 802.1p priority values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an 802.1p	Example: 0,1,3,5~7. Available Dot1p values are from 0 to 7.

Column name	Column description	Column type	Data type and restrictions	Remarks
			priority list for a color value.	
dot1p-default	Whether to use this SRv6 policy as the default policy for packets	N/A	Boolean: • **true** • **false**	N/A

segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses

This table contains color-serviceclass mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-serviceclasses
Table type	Multi-instance table, multi-level table
Row name	color-serviceclass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy	Example: 1,2,3,5~8. Available serviceclass values are determined by product.

Column name	Column description	Column type	Data type and restrictions	Remarks
			group does not have an serviceclass list for a color value.	
serviceclass-default	Whether to use this SRv6 policy as the default policy for packets	N/A	Enumeration: • disabled(default). • enabled.	N/A

segment-routing-ipv6/traffic-engineering/on-demands

This table contains SRv6 policy on-demand configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	on-demands
Table type	Multi-instance table
Row name	on-demand
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the dynamic policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dynamic	Configure dynamic features for SRv6-TE ODN	N/A	Boolean: • **true.** • **false.**	N/A
pcep	Enable PCE computed SID list function	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
restrict-prefix-list	Name of a prefix-list	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
delete-delay	Deletion delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds. Default: 180000 milliseconds.	N/A
maximum-sid-depth	Limit number of SIDs in a SID list	N/A	Unsigned integer.	N/A
sid-algorithm	Prefix-sid algorithm.	N/A	Unsigned integer. Value range: 128 to 255	You must make sure dynamic is true.
strict-sid-only	Enable strict sid only function	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
metric	Path metric	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
metric-type	Path metric type	N/A	Enumeration: • 1—hop count. • 2—igp. • 3—latency. • 4—te.	You must make sure metric is true.
include-any-enable	Enable affinity attributes, at least one of which must be included.	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
include-all-enable	Enable affinity attributes that must be all included.	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
exclude-any-enable	Enable the affinity attributes to exclude.	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
affinities-include-any	Information of affinities, at least one of which must be included.	Sublist	For details of the sublist, refer to the affinities-include-any table.	You must make sure include-any-enable is true.
affinities-include-all	Information of affinities that must be all included.	Sublist	For details of the sublist, refer to the affinities-include-all table.	You must make sure include-all-enable is true.
affinities-exclude-any	Information of affinities to exclude.	Sublist	For details of the sublist, refer to the affinities-exclude-any table.	You must make sure exclude-any-enable is true.

segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-any

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-any
Table type	Multi-instance table
Row name	include-any
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-all

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-all
Table type	Multi-instance table

Item	Description
Row name	include-all
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demands/affinities-exclude-any

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-exclude-any
Table type	Multi-instance table
Row name	exclude-any
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demand-groups

This table contains SRv6 policy on-demand-group configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	on-demand-groups
Table type	Multi-instance table
Row name	on-demand-group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	On-demand-group color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
description	ODN group description	N/A	String. Length: 1 to 242 characters.	N/A
drop-upon-mismatch	Enable dropping traffic when the policy or best-effort mismatch	N/A	Enumeration: • disabled(default). • enabled.	N/A
forward-type-dscp	Forward-type-dscp	N/A	Boolean: • **true.** • **false.**	N/A
forward-type	Forwarding type	N/A	Enumeration: • none—Not configured(default). • dscp—Forward-type-dscp. • serviceclass—Class-based Tunnel Selection forwarding type.	N/A
best-effort-serviceclass	Serviceclass values for	N/A	String. It is a comma-separated list of	Example: 1,2,3,5~8. Available serviceclass

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets matching best-effort		serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an serviceclass list for best-effort.	values are determined by product. You must make sure forward-type is serviceclass.
best-effort-default	Use SRv6-BE as the default policy for packets	N/A	Enumeration: • disabled(default). • enabled.	You must make sure forward-type is serviceclass.
color-dscps	Color-DSCP mappings	Sublist	For more information about the sublist, refer to the color-dscps table.	N/A
color-serviceclasses	Color-serviceclass mappings	Sublist	For more information about the sublist, refer to the color-serviceclasses table.	You must make sure forward-type is serviceclass.

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps

This table contains color-DSCP mappings for an SRv6 policy on-demand-group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv4 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv6 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv6 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv4-default	Whether to use this SRv6 policy as the default policy for IPv4 packets	N/A	Boolean: • **true.** • **false.**	N/A
dscp-ipv6-default	Whether to use this SRv6 policy as the default policy for IPv6 packets	N/A	Boolean: • **true.** • **false.**	N/A

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses

This table contains color-serviceclass mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-serviceclasses
Table type	Multi-instance table, multi-level table
Row name	color-serviceclass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an serviceclass list for a color value.	Example: 1,2,3,5~8. Available serviceclass values are determined by product.
serviceclass-default	Whether to use this SRv6 policy as the default policyfor packets	N/A	Enumeration: • disabled(default). • enabled.	N/A

segment-routing-ipv6/traffic-engineering/affinity-maps

This table contains SRv6 policy affinity-map configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinity-maps
Table type	Multi-instance table
Row name	affinity-map
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A
bit-position	Bitposion of attribute	N/A	Unsigned integer. Value range: 0 to 31.	Bit-position must be specified.

Example

Configure an SRv6 policy:

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <top xmlns="http://www.h3c.com/netconf/config:1.0">
        <segment-routing-ipv6 xc:operation="merge">
          <traffic-engineering>
            <attributes>
              <segment-lists>
                <segment-list>
                  <name>abc</name>
                  <segments>
                    <segment>
                      <index>10</index>
```

```
            <type>2</type>
            <segment-types>
              <segment-type-2>
                <sid-value>1::1</sid-value>
                <prefix-length>94</prefix-length>
              </segment-type-2>
            </segment-types>
          </segment>
        </segments>
      </segment-list>
    </segment-lists>
  </attributes>
  <policies>
    <policy>
      <color>1</color>
      <endpoint>1::4</endpoint>
      <name>aaa</name>
      <binding-sid>
        <dataplane>2</dataplane>
        <value>1::1</value>
      </binding-sid>
      <autoroute>
        <protocol>isisv6</protocol>
        <cost-relative>5</cost-relative>
      </autoroute>
      <autoroute-parameters>
        <autoroute-parameter>
          <protocol>isisv6</protocol>
          <type>host-only</type>
          <route-policy>RT1</route-policy>
          <include-ipv4>true</include-ipv4>
        <autoroute-parameter>
      </autoroute-parameters>
      <candidate-paths>
        <candidate-path>
          <protocol-origin>30</protocol-origin>
          <originator>0</originator>
          <discriminator>110</discriminator>
          <preference>110</preference>
          <dynamic>true</dynamic>
          <pcep>true</pcep>
          <segment-lists>
            <segment-list>
              <name-ref>www</name-ref>
```

```
                    <weight>10</weight>
                    <path-mtu>1400</path-mtu>
                  </segment-list>
                </segment-lists>
              </candidate-path>
            </candidate-paths>
          </policy>
        </policies>
        <policygroups>
          <policygroup>
            <groupid>1</groupid >
            <endpoint>203::1</endpoint>
            <autoroute>
              <protocol>isisv6</protocol>
              <cost-absolute>5</cost-absolute>
            </autoroute>
            <autoroute-parameters>
              <autoroute-parameter>
                <protocol>isisv6</protocol>
                <type>host-only</type>
                <route-policy>RT1</route-policy>
                <include-ipv4>true</include-ipv4>
              <autoroute-parameter>
            </autoroute-parameters>
          <policygroup>
        <policygroups>
        <on-demands>
          <on-demand>
            <color>100</color>
            <dynamic>true</dynamic>
            <pcep>true</pcep>
            <restrict-prefix-list>abc</restrict-prefix-list>
            <delete-delay>1000</delete-delay>
          </on-demand>
        </on-demands>
      </traffic-engineering>
    </segment-routing-ipv6>
  </top>
</config>
</edit-config>
</rpc>
```

Contents

SRv6-policy 1

segment-routing-ipv6/traffic-engineering 1
XML structure 1
Table description 10
Columns 10
segment-routing-ipv6/traffic-engineering/attributes 11
XML structure 11
Table description 11
Columns 11
segment-routing-ipv6/traffic-engineering/attributes/segment-lists 15
XML structure 15
Table description 15
Columns 15
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments 16
XML structure 16
Table description 16
Columns 16
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types 16
XML structure 16
Table description 17
Columns 17
segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-type-2 17
XML structure 17
Table description 17
Columns 17
segment-routing-ipv6/traffic-engineering/policies 18
XML structure 18
Table description 18
Columns 18
segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters 23
XML structure 23
Table description 24
Columns 24
segment-routing-ipv6/traffic-engineering/policies/candidate-paths 24
XML structure 24
Table description 24
Columns 25
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-any 27
XML structure 27
Table description 27
Columns 27
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-all 28
XML structure 28
Table description 28
Columns 28
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-exclude-any 28
XML structure 28
Table description 28
Columns 29
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists 29
XML structure 29
Table description 29
Columns 29
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists/sid-list 31
XML structure 31
Table description 31
Columns 32

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists/service-classes ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 32
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding-paths ····· 33
XML structure ····· 33
Table description ····· 33
Columns ····· 34
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding/service-classes ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 36
segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding-paths/sid-list ····· 37
XML structure ····· 37
Table description ····· 37
Columns ····· 37
segment-routing-ipv6/traffic-engineering/policygroups ····· 37
XML structure ····· 37
Table description ····· 38
Columns ····· 38
segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40
segment-routing-ipv6/traffic-engineering/policygroups/color-dscps ····· 40
XML structure ····· 40
Table description ····· 41
Columns ····· 41
segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps ····· 42
XML structure ····· 42
Table description ····· 42
Columns ····· 42
segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 43
segment-routing-ipv6/traffic-engineering/on-demands ····· 43
XML structure ····· 44
Table description ····· 44
Columns ····· 44
segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-any ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-all ····· 46
XML structure ····· 46
Table description ····· 46
Columns ····· 46
segment-routing-ipv6/traffic-engineering/on-demands/affinities-exclude-any ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
segment-routing-ipv6/traffic-engineering/on-demand-groups ····· 47
XML structure ····· 47
Table description ····· 47
Columns ····· 47
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps ····· 48
XML structure ····· 49
Table description ····· 49
Columns ····· 49
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses ····· 50
XML structure ····· 50

Table description ····· 50
Columns ····· 50
segment-routing-ipv6/traffic-engineering/affinity-maps ····· 51
XML structure ····· 51
Table description ····· 51
Columns ····· 51
Example ····· 51

SRv6-policy

segment-routing-ipv6/traffic-engineering

This table contains configuration information for SRv6 policy.

XML structure

```
<segment-routing-ipv6>
  <traffic-engineering>
    <attributes>
      <locator></locator>
      <traffic-statistics></traffic-statistics>
      <traffic-service-class></traffic-service-class>
      <traffic-statistics-interval></traffic-statistics-interval>
      <backup-hot-standby></backup-hot-standby>
      <backup-hot-standby-type></backup-hot-standby-type>
      <sbfd></sbfd>
      <sbfd-remoteid></sbfd-remoteid>
      <sbfd-template></sbfd-template>
      <sbfd-backuptemplate></sbfd-backuptemplate>
      <sbfd-reverse-path-type></sbfd-reverse-path-type>
      <bfd-echo></bfd-echo>
      <bfd-echo-sourceipv6></bfd-echo-sourceipv6>
      <bfd-echo-template></bfd-echo-template>
      <bfd-echo-backuptemplate></bfd-echo-backuptemplate>
      <bfd-echo-reverse-path-bsid></bfd-echo-reverse-path-bsid>
      <bfd-type></bfd-type>
      <fwd-ignore-last-sid></fwd-ignore-last-sid>
      <switch-delay></switch-delay>
      <delete-delay></delete-delay>
      <bgp-ls></bgp-ls>
      <pce-delegation></pce-delegation>
      <passive-delegate-report-only></passive-delegate-report-only>
      <pce-reoptimization></pce-reoptimization>
      <pce-reoptimization-frequency></pce-reoptimization-frequency>
      <path-verification></path-verification>
      <path-verification-type></path-verification-type>
      <drop-upon-invalid></drop-upon-invalid>
      <bfd-trigger-path-down></bfd-trigger-path-down>
      <up-delay></up-delay>
      <calc-schedule-interval>
```

```
    <maximum></maximum>
    <minimum></minimum>
    <incremental></incremental>
    <conservative></conservative>
    <millisecond></millisecond>
  </calc-schedule-interval>
  <suppress-flapping>
    <enable></enable>
    <detect-interval></detect-interval>
    <threshold></threshold>
    <resume-interval></resume-interval>
  </suppress-flapping>
  <bfd-first-fail-timer></bfd-first-fail-timer>
  <segment-lists>
    <segment-list>
      <name></name>
      <local-binding-sid></local-binding-sid
      <reverse-binding-sid></reverse-binding-sid>
      <segments>
        <segment>
          <index></index>
          <type></type>
          <segment-types>
            <segment-type-2>
              <sid-value></sid-value>
              <prefix-length></prefix-length>
              <flags></flags>
            </segment-type-2>
          </segment-types>
          <validate></validate>
        </segment>
      </segments>
    </segment-list>
  </segment-lists>
</attributes>
<policies>
  <policy>
    <color></color>
    <endpoint></endpoint>
    <name></name>
    <priority></priority>
    <oper-state></oper-state>
    <forwarding-state></forwarding-state>
    <up-time></up-time>
```

```
<down-time></down-time>
<down-reason></down-reason>
<binding-sid>
  <dataplane></dataplane>
  <value></value>
  <alloc-mode></alloc-mode>
  <allocated-sid></allocated-sid>
  <oper-state></oper-state>
</binding-sid>
<counters>
  <pkts></pkts>
  <octets></octets>
  <inpkts></inpkts>
  <inoctets></inoctets>
  <avg-bit-rate></avg-bit-rate>
  <avg-octet-rate></avg-octet-rate>
  <avg-packet-rate></avg-packet-rate>
  <rt-bit-rate></rt-bit-rate>
  <rt-octet-rate></rt-octet-rate>
  <rt-packet-rate></rt-packet-rate>
</counters>
<admin-state></admin-state>
<traffic-statistics></traffic-statistics>
<traffic-service-class></traffic-service-class>
<backup-hot-standby></backup-hot-standby>
<backup-hot-standby-type></backup-hot-standby-type>
<drop-upon-invalid></drop-upon-invalid>
<bfd-trigger-path-down></bfd-trigger-path-down>
<sbfd></sbfd>
<sbfd-remoteid></sbfd-remoteid>
<sbfd-template></sbfd-template>
<sbfd-backuptemplate></sbfd-backuptemplate>
<sbfd-oam-sid></sbfd-oam-sid>
<sbfd-encap></sbfd-encap>
<sbfd-reverse-path-type></sbfd-reverse-path-type>
<fwd-ignore-last-sid></fwd-ignore-last-sid>
<bfd-echo></bfd-echo>
<bfd-echo-sourceipv6></bfd-echo-sourceipv6>
<bfd-echo-template></bfd-echo-template>
<bfd-echo-backuptemplate></bfd-echo-backuptemplate>
<source-address></source-address>
<bfd-oam-sid></bfd-oam-sid>
<bfd-encap></bfd-encap>
<bfd-echo-reverse-path-bsid></bfd-echo-reverse-path-bsid>
```

```
<bfd-type></bfd-type>
<service-class></service-class>
<rate-limit></rate-limit>
<pce-delegation></pce-delegation>
<passive-delegate-report-only></passive-delegate-report-only>
<pce-reoptimization></pce-reoptimization>
<pce-reoptimization-frequency></pce-reoptimization-frequency>
<path-verification></path-verification>
<path-verification-type></path-verification-type>
<autoroute>
  <protocol></protocol>
  <cost-absolute></cost-absolute>
  <cost-relative></cost-relative>
</autoroute>
<autoroute-parameters>
  <autoroute-parameter>
    <protocol></protocol>
    <type></type>
    <route-policy></route-policy>
    <include-ipv4></include-ipv4>
  <autoroute-parameter>
</autoroute-parameters>
<bypassEnable></bypassEnable>
<up-delay></up-delay>
<candidate-paths>
  <candidate-path>
    <protocol-origin></protocol-origin>
    <originator></originator>
    <discriminator></discriminator>
    <preference></preference>
    <name></name>
    <is-best-candidate-path></is-best-candidate-path>
    <non-selection-reason></non-selection-reason>
    <is-valid></is-valid>
    <dynamic></dynamic>
    <pcep></pcep>
    <router-target></router-target>
    <bsid></bsid>
    <strict-sid-only></strict-sid-only>
    <metric></metric>
    <metric-type></metric-type>
    <sid-limit></sid-limit>
    <constraints></constraints>
    <segments></segments>
```

```
<sid-algorithm></sid-algorithm>
<affinity></affinity>
<include-any-enable></include-any-enable>
<include-all-enable></include-all-enable>
<exclude-any-enable></exclude-any-enable>
<network-slice>
  <slice-id></slice-id>
</network-slice>
<affinities-include-any>
  <include-any>
    <name></name>
  </include-any>
</affinities-include-any>
<affinities-include-all>
  <include-all>
    <name></name>
  </include-all>
</affinities-include-all>
<affinities-exclude-any>
  <exclude-any>
    <name></name>
  </exclude-any>
</affinities-exclude-any>
<segment-lists>
  <segment-list>
    <name-ref></name-ref>
    <list-id></list-id>
    <sid-list>
      <sids>
        <sid></sid>
      </sids>
    </sid-list>
    <weight></weight>
    <path-mtu></path-mtu>
    <state></state>
    <bfd-state></bfd-state>
    <backup-segment-list-name></backup-segment-list-name>
    <backup-segment-list-id></backup-segment-list-id>
    <backup-segment-list-weight></backup-segment-list-weight>
    <backup-segment-list-path-mtu></backup-segment-list-path-mtu>
    <backup-segment-list-state></backup-segment-list-state>
    <backup-segment-list-bfd-state></backup-segment-list-bfd- state>
    <forwarding-state></forwarding-state>
    <pkts></pkts>
```

```
      <octets></octets>
      <local-binding-sid></local-binding-sid>
      <reverse-binding-sid></reverse-binding-sid>
      <rate>
        <avg-bit-rate></avg-bit-rate>
        <avg-octet-rate></avg-octet-rate>
        <avg-packet-rate></avg-packet-rate>
        <rt-bit-rate></rt-bit-rate>
        <rt-octet-rate></rt-octet-rate>
        <rt-packet-rate></rt-packet-rate>
      </rate>
      <service-classes>
        <service-class>
          <service-class-id></service-class-id>
          <pkts></pkts>
          <octets></octets>
          <rate>
            <avg-bit-rate></avg-bit-rate>
            <avg-octet-rate></avg-octet-rate>
            <avg-packet-rate></avg-packet-rate>
            <rt-bit-rate></rt-bit-rate>
            <rt-octet-rate></rt-octet-rate>
            <rt-packet-rate></rt-packet-rate>
          </rate>
        </service-class>
      </service-classes>
    </segment-list>
  </segment-lists>
  <forwarding-paths>
    <forwarding-path>
      <path-id></path-id>
      <next-hop-address></next-hop-address>
      <next-hop-table-id></next-hop-table-id>
      <interface></interface>
      <sid-list>
        <sids>
          <sid></sid>
        </sids>
      </sid-list>
      <is-protected></is-protected>
      <is-pure-backup></is-pure-backup>
      <backup-path-id></backup-path-id>
      <is-backup-seglist></is-backup-seglist>
      <weight></weight>
```

```
          <pkts></pkts>
          <octets></octets>
          <rate>
            <avg-bit-rate></avg-bit-rate>
            <avg-octet-rate></avg-octet-rate>
            <avg-packet-rate></avg-packet-rate>
            <rt-bit-rate></rt-bit-rate>
            <rt-octet-rate></rt-octet-rate>
            <rt-packet-rate></rt-packet-rate>
          </rate>
          <if-name></if-name>
          <service-classes>
            <service-class>
              <service-class-id></service-class-id>
              <pkts></pkts>
              <octets></octets>
              <rate>
                <avg-bit-rate></avg-bit-rate>
                <avg-octet-rate></avg-octet-rate>
                <avg-packet-rate></avg-packet-rate>
                <rt-bit-rate></rt-bit-rate>
                <rt-octet-rate></rt-octet-rate>
                <rt-packet-rate></rt-packet-rate>
              </rate>
            </service-class>
          </service-classes>
        </forwarding-path>
      </forwarding-paths>
    </candidate-path>
  </candidate-paths>
</policy>
</policies>
<policygroups>
  <policygroup>
    <groupid></groupid>
    <endpoint></endpoint>
    <group-color></group-color>
    <drop-upon-mismatch></drop-upon-mismatch>
    <group-origin></group-origin>
    <forward-type-dot1p></forward-type-dot1p>
    <forward-type></forward-type>
    <best-effort-serviceclass></best-effort-serviceclass>
    <best-effort-default></best-effort-default>
    <best-effort-ipv4-default></best-effort-ipv4-default>
```

```
    <best-effort-ipv6-default></best-effort-ipv6-default>
    <autoroute>
      <protocol></protocol>
      <cost-absolute></cost-absolute>
      <cost-relative></cost-relative>
    </autoroute>
    <autoroute-parameters>
      <autoroute-parameter>
        <protocol></protocol>
        <type></type>
        <route-policy></route-policy>
        <include-ipv4></include-ipv4>
      <autoroute-parameter>
    </autoroute-parameters>
    <color-dscps>
      <color-dscp>
        <color></color>
        <dscp-ipv4></dscp-ipv4>
        <dscp-ipv6></dscp-ipv6>
        <dscp-ipv4-default></dscp-ipv4-default>
        <dscp-ipv6-default></dscp-ipv6-default>
      </color-dscp>
    </color-dscps>
    <color-dot1ps>
      <color-dot1p>
        <color></color>
        <dot1p></dot1p>
        <dot1p-default></dot1p-default>
      </color-dot1p>
    </color-dot1ps>
    <color-serviceclasses>
      <color-serviceclass>
        <color></color>
        <serviceclass></serviceclass>
        <serviceclass-default></serviceclass-default>
      </color-serviceclass>
    </color-serviceclasses>
  </policygroup>
</policygroups>
<on-demands>
  <on-demand>
    <color></color>
    <dynamic></dynamic>
    <pcep></pcep>
```

```
    <restrict-prefix-list></restrict-prefix-list>
    <delete-delay></delete-delay>
    <maximum-sid-depth></maximum-sid-depth>
    <sid-algorithm></sid-algorithm>
    <strict-sid-only></strict-sid-only>
    <metric></metric>
    <metric-type></metric-type>
    <include-any-enable></include-any-enable>
    <include-all-enable></include-all-enable>
    <exclude-any-enable></exclude-any-enable>
    <affinities-include-any>
      <include-any>
        <name></name>
      </include-any>
    </affinities-include-any>
    <affinities-include-all>
      <include-all>
        <name></name>
      </include-all>
    </affinities-include-all>
    <affinities-exclude-any>
      <exclude-any>
        <name></name>
      </exclude-any>
    </affinities-exclude-any>
  </on-demand>
</on-demands>
<on-demand-groups>
  <on-demand-group>
    <color></color>
    <description></description>
    <drop-upon-mismatch></drop-upon-mismatch>
    <forward-type-dscp></forward-type-dscp>
    <forward-type></forward-type>
    <best-effort-serviceclass></best-effort-serviceclass>
    <best-effort-default></best-effort-default>
    <color-dscps>
      <color-dscp>
        <color></color>
        <dscp-ipv4></dscp-ipv4>
        <dscp-ipv6></dscp-ipv6>
        <dscp-ipv4-default></dscp-ipv4-default>
        <dscp-ipv6-default></dscp-ipv6-default>
      </color-dscp>
```

```
        </color-dscps>
        <color-serviceclasses>
          <color-serviceclass>
            <color></color>
            <serviceclass></serviceclass>
            <serviceclass-default></serviceclass-default>
          </color-serviceclass>
        </color-serviceclasses>
      </on-demand-group>
    </on-demand-groups>
    <affinity-maps>
      <affinity-map>
        <name></name>
        <bit-position></bit-position>
      </affinity-map>
    </affinity-maps>
  </traffic-engineering>
</segment-routing-ipv6>
```

Table description

Item	Description
Feature name	srv6-policy
Table name	traffic-engineering
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
attributes	Attributes of SRv6 policy.	Subtable	For details of the subtable, refer to the attributes table.	N/A
policies	SRv6 policies.	Sublist	For details of the sublist, refer to the policies table.	N/A
policygroups	SRv6 policy groups.	Sublist	For details of the sublist, refer to the policygroups table.	N/A
on-demands	SRv6 policy on-demands	Sublist	For details of the sublist, refer to the on-demands table.	N/A
on-demand-groups	SRv6 policy on-demand-groups.	Sublist	For details of the sublist, refer to the on-demand-groups table.	N/A
affinity-maps	SRv6 policy	Sublist	For details of the sublist, refer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	affinity-maps.		to the affinity-maps table.	

segment-routing-ipv6/traffic-engineering/attributes

This table contains attributes configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	attributes
Table type	Single-instance table
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
locator	Locator name	N/A	String. Length: 1 to 31 characters.	N/A
traffic-statistics	Traffic statistics enable	N/A	Boolean: • **true.** • **false.**	N/A
traffic-service-class	Traffic statistics service-class enable	N/A	Boolean: • **true.** • **false.**	N/A
traffic-statistics-interval	Traffic statistics interval	N/A	Unsigned integer. Value range: 5 to 65535 seconds.	N/A
backup-hot-standby	Hot-standby backup.	N/A	Boolean: • **true.** ——Hot standy is enabled. This value equals to backup-hot-standby-type 1 • **false.** ——Hot standby is not enabled. This value equals to backup-hot-standby-type 0	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Hot standby not enabled	If both backup-hot-stand

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). This value equals to setting backup-hot-standby to false. • 1—Enable policy hot standby. This value equasl to setting backup-hot-standby to true • 2—Enable policy hot standby with multilevel-backup	by and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
sbfd	SBFD function	N/A	Boolean: • **true.** • **false.**	N/A
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backuptemplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-reverse-path-type	Reverse path for SBFD packets	N/A	Enumeration: • **0**—No reverse path is specified for SBFD packets. • **1**—Use the SID list associated with the reverse BSID as the reverse path for SBFD packets.	N/A
fwd-ignore-last-sid	Ignore last sid when traffic forwarded	N/A	Enumeration: • disabled. • enabled	N/A
bfd-echo	BFD echo function	N/A	Boolean: • **true.** • **false.**	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo session	N/A	IPv6 address, hexadecimal string, colon-separated.	N/A
bfd-echo-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-reverse-path-bsid	Enable BFD echo reverse path using Binding SID function	N/A	Boolean: • true. • false.	N/A
bfd-type	BFD type	N/A	Enumeration: • 0—Bypass. • 1—No bypass**.**	N/A
switch-delay	Switchoverdelay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
delete-delay	Deletion delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A
bgp-ls	Advertise link state information to BGP	N/A	Boolean: • **true.** • **false.**	N/A
pce-delegation	Enable PCE delegation function	N/A	Boolean: • **true.** • **false.**	N/A
passive-delegate-report-only	Enable PCE passive-delegate report-only function	N/A	Boolean: • **true.** • **false.**	N/A
pce-reoptimization	Enable PCE reoptimization function	N/A	Boolean: • true. • false.	N/A
pce-reoptimization-frequency	Frequency of PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds.	You must make sure pce-reoptimization is true.
path-verification	Enable path verification	N/A	Boolean: • **true.** • **false.**	N/A
path-verification-type	Path verification type	N/A	Enumeration: • 0—Path Verification is disabled(default). • 1—Enable path verification. • 2—Enable specified-sid path verification.	N/A
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false.	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
up-delay	All policy segment list up delay time	N/A	Unsigned integer. Value range: 0 to 600000.	N/A
calc-schedule-interval	Time interval of calculation.	Data structure	Members include: • maximum. • minimum. • incremental. • conservative. • millisecond.	N/A
maximum	Maximum time interval	N/A	Unsigned integer. Value range:1 to 60 seconds.	When configuring minimum, incremental and conservative,

Column name	Column description	Column type	Data type and restrictions	Remarks
				maximum must be set; maximum cannot be set at the same time as millisecond.
minimum	Minimum time interval.	N/A	Unsigned integer. Value range: 10～60000 milliseconds.	When configuring incremental and conservative, minimum must be set; minimum cannot be set at the same time as millisecond.
incremental	Time interval of penalty increment.	N/A	Unsigned integer. Value range: 10～60000 milliseconds.	When configuring conservative, incremental must be set; minimum cannot be set at the same time as millisecond.
conservative	Enable route calculation is based on the maximum time interval.	N/A	Boolean: • true—Enable route calculation is based on the maximum time interval. • false—Disable route calculation is based on the maximum time interval.	Conservative cannot be set at the same time as millisecond.
millisecond	Fixed time interval.	N/A	Unsigned integer. Value range: 0～10000 milliseconds.	Millisecond cannot be set at the same time as maximum ,minimum, incremental and conservative.
suppress-flapping	Flapping suppression for srv6-policy sid.	Data structure	Members include: • enable. • detect-interval. • threshold. • resume-interval.	N/A
enable	Enable suppression flapping	N/A	Boolean: • true. • false.	N/A
detect-interval	Detect interval of sid flapping suppression	N/A	Unsigned integer. Value range:1 to 300 seconds.	When configuring minimum, resume-interval must be greater than detect-interval.
threshold	Threshold of sid flapping suppression	N/A	Unsigned integer. Value range:1 to 1000.	N/A
resume-interval	Resume interval of sid flapping suppression	N/A	Unsigned integer. Value range:2 to 1000 seconds.	When configuring minimum, resume-interval must be greater

Column name	Column description	Column type	Data type and restrictions	Remarks
				than detect-interval.
bfd-first-fail-timer	Timer that delays reporting the first BFD session setup failure	N/A	Unsigned integer. Value range: 1 to 600 seconds.	N/A
segment-lists	Information of the segment-lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists

This table contains segment list configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Segment-list name	Index	String. Length: 0 to 128 characters.	N/A
local-binding-sid	Local Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
reverse-binding-sid	Reverse Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
segments	Information of the segments	Sublist	For details of the sublist, refer to the segments table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments

This table contains segment configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segments
Table type	Multi-instance table
Row name	segment
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Segment ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
type	Segment type	N/A	Enumeration: • 2—segment-type-2.	N/A
segment-types	Types of segments	Sublist	For details of the sublist, refer to the segment-types table.	N/A
validate	Validity of the segment	N/A	Boolean: • true—Valid. • false—Invalid.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-types

This table contains segment-type configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-types
Table type	Multi-instance table
Row name	None
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
segment-type-2	SRv6 SIDs	Subtable	For details of the subtable, refer to the segment-type-2 table.	N/A

segment-routing-ipv6/traffic-engineering/attributes/segment-lists/segments/segment-type-2

This table contains segment-type-2 configuration information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-type-2
Table type	Multi-instance table
Row name	None
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sid-value	SRv6 SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
prefix-length	Common prefix	N/A	Unsigned char.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	length of the next G-SID		Value range: 1 to 94	
flags	Segment Flags	N/A	Unsigned char. Value range: 0 to 255	N/A

segment-routing-ipv6/traffic-engineering/policies

This table contains SRv6 policy configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	policies
Table type	Multi-instance table
Row name	policy
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
name	SRv6 policy name	N/A	String. Length: 0 to 59 characters.	N/A
oper-state	SRv6 policy state	N/A	Enumeration: • 1—UP. • 2—DOWN.	N/A
forwarding-state	SRv6 policy forwarding-state	N/A	String. Length: 1 to 51 characters.	N/A
priority	Priority of the policy	N/A	Unsigned char.	N/A
up-time	Policy up time	N/A	DateTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Format: YYYY-MM-DDTHH:MM:SS.	
down-time	Policy down time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
down-reason	Policy down reason	N/A	String. Length: 1 to 51 characters.	N/A
binding-sid	Binding SID information	Data structure	Members include: • dataplane. • value. • alloc-mode • allocated-sid • oper-state	N/A
dataplane	Binding SID dataplane type	N/A	Enumeration: • 2—SRv6.	N/A
value	Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
alloc-mode	Binding SID type	N/A	Enumeration: • 1—explicitly specified BSID. • 2—dynamically allocated BSID.	N/A
allocated-sid	Allocated SID value for the binding SID	N/A	Hexadecimal string, colon-separated.	N/A
oper-state	Binding SID operational state	N/A	Enumeration: • 1—ALLOC-PENDING • 3—PROGRAMMED. • 4—CONFLICT.	N/A
counters	Forwarding statistics counters	Data structure	Members include: • pkts. • octets. • inpkts • inoctets • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
pkts	Number of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
inpkts	Number of packets forwarded	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	via the policy			
inoctets	Number of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
avg-bit-rate	Average rate of bits forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average rate of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average rate of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the policy	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
admin-state	Admin state of the policy	N/A	Enumeration: • 1—UP. • 2—DOWN.	N/A
traffic-statistics	Traffic statistics enable	N/A	Boolean: • true. • false.	N/A
traffic-service-class	Traffic statistics service-class enable	N/A	Boolean: • true. • false.	N/A
backup-hot-standby	Hot-standby backup.	N/A	Boolean: • **true**. ——Hot standy is enabled. This value equals to backup-hot-standby-type 2 • **false**. ——Hot standby is not enabled. This value equals to backup-hot-standby-type 1**.**	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies.
backup-hot-standby-type	Hot-standby backup type	N/A	Enumeration: • 0—Use policy-attributes/backup-hot-standby-type setting (default). • 1—Disable policy hot standby. This value equals to setting backup-hot-standby to false.. • 2—Enable policy hot standby. This	If both backup-hot-standby and backup-hot-standby-type exist, the backup-hot-standby-type setting applies

Column name	Column description	Column type	Data type and restrictions	Remarks
			value equals to setting backup-hot-standby to true • 3—Enable policy hot standby with multilevel-backup.	
drop-upon-invalid	Enable dropping traffic when the policy is invalid	N/A	Boolean: • true. • false.	N/A
bfd-trigger-path-down	BFD triggers the policy path to be down	N/A	Boolean: • true. • false.	N/A
sbfd	SBFD function	N/A	Boolean: • true. • false.	N/A
sbfd-remoteid	Remote discriminator of a BFD session	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
sbfd-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-backupt emplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
sbfd-oam-sid	OAM SID for SBFD	N/A	IPv6: hexadecimal string, colon-separated.	Example: 12::21.
sbfd-encap	Encapsulation mode	N/A	Enumeration: • 1—ENCAP • 2—INSERT • 3—INSERT NO ENDPOINT	N/A
sbfd-reverse-path-type	Reverse path for SBFD packets	N/A	Enumeration: • **0**—No reverse path is specified for SBFD packets. • **1**—Use the SID list associated with the reverse BSID as the reverse path for SBFD packets.	N/A
fwd-ignore-last-sid	Ignore last sid when traffic forwarded	N/A	Enumeration: • disabled. • enabled.	N/A
bfd-echo	BFD echo function	N/A	Boolean: • true. • false.	N/A
bfd-echo-sourceipv6	Source IPv6 address for BFD echo session	N/A	IPv6: hexadecimal string, colon-separated.	N/A
source-address	Source IPv6 address for srv6 policy	N/A	IPv6: hexadecimal string, colon-separated.	Example: 1::1. 0::0 is an invalid value. Now Source IPv6

Column name	Column description	Column type	Data type and restrictions	Remarks
				address only for BFD echo and sbfd packet
bfd-echo-template	Name of a BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-echo-backuptemplate	Name of a backup path BFD template	N/A	String. Length: 1 to 63 characters.	N/A
bfd-oam-sid	OAM SID for BFD	N/A	IPv6: hexadecimal string, colon-separated.	Example: 12::21.
bfd-encap	Encapsulation mode	N/A	Enumeration: • 1—ENCAP • 2—INSERT	N/A
bfd-echo-reverse-path-bsid	Enable BFD echo reverse path using Binding SID function	N/A	Boolean: • true. • false.	N/A
bfd-type	BFD type	N/A	Enumeration: • 0—Using BFD-type configuration in attributes. • 1—No bypass. • 2—Bypass.	N/A
service-class	Service class for the policy	N/A	Unsigned integer. The value range varies by device model.	The smaller the value, the lower the priority.When service class no set, the default class is 255. Service class 255 means the lowest priority class.
rate-limit	Rate limit for the policy	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
pce-delegation	Enable PCE delegation function	N/A	Boolean: • **true.** • **false.**	N/A
passive-delegate-report-only	Enable PCE passive-delegate report-only function	N/A	Boolean: • **true.** • **false.**	N/A
pce-reoptimization	Enable PCE reoptimization function	N/A	Boolean: • true. • false.	N/A
pce-reoptimization-frequency	Frequency of PCE reoptimization	N/A	Unsigned integer. Value range:1 to 604800 seconds.	You must make sure pce-reoptimization is true.
path-verification	Enable path verification	N/A	Boolean: • **true.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false.**	
path-verification-type	Path verification type	N/A	Enumeration: • 0—Using path-verification configuration in attributes (default). • 1—Disable path verification. • 2—Enable path verification. • 3—Enable specified-sid path verification.	N/A
autoroute	SRv6 Policy autoroute Information of IGP	Data structure	Members include: • protocol. • cost-absolute • cost-relative	N/A
protocol	IGP protocol	N/A	String. • all • isisv6 • ospfv3	N/A
cost-absolute	Absolute cost	N/A	Unsigned integer. Value range: 1 to 65535	Cost-absolute and cost-relative cannot both be set at the same time
cost-relative	Relative cost	N/A	Integer. Value range: -10 to 10.	Cost-absolute and cost-relative cannot both be set at the same time
autoroute-parameters	Autoroute parameters	Sublist	For more information about the sublist, refer to the autoroute-parameters table.	N/A
bypassEnable	Enable midpoint protection	N/A	Boolean: • true. • false.	N/A
up-delay	Policy segment list up delay time	N/A	Unsigned integer. Value range: 0 to 600000.	N/A
candidate-paths	Information of the candidate paths	Sublist	For details of the sublist, refer to the candidate-paths table.	N/A

segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters

This table contains SRv6 policy autoroute parameters.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	autoroute-parameters
Table type	Multi-instance table
Row name	autoroute-parameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	IGP protocol	Index	String. • isisv6.	N/A
type	Enable type	N/A	String: • host-only.	N/A
route-policy	Name of the routing policy	N/A	String. Length: 1 to 63 characters.	N/A
include-ipv4	Enable support ipv4 route autoroute	N/A	Enumeration: • true. • false.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths

This table contains candidate path configuration information for an SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	candidate-paths
Table type	Multi-instance table
Row name	candidate-path
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that signaled/instantiated the candidate path on the headend	Index	String. Length: 0 to 160 characters.	N/A
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535 in some products..	N/A
preference	Preference of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535	You must set preference equal to discriminator in some products.
name	SRv6 policy candidate-path name	N/A	String. Length: 0 to 59 characters.	N/A
is-best-candidate-path	Best candidate path	N/A	Boolean: • true • false	N/A
non-selection-reason	Reason when the candidate path was not selected	N/A	String. Length: 1 to 51 characters.	For instance: Candidate-path-not-selected-no-valid-segment-list. Candidate-path-not-selected-empty-segment-list. Candidate-path-not-selected-not-best. Candidate-path-not-selected-invalid-binding-sid.
is-valid	Validity of the segment list	N/A	Boolean: • true—Valid. • false—Invalid.	N/A
dynamic	Dynamic path	N/A	Boolean • **true.** • **false.**	N/A
pcep	Enable PCE computed SID list function	N/A	Boolean • **true.** • **false.**	You must make sure dynamic is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
router-target	Router ID of the destinaton node	N/A	IPv4: String, dotted decimal notation.	N/A
bsid	Binding-SID of the candidate path	N/A	IPv6: hexadecimal string, colon-separated.	N/A
strict-sid-only	Enable strict sid only function	N/A	Boolean: • true. • false.	You must make sure dynamic is true.
metric	Path metric	N/A	Boolean: • true. • false.	You must make sure dynamic is true.
metric-type	Path metric type	N/A	Enumeration: • 1—hop count. • 2—igp. • 3—latency. • 4—te.	You must make sure metric is true.
sid-limit	Limit number of SIDs in a SID list	N/A	Unsigned integer.	You must make sure metric is true.
constraints	Path constraints	N/A	Boolean: • true. • false.	N/A
segments	Path segments constraints	N/A	Boolean: • true. • false.	You must make sure constraints is true.
sid-algorithm	Prefix-sid algorithm.	N/A	Unsigned integer. Value range: 128 to 255	You must make sure segments is true.
affinity	Affinity constraints	N/A	Boolean: • true. • false.	You must make sure constraints is true.
include-any-enable	Enable affinity attributes, at least one of which must be included.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
include-all-enable	Enable affinity attributes that must be all included.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
exclude-any-enable	Enable the affinity attributes to exclude.	N/A	Boolean: • true. • false.	You must make sure affinity is true.
network-slice	Network slice instance information	Data structure	Members include: • slice-id.	N/A
slice-id	ID of a network slice instance	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
affinities-inclu	Information of	Sublist	For details of the sublist, refer	You must make sure

Column name	Column description	Column type	Data type and restrictions	Remarks
de-any	affinities, at least one of which must be included.		to the affinities-include-any table.	include-any-enable is true.
affinities-include-all	Information of affinities that must be all included.	Sublist	For details of the sublist, refer to the affinities-include-all table.	You must make sure include-all-enable is true.
affinities-exclude-any	Information of affinities to exclude.	Sublist	For details of the sublist, refer to the affinities-exclude-any table.	You must make sure exclude-any-enable is true.
segment-lists	Information of the segment-lists	Sublist	For details of the sublist, refer to the segment-lists table.	N/A
forwarding-paths	Information of the forwarding-paths	Sublist	For details of the sublist, refer to the forwarding-paths table.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-any

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-any
Table type	Multi-instance table
Row name	include-any
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-include-all

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-all
Table type	Multi-instance table
Row name	include-all
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/affinities-exclude-any

This table contains affinities information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-exclude-any
Table type	Multi-instance table
Row name	exclude-any

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists

This table contains segment list information of an SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	segment-lists
Table type	Multi-instance table
Row name	segment-list
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name-ref	Segment list for an SRv6 policy candidate path	index	String. Length: 0 to 128 characters.	Reference to segment list name.
list-id	Segment list ID	index	Unsigned integer. Value range: 0 to 4294967295.	N/A
sid-list	Information of sid-list	Sublist	For details of the sublist, refer to the sid-list table.	N/A
weight	Weight of the segment list for	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	weighted load sharing		Value range: 1 to 4294967295.	
path-mtu	Paht MTU of the segment list	N/A	Unsigned integer. The value range varies by device model.	N/A
local-binding-sid	Local Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
reverse-binding-sid	Reverse Binding SID value	N/A	IPv6: hexadecimal string, colon-separated.	N/A
state	State of the sid list	N/A	String. Length: 1 to 59 characters.	N/A
bfd-state	BFD state of the sid list	N/A	String. Length: 1 to 59 characters.	N/A
backup-segment-list-name	Backup segment list name	N/A	String. Length: 0 to 128 characters	N/A
backup-segment-list-id	Backup segment list ID	N/A	Unsigned integer. Value range: 0 to 4294967295	N/A
backup-segment-list-weight	Weight of the backup segment list for weighted load sharing	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
backup-segment-list-path-mtu	Paht MTU of the backup segment list	N/A	Unsigned integer. The value range varies by device model.	N/A
backup-segment-list-state	Backup segment list state	N/A	String. Length: 1 to 59 characters.	N/A
backup-segment-list-bfd-state	Backup segment list BFD state	N/A	String. Length: 1 to 59 characters	N/A
forwarding-state	SRv6 policy segment list forwarding-state	N/A	String. Length: 1 to 51 characters.	N/A
pkts	Number of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
rate	forwarding rate via the segment list	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average rate of bits forwarded	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	via the segment list			
avg-octet-rate	Average rate of bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average rate of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
service-classes	service-class forwarding Information of the segment list	Sublist	For details of the sublist, refer to the segment-list service-classes table.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists/sid-list

This table contains sid-list information of segment-list for SRv6 policy candidate path.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	sid-list
Table type	Multi-instance table
Row name	sids
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sid	SRv6 SID value	Index	IPv6: hexadecimal string, colon-separated.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/segment-lists/service-classes

This table contains service-class forwarding information of an SRv6 policy segment-list.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	service-classes
Table type	Multi-instance table
Row name	service-class
Restrictions	None.
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class-id	service class ID	index	Unsigned integer. Value range: 0 to 255.	N/A
packets	Number of service class packets forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of service class bytes forwarded via the segment list	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rate	Service class forwarding rate via the segment	Data structure	Members include: • avg-bit-rate • avg-octet-rate	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	list		• avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	
avg-octet-rate	Average forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding-paths

This table contains forwarding-paths information for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy

Item	Description
Table name	forwarding-paths
Table type	Multi-instance table
Row name	forwarding-path
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
path-id	Primary path ID	Index	Unsigned char.	N/A
next-hop-address	Nexthop address	N/A	IPv6:hexadecimal string, colon-separated.	N/A
next-hop-table-id	Table ID for the nexthop address	N/A	Unsigned integer.	N/A
interface	Outgoing interface	N/A	Unsigned integer.	N/A
sid-list	Information of sid-list	Sublist	For details of the sublist, refer to the outgoing-sids table.	N/A
is-protected	Whether has backup path	N/A	Boolean: • true • false	N/A
is-pure-backup	Whether is backup path	N/A	Boolean: • true • false	N/A
is-backup-seglist	Whether the seglist is a backup seglist	N/A	Boolean: • true • false	N/A
weight	Weight of the path for W-ECMP balancing	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
pkts	Number of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
rate	forwarding rate via the path	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
avg-bit-rate	Average rate of bits forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average rate of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average rate of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time rate of bits forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time rate of bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-packet-rate	Real-time rate of packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
if-name	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
service-classes	service-class forwarding Information of the path	Sublist	For details of the sublist, refer to the forwarding service-classes table.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding/service-classes

This table contains service-class forwarding information of forwarding path for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	server-classes
Table type	Multi-instance table
Row name	server-class

Item	Description
Restrictions	None.
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
service-class-id	Service class ID	index	Unsigned integer. Value range: 0 to 255.	N/A
pkts	Number of service class packets forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
octets	Number of service class bytes forwarded via the path	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rate	Service class forwarding rate via the path	Data structure	Members include: • avg-bit-rate • avg-octet-rate • avg-packet-rate • rt-bit-rate • rt-octet-rate • rt-packet-rate	N/A
avg-bit-rate	Average forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-octet-rate	Average forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
avg-packet-rate	Average forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-bit-rate	Real-time forwarding rate of bits associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A
rt-octet-rate	Real-time forwarding rate of bytes associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
rt-packet-rate	Real-time forwarding rate of packets associated with the service class	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1.	N/A

segment-routing-ipv6/traffic-engineering/policies/candidate-paths/forwarding-paths/sid-list

This table contains sid-list information of forwarding paths for SRv6 policy.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	sid-list
Table type	Multi-instance table
Row name	sids
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
sid	SRv6 SID value	Index	IPv6:hexadecimal string, colon-separated.	N/A

segment-routing-ipv6/traffic-engineering/policygroups

This table contains SRv6 policy group configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	policygroups
Table type	Multi-instance table
Row name	policygroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
groupid	Policy group ID	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
endpoint	IPv6 address of the policy group endpoint	N/A	IPv6:hexadecimal string, colon-separated.	N/A
group-color	Group color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
group-origin	The origin of the policy group	N/A	String. Length: 1 to 32 characters.	N/A
drop-upon-mismatch	Enable dropping traffic when the policy or best-effort mismatch	N/A	Enumeration: • disabled. • enabled.	N/A
forward-type-dot1p	802.1p priority-based forwarding type	N/A	Boolean: • true • false	N/A
forward-type	Forwarding type	N/A	Enumeration: • dscp—Forward-type-dscp. • dot1p—802.1p priority-based forwarding type. • serviceclass—Class-based Tunnel Selection forwarding type	N/A
best-effort-serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end	Example: 1,2,3,5~8. Available serviceclass values are determined by product.

Column name	Column description	Column type	Data type and restrictions	Remarks
			serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an serviceclass list for best-effort.	
best-effort-default	Use SRv6-BE as the default policy for packets	N/A	Enumeration: • disabled. • enabled.	N/A
best-effort-ipv4-default	Use SRv6-BE as the default policy for IPv4 packets	N/A	Boolean: • true • false	N/A
best-effort-ipv6-default	Use SRv6-BE as the default policy for IPv6 packets	N/A	Boolean: • true • false	N/A
autoroute	SRv6 policy autoroute information of IGP	Data structure	Members include: • protocol. • cost-absolute. • cost-relative.	N/A
protocol	IGP protocol	N/A	String. • isisv6.	N/A
cost-absolute	Absolute cost	N/A	Unsigned integer. Value range: 1 to 65535.	The absolute cost and relative cost cannot be set in pairs.
cost-relative	Relative cost	N/A	Integer. Value range: -10 to 10.	The absolute cost and relative cost cannot be set in pairs.
autoroute-parameters	Autoroute parameters	Sublist	For more information about the sublist, refer to the autoroute-parameters table.	N/A
color-dscps	Color-DSCP mapping	Sublist	For more information about the color-dscps table.	N/A
color-dot1ps	Color-802.1p priority mappings	Sublist	For more information about the sublist, refer to the color-dot1ps table.	N/A
color-serviceclasses	Color-serviceclass mappings	Sublist	For more information about the sublist, refer to the color-serviceclasses table.	N/A

segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters

This table contains SRv6 policy group autoroute parameters.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	autoroute-parameters
Table type	Multi-instance table
Row name	autoroute-parameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	IGP protocol	Index	String. • isisv6.	N/A
type	Enable type	N/A	String: • host-only.	N/A
route-policy	Name of the routing policy	N/A	String. Length: 1 to 63 characters.	N/A
include-ipv4	Enable support ipv4 route autoroute	N/A	Enumeration: • true. • false.	N/A

segment-routing-ipv6/traffic-engineering/policygroups/color-dscps

This table contains color-DSCP mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv6 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv4-default	Whether to use this SRv6 policy as the default policy for IPv4 packets	N/A	Boolean: • true • false	N/A
dscp-ipv6-default	Whether to use this SRv6 policy as the default policy for IPv6 packets	N/A	Boolean: • true • false	N/A

segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps

This table contains color-802.1p priority mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dot1ps
Table type	Multi-instance table
Row name	color-dot1p
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dot1p	Dot1p values for packets matching	N/A	String. It is a comma-separated list of Dot1p values. Each item can be an individual Dot1p value or a Dot1p value range. Use a tilde (~) to separate the start and end Dot1p values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an Dot1p list for a color value.	Example: 0,1,3,5~7. Available Dot1p values are from 0 to 7.
dot1p-default	Whether to use this SRv6 policy as the default policy for packets	N/A	Boolean: • true • false	N/A

segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses

This table contains color-serviceclass mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-serviceclasses
Table type	Multi-instance table, multi-level table
Row name	color-serviceclass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde.	Example: 1,2,3,5~8. Available serviceclass values are determined by product.
serviceclass-default	Whether to use this SRv6 policy as the default policy for packets	N/A	Enumeration: • disabled. • enabled.	N/A

segment-routing-ipv6/traffic-engineering/on-demands

This table contains SRv6 policy on-demand configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	on-demands
Table type	Multi-instance table
Row name	on-demand
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the dynamic policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dynamic	Configure dynamic features for SRv6-TE ODN	N/A	Boolean: • **true.** • **false.**	N/A
pcep	Enable PCE computed SID list function	N/A	Boolean: • **true.** • **false.**	You must make sure dynamic is true.
restrict-prefix-list	Name of a prefix-list	N/A	String. Length: 1 to 63 characters.	N/A
delete-delay	Deletion delay time interval	N/A	Unsigned integer. Value range: 0 to 600000 milliseconds.	N/A
maximum-sid-depth	Limit number of SIDs in a SID list	N/A	Unsigned integer.	N/A
sid-algorithm	Prefix-sid algorithm.	N/A	Unsigned integer. Value range: 128 to 255	You must make sure dynamic is true.
strict-sid-only	Enable strict sid only function	N/A	Boolean: • true. false.	You must make sure dynamic is true.
metric	Path metric	N/A	Boolean: • true. false.	You must make sure dynamic is true.
metric-type	Path metric type	N/A	Enumeration: • 1—hop count.	You must make sure metric is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—igp. • 3—latency. 4—te.	
include-any-enable	Enable affinity attributes, at least one of which must be included.	N/A	Boolean: • true. false.	You must make sure dynamic is true.
include-all-enable	Enable affinity attributes that must be all included.	N/A	Boolean: • true. false.	You must make sure dynamic is true.
exclude-any-enable	Enable the affinity attributes to exclude.	N/A	Boolean: • true. false.	You must make sure dynamic is true.
affinities-include-any	Information of affinities, at least one of which must be included.	Sublist	For details of the sublist, refer to the affinities-include-any table.	You must make sure include-any-enable is true.
affinities-include-all	Information of affinities that must be all included.	Sublist	For details of the sublist, refer to the affinities-include-all table.	You must make sure include-all-enable is true.
affinities-exclude-any	Information of affinities to exclude.	Sublist	For details of the sublist, refer to the affinities-exclude-any table.	You must make sure exclude-any-enable is true.

segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-any

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-any
Table type	Multi-instance table
Row name	include-any
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demands/affinities-include-all

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-include-all
Table type	Multi-instance table
Row name	include-all
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demands/affinities-exclude-any

This table contains affinity information of a SRv6 policy on-demand.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinities-exclude-any
Table type	Multi-instance table
Row name	exclude-any
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A

segment-routing-ipv6/traffic-engineering/on-demand-groups

This table contains SRv6 policy on-demand-group configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	on-demand-groups
Table type	Multi-instance table
Row name	on-demand-group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	On-demand-grou	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	p color value		Value range: 0 to 4294967295.	
description	ODN group description	N/A	String. Length: 1 to 242 characters.	N/A
drop-upon-mismatch	Enable dropping traffic when the policy or best-effort mismatch	N/A	Enumeration: • disabled. • enabled.	N/A
forward-type-dscp	Forward-type-dscp	N/A	Boolean: • **true** • **false**	N/A
forward-type	Forwarding type	N/A	Enumeration: • none—Not configured. • dscp—Forward-type-dscp. • serviceclass—Class-based Tunnel Selection forwarding type.	N/A
best-effort-serviceclass	Serviceclass values for packets matching best-effort	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an serviceclass list for best-effort.	Example: 1,2,3,5~8. Available serviceclass values are determined by product.
best-effort-default	Use SRv6-BE as the default policy for packets	N/A	Enumeration: • disabled. • enabled.	N/A
color-dscps	Color-DSCP mappings	Sublist	For more information about the sublist, refer to the color-dscps table.	N/A
color-serviceclasses	Color-serviceclass mappings	Sublist	For more information about the sublist, refer to the color-serviceclasses table.	N/A

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps

This table contains color-DSCP mappings for an SRv6 policy on-demand-group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-dscps
Table type	Multi-instance table
Row name	color-dscp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
dscp-ipv4	DSCP values for IPv4 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv4 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv6	DSCP values for IPv6 packets matching	N/A	String. It is a comma-separated list of DSCP values. Each item can be an individual DSCP value or a DSCP value range. Use a tilde (~) to separate the start and end DSCP values of a range. The string cannot include blank spaces or end with a comma or tilde. By default, an SRv6 policy group does not have an IPv6 DSCP list for a color value.	Example: 1,2,3,5~8,10~20. Available DSCP values are from 0 to 63.
dscp-ipv4-def	Whether to use	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ault	this SRv6 policy as the default policy for IPv4 packets		• **true** • **false**	
dscp-ipv6-default	Whether to use this SRv6 policy as the default policy for IPv6 packets	N/A	Boolean: • **true** • **false**	N/A

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses

This table contains color-serviceclass mappings for an SRv6 policy group.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	color-serviceclasses
Table type	Multi-instance table, multi-level table
Row name	color-serviceclass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
serviceclass	Serviceclass values for packets matching	N/A	String. It is a comma-separated list of serviceclass values. Each item can be an individual serviceclass value or a serviceclass value range. Use a tilde (~) to separate the start and end serviceclass values of a range. The string cannot include blank spaces or end with a comma or	Example: 1,2,3,5~8. Available serviceclass values are determined by product.

Column name	Column description	Column type	Data type and restrictions	Remarks
			tilde.	
serviceclass-default	Whether to use this SRv6 policy as the default policy for packets	N/A	Enumeration: • disabled. • enabled.	N/A

segment-routing-ipv6/traffic-engineering/affinity-maps

This table contains SRv6 policy affinity-map configuration information.

XML structure

Please refer to the XML Structure of segment-routing-ipv6/traffic-engineering.

Table description

Item	Description
Feature name	srv6-policy
Table name	affinity-maps
Table type	Multi-instance table
Row name	affinity-map
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Name associated with the affinity-map	Index	String. Length: 1 to 32 characters.	N/A
bit-position	Bitposion of attribute	N/A	Unsigned integer. Value range: 0 to 31.	Bit-position must be specified.

Example

Get an SRv6 policy:

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get>
    <filter type="subtree">
      <top xmlns="http://www.h3c.com/netconf/data:1.0">
        <segment-routing-ipv6>
```

```
<traffic-engineering>
  <attributes>
    <segment-lists>
      <segment-list>
        <name>abc</name>
        <segments>
          <segment>
            <index/>
          </segment>
        </segments>
      </segment-list>
    </segment-lists>
  </attributes>
  <policies>
    <policy>
      <color>1</color>
      <endpoint>1::4</endpoint>
      <autoroute>
        <protocol>isisv6</protocol>
        <cost-relative>5</cost-relative>
      </autoroute>
      <autoroute-parameters>
        <autoroute-parameter>
          <protocol>isisv6</protocol>
          <type>host-only</type>
          <route-policy>RT1</route-policy>
          <include-ipv4>true</include-ipv4>
        <autoroute-parameter>
      </autoroute-parameters>
      <candidate-paths>
        <candidate-path>
          <protocol-origin/>
          <originator/>
          <discriminator/>
          <segment-lists>
            <segment-list>
              <name-ref/>
              <list-id/>
            </segment-list>
          </segment-lists>
          <forwarding-paths>
            <forwarding-path>
              <path-id/>
              <sid-list>
```

```
                                <sids>
                                  <sid/>
                                </sids>
                              </sid-list>
                            </forwarding-path>
                          </forwarding-paths>
                        </candidate-path>
                      </candidate-paths>
                    </policy>
                  </policies>
                  <policygroups>
                    <policygroup>
                      <groupid>1</groupid >
                      <endpoint>203::1</endpoint>
                      <autoroute>
                        <protocol>isisv6</protocol>
                        <cost-absolute>5</cost-absolute>
                      </autoroute>
                      <autoroute-parameters>
                        <autoroute-parameter>
                          <protocol>isisv6</protocol>
                          <type>host-only</type>
                          <route-policy>RT1</route-policy>
                          <include-ipv4>true</include-ipv4>
                        <autoroute-parameter>
                      </autoroute-parameters>
                    <policygroup>
                  <policygroups>
                </traffic-engineering>
              </segment-routing-ipv6>
            </top>
          </filter>
        </get>
      </rpc>
```

Contents

SRv6-policy 2

segment-routing-ipv6/traffic-engineering/attributes 2
segment-routing-ipv6/traffic-engineering/policies 4
segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters 5
segment-routing-ipv6/traffic-engineering/policies/candidate-paths 6
segment-routing-ipv6/traffic-engineering/policygroups 6
segment-routing-ipv6/traffic-engineering/policygroups/color-dscps 7
segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters 7
segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps 8
segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses 8
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps 9
segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses 9
segment-routing-ipv6/traffic-engineering/on-demands 10
segment-routing-ipv6/traffic-engineering/affinity-maps 10

SRv6-policy

segment-routing-ipv6/traffic-engineering/attributes

Message	Explanation
To configure SBFD, you must configure the sbfd column. 当配置SBFD时，必须指定sbfd列。	To configure SBFD, you must configure the sbfd column. 当配置 SBFD 时，必须指定 sbfd 列。
When you create, merge or replace, if you set the sbfd column to false, other sbfd columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。	When you create, merge or replace, if you set the sbfd column to false, other sbfd columns are not allowed to be configured. create、merge、replace操作时，如果sbfd列配置为false，不允许配置其他sbfd列。
When an operation is delete or remove that carries the sbfd column, other sbfd columns (sbfd-remoteid, sbfd-template, and sbfd-backuptemplate) must be carried. 当delete、remove操作时如果携带sbfd列，则必须同时携带sbfd-remoteid，sbfd-template，sbfd-backuptemplate列。	When an operation is delete or remove that carries the sbfd column, other sbfd columns (sbfd-remoteid, sbfd-template, and sbfd-backuptemplate) must be carried. 当delete、remove操作时如果携带sbfd列，则必须同时携带sbfd-remoteid，sbfd-template，sbfd-backuptemplate列。
To configure BFD, you must configure the bfd-echo column. 当配置BFD时，必须指定bfd-echo列。	To configure BFD, you must configure the bfd-echo column. 当配置bfd时，必须携带bfd-echo列。
When you create, merge or replace, if you configure the bfd-echo column as true, you must also configure the bfd-echo-sourceipv6 column. create、merge、replace操作时，如果bfd列配置为true，必须携带bfd-echo-sourceipv6列。	When you create, merge or replace, if you configure the bfd-echo column as true, you must also configure the bfd-echo-sourceipv6 column. create、merge、replace操作时，如果bfd列配置为true，必须携带bfd-echo-sourceipv6列。
When you create, merge or replace, if you configure the bfd-echo column as false, other bfd-echo columns are not allowed to be configured. create、merge、replace操作时，如果bfd列配置为false，不允许配置其他bfd-echo列。	When you create, merge or replace, if you configure the bfd-echo column as false, other bfd-echo columns are not allowed to be configured. create、merge、replace操作时，如果bfd列配置为false，不允许配置其他bfd-echo列。
When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv6, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv6，bfd-echo-template，bfd-echo-backuptemplate列。	When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv6, bfd-echo-template, and bfd-echo-backuptemplate) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv6，bfd-echo-template，bfd-echo-backuptemplate列。
Can't modify the locator because a policy has used a BSID in the locator range. 当policy在locator范围内使用了BSID，不允许修改locator列。	Can't modify the locator because a policy has used a BSID in the locator range. 当policy在locator范围内使用了BSID，不允许修改locator列。
The value of IPv6 segment type is invalid. The value can only be 2.	The value of IPv6 segment type is invalid. The value can only be 2.

IPV6 Segments表中type的值无效，目前仅支持2。	IPV6 Segments表中type的值无效，目前仅支持2。
IPv6 Segment Routing isn't configured. 未配置segment-routing ipv6。	IPv6 Segment Routing isn't configured. 未配置segment-routing ipv6。
To configure traffic-statistics, you must configure the traffic-statistics column. 当配置traffic-statistics时，必须指定traffic-statistics列	To configure traffic-statistics, you must configure the traffic-statistics column. 当配置traffic-statistics时，必须指定traffic-statistics列
When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列	When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列
When you create, merge or replace, if you configure the traffic-statistics column as true, you must also configure the traffic-service-class column. create、merge、replace操作时，如果traffic-statistics列配置为true，必须携带traffic-service-class列	When you create, merge or replace, if you configure the traffic-statistics column as true, you must also configure the traffic-service-class column. create、merge、replace操作时，如果traffic-statistics列配置为true，必须携带traffic-service-class列
The prefix-length can't be deleted or removed. Prefix-length的值不支持delete、remove操作。	The prefix-length can't be deleted or removed. Prefix-length的值不支持delete、remove操作。
The minimum interval cannot be greater than the maximum interval. 最小时间不能大于最大时间。	The maximum time interval should not be less than the minimum time interval. 最大时间间隔不能小于最小时间间隔。
The incremental interval cannot be greater than the maximum interval. 协议惩罚时间不应当大于最大时间。	The maximum time interval should not be less than the penalty time interval. 最大时间间隔不能小于惩罚时间间隔。
The fixed calculation interval cannot be configured with the maximum interval, minimum interval, incremental interval, or conservative setting. 固定时间间隔不能和最大时间间隔、最小时间间隔、时间间隔惩罚增量、及是否按最大时间间隔进行路径计算同时配置。	The fixed time interval cannot be configured at the same time as the maximum time interval, minimum time interval, penalty time, and whether to configure according to the maximum time interval. 固定时间间隔不能和最大时间间隔、最小时间间隔、时间间隔惩罚增量、及是否按最大时间间隔进行路径计算同时配置。
The conservative setting can be deployed only when the maximum interval, minimum interval, and incremental interval settings are configured. 当最大时间间隔，最小时间间隔和惩罚时间间隔都设置时才能下发Conservative。	The conservative setting can be delivered only when the maximum time interval, minimum time interval, and incremental time interval are all set. Conservative只有在最大时间间隔，最小时间间隔和时间间隔惩罚增量都配置时才能下发。
Need to be configured in the order of maximum, minimum, incremental, conservative. 需要依照maximum，minimum，incremental，conservative顺序配置。	The attribute columns of calc-schedule-interval need to be configured in sequence. calc-schedule-interval的属性列需要依次配置。
The attribute columns of attribute group calc-schedule-interval must be deleted at the same time. 属性组calc-schedule-interval的属性列必须同时删除。	Cannot delete the attribute column of calc-schedule-interval alone. 不能单独删除calc-schedule-interval的属性列。
The resume interval must be greater than detect interval. 震荡抑制的恢复时间必须大于震荡发生的的判断时	The resume interval must be greater than detect interval. 震荡抑制的恢复时间必须大于震荡发生的的判断时间。

间。	
To configure the PCE reoptimization function, you must configure the pce-reoptimization column. 当配置重优化功能时，必须指定pce-reoptimization列。	To configure the PCE reoptimization function, you must configure the pce-reoptimization column. 当配置重优化功能时，必须指定pce-reoptimization列。
If you set the pce-reoptimization column to false, the pce-reoptimization-frequency column is not allowed to be configured. 如果pce-reoptimization 列配置为false，不允许配置pce-reoptimization-frequency列。	If you set the pce-reoptimization column to false, the pce-reoptimization-frequency column is not allowed to be configured. 如果pce-reoptimization 列配置为false，不允许配置pce-reoptimization-frequency列。

segment-routing-ipv6/traffic-engineering/policies

Message	Explanation
Invalid dataplane value. The value can only be 2. dataplane的值无效，目前仅支持2。	Invalid dataplane value. The value can only be 2. dataplane 的值无效，目前仅支持 2。
When you create, merge, replace, delete, or remove, the list-id column should be empty. 当create、merge、replace、delete、remove操作时，list-id列值为空。	When you create, merge, replace, delete, or remove, the list-id column should be empty. 当create、merge、replace、delete、remove操作时，list-id列不能指定，值填空即可
When an operation is delete or remove that carries the sbfd column, other sbfd columns (sbfd-remoteid, sbfd-template, sbfd-backuptemplate, and sbfd-oam-sid) must be carried. 当delete、remove操作时如果携带sbfd列，则必须同时携带sbfd-remoteid，sbfd-template，sbfd-backuptemplate，sbfd-oam-sid列。	When an operation is delete or remove that carries the sbfd column, other sbfd columns (sbfd-remoteid, sbfd-template, sbfd-backuptemplate, and sbfd-oam-sid) must be carried. 当delete、remove操作时如果携带sbfd列，则必须同时携带sbfd-remoteid，sbfd-template，sbfd-backuptemplate，sbfd-oam-sid列。
When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv6, bfd-echo-template, bfd-echo-backuptemplate, and bfd-oam-sid) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv6，bfd-echo-template，bfd-echo-backuptemplate，bfd-oam-sid列。	When an operation is delete or remove that carries the bfd-echo column, other bfd-echo columns (bfd-echo-sourceipv6, bfd-echo-template, bfd-echo-backuptemplate, and bfd-oam-sid) must be carried. 当delete、remove操作携带bfd-echo列时，必须携带bfd-echo-sourceipv6，bfd-echo-template，bfd-echo-backuptemplate，bfd-oam-sid列。
To configure traffic-statistics, you must configure the traffic-statistics column. 当配置traffic-statistics时，必须指定traffic-statistics列	To configure traffic-statistics, you must configure the traffic-statistics column. 当配置traffic-statistics时，必须指定traffic-statistics列
When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列	When an operation is delete or remove that carries the traffic-statistics column, traffic-service-class must be carried. 当delete、remove操作携带traffic-statistics列时，必须同时携带traffic-service-class列
When you create, merge or replace, if you configure the traffic-statistics column as true, you must also configure the traffic-service-class column. create、merge、replace操作时，如果traffic-statistics	When you create, merge or replace, if you configure the traffic-statistics column as true, you must also configure the traffic-service-class column. create、merge、replace操作时，如果traffic-statistics列配置为true，必须携带traffic-service-class列

列配置为true，必须携带traffic-service-class列	
When you create, merge or replace, if you configure the traffic-statistics column as false, traffic-service-class column is not allowed to be configured. create、merge、replace操作时，如果traffic-statistics列配置为false，不允许traffic-service-class配置列	When you create, merge or replace, if you configure the traffic-statistics column as false, traffic-service-class column is not allowed to be configured. create、merge、replace操作时，如果traffic-statistics列配置为false，不允许traffic-service-class配置列
You cannot delete the preference attribute column. Preference属性列不支持删除。	You cannot delete the preference attribute column. Preference属性列不支持删除。
The color and endpoint have already been configured for another SRv6-TE policy. 不同SRv6-TE Policy不能配置相同的color和endpoint。	The color and endpoint have already been configured for another SRv6-TE policy. 不同SRv6-TE Policy不能配置相同的color和endpoint。
The absolute cost and relative cost cannot be set in pairs. cost-absolute和cost-relative不能同时设置。	The absolute cost and relative cost cannot be set in pairs. cost-absolute和cost-relative不能同时设置。
The merge operation cannot change the type of cost. merge操作不能改变cost类型。	The merge operation cannot change the type of cost. merge操作不能改变cost类型。
When you delete or remove, the cost-absolute and the cost-relative must be set at the same time. delete和remove操作需要同时下发cost-absolute和cost-relative。	When you delete or remove, the cost-absolute and the cost-relative must be set at the same time. delete和remove操作需要同时下发cost-absolute和cost-relative。
The dynamic column is not configured. Dynamic列没有配置。	You must configure the dynamic column. Dynamic列没有配置。
The dynamic and segment-lists columns cannot both be configured. Dynamic列和segment-lists列不能同时配置。	You can configure Dynamic or segment-lists, but not both. Dynamic列和segment-lists列不能同时配置。

segment-routing-ipv6/traffic-engineering/policies/autoroute-parameters

Message	Explanation
Please specify both the index and non-index parameters for the autoroute-parameter table. 对于merge、create、replace操作，不能对表autoroute-parameter只下发索引列，应同时指定索引列和非索引列。	Please specify both the index and non-index parameters for the autoroute-parameter table. 对于 merge、create、replace 操作，不能对表autoroute-parameter 只下发索引列，应同时指定索引列和非索引列。
Please specify only the index parameter for the autoroute-parameter table. 对于delete、remove操作，只能对表autoroute-parameter下发索引列。	Please specify only the index parameter for the autoroute-parameter table. 对于delete、remove操作，只能对表autoroute-parameter下发索引列。

segment-routing-ipv6/traffic-engineering/policies/candidate-paths

Message	Explanation
The constraints column is not configured. Constraints 列没有配置	You must configure the constraints column. 必须配置 Contraints 列
The metric column is not configured. Metric 列没有配置	You must configure the metric column. 必须配置metric列
The affinity column is not configured. Affinity 列没有配置	You must configure the affinity column. 必须配置 affinity 列
The include-any-enable column is not configured. include-any-enable 列没有配置	You must configure the include-any-enable column. 必须配置 include-any-enable 列
The include-all-enable column is not configured. include-all-enable 列没有配置	You must configure the include-all-enable column. 必须配置 include-all-enable 列
The exclude-any-enable column is not configured. exclude-any-enable 列没有配置	You must configure the exclude-any-enable column. 必须配置 exclude-any-enable 列
The segments column is not configured. Segments 列没有配置	You must configure the segments column. 必须配置 segments 列

segment-routing-ipv6/traffic-engineering/policygroups

Message	Explanation
The policy-group from ODN cannot be created, modified, or deleted. 不支持创建、修改和删除通过ODN生成的SRv6-TE Policy组。	The policy-group from ODN cannot be created, modified, or deleted. 不支持创建、修改和删除通过 ODN 生成的 SRv6-TE Policy 组。
The value of serviceclass is invalid.The value must be in the range of %u to %u. serviceclass的值非法，该值有效范围是 %u ~ %u。	The value of serviceclass is invalid.The value must be in the range of %u to %u. serviceclass的值非法，该值有效范围是%u - %u。
When you set best-effort-serviceclass column, you must make forward-type is serviceclass. 对best-effort-serviceclass列set操作时，确保forward-type列是serviceclass。	When you set best-effort-serviceclass column, you must make forward-type is serviceclass. 对best-effort-serviceclass列set操作时，确保forward-type列是serviceclass。
When you set best-effort-default column, you must make forward-type is serviceclass. best-effort-default列set操作时，确保forward-type列是serviceclass。	When you set best-effort-default column, you must make forward-type is serviceclass. best-effort-default列set操作时，确保forward-type列是serviceclass。
The serviceclass already associated with color. 该serviceclass值已经被color关联	The serviceclass already associated with color. 这个best-effort值已经被color关联。

Cannot configure a conflicting serviceclass value. 无法配置冲突的serviceclass值。	Cannot configure a conflicting serviceclass value. 无法配置冲突的serviceclass值。
The forward-type column isn't configured to serviceclass. forward-type列未配置为service-class。	The forward-type column isn't configured to serviceclass. forward-type列未配置为service-class。

segment-routing-ipv6/traffic-engineering/policygroups/color-dscps

Message	Explanation
Cannot configure a conflicting DSCP value. 无法配置冲突的DSCP值。	Cannot configure a conflicting DSCP value. 无法配置冲突的 DSCP 值。
The end DSCP value must be greater than the start DSCP value. 结束DSCP值必须大于开始DSCP值。	The end DSCP value must be greater than the start DSCP value. 结束DSCP值必须大于开始DSCP值。
The DSCP value must be not empty. DSCP值不能为空	The DSCP value must be not empty. DSCP值不能为空
The SRv6 policy name already exists and cannot be modified. SRv6 Policy名字已存在不能修改。	During executing merge or replace operation, if the policy has configured name and both names are not same. 执行merge或者replace操作时，policy 已有name，并且下发的name和该name不同，则不能修改policy name。
When you create, merge or replace, if you set the forward-type-dot1p column to true or forward-type column is not dscp, other color-dot1p columns are not allowed to be configured. create、merge、replace操作时，如果forward-type-dot1p列配置为true或forward-type列不为dscp,，不允许配置其他color-dscp列。	When you create, merge or replace, if you set the forward-type-dot1p column to true or forward-type column is not dscp, other color-dot1p columns are not allowed to be configured. create、merge、replace 操作时，如果 forward-type-dot1p 列配置为 true 或 forward-type 列不为 dscp,，不允许配置其他 color-dscp 列。
The absolute cost and relative cost cannot be set in pairs. cost-absolute和cost-relative不能同时设置。	The absolute cost and relative cost cannot be set in pairs. cost-absolute和cost-relative不能同时设置。
The merge operation cannot change the cost type. merge操作不能改变cost类型。	The merge operation cannot change the cost type. merge操作不能改变cost类型。

segment-routing-ipv6/traffic-engineering/policygroups/autoroute-parameters

Message	Explanation
Please specify both the index and non-index parameters for the autoroute-parameter table. 对于merge、create、replace操作，不能对表autoroute-parameter只下发索引列，应同时指定索引列和非索引列。	Please specify both the index and non-index parameters for the autoroute-parameter table. 对于 merge、create、replace 操作，不能对表 autoroute-parameter 只下发索引列，应同时指定索引列和非索引列。
Please specify only the index parameter for the	Please specify only the index parameter for the

autoroute-parameter table. 对于delete、remove操作，只能对表autoroute-parameter下发索引列。	autoroute-parameter table. 对于delete、remove操作，只能对表autoroute-parameter下发索引列。

segment-routing-ipv6/traffic-engineering/policygroups/color-dot1ps

Message	Explanation
Cannot configure a conflicting Dot1p value. 无法配置冲突的Dot1p值。	Cannot configure a conflicting Dot1p value. 无法配置冲突的 Dot1p 值。
The end Dot1p value must be greater than the start Dot1p value. 结束Dot1p值必须大于开始Dot1p值。	The end Dot1p value must be greater than the start Dot1p value. 结束Dot1p值必须大于开始Dot1p值。
The Dot1p value must not be empty. Dot1p值不能为空	The Dot1p value must not be empty. Dot1p值不能为空
When you create, merge or replace, if you set the forward-type-dot1p column to false, other color-dot1p columns are not allowed to be configured. create、merge、replace操作时，如果forward-type-dot1p列配置为false，不允许配置其他color-dot1p列。	When you create, merge or replace, if you set the forward-type-dot1p column to false, other color-dot1p columns are not allowed to be configured. create、merge、replace操作时，如果forward-type-dot1p列配置为false，不允许配置其他color-dot1p列。
The Dot1p is already associated with another color. 该Dot1p值已经被其他color关联	The Dot1p is already associated with another color. 这个Dot1p值已经被其他color关联

segment-routing-ipv6/traffic-engineering/policygroups/color-serviceclasses

Message	Explanation
The end serviceclass value must be greater than the start serviceclass value. 结束serviceclass值必须大于开始serviceclass值。	The end serviceclass value must be greater than the start serviceclass value. 结束serviceclass值必须大于开始serviceclass值。
When you create, merge or replace, if the forward-type column is not serviceclass, other color-serviceclass columns are not allowed to be configured. create、merge、replace操作时，如果forward-type列不是serviceclass，不允许配置其他color-serviceclass列。	When you create, merge or replace, if you set the forward-type-serviceclass column to false, other color-serviceclass columns are not allowed to be configured. create、merge、replace操作时，如果forward-type-serviceclass列配置为false，不允许配置其他color-serviceclass列。
The serviceclass already associated with another color. 该serviceclass值已经被其他color关联	The serviceclass already associated with another color. 这个serviceclass值已经被其他color关联
The serviceclass already associated with best-effort. 该serviceclass值已经被best-effort关联	The serviceclass already associated with best-effort. 这个serviceclass值已经被best-effort关联

The serviceclass value must be not empty. serviceclass值不能为空	The serviceclass value must be not empty. serviceclass值不能为空
Cannot configure a conflicting serviceclass value. 无法配置冲突的serviceclass值。	Cannot configure a conflicting serviceclass value. 无法配置冲突的serviceclass值。

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-dscps

Message	Explanation
Cannot configure a conflicting DSCP value. 无法配置冲突的DSCP值。	Cannot configure a conflicting DSCP value. 无法配置冲突的 DSCP 值。
The end DSCP value must be greater than the start DSCP value. 结束DSCP值必须大于开始DSCP值。	The end DSCP value must be greater than the start DSCP value. 结束DSCP值必须大于开始DSCP值。
The DSCP value must be not empty. DSCP值不能为空	The DSCP value must be not empty. DSCP值不能为空
The forward-type-dscp column isn't configured. 未配置forward-type-dscp列	The forward-type-dscp column isn't configured. 未配置forward-type-dscp列

segment-routing-ipv6/traffic-engineering/on-demand-groups/color-serviceclasses

Message	Explanation
The end serviceclass value must be greater than the start serviceclass value. 结束serviceclass值必须大于开始serviceclass值。	The end serviceclass value must be greater than the start serviceclass value. 结束serviceclass值必须大于开始serviceclass值。
When you create, merge or replace, if the forward-type column is not serviceclass, other color-serviceclass columns are not allowed to be configured. create、merge、replace操作时，如果forward-type列不是serviceclass，不允许配置其他color-serviceclass列。	When you create, merge or replace, if the forward-type column is not serviceclass, other color-serviceclass columns are not allowed to be configured. create、merge、replace操作时，如果forward-type列不是serviceclass，不允许配置其他color-serviceclass列。
The serviceclass already associated with another color. 该serviceclass值已经被其他color关联	The serviceclass already associated with another color. 这个serviceclass值已经被其他color关联
The serviceclass already associated with best-effort. 该serviceclass值已经被best-effort关联	The serviceclass already associated with best-effort. 这个serviceclass值已经被best-effort关联
The serviceclass value must be not empty. serviceclass值不能为空	The serviceclass value must be not empty. serviceclass值不能为空
Cannot configure a conflicting serviceclass value.	Cannot configure a conflicting serviceclass value.

无法配置冲突的serviceclass值。	无法配置冲突的serviceclass值。

segment-routing-ipv6/traffic-engineering/on-demands

Message	Explanation
The metric column is not configured. Metric 列没有配置	You must configure the metric column. 必须配置 metric 列
The include-any-enable column is not configured. include-any-enable 列没有配置	You must configure the include-any-enable column. 必须配置 include-any-enable 列
The include-all-enable column is not configured. include-all-enable 列没有配置	You must configure the include-all-enable column. 必须配置 include-all-enable 列
The exclude-any-enable column is not configured. exclude-any-enable 列没有配置	You must configure the exclude-any-enable column. 必须配置 exclude-any-enable 列

segment-routing-ipv6/traffic-engineering/affinity-maps

Message	Explanation
Different affinity attribute names cannot be mapped to the same bit position. 不同的亲和属性名不能映射到相同的亲和属性比特位。	Different affinity attribute names cannot be mapped to the same bit position. 不同的亲和属性名不能映射到相同的亲和属性比特位。

Contents

SRV6POLICY event stream 1
srv6-policy-status-event 1
XML structure for event subscription 1
XML structure for event report 1

SRV6POLICY event stream

srv6-policy-status-event

This table is used to notify an SRv6 policy status event.

XML structure for event subscription

```
<srv6-policy-status-event>
</srv6-policy-status-event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>srv6policy</stream>
    <filter type="subtree">
      <srv6-policy-status-event
xmlns="http://www.h3c.com/netconf/event:1.0/srv6policy:1.0">
      </srv6-policy-status-event>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SRV6POLICY stream
Event name	srv6-policy-status-event
Event namespace	http://www.h3c.com/netconf/event:1.0/srv6policy:1.0
Support for extended query	No

XML structure for event report

```
<srv6-policy-status-event>
  <policy>
    <color></color>
    <endpoint></endpoint>
    <name></name>
    <event></event>
    <oper-state></oper-state>
    <down-reason></down-reason>
    <candidate-paths>
      <candidate-path>
        <protocol-origin></protocol-origin>
        <originator></originator>
```

```
      <discriminator></discriminator>
      <preference></preference>
      <name></name>
      <is-best-candidate-path></is-best-candidate-path>
      <non-selection-reason></non-selection-reason>
      <is-valid></is-valid>
      <segment-lists>
        <segment-list>
          <list-id></list-id>
          <name-ref></name-ref>
          <state></state>
          <bfd-state></bfd-state>
          <sid-list>
            <sid>
              <index></index>
              <sid-value></sid-value>
            </sid>
          </sid-list>
        </segment-list>
      </segment-lists>
    </candidate-path>
  </candidate-paths>
</policy>
</srv6-policy-status-event>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-05-21T09:10:51</eventTime>
  <srv6-policy-status-event
xmlns="http://www.h3c.com/netconf/event:1.0/srv6policy:1.0">
    <policy>
      <color>12</color>
      <endpoint>30::1</endpoint>
      <name>p1</name>
      <event>2</event>
      <oper-state>2</oper-state>
      <down-reason>Admin down</down-reason>
      <candidate-paths>
        <candidate-path>
          <protocol-origin>30</protocol-origin>
          <originator>2</originator>
          <discriminator>1</discriminator>
          <preference>1</preference>
          <name>abc</name>
          <is-best-candidate-path>false</is-best-candidate-path>
```

```
<non-selection-reason>candidate-path-not-selected-no-valid-segment-list</non-selectio
n-reason>
        <is-valid>2</is-valid>
        <segment-lists>
          <segment-list>
            <list-id>1</list-id>
            <name-ref>aaa</name-ref>
            <state>Up</state>
            <bfd-state>Up</bfd-state>
            <sid-list>
              <sid>
                <index>1</index>
                <sid-value>91::211</sid-value>
              </sid>
              <sid>
                <index>2</index>
                <sid-value>91::31</sid-value>
              </sid>
              <sid>
                <index>3</index>
                <sid-value>91::75</sid-value>
              </sid>
            </sid-list>
          </segment-list>
        </segment-lists>
      </candidate-path>
    </candidate-paths>
  </policy>
 </srv6-policy-status-event>
</notification>
```


Table description

Column name	Column description	Column type	Data type and restrictions	Remarks
color	Color associated with the policy	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
endpoint	IP address of the policy endpoint	Index	IPv6: hexadecimal string, colon-separated.	N/A
name	SRv6 policy name	N/A	String. Length: 0 to 59 characters.	N/A
event	SRv6 policy event	N/A	Enumeration: • 1—Add. • 2—Update. • 3—Delete.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
oper-state	SRv6 policy state	N/A	Enumeration: • 1—UP. • 2—DOWN.	N/A
down-reason	SRv6 policy down reason	N/A	String. Length: 1 to 51 characters.	For instance: No-candidate-path. No-valid-candidate-path. Candidate-path-invalid-segment-list.
candidate-paths	Information of the candidate paths	Sublist	Members include: • protocol-origin • originator • discriminator • preference • name • is-best-candidate-path • non-selection-reason • is-valid • segment-lists	N/A
protocol-origin	Protocol origin of the candidate path	Index	Enumeration: • 10—PCEP • 20—BGP • 30—CLI	N/A
originator	Identifier (concatenation of ASN and node-address) of the node that signaled/instantiated the candidate path on the headend	Index	String. Length: 0 to 160 characters.	N/A
discriminator	Discriminator of the candidate path	Index	Unsigned integer. Value range: 1 to 65535.	N/A
preference	Preference of the candidate path	N/A	Unsigned integer. Value range: 1 to 65535	N/A
name	SRv6 policy candidate-path name	N/A	String. Length: 0 to 59 characters.	N/A
is-best-candidate-path	Best candidate path	N/A	Boolean: • true • false	N/A
non-selection-reason	Reason why the candidate path was not selected	N/A	String. Length: 1 to 51 characters.	N/A
is-valid	Validity of the segment list	N/A	Boolean: • true—Valid. • false—Invalid.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
segment-lists	Information of the segment-lists	Sublist	Members include: • list-id • name-ref • state • bfd-state • sid-list	N/A
list-id	Segment list ID	Index	Unsigned integer.	N/A
name-ref	Segment list for an SRv6 policy candidate path	Index	String. Length: 0 to 128 characters.	Reference to segment list name.
state	Segment list state	N/A	String. • Up • Down	N/A
bfd-state	Segment list BFD state	N/A	String. • No sbfd. • PathInactive. • Unkown. • Down • Up	N/A
sid-list	Information of the SID list	Sublist	Members include: • index • value	N/A
index	Index of SRv6 SID	Index	Unsigned integer.	N/A
sid-value	SRv6 SID value	N/A	Hexadecimal string, colon-separated.	N/A

Contents

SRv6Ping 1
SRv6Ping/SRv6PingStop 1
XML structure 1
Table description 1
Columns 1

SRv6Ping

SRv6Ping/SRv6PingStop

This table is used to stop an SRv6 ping operation.

XML structure

```
<SRv6Ping>
  <SRv6PingStop>
    <PingStop>
      <PingSerial></PingSerial>
    </PingStop>
  </SRv6PingStop>
</SRv6Ping>
```

Table description

Item	Description
Feature name	SRv6Ping
Table name	SRv6PingStop
Table type	Multi-instance table
Row name	PingStop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PingSerial	Used to stop an SRv6 ping operation when the serial number of the SRv6 ping operation becomes to the specified serial number	Index	Unsigned integer. Value range: 1 to 4294967295.

Contents

SRv6Ping 1
SRv6Ping/SRv6PingStop 1
SRv6Ping/SRv6PingEvent 1

SRv6Ping

SRv6Ping/SRv6PingStop

Message	Explanation
The specified object doesn't exist. 指定的对象不存在。	The specified object does not exist.

SRv6Ping/SRv6PingEvent

Message	Explanation
Unknown host. 未知主机.	The specified host must exist.
The specified object already exists. 指定的对象已存在。	The specified object already exists.
An outgoing interface is required for the ping of a multicast address. 主机地址类型是组播地址时，需要指定出接口。	An outgoing interface is required for the ping of a multicast address.
An outgoing interface is required for the ping of a link local address. 主机地址类型是链路本地地址时，需要指定出接口。	An outgoing interface is required for the ping of a link local address.
The source IPv6 address is invalid. 非法的IPv6地址。	The source IPv6 address is invalid.
The source IPv6 address does not exist. 源地址不存在。	The source IPv6 address does not exist.
SliceID is not supported. 不支持指定切片ID。	SliceID is not supported.
Please specify the SliceID first. 请先指定切片ID。	Please specify the SliceID first.

Contents

SRv6Ping event stream 1
SRv6Ping event 1
XML structure for event subscription 1
XML structure for event report 4

SRv6Ping event stream

SRv6 ping event stream description.

SRv6Ping event

This table is used to report ping information for an SRv6 ping operation.

XML structure for event subscription

```
<SRv6PingEvent>
  <SRv6PingInfo>
    <PingSerial></PingSerial>
    <Destination>
      <Policy>
        <PolicyName></PolicyName>
        <Endpoint></Endpoint>
        <Color></Color>
        <DestinationAddr></DestinationAddr>
      </Policy>
      <SegmentList>
        <Segment>
          <SegmentID></SegmentID>
          <Behavior></Behavior>
          <SIDStruct>
            <LBLength></LBLength>
            <LNLength></LNLength>
            <FunLength></FunLength>
            <ArgLength></ArgLength>
          </SIDStruct>
          <COC></COC>
          <CommonPrefixLength></CommonPrefixLength>
        </Segment>
      </SegmentList>
    </Destination>
    <SourceIpAddress></SourceIpAddress>
    <PacketSize></PacketSize>
    <SendPacketsNum></SendPacketsNum>
    <SendInterval></SendInterval>
    <Timeout></Timeout>
    <TrafficClass></TrafficClass>
    <HopLimit></HopLimit>
    <SliceID></SliceID>
    <MatchSlice></MatchSlice>
  </SRv6PingInfo>
</SRv6PingEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SRV6PING</stream>
    <filter type="subtree">
      <SRv6PingEvent xmlns="http://www.h3c.com/netconf/event:1.0/srv6ping:1.0">
        <SRv6PingInfo>
          <PingSerial>1</PingSerial>
          <Destination>
            <Policy>
              <Endpoint>1020::1:0:3</Endpoint>
              <Color>1000</Color>
            </Policy>
          </Destination>
          <SourceIpAddress>1000::1:0:1</SourceIpAddress>
          <SendInterval>2000</SendInterval>
          <SendPacketsNum>10</SendPacketsNum>
          <PacketSize>56</PacketSize>
          <Timeout>2500</Timeout>
          <TrafficClass>0</TrafficClass>
          <HopLimit>255</HopLimit>
        </SRv6PingInfo>
      </SRv6PingEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SRV6PING
Event name	SRv6PingEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/srv6ping:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query
PingSerial	Serial number of the ping operation	Unsigned integer. Value range: 1 to 4294967295.	No
Destination	Options for getting segment info from a policy or by input	N/A	No
Policy	SRv6-TE policy	N/A	No
PolicyName	SRv6-TE policy	String.	No

Column name	Column description	Data type and restrictions	Support for extended query
	name	Length: 1 to 59 characters.	
Endpoint	Endpoint address of the policy	IPv6: hexadecimal string, colon-separated.	No
Color	Color of the policy	Unsigned integer. Value range: 0 to 4294967295.	No
DestinationAddr	Destination IPv6 address	IPv6: hexadecimal string, colon-separated.	No
SegmentList	SID or SID list	N/A	No
Segment	SID information	N/A	No
SegmentID	SID	String. Length: 3 to 45 characters.	No
Behavior	SID behavior	Unsigned integer. Value range: 1 to 32767.	No
SIDStruct	SID structure	N/A	No
LBLength	Locator length	Unsigned integer. Value range: 0 to 4294967295.	No
LNLength	Node length	Unsigned integer. Value range: 0 to 4294967295.	No
FunLength	Function length	Unsigned integer. Value range: 0 to 4294967295.	No
ArgLength	Parameter length	Unsigned integer. Value range: 0 to 4294967295.	No
COC	Add COC logo	Enumeration: • **16**—COC16. • **32**—COC32.	Only 32 is supported now.
CommonPrefixLength	Common prefix length of the next G-SID	Unsigned integer. Value range: 1 to 94.	No
SourceIpAddress	Source IPv6 address of echo requests	IPv6: hexadecimal string, colon-separated.	No
SendInterval	Time interval for sending echo requests	Unsigned integer. Value range: 1 to 10000 milliseconds. Default is 1000 milliseconds.	No
SendPacketsNum	Number of sent echo requests	Unsigned integer. Value range: 1 to 1024. Default is 5.	No
PacketSize	Payload length	Unsigned integer. Value range: 20 to 9600 bytes. Default is 56.	No
TrafficClass	Traffic class	Unsigned integer.	No

Column name	Column description	Data type and restrictions	Support for extended query
	value in an echo request	Value range: 0 to 255. Default is 0.	
Timeout	Waiting time for each reply	Unsigned integer. Value range: 0 to 65535 milliseconds. Default is 2000 milliseconds.	No
HopLimit	Hop limit value in an echo request	Unsigned integer. Value range: 1 to 255. Default is 1.	No
SliceID	Network slice instance ID	Unsigned integer. Value range: 0 to 4294967295.	When Destination is specified as Policy, the SliceID column is not supported.
MatchSlice	Force matching network slices	Unsigned integer: • **1**—Indicates that the network slice discard flag bit is 1. • **0**—Indicates that the network slice discard flag bit is 0.	Default: 0.

XML structure for event report

```
<SRv6PingEvent>
  <SRv6PingInfo>
    <PingSerial></PingSerial>
    <ResultList>
      <PingResult>
        <CPath>
          <ProtocolOrigin></ProtocolOrigin>
          <Originator>
            <ASN></ASN>
            <NodeAddress></NodeAddress>
          </Originator>
          <Discriminator></Discriminator>
          <Preference></Preference>
          <Active></Active>
        </CPath>
        <RSegmentList>
          <RSegment>
            <SegmentID></SegmentID>
          </RSegment>
        </RSegmentList>
        <PacketSize></PacketSize>
        <TotalTransmitPacket></TotalTransmitPacket>
        <TotalReceivePacket></TotalReceivePacket>
```

```
      <SendFailPacket></SendFailPacket>
      <TimeoutPacket></TimeoutPacket>
      <TotalLossPacket></TotalLossPacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
    </PingResult>
  </ResultList>
</SRv6PingInfo>
</SRv6PingEvent>
```


Example:


```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-06-28T18:56:25</eventTime>
  <SRv6PingEvent xmlns="srv6ping:1.0">
    <SRv6PingInfo>
      <PingSerial>3</PingSerial>
      <ResultList>
        <PingResult>
          <CPath>
            <ProtocolOrigin>30</ProtocolOrigin>
            <Originator>
              <ASN>0</ASN>
              <NodeAddress>0.0.0.0</NodeAddress>
            </Originator>
            <Discriminator>10</Discriminator>
            <Preference>10</Preference>
            <Active>true</Active>
          </CPath>
          <RSegmentList>
            <RSegment>
              <SegmentID>8000:8000:A1:11:2::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:15:1::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:13:1::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:3:2::</SegmentID>
            </RSegment>
          </RSegmentList>
          <PacketSize>56</PacketSize>
          <TotalTransmitPacket>5</TotalTransmitPacket>
          <TotalReceivePacket>5</TotalReceivePacket>
          <SendFailPacket>0</SendFailPacket>
          <TimeoutPacket>0</TimeoutPacket>
```

```
        <TotalLossPacket>0</TotalLossPacket>
        <LossRate>0</LossRate>
        <MinReplyTime>1</MinReplyTime>
        <MaxReplyTime>2</MaxReplyTime>
        <AvgReplyTime>1</AvgReplyTime>
      </PingResult>
      <PingResult>
        <CPath>
          <ProtocolOrigin>30</ProtocolOrigin>
          <Originator>
            <ASN>0</ASN>
            <NodeAddress>0.0.0.0</NodeAddress>
          </Originator>
          <Discriminator>10</Discriminator>
          <Preference>10</Preference>
          <Active>true</Active>
        </CPath>
        <RSegmentList/>
        <PacketSize>56</PacketSize>
        <TotalTransmitPacket>5</TotalTransmitPacket>
        <TotalReceivePacket>0</TotalReceivePacket>
        <SendFailPacket>0</SendFailPacket>
        <TimeoutPacket>5</TimeoutPacket>
        <TotalLossPacket>0</TotalLossPacket>
        <LossRate>100</LossRate>
        <MinReplyTime>1</MinReplyTime>
        <MaxReplyTime>2</MaxReplyTime>
        <AvgReplyTime>1</AvgReplyTime>
      </PingResult>
    </ResultList>
  </SRv6PingInfo>
 </SRv6PingEvent>
</notification>
```


Table description

Column name	Column description	Data type and restrictions	Remarks
PingSerial	Serial number of the ping operation	Unsigned integer. Value range: 1 to 4294967295.	N/A
ResultList	Result list of the ping operation	N/A	N/A
PingResult	Result of a ping request	N/A	N/A
CPath	Candidate path structure	N/A	N/A
ProtocolOrigin	Protocol origin	Unsigned integer. Value range: 0 to 4294967295.	N/A
Originator	Originator structure	N/A	N/A

Column name	Column description	Data type and restrictions	Remarks
ASN	ASN number	Unsigned integer. Value range: 0 to 4294967295.	N/A
NodeAddress	BGP node address	IPv6: Hexadecimal string, colon-separated.	N/A
Discriminator	Remote identifier	Unsigned integer. Value range: 0 to 4294967295.	N/A
Preference	Preference value	Unsigned integer. Value range: 1 to 65535.	N/A
Active	Candidate path state	Boolean: • **true**—Active. • **false**—Inactive.	N/A
RSegmentList	Segment ID list	N/A	N/A
RSegment	SID structure	N/A	N/A
SegmentID	SID	IPv6: Hexadecimal string, colon-separated.	N/A
PacketSize	Payload length	Unsigned integer. Value range: 20 to 9600 bytes.	N/A
TotalTransmitPacket	Number of sent ICMP echo requests	Unsigned integer. Value range: 0 to 4294967295.	N/A
TotalReceivePacket	Number of received ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	N/A
SendFailPacket	Number of ICMP echo requests that failed to be sent	Unsigned integer. Value range: 0 to 4294967295.	N/A
TimeoutPacket	Number of timeout ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	N/A
TotalLossPacket	Number of ICMP echo requests that do not have ICMP echo replies	Unsigned integer. Value range: 0 to 4294967295.	N/A
LossRate	Percentage of unacknowledged packets to the total sent packets	Unsigned integer. Value range: 0 to 100.	N/A
MinReplyTime	Minimum response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	N/A
MaxReplyTime	Maximum response time	Unsigned integer. Value range: 0 to 4294967295	N/A

Column name	Column description	Data type and restrictions	Remarks
		microseconds.	
AvgReplyTime	Average response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	N/A

Contents

SRv6Tracert 1
SRv6Tracert/SRv6TracertStop 1
XML structure 1
Table description 1
Columns 1

SRv6Tracert

SRv6Tracert/SRv6TracertStop

This table is used to stop an SRv6 tracert operation. SRv6 tracert traces the path that SRv6 packets traverse from source to destination.

XML structure

```
<SRv6Tracert>
  <SRv6TracertStop>
    <TracertStop>
      <TracertSerial></TracertSerial>
    <TracertStop>
  </SRv6TracertStop>
</SRv6Tracert>
```

Table description

Item	Description
Feature name	SRv6Tracert
Table name	Srv6TracertStop
Table type	Multi-instance table
Row name	TracertStop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TracertSerial	Used to stop an SRv6 tracert operation when the serial number of the SRv6 tracert operation becomes to the specified serial number	N/A	Unsigned integer. Value range: 1 to 4294967295.

Contents

SRv6Tracert 1
SRv6Tracert/SRv6TracertStop 1
SRv6Tracert/SRv6TracertEvent 1

SRv6Tracert

SRv6Tracert/SRv6TracertStop

Message	Explanation
The specified object doesn't exist. 指定的对象不存在。	The specified object deing deleted is not exist.

SRv6Tracert/SRv6TracertEvent

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The destination address can't be an IPv6 multicast address. 不支持IPv6组播地址。	The specified destination address cannot be an ipv6 multicast address.
The destination address can't be an IPv6 link local address. 不支持IPv6链路本地地址。	The specified destination address cannot be an ipv6 link local address.
The destination IPv6 address can't be all 0s. IPv6目的地址不能为全零。	The specified destination address cannot be all 0s.
First hop limit can’t be greater than the max hop limit. 报文的最大跳数必须大于或等于第一个报文的最大条数。	First hop limit can’t be greater than the max hop limit.
The specified object already exists. 指定的对象已存在。	The specified object already exists.
The source IPv6 address is invalid. 非法的IPv6地址。	The source IPv6 address is invalid.
The source IPv6 address does not exist. 源地址不存在。	The source IPv6 address does not exist.
SliceID is not supported. 不支持指定切片ID。	SliceID is not supported.
Please specify the SliceID first. 请先指定切片ID。	Please specify the SliceID first.

Contents

SRv6Tracert event stream 1
SRv6Tracert event 1
XML structure for event subscription 1
XML structure for event report 4

SRv6Tracert event stream

SRv6 tracert event stream description.

SRv6Tracert event

This table is used to report tracert information for an SRv6 tracert operation.

XML structure for event subscription

```
<SRv6TracertEvent>
  <SRv6TracertInfo>
    <TracertSerial></TracertSerial>
    <Destination>
      <Policy>
        <PolicyName></PolicyName>
        <Endpoint></Endpoint>
        <Color></Color>
        <DestinationAddr></DestinationAddr>
      </Policy>
      <SegmentList>
        <Segment>
          <SegmentID></SegmentID>
          <Behavior></Behavior>
          <SIDStruct>
            <LBLength></LBLength>
            <LNLength></LNLength>
            <FunLength></FunLength>
            <ArgLength></ArgLength>
          </SIDStruct>
          <COC></COC>
          <CommonPrefixLength></CommonPrefixLength>
        </Segment>
      </SegmentList>
    </Destination>
    <SourceIpAddress></SourceIpAddress>
    <FirstHop></FirstHop>
    <MaxHops></MaxHops>
    <Udpport></Udpport>
    <SendPacketsNum></SendPacketsNum>
    <PacketSize></PacketSize>
    <Timeout></Timeout>
    <TrafficClass></TrafficClass>
    <SliceID></SliceID>
    <MatchSlice></MatchSlice>
  </SRv6TracertInfo>
</SRv6TracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>SRV6TRACERT</stream>
    <filter type="subtree">
      <SRv6TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/srv6tracert:1.0">
        <SRv6TracertInfo>
          <TracertSerial>1</TracertSerial>
          <Destination>
            <Policy>
              <Endpoint>2409:8000::3</Endpoint>
              <Color>10</Color>
            </Policy>
          </Destination>
          <SourceIpAddress>2409:8000::1</SourceIpAddress>
          <FirstHop>1</FirstHop>
          <MaxHops>5</MaxHops>
          <Udpport>33434</Udpport>
          <SendPacketsNum>10</SendPacketsNum>
          <PacketSize>64</PacketSize>
          <Timeout>1000</Timeout>
          <TrafficClass>10</TrafficClass>
        </SRv6TracertInfo>
      </SRv6TracertEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	SRV6TRACERT
Event name	SRv6TracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/srv6tracert:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query
TracertSerial	Serial number of the tracert operation	Unsigned integer. Value range: 1 to 4294967295.	No
Destination	Options for getting segment info from a policy or by input	N/A	No
Policy	SRv6-TE policy	N/A	No
PolicyName	SRv6-TE policy	String.	No

Column name	Column description	Data type and restrictions	Support for extended query
	name	Length: 1 to 59 characters.	
Endpoint	Endpoint address of the policy	IPv6: hexadecimal string, colon-separated.	No
Color	Color of the policy	Unsigned integer. Value range: 0 to 4294967295.	No
DestinationAddr	Destination IPv6 address	IPv6: hexadecimal string, colon-separated.	No
SegmentList	SID or SID list	N/A	No
Segment	SID information	N/A	No
SegmentID	SID	String. Length: 3 to 45 characters.	No
Behavior	SID behavior	Unsigned integer. Value range: 1 to 32767.	No
SIDStruct	SID structure	N/A	No
LBLength	Locator length	Unsigned integer. Value range: 0 to 4294967295.	No
LNLength	Node length	Unsigned integer. Value range: 0 to 4294967295.	No
FunLength	Function length	Unsigned integer. Value range: 0 to 4294967295.	No
ArgLength	Parameter length	Unsigned integer. Value range: 0 to 4294967295.	No
COC	Add COC logo	Enumeration: • 16—COC16. • 32—COC32.	Only 32 is supported now.
CommonPrefixLength	Common prefix length of the next G-SID	Unsigned integer. Value range: 1 to 94.	No
SourceIpAddress	Source IPv6 address of echo requests	IPv6: hexadecimal string, colon-separated.	No
MaxHops	Maximum hop limit for a probe packet	Unsigned integer. Value range: 1 to 255. Default is 30.	No
FirstHop	TTL value of the first probe packet	Unsigned integer. Value range: 1 to 255. Default is 1.	No
Udpport	UDP port number of the destination	Unsigned integer. Value range: 1 to 65535. Default is 33434.	No
SendPacketsNum	Number of probe packets sent each time	Unsigned integer. Value range: 1 to 65535.	No

Column name	Column description	Data type and restrictions	Support for extended query
		Default is 3.	
PacketSize	Payload length	Unsigned integer. Value range: 20 to 9600 bytes. Default is 56.	No
Timeout	Waiting time for each reply	Unsigned integer. Value range: 1 to 65535 milliseconds. Default is 5000 milliseconds.	No
TrafficClass	Traffic class value in an probe request	Unsigned integer. Value range: 0 to 255. Default is 0.	No
SliceID	Network slice instance ID	Unsigned integer. Value range: 0 to 4294967295.	When Destination is specified as Policy, the SliceID column is not supported.
MatchSlice	Force matching network slices	Unsigned integer: • **1**—Indicates that the network slice discard flag bit is 1. • **0**—Indicates that the network slice discard flag bit is 0.	Default: 0.

XML structure for event report

```
<SRv6TracertEvent>
  <SRv6TracertInfo>
    <TracertSerial></TracertSerial>
    <ResultList>
      <TracertResult>
        <CPath>
          <ProtocolOrigin></ProtocolOrigin>
          <Originator>
            <ASN></ASN>
            <NodeAddress></NodeAddress>
          </Originator>
          <Discriminator></Discriminator>
          <Preference></Preference>
          <Active></Active>
        </CPath>
        <RSegmentList>
          <RSegment>
            <SegmentID></SegmentID>
          <RSegment>
        </RSegmentList>
        <PacketSize></PacketSize>
```

```
      <Maxhops></Maxhops>
      <ProbeResult></ProbeResult>
      <HopList>
        <HopInfo>
          <HopIndex></HopIndex>
          <ProbeList>
            <ProbeIndex></ProbeIndex>
            <HopAddress></HopAddress>
            <ProbeTime></ProbeTime>
          </ProbeList>
        </HopInfo>
      </HopList>
    </TracertResult>
  </ResultList>
</SRv6TracertInfo>
</SRv6TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2021-06-28T18:17:22</eventTime>
  <SRv6TracertEvent xmlns="srv6tracert:1.0">
    <SRv6TracertInfo>
      <TracertSerial>1</TracertSerial>
      <ResultList>
        <TracertResult>
          <CPath>
            <ProtocolOrigin>30</ProtocolOrigin>
            <Originator>
              <ASN>0</ASN>
              <NodeAddress>0.0.0.0</NodeAddress>
            </Originator>
            <Discriminator>10</Discriminator>
            <Preference>10</Preference>
            <Active>true</Active>
          </CPath>
          <RSegmentList>
            <RSegment>
              <SegmentID>8000:8000:A1:11:2::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:15:1::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:13:1::</SegmentID>
            </RSegment>
            <RSegment>
              <SegmentID>8000:8000:A1:3:2::</SegmentID>
            </RSegment>
          </RSegmentList>
```

```
      <PacketSize>104</PacketSize>
      <Maxhops>2</Maxhops>
      <ProbeResult>true</ProbeResult>
      <HopList>
        <HopInfo>
          <HopIndex>1</HopIndex>
          <ProbeList>
            <Probe>
              <ProbeIndex>0</ProbeIndex>
              <HopAddress>2409:8000::1:12:2</HopAddress>
              <ProbeTime>1</ProbeTime>
            </Probe>
            <Probe>
              <ProbeIndex>1</ProbeIndex>
              <HopAddress>2409:8000::1:12:2</HopAddress>
              <ProbeTime>2</ProbeTime>
            </Probe>
            <Probe>
              <ProbeIndex>2</ProbeIndex>
              <HopAddress>2409:8000::1:12:2</HopAddress>
              <ProbeTime>2</ProbeTime>
            </Probe>
          </ProbeList>
        </HopInfo>
        <HopInfo>
          <HopIndex>2</HopIndex>
          <ProbeList>
            <Probe>
              <ProbeIndex>0</ProbeIndex>
              <HopAddress>2409:8000::2:11:1</HopAddress>
              <ProbeTime>4</ProbeTime>
            </Probe>
            <Probe>
              <ProbeIndex>1</ProbeIndex>
              <HopAddress>2409:8000::2:11:1</HopAddress>
              <ProbeTime>2</ProbeTime>
            </Probe>
            <Probe>
              <ProbeIndex>2</ProbeIndex>
              <HopAddress>2409:8000::2:11:1</HopAddress>
              <ProbeTime>3</ProbeTime>
            </Probe>
          </ProbeList>
        </HopInfo>
      </HopList>
    </TracertResult>
  </ResultList>
</SRv6TracertInfo>
```

```
  </SRv6TracertEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
TracertSerial	Serial number of the tracert operation	Unsigned integer. Value range: 0 to 4294967295.	N/A
ResultList	Result list of the tracert operation	N/A	N/A
TracertResult	Result of a tracert request	N/A	N/A
CPath	Candidate path structure	N/A	N/A
ProtocolOrigin	Protocol origin	Unsigned integer. Value range: 0 to 4294967295.	N/A
Originator	Originator structure	N/A	N/A
ASN	ASN number	Unsigned integer. Value range: 0 to 4294967295.	N/A
NodeAddress	BGP node address	IPv6: Hexadecimal string, colon-separated.	N/A
Discriminator	Remote identifier	Unsigned integer. Value range: 0 to 4294967295.	N/A
Preference	Preference value	Unsigned integer. Value range: 1 to 65535.	N/A
Active	Candidate path state	Boolean: • **true**—Active. • **false**—Inactive.	N/A
RSegmentList	Segment ID list	N/A	N/A
RSegment	SID structure.	N/A	N/A
SegmentID	SID	IPv6: Hexadecimal string, colon-separated.	N/A
PacketSize	PayloadLength include IPv6 Header，UDP Header and Payload	Unsigned integer. Value range: 20 to 9600 bytes.	N/A
Maxhops	Maximum hop limit	Unsigned integer. Value range: 1 to 255.	N/A
ProbeResult	Probe result information	Boolean: • true • false	N/A
HopList	Probe information of multiple probe packets	N/A	N/A
HopInfo	Probe information of a probe packet	N/A	N/A
HopIndex	Index of a hop	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
		Value range: 1 to 4294967295.	
ProbeList	Information about multiple probe packets for the hop	N/A	N/A
ProbeIndex	Index of a probe request	Unsigned integer. Value range: 1 to 4294967295.	N/A
HopAddress	SID of the reply to the probe request	IPv6: Hexadecimal string, colon-separated.	N/A
ProbeTime	Probe duration	Unsigned integer. Value range: 0 to 4294967295 microseconds.	N/A

Contents

SSH 1
SSH/Server 1
XML structure 1
Table description 1
Columns 2

SSH

SSH/Server

This table contains information about global SSH server functions.

XML structure

```
<SSH>
  <Server>
    <STelnetState></STelnetState>
    <SFTPState></SFTPState>
    <SCPState></SCPState>
    <DSCP></DSCP>
    <DSCP6></DSCP6>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLName></Ipv6ACLName>
    <Ipv4ACLVersion></Ipv4ACLVersion>
    <Ipv6ACLVersion></Ipv6ACLVersion>
    <SFTPIdleTimeout></SFTPIdleTimeout>
    <RekeyInterval></RekeyInterval>
    <AuthRetries></AuthRetries>
    <AuthTimeout></AuthTimeout>
    <CompatibleSSH1XState></CompatibleSSH1XState>
    <STelnetIpv4State></STelnetIpv4State>
    <STelnetIpv6State></STelnetIpv6State>
    <SFTPIpv4State></SFTPIpv4State>
    <SFTPIpv6State></SFTPIpv6State>
    <SCPIpv4State></SCPIpv4State>
    <SCPIpv6State></SCPIpv6State>
    <ExceptionRecordNum></ExceptionRecordNum>
  </Server>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SSH server functions.

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
STelnetState	Global Stelnet server feature	N/A	Boolean: • **true**—Enables the Stelnet server. • **false**—Disables the Stelnet server(default).
SFTPState	Global SFTP server feature	N/A	Boolean: • **true**—Enables the SFTP server. • **false**—Disables the SFTP server(default).
SCPState	Global SCP server feature	N/A	Boolean: • **true**—Enables the SCP server. • **false**—Disables the SCP server(default).
DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48
DSCP6	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv4ACLName	Specify the name of the ACL. acl-name represents the name of the ACL. It is a string of 1 to 63 characters. It is not case sensitive and must start with the English letters a to z or A to Z. To avoid confusion, the English word all is not allowed in the name of ACL.	N/A	String, case insensitive. Length: 1 to 63 characters. Case insensitive

Column name	Column description	Column type	Data type and restrictions
Ipv6ACLName	Specify the name of the ACL. acl-name represents the name of the ACL. It is a string of 1 to 63 characters. It is not case sensitive and must start with the English letters a to z or A to Z. To avoid confusion, the English word all is not allowed in the name of ACL.	N/A	String, case insensitive. Length: 1 to 63 characters. Case insensitive
Ipv4ACLVersion	When Ipv4version is 1, it corresponds to the name of the Ipv4 type. When Ipv4version is 3, it corresponds to the name of the mac type.	N/A	Enumeration: • **1**-ACL_VERSION_ACL4 • **3**-ACL_VERSION_MAC.
Ipv6ACLVersion	When Ipv6version is 2, it corresponds to the name of the Ipv6 type. When Ipv6version is 3, it corresponds to the name of the mac type.	N/A	Enumeration: • **2**-ACL_VERSION_ACL6 • **3**-ACL_VERSION_MAC.
SFTPIdleTimeout	Specify SFTP connection idle timeout timer in minutes	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 10.
RekeyInterval	Specify the SSH server key rekey-interval(hour)	N/A	Unsigned integer. Value range: 1 to 24.
AuthRetries	Specify authentication retry times	N/A	Unsigned integer. Value range: 1 to 5. Default value: 3.
AuthTimeout	Specify authentication timeout timer in seconds	N/A	Unsigned integer. Value range: 1 to 120. Default value: 60
CompatibleSSH1XState	SSH server compatibility with ssh1x	N/A	Boolean: • **true**—Enables the compatibility with ssh1x. • **false**—Disables the compatibility with ssh1x (default).

Column name	Column description	Column type	Data type and restrictions
STelnetIpv4State	Global IPv4 Stelnet server feature	N/A	Boolean: • **true**—Enables the IPv4 Stelnet server. • **false**—Disables the IPv4 Stelnet server (default).
STelnetIpv6State	Global IPv6 Stelnet server feature	N/A	Boolean: • **true**—Enables the IPv6 Stelnet server. • **false**—Disables the IPv6 Stelnet server (default).
SFTPIpv4State	Global IPv4 Stelnet server feature	N/A	Boolean: • **true**—Enables the IPv4 SFTP server. • **false**—Disables the IPv4 SFTP server (default).
SFTPIpv6State	Global IPv6 SFTP server feature	N/A	Boolean: • **true**—Enables the IPv6 SFTP server. • **false**—Disables the IPv6 SFTP server (default).
SCPIpv4State	Global IPv4 SCP server feature	N/A	Boolean: • **true**—Enables the IPv4 SCP server. • **false**—Disables the IPv4 SCP server (default).
SCPIpv6State	Global IPv6 SCP server feature	N/A	Boolean: • **true**—Enables the IPv6 SCP server. • **false**—Disables the IPv6 SCP server (default).
ExceptionRecordNum	Global maximum number of records for SSH user online exceptions	N/A	Unsigned integer. Value range: 10 to 1000. Default value: 10.

Contents

SSH 1
SSH/Capabilities 1
XML structure 1
Table description 1
Columns 1
SSH/Server 1
XML structure 2
Table description 2
Columns 3

SSH

SSH/Capabilities

This table contains the capabilities information of the SSH.

XML structure

```
<SSH>
  <Capabilities>
    <CompatibleSSH1XStateSupport></CompatibleSSH1XStateSupport>
    <RekeyIntervalSupport></RekeyIntervalSupport>
  </Capabilities>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
CompatibleSSH1XStateSupport	Whether the SSH server compatible ssh1x is supported.	N/A	Boolean: • true • false
RekeyIntervalSupport	Whether the SSH server key rekey-interval is supported.	N/A	Boolean: • **true** • **false**

SSH/Server

This table contains global SSH server information.

XML structure

```
<SSH>
  <Server>
    <STelnetState></STelnetState>
    <SFTPState></SFTPState>
    <SCPState></SCPState>
    <DSCP></DSCP>
    <DSCP6></DSCP6>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLName></Ipv6ACLName>
    <Ipv4ACLVersion></Ipv4ACLVersion>
    <Ipv6ACLVersion></Ipv6ACLVersion>
    <SFTPIdleTimeout></SFTPIdleTimeout>
    <RekeyInterval></RekeyInterval>
    <AuthRetries></AuthRetries>
    <AuthTimeout></AuthTimeout>
    <CompatibleSSH1XState></CompatibleSSH1XState>
    <STelnetIpv4State></STelnetIpv4State>
    <STelnetIpv6State></STelnetIpv6State>
    <SFTPIpv4State></SFTPIpv4State>
    <SFTPIpv6State></SFTPIpv6State>
    <SCPIpv4State></SCPIpv4State>
    <SCPIpv6State></SCPIpv6State>
    <ExceptionRecordNum></ExceptionRecordNum>
  </Server>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SSH server configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
STelnetState	Global Stelnet server feature	N/A	Boolean: • **true**—Enables Stelnet server. • **false**—Disables Stelnet server (default).
SFTPState	Global SFTP server feature	N/A	Boolean: • **true**—Enables SFTP server. • **false**—Disables SFTP server (default).
SCPState	Global SCP server feature	N/A	Boolean: • **true**—Enables SCP server. • **false**—Disables SCP server (default).
DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48
DSCP6	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv4ACLName	Specify the name of the ACL. acl-name represents the name of the ACL. It is a string of 1 to 63 characters. It is not case sensitive and must start with the English letters a to z or A to Z. To avoid confusion, the English word all is not allowed in the name of ACL.	N/A	String, case insensitive. Length: 1 to 63 characters. Case insensitive
Ipv6ACLName	Specify the name of the ACL. acl-name represents the name of the ACL. It is a string of 1 to 63 characters. It is not case sensitive and must start with the English letters a to z or A to Z. To avoid confusion, the English word all is not allowed in the name of ACL.	N/A	String, case insensitive. Length: 1 to 63 characters. Case insensitive

Column name	Column description	Column type	Data type and restrictions
Ipv4ACLVersion	When Ipv4version is 1, it corresponds to the name of the Ipv4 type. When Ipv4version is 3, it corresponds to the name of the mac type.	N/A	Enumeration: • **1-**ACL_VERSION_ACL4 • **3-**ACL_VERSION_MAC.
Ipv6ACLVersion	When Ipv6version is 2, it corresponds to the name of the Ipv6 type. When Ipv6version is 3, it corresponds to the name of the mac type.	N/A	Enumeration: • **2-**ACL_VERSION_ACL6 • **3-**ACL_VERSION_MAC.
SFTPIdleTimeout	Specify SFTP connection idle timeout timer in minutes	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 10.
RekeyInterval	Specify the SSH server key rekey-interval in hours	N/A	Unsigned integer. Value range: 1 to 24.
AuthRetries	Specify authentication retry times	N/A	Unsigned integer. Value range: 1 to 5. Default value: 3.
AuthTimeout	Specify authentication timeout timer in seconds	N/A	Unsigned integer. Value range: 1 to 120. Default value: 60
CompatibleSSH1XState	SSH server compatibility with ssh1x	N/A	Boolean: • **true**—Enables the compatibility with ssh1x. • **false**—Disables the compatibility with ssh1x(default).
STelnetIpv4State	Global IPv4 Stelnet server feature	N/A	Boolean: • **true**—Enables the IPv4 Stelnet server. • **false**—Disables the IPv4 Stelnet server (default).
STelnetIpv6State	Global IPv6 Stelnet server feature	N/A	Boolean: • **true**—Enables the IPv6 Stelnet server. • **false**—Disables the IPv6 Stelnet server (default).
SFTPIpv4State	Global IPv4 SFTP server feature	N/A	Boolean: • **true**—Enables the IPv4 SFTP server. • **false**—Disables the IPv4 SFTP server (default).
SFTPIpv6State	Global IPv6 SFTP server feature	N/A	Boolean: • **true**—Enables the IPv6 SFTP server. • **false**—Disables the IPv6 SFTP server (default).

Column name	Column description	Column type	Data type and restrictions
SCPIpv4State	Global IPv4 SCP server feature	N/A	Boolean: • **true**—Enables the IPv4 SCP server. • **false**—Disables the IPv4 SCP server (default).
SCPIpv6State	Global IPv6 SCP server feature	N/A	Boolean: • **true**—Enables the IPv6 SCP server. • **false**—Disables the IPv6 SCP server (default).
ExceptionRecordNum	Global maximum number of records for SSH user online exceptions	N/A	Unsigned integer. Value range: 10 to 1000.

Contents

SSH 1
SSH/Server 1

SSH

SSH/Server

Message	Explanation
There is the same configuration, failed to create. 存在相同配置无法创建。	If the current operation type is “create”, it does not support the existing configuration to be created again.
SSH Listens on port failed to open. SSH侦听端口使能失败	When the SSH service port number has been used by other services, it does not support to enable SSH server.
Failed to connect the SSH process. 连接SSH进程失败	If the daemon of SSH failed to connect, it will prompt this information.
The existence of default configuration, failed to delete. 删除时已经是默认配置	If the current operation type is “delete”, it does not support the default configuration to be deleted.
Acl number cannot be issued. Acl name和Acl number不能一起下发。	Under all operations.Acl number cannot be issued.
The Ipv4 acl-name and Ipv4 acl-version must be issued together.And the Ipv6 acl-name and Ipv6 acl-version must be issued together. Ipv4 acl-name和Ipv4 acl-version必须一起下发,Ipv6 acl-name和Ipv6 acl-version必须一起下发。	Under all operations.The Ipv4 acl-name and Ipv4 acl-version must be issued together.And the Ipv6 acl-name and Ipv6 acl-version must be issued together.

Contents

SSL 1
SSL/ClientPolicies 1
XML structure 1
Table description 1
Columns 1
SSL/ServerPolicies 2
XML structure 2
Table description 3
Columns 3
SSL/SSLGlobalConfig 5
XML structure 5
Table description 5
Columns 6

SSL

SSL/ClientPolicies

This table is used to operate SSL client policies.

XML structure

```
<SSL>
  <ClientPolicies>
    <Policy>
      <Name></Name>
      <SSLVersion></SSLVersion>
      <PKIDomain></PKIDomain>
      <PerferCipherList>
        <CipherItem></CipherItem>
      </PerferCipherList>
      <ServerVerify></ServerVerify>
      <EmsEnable></EmsEnable>
    </Policy>
  </ClientPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ClientPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SSL client policy	Index	String, case insensitive. Length: 1 to 31 characters. Case insensitive	N/A
SSLVersion	SSL protocol version of the SSL client	N/A	Enumeration: • **1**—TLS 1.0 • **2**—SSL 3.0	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—TLS 1.1 • **4**—TLS 1.2 • **5**—GM-TLS 1.1 Default value is TSL 1.0	
PKIDomain	Specify a PKI domain for the SSL client policy	N/A	String, case insensitive. Length: 1 to 31 characters. Case insensitive	N/A
PerferCipherList	Preferred cipher suite list for the SSL client policy	Data structure	Members include: • CipherItem.	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 31. The cipher suite ID is defined by SSLCapabilities table.	A maximum of one CipherItem can be specified in PerferCipherList.
ServerVerify	Whether to verify the SSL server	N/A	Boolean: • **true**—Verify the SSL server (default). • **false**—Don't verify the SSL server.	N/A
EmsEnable	Whether to enable the SSL Extended Master Secret	N/A	Boolean: • **true**—Enable the SSL Extended Master Secret. **false**—Disable the SSL Extended Master Secret.	

SSL/ServerPolicies

This table is used to operate SSL server policies.

XML structure

```
<SSL>
  <ServerPolicies>
    <Policy>
      <Name></Name>
      <SessionCacheSize></SessionCacheSize>
      <SessionTimeout></SessionTimeout>
      <PKIDomain></PKIDomain>
      <PKIDomainList>
        <DomainItem></DomainItem>
      </PKIDomainList>
      <CipherSuiteList>
        <CipherItem></CipherItem>
      </CipherSuiteList>
      <ClientVerify></ClientVerify>
```

```
      <ClientVerifyMode></ClientVerifyMode>
      <SSLVersionControl>
        <SSL3Enabled></SSL3Enabled>
        <TLS1Dot0Enabled></TLS1Dot0Enabled>
        <TLS1Dot1Enabled></TLS1Dot1Enabled>
        <TLS1Dot2Enabled></TLS1Dot2Enabled>
        <GMTLS1Dot1Enabled></GMTLS1Dot1Enabled>
      </SSLVersionControl>
      <ServerCipherPrefer></ServerCipherPrefer>
      <ServerCertChainEnable></ServerCertChainEnable>
      <EmsEnable></EmsEnable>
    </Policy>
  </ServerPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SSL server policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SessionCacheSize	Maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480 Default value is 500	N/A
SessionTimeout	Session timeout value	N/A	Unsigned integer. Value range: 1 to 4294967295 Default value is 3600	N/A
PKIDomain	Specify an PKI domain for the SSL server policy	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
PKIDomainList	PKI domain list for the SSL server policy	Data structure	Members include: • DomainItem.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainItem	PKI domain name	N/A	String, case insensitive. Length: 1 to 31 characters.	A maximum of two PKI domain names can be specified in PKIDomainList.
CipherSuite List	Cipher suite list for the SSL server policy	Data structure	Members include: • CipherItem.	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 31. The cipher suite ID is defined by SSLCapabilities table.	A maximum of 11 CipherItems can be specified in CipherSuiteList. Default: All cipher suites are supported.
ClientVerify	Whether to verify the SSL client	N/A	Boolean: • **true**—Verify the SSL client. • **false**—Don't verify the SSL client (default).	N/A
ClientVerify Mode	Client authentication mode	N/A	Unsigned integer. • **0**—SSL client authentication is disabled. • **1**—Mandatory SSL client authentication . • **2**—Optional SSL client authentication.	N/A
SSLVersion Control	SSL version control	Data structure	Members include: • SSL3Enabled • TLS1Dot0Enabled • TLS1Dot1Enabled • TLS1Dot2Enabled • GMTLS1Dot1Enabled	N/A
SSL3Enabled	Enable SSL3.0	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A
GMTLS1 Dot1Enabled	Enable GM TLS 1.1	N/A	Boolean: • **true**—Enable. • **false**—Disable(default)**.**	This configuration is supported only by the devices that support the GM algorithm.
ServerCipherPrefer	Whether to prefer the SSL server cipher	N/A	Boolean: • **true**—Prefer the SSL server cipher.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Prefer the SSL client cipher(default).	
ServerCertChainEnable	Whether to send the complete certificate chain	N/A	Boolean: • **true**—Send the complete certificate chain. • **false**—Don't send the complete certificate chain (default).	N/A
EmsEnable	Whether to enable the SSL Extended Master Secret	N/A	Boolean: • **true**—Enable the SSL Extended Master Secret. **false**—Disable the SSL Extended Master Secret.	N/A

SSL/SSLGlobalConfig

This table is used to operate SSL global config.

XML structure

```
<SSL>
  <SSLGlobalConfig>
      <SSL3Enabled></SSL3Enabled>
      <RenegotiationEnabled></RenegotiationEnabled>
      <TLS1Dot0Enabled></TLS1Dot0Enabled>
      <TLS1Dot1Enabled></TLS1Dot1Enabled>
      <TLS1Dot2Enabled></TLS1Dot2Enabled>
      <GMTLS1Dot1Enabled></GMTLS1Dot1Enabled>
  </SSLGlobalConfig>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	SSLGlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
SSL3Enabled	Enable SSL3.0.	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.
GMTLS1Dot1Enabled	Enable GM-TLS 1.1	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).

Contents

SSL 1
SSL/ClientPolicies 1
XML structure 1
Table description 1
Columns 1
SSL/ServerPolicies 2
XML structure 2
Table description 3
Columns 3
SSL/SSLCapabilities 5
XML structure 5
Table description 5
Columns 6
SSL/SSLGlobalConfig 6
XML structure 6
Table description 6
Columns 7
SSL/SSLVersions 7
XML structure 7
Table description 8
Columns 8

SSL

SSL/ClientPolicies

This table is used to get SSL client policies.

XML structure

```
<SSL>
  <ClientPolicies>
    <Policy>
      <Name></Name>
      <SSLVersion></SSLVersion>
      <PKIDomain></PKIDomain>
      <PerferCipherList>
        <CipherItem></CipherItem>
      </PerferCipherList>
      <ServerVerify></ServerVerify>
      <EmsEnable></EmsEnable>
    </Policy>
  </ClientPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ClientPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SSL client policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SSLVersion	SSL protocol version of the SSL client	N/A	Enumeration: • **1**—TLS 1.0 • **2**—SSL 3.0 • **3**—TLS 1.1 • **4**—TLS 1.2	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **5**—GM-TLS 1.1 • Default value is TSL 1.0	
PKIDomain	Specify a PKI domain for the SSL client policy	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
PerferCipherList	Preferred cipher suite list for the SSL client policy	Data structure	Members include: • CipherItem.	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 31. The cipher suite ID is defined by SSLCapabilities table.	A maximum of one CipherItem can be specified in PerferCipherList.
ServerVerify	Whether to verify the SSL server	N/A	Boolean: • **true**—Verify the SSL server. • **false**—Don't verify the SSL server.	N/A
EmsEnable	Whether to enable the SSL Extended Master Secret	N/A	Boolean: • **true**—Enable the SSL Extended Master Secret. • **false**—Disable the SSL Extended Master Secret.	

SSL/ServerPolicies

This table is used to get SSL server policies.

XML structure

```
<SSL>
  <ServerPolicies>
    <Policy>
      <Name></Name>
      <SessionCacheSize></SessionCacheSize>
      <SessionTimeout></SessionTimeout>
      <PKIDomain></PKIDomain>
      <PKIDomainList>
        <DomainItem></DomainItem>
      </PKIDomainList>
      <CipherSuiteList>
        <CipherItem></CipherItem>
      </CipherSuiteList>
      <ClientVerify></ClientVerify>
      <ClientVerifyMode></ClientVerifyMode>
      <SSLVersionControl>
        <SSL3Enabled></SSL3Enabled>
```

```
        <TLS1Dot0Enabled></TLS1Dot0Enabled>
        <TLS1Dot1Enabled></TLS1Dot1Enabled>
        <TLS1Dot2Enabled></TLS1Dot2Enabled>
        <GMTLS1Dot1Enabled></GMTLS1Dot1Enabled>
        <TLS1Dot3Enabled></TLS1Dot3Enabled>
      </SSLVersionControl>
      <ServerCipherPrefer></ServerCipherPrefer>
      <ServerCertChainEnable></ServerCertChainEnable>
      <EmsEnable></EmsEnable>
    </Policy>
  </ServerPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SSL server policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SessionCacheSize	Maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480	N/A
SessionTimeout	Session timeout value	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
PKIDomain	Specify a PKI domain for the SSL server policy	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
PKIDomainList	PKI domain list for the SSL server policy	Data structure	Members include: • DomainItem.	N/A
DomainItem	PKI domain name	N/A	String, case insensitive. Length: 1 to 31 characters.	A maximum of two domain names can be specified in PKIDomainList.
CipherSuiteList	Cipher suite list for the SSL	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server policy		• CipherItem.	
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 31. The cipher suite ID is defined by SSLCapabilities table.	A maximum of 11 CipherItems can be specified in CipherSuiteList.
ClientVerify	Whether to verify the SSL client	N/A	Boolean: • **true**—Verify the SSL client. • **false**—Don't verify the SSL client	N/A
ClientVerify Mode	Client authentication mode	N/A	Unsigned integer. • **0**—SSL client authentication is disabled. • **1**—Mandatory SSL client authentication . • **2**—Optional SSL client authentication.	N/A
SSLVersion Control	SSL version control	Data structure	Members include: • SSL3Enabled • TLS1Dot0Enabled • TLS1Dot1Enabled • TLS1Dot2Enabled • GMTLS1Dot1Enabled • TLS1Dot3Enabled	N/A
SSL3Enabled	Enabling status of SSL3.0	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
TLS1Dot0Enabled	Enabling status of TLS1.0	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
TLS1Dot1Enabled	Enabling status of TLS1.1	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
TLS1Dot2Enabled	Enabling status of TLS1.2	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
GMTLS1Dot1Enabled	Enabling status of GM-TLS 1.1	N/A	Boolean: • **true**—Enabled. • **false**—Disabled**.**	N/A
TLS1Dot3Enabled	Enabling status of TLS1.3	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
ServerCipherPrefer	Whether to prefer the SSL	N/A	Boolean: • **true**—Prefer the SSL server	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server cipher		cipher. • **false**—Prefer the SSL client cipher	
ServerCertChainEnable	Whether to send the complete certificate chain	N/A	Boolean: • **true**—Send the complete certificate chain. • **false**—Don't send the complete certificate chain (default).	N/A
EmsEnable	Whether to enable the SSL Extended Master Secret	N/A	Boolean: • **true**—Enable the SSL Extended Master Secret. **false**—Disable the SSL Extended Master Secret.	N/A

SSL/SSLCapabilities

This table displays all the algorithm capabilities that the SSL module support.

XML structure

```
<SSL>
  <SSLCapabilities>
    <SSLCapability>
      <ID></ID>
      <Name></Name>
      <Strength></Strength>
      <IsDefaultCipherSuite></IsDefaultCipherSuite>
      <IsSecure></IsSecure>
    </SSLCapability>
  </SSLCapabilities>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	SSLCapabilities
Table type	Multi-instance table
Row name	SSLCapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	SSL supports algorithm ID	Index	Unsigned integer.	N/A
Name	SSL supports algorithm name	N/A	String. Length: 1 to 255 characters Case insensitive.	N/A
Strength	The strength of the algorithm	N/A	Unsigned integer	Bigger Value, More strong.
IsDefaultCipherSuite	If the algorithm is default cipher suite.	N/A	Boolean: • **true**—The algorithm is the default • **false**—The algorithm isn't the default	N/A
IsSecure	If the algorithm is secure.	N/A	Boolean: • **true**—The algorithm is secure • **false**—The algorithm isn't secure	N/A

SSL/SSLGlobalConfig

This table is used to operate SSL global config.

XML structure

```
<SSL>
  <SSLGlobalConfig>
      <SSL3Enabled></SSL3Enabled>
      <RenegotiationEnabled></RenegotiationEnabled>
      <TLS1Dot0Enabled></TLS1Dot0Enabled>
      <TLS1Dot1Enabled></TLS1Dot1Enabled>
      <TLS1Dot2Enabled></TLS1Dot2Enabled>
      <GMTLS1Dot1Enabled></GMTLS1Dot1Enabled>
      <TLS1Dot3Enabled></TLS1Dot3Enabled>
  </SSLGlobalConfig>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	SSLGlobalConfig
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SSL3Enabled	Enable SSL3.0.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: • **true**—Enable. • **false**—Disable.
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: • true—Enable. • false—Disable.
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: • true—Enable. • false—Disable.
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: • true—Enable. • false—Disable.
GMTLS1Dot1Enabled	Enable GM-TLS 1.1	N/A	Boolean: • **true**—Enable. • **false**—Disable
TLS1Dot3Enabled	Enable TLS1.3	N/A	Boolean: • true—Enable. • false—Disable.

SSL/SSLVersions

This table displays all the versions that the SSL module support.

XML structure

```
<SSL>
  <SSLVersions>
    <SSLVersion>
      <ID></ID>
      <Name></Name>
      <IsSecure></IsSecure>
    </SSLVersion>
  </SSLVersions>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	SSLVersions
Table type	Multi-instance table
Row name	SSLVersion
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	SSL supports version ID	Index	Unsigned integer.	N/A
Name	SSL supports version name	N/A	String. Length: 1 to 64 characters Case insensitive.	N/A
IsSecure	If the version is secure.	N/A	Boolean: • **true**—The version is secure • **false**—The version isn't secure	N/A

Contents

Comware 7 SSL NETCONF XML API Error Message Reference ····· 1
SSL/SSLGlobalConfig ····· 1
SSL/ClientPolicies ····· 1
SSL/ServerPolicies ····· 1

Comware 7 SSL NETCONF XML API Error Message Reference

SSL/SSLGlobalConfig

Message	Explanation
Can't disable all SSL protocol versions. 不能禁止使用所有SSL协议版本。	An SSL server use at least one SSL protocol version. SSL服务器需要至少支持一个SSL版本才能正常工作。
Renegotiation is not allowed when the security level is 2. 当安全等级为2时不允许使能重协商	当前安全等级为2时，不允许用户使能重协商功能
It is not allowed to enable a version lower than tls1.1 when the security level is 2. 当安全等级为2时不允许使能低于tls1.1的版本	当前安全等级为2时，不允许用户使能低于tls1.1的版本

SSL/ClientPolicies

Message	Explanation
It is not allowed to configure cipher suites containing DES/3DES/MD5/RC4/RC2 when the security level is 2. 当安全等级为2时不允许配置包含DES/3DES/MD5/RC4/RC2的加密套件	当前安全等级为2时，不允许用户配置包含DES/3DES/MD5/RC4/RC2的不安全加密算法套件
It is not allowed to enable a version lower than tls1.1 when the security level is 2. 当安全等级为2时不允许使能低于tls1.1的版本	当前安全等级为2时，不允许用户使能低于tls1.1的版本

SSL/ServerPolicies

Message	Explanation
Can't disable all SSL protocol versions. 不能禁止使用所有SSL协议版本。	An SSL server use at least one SSL protocol version. SSL服务器需要至少支持一个SSL版本才能正常工作。
It is not allowed to configure cipher suites containing DES/3DES/MD5/RC4/RC2 when the security level is 2. 当安全等级为2时不允许配置包含DES/3DES/MD5/RC4/RC2的加密套件	当前安全等级为2时，不允许用户配置包含DES/3DES/MD5/RC4/RC2的不安全加密算法套件
It is not allowed to enable a version lower than tls1.1 when the security level is 2. 当安全等级为2时不允许使能低于tls1.1的版本	当前安全等级为2时，不允许用户使能低于tls1.1的版本

Contents

SSLVPN 1

SSLVPN/LogoutAlls 1
XML structure 1
Table description 1
Columns 1
SSLVPN/LogoutUsers 1
XML structure 1
Table description 2
Columns 2
SSLVPN/LogoutSessions 2
XML structure 2
Table description 3
Columns 3
SSLVPN/ClearAllIpacStats 3
XML structure 3
Table description 3
Columns 4
SSLVPN/ClearIpacStatsContexts 4
XML structure 4
Table description 4
Columns 4
SSLVPN/ClearIpacStatsSessions 4
XML structure 5
Table description 5
Columns 5
SSLVPN/GlobalCustoms 5
XML structure 5
Table description 6
Columns 6
SSLVPN/UITemplateOperates 6
XML structure 6
Table description 6
Columns 7
SSLVPN/UITemplateChecks 7
XML structure 7
Table description 7
Columns 7
SSLVPN/SSOUserFiles 8
XML structure 8
Table description 8
Columns 8
SSLVPN/DomainCheckFiles 8
XML structure 8
Table description 9
Columns 9
SSLVPN/UnFreezeIPs 9
Table description 9
Columns 10
SSLVPN/ResFileOperates 10
XML structure 10
Table description 10
Columns 11

SSLVPN

SSLVPN/LogoutAlls

This table contains information about force logout of all SSL VPN users.

XML structure

```
<SSLVPN>
  <LogoutAlls>
    <LogoutAll>
      <ContextName></ContextName>
    </LogoutAll>
  </LogoutAlls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutAlls
Table type	Multi-instance table
Row name	LogoutAll
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/LogoutUsers

This table contains is used to log out all SSL VPN users.

XML structure

```
<SSLVPN>
  <LogoutUsers>
    <LogoutUser>
```

```
      <ContextName></ContextName>
      <UserName></UserName>
    </LogoutUser>
  </LogoutUsers>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutUsers
Table type	Multi-instance table
Row name	LogoutUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Username	Username	Index	String. Length: 1 to 63 characters.

SSLVPN/LogoutSessions

This table contains information about force logout of SSL VPN users by session ID.

XML structure

```
<SSLVPN>
  <LogoutSessions>
    <LogoutSession>
      <ContextName></ContextName>
      <SessionID></SessionID>
    </LogoutSession>
  </LogoutSessions>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutSessions
Table type	Multi-instance table
Row name	LogoutSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.

SSLVPN/ClearAllIpacStats

This table contains information about resetting IP access statistics of all SSLVPN users.

XML structure

```
<SSLVPN>
  <ClearAllIpacStats>
    <Clear></Clear>
  </ClearAllIpacStats>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearAllIpacStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears IP access statistics on all users.	N/A	This column must be empty.	Clear

SSLVPN/ClearIpacStatsContexts

This table contains information about resetting IP access statistics of SSL VPN users within specific SSLVPN context.

XML structure

```
<SSLVPN>
  <ClearIpacStatsContexts>
    <ClearIpacStatsContext>
      <ContextName></ContextName>
    </ClearIpacStatsContext>
  </ClearIpacStatsContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearIpacStatsContexts
Table type	Multi-instance table
Row name	ClearIpacStatsContext
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

SSLVPN/ClearIpacStatsSessions

This table contains information about resetting IP access statistics of SSL VPN users by session ID.

XML structure

```
<SSLVPN>
  <ClearIpacStatsSessions>
    <ClearIpacStatsSession>
      <ContextName></ContextName>
      <SessionID></SessionID>
    </ClearIpacStatsSession>
  </ClearIpacStatsSessions>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearIpacStatsSessions
Table type	Multi-instance table
Row name	ClearIpacStatsSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.

SSLVPN/GlobalCustoms

This table is used to customize SSL VPN user access clients.

XML structure

```
<SSLVPN>
  <GlobalCustoms>
    <GlobalCustom>
      <IPClientName></IPClientName>
    </GlobalCustom>
  </GlobalCustoms>
```

```
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalCustoms
Table type	Multi-instance table
Row name	GlobalCustom
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPClientName	Name of the custom IP access client	Column	String, case insensitive. Length: 0 to 63 characters. The string cannot contain colons (:), question marks (?), asterisks (*), angle brackets (< >), ditto marks (“), slashes (/), backslashes (\), vertical bars (|).	When the string length is 0, this column deletes the custom IP access client.

SSLVPN/UITemplateOperates

This table is used to load or unload an SSL VPN UI template.

XML structure

```
<SSLVPN>
  <UITemplateOperates>
    <UITemplateOperate>
      <TemplateName></TemplateName>
      <ActionType></ActionType>
    </UITemplateOperate>
  </UITemplateOperates>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UITemplateOperates
Table type	Multi-instance table

Row name	UITemplateOperate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TemplateName	UI template name.	Index	String. Length: 1 to 35 characters. The string cannot contain the following characters: / \ | : * “ ? < >.
ActionType	Action type.	N/A	Enumeration: • 1—Load. • 2—Unload.

SSLVPN/UITemplateChecks

This table is used to check whether an SSL VPN UI template path exists.

XML structure

```
<SSLVPN>
  <UITemplateChecks>
    <UITemplateCheck>
      <TemplatePaths></TemplatePaths>
    </UITemplateCheck>
  </UITemplateChecks>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UITemplateChecks
Table type	Multi-instance table
Row name	UITemplateCheck
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TemplatePath	UI template	Index	String.

s	path.		Length: 1 to 511 characters. The string cannot contain the following characters: / \ | : * “ ? < >.

SSLVPN/SSOUserFiles

This table instructs SSL VPN to load the username and password file.

XML structure

```
<SSLVPN>
  <SSOUserFiles>
    <SSOUserFile>
      <FileName></FileName>
    </SSOUserFile>
  </SSOUserFiles>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SSOUserFiles
Table type	Multi-instance table
Row name	SSOUserFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the username and password file	Column	String, case insensitive. Length: 0 to 31 characters.	N/A

SSLVPN/DomainCheckFiles

This table is used to upload or delete the WeChat Work domain name ownership verification file.

XML structure

```
<SSLVPN>
  <DomainCheckFiles>
    <DomainCheckFile>
```

```
      <FileName></FileName>
    </DomainCheckFile>
  </DomainCheckFiles>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ResFileOperates
Table type	Multi-instance table
Row name	DomainCheckFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the domain name ownership verification file	Column	String, case insensitive. Length: 0 to 63 characters. The string cannot contain colons (:), question marks (?), asterisks (*), angle brackets (< >), ditto marks (“), slashes (/), backslashes (\), or vertical bars (|).	When the string length is 0, this column deletes all WeChat Work domain name ownership verification file.

SSLVPN/UnFreezeIPs

This table is used to unfreeze the frozen IP addresses.

```
XML structure<SSLVPN>
  <UnFreezeIPs>
    <UnFreezeIP>
      <ContextName></ContextName>
      <UserIPv4></UserIPv4>
      <UserIPv6></UserIPv6>
    </UnFreezeIP>
  </UnFreezeIPs>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UnFreezeIPs

Table type	Multi-instance table
Row name	UnFreezeIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
UserIPv4	IPv4 address to unfreeze	N/A	String,dotted decimal notation.
UserIPv6	IPv6 address to unfreeze	N/A	Hexadeccimal string, colon-separated.

SSLVPN/ResFileOperates

This table is used to set or delete the SSL VPN resource file for users to download..

XML structure

```
<SSLVPN>
  <ResFileOperates>
    <ResFileOperate>
      <ContextName></ContextName>
      <Languages></Languages>
      <FileName></FileName>
      <FilePath></FilePath>
    </ResFileOperate>
  </ResFileOperates>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ResFileOperates
Table type	Multi-instance table
Row name	ResFileOperate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Languages	Language of the Web interface that provides the file	Index	Enumeration: • 0—English. • 1—Chinese.	• N/A
FileName	Name of the file	N/A	String. Length: 1 to 31 characters.	N/A
FilePath	Path of the file	N/A	String. Length: 1 to 512characters.	N/A

Contents

SSLVPN 1

SSLVPN/Gateways 1
XML structure 1
Table description 1
Columns 1
SSLVPN/Contexts 2
XML structure 2
Table description 3
Columns 3
SSLVPN/Contexts_v2 5
XML structure 5
Table description 6
Columns 6
SSLVPN/ContextGateways 9
XML structure 9
Table description 10
Columns 10
SSLVPN/IpAcContexts 10
XML structure 10
Table description 11
Columns 12
SSLVPN/UISettings 14
XML structure 14
Table description 15
Columns 15
SSLVPN/PortForwardLists 18
XML structure 18
Table description 19
Columns 19
SSLVPN/PortForwardItems 19
XML structure 19
Table description 20
Columns 20
SSLVPN/Ipv4AddressPools 20
XML structure 21
Table description 21
Columns 21
SSLVPN/RouteLists 21
XML structure 22
Table description 22
Columns 22
SSLVPN/RouteItems 22
XML structure 22
Table description 23
Columns 23
SSLVPN/Ipv6AddressPools 24
XML structure 24
Table description 24
Columns 24
SSLVPN/Ipv6RouteLists 25
XML structure 25
Table description 25
Columns 25
SSLVPN/Ipv6RouteItems 25
XML structure 26
Table description 26
Columns 26

SSLVPN/PolicyGroups 27
XML structure 27
Table description 27
Columns 27
SSLVPN/TcpAcPolicys 28
XML structure 28
Table description 28
Columns 29
SSLVPN/IpAcPolicys 29
XML structure 29
Table description 30
Columns 30
SSLVPN/IpAcPolicys_v2 32
XML structure 32
Table description 33
Columns 33
SSLVPN/URIACLs 35
XML structure 35
Table description 35
Columns 35
SSLVPN/URIACLItems 36
XML structure 36
Table description 36
Columns 36
SSLVPN/WebAcPolicys 37
XML structure 37
Table description 37
Columns 38
SSLVPN/UrlLists 38
XML structure 38
Table description 38
Columns 39
SSLVPN/UrlItems 39
XML structure 39
Table description 39
Columns 40
SSLVPN/UrlCtxItems 40
XML structure 40
Table description 41
Columns 41
SSLVPN/UrlItemResources 43
XML structure 43
Table description 43
Columns 43
SSLVPN/SnatPools 44
XML structure 44
Table description 44
Columns 44
SSLVPN/Ipv6SnatPools 45
XML structure 45
Table description 45
Columns 45
SSLVPN/UrlResources 46
XML structure 46
Table description 46
Columns 47
SSLVPN/SnatResources 47
XML structure 47
Table description 47
Columns 48
SSLVPN/UserControls 48
XML structure 48

Table description 49
Columns 49
SSLVPN/GlobalLog 50
XML structure 50
Table description 50
Columns 51
SSLVPN/PortForwardCtxItems 51
XML structure 51
Table description 51
Columns 52
SSLVPN/PortForwardItemResources 52
XML structure 52
Table description 53
Columns 53
SSLVPN/Shortcuts 53
XML structure 53
Table description 54
Columns 54
SSLVPN/ShortcutLists 55
XML structure 55
Table description 55
Columns 55
SSLVPN/ShortcutResources 55
XML structure 56
Table description 56
Columns 56
SSLVPN/ShortcutPolicys 56
XML structure 57
Table description 57
Columns 57
SSLVPN/Users 57
XML structure 58
Table description 58
Columns 58
SSLVPN/CustomAuthRequests 59
XML structure 59
Table description 59
Columns 60
SSLVPN/CustomAuthReqHeaders 60
XML structure 60
Table description 61
Columns 61
SSLVPN/CustomAuthResponses 61
XML structure 61
Table description 62
Columns 62
SSLVPN/CustomAuthRespFields 62
XML structure 62
Table description 63
Columns 63
SSLVPN/CustomAuthRespTemplates 63
XML structure 63
Table description 64
Columns 64
SSLVPN/WebAcContexts 65
XML structure 65
Table description 65
Columns 65
SSLVPN/SmsAuthSmsGws 65
XML structure 66
Table description 66
Columns 66

SSLVPN/SmsAuthSettings ····· 67
XML structure ····· 67
Table description ····· 67
Columns ····· 68
SSLVPN/SSOAutoBuildParams ····· 68
XML structure ····· 68
Table description ····· 68
Columns ····· 69
SSLVPN/WeChatWorkAuths ····· 69
XML structure ····· 69
Table description ····· 70
Columns ····· 70
SSLVPN/UiReplyMsgs ····· 71
XML structure ····· 71
Table description ····· 71
Columns ····· 72
SSLVPN/GlobalFlowRedirect ····· 72
XML structure ····· 72
Table description ····· 72
Columns ····· 73
SSLVPN/Quantum ····· 73
XML structure ····· 73
Table description ····· 73
Columns ····· 73
SSLVPN/ContextRoles ····· 74
XML structure ····· 74
Table description ····· 74
Columns ····· 75
SSLVPN/ClientDownloads ····· 75
XML structure ····· 75
Table description ····· 76
Columns ····· 76

SSLVPN

SSLVPN/Gateways

This table contains SSL VPN gateway configuration information.

XML structure

```
<SSLVPN>
  <Gateways>
    <Gateway>
      <Name></Name>
      <AddressType></AddressType>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <VRF></VRF>
      <SSLServerPolicy></SSLServerPolicy>
      <HTTPRedirect></HTTPRedirect>
      <RedirectPort></RedirectPort>
      <QuantumEnable></QuantumEnable>
      <Enable></Enable>
    </Gateway>
  </Gateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Gateways
Table type	Multi-instance table
Row name	Gateway
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN gateway name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string can contain only letters, digits, and underscores (_).	
AddressType	Whether the SSL VPN gateway address is an IPv6 address	N/A	Boolean: • false—IPv4. • true—IPv6.	N/A
Ipv4Address	IPv4 address of the SSL VPN gateway	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address of the SSL VPN gateway	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
PortNumber	Port number of the SSL VPN gateway	N/A	Unsigned integer. Value range: 443, 1025 to 65535. Default: 443.	N/A
VRF	Name of the VRF instance associated with the SSL VPN gateway	N/A	String. Length: 0 to 31 characters.	If the gateway is on the public network, the length of characters is 0.
SSLServerPolicy	Name of the SSL server policy used by the SSL VPN gateway	N/A	String, case insensitive. Length: 1 to 31 characters.	By default, no SSL server policy is used by the SSL VPN gateway.
HTTPRedirect	Whether HTTP traffic is redirected	N/A	Boolean: • true—Redirected. • false—Not redirected.	N/A
RedirectPort	Port number of the redirected HTTP traffic	N/A	Unsigned integer. Value range: 80, 1025 to 65535. Default: 80.	N/A
QuantumEnable	Whether the quantum cipher service is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	QuantumEnable
Enable	Whether the SSL VPN gateway is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/Contexts

This table contains SSL VPN context configuration information.

XML structure

```
<SSLVPN>
```

```
  <Contexts>
    <Context>
      <Name></Name>
      <Gateway>
        <Name></Name>
        <AccessType></AccessType>
        <Domain></Domain>
        <VirtualHost></VirtualHost>
      </Gateway>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
      <IdleTimeout></IdleTimeout>
      <AAADomain></AAADomain>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <DefaultPolicyGroup></DefaultPolicyGroup>
      <Enable></Enable>
    </Context>
  </Contexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The Contexts table does not support multiple links. Tables ContextGateways and contexts_v2 are added to support multiple links, and new features are added in the these two tables. The Contexts table is included only for compatibility. No new features will be added to this table. Use new tables ContextGateway and contexts_v2 instead of this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(_).	
Gateway	Associated gateway	Data structure	Members include: • Name. • AccessType. • Domain. • VirtualHost.	N/A
Name	Associated gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: • 1—domain. • 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes. Default: 30 minutes.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ | " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EMOServer	EMO server	Data structure	Members include: • Address. • PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/Contexts_v2

This table contains SSL VPN context_v2 configuration information.

XML structure

```
<SSLVPN>
  <Contexts_v2>
    <Context_v2>
      <Name></Name>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
      <IdleTimeout></IdleTimeout>
      <TrafficThreshold></TrafficThreshold>
      <AAADomain></AAADomain>
      <AuthServerType></AuthServerType>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <MessageServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </MessageServer>
```

```
      <SmsImcServer>
        <AddressType></AddressType>
        <Address></Address>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </SmsImcServer>
      <SmsImc></SmsImc>
      <SelfImcServer>
        <AddressType></AddressType>
        <Address></Address>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </SelfImcServer>
      <DefaultPolicyGroup></DefaultPolicyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <AllowChangePWD></AllowChangePWD>
      <Enable></Enable>
    </Context_v2>
  </Contexts_v2>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts_v2
Table type	Multi-instance table
Row name	Context_v2
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VRF	Name of the VRF instance associated with	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is

Column name	Column description	Column type	Data type and restrictions	Remarks
	the SSL VPN context			0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes. Default: 30 minutes.	N/A
TrafficThreshold	Set the minimum traffic to avoid idle-cut	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ | " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A
AuthServerType	Authentication server type	N/A	Enumeration: • 0—AAA. • 1—Custom.	N/A
EMOServer	EMO server	Data structure	Members include: • Address. • PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
MessageServer	Message server	Data structure	Members include: • Address. • PortNumber.	N/A
Address	IPv4 address or host name of the Message server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only	IPv4 address example: 1.1.1.1. Host name example: www.example.com.

Column name	Column description	Column type	Data type and restrictions	Remarks
			letters, digits, hyphens (-), underscores (_), and dots (.).	
PortNumber	Port number of the Message server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
SmsImcServer	Short Message Service of IMC server	Data structure	Members include: • AddressType. • Address. • Ipv6Address. • PortNumber. • VRF.	New feature, not compatible with the old table.
AddressType	Type of the IP address	N/A	Enumeration: • 1—IPv4 (default). • 2—IPv6	N/A
Address	IPv4 address of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table. Available when AddressType is 1. Example: 1.1.1.1.
Ipv6Address	IPv6 address of the IMC server	N/A	Hexadecimal string, colon-separated.	Available when AddressType is 2. Example: 1:1::1:1.
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
SmsImc	Whether the SMS-IMC message authentication of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	New feature, not compatible with the old table.
SelfImcServer	User self modify password service of IMC server	Data structure	Members include: • AddressType. • Address. • Ipv6Address. • PortNumber. • VRF.	New feature, not compatible with the old table.
AddressType	Type of the IP address	N/A	Enumeration: • 1—IPv4 (default). • 2—IPv6	N/A
Address	IPv4 address or host name of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Available when AddressType is 1. Example: 1.1.1.1.
Ipv6Address	IPv6 address of the IMC server	N/A	Hexadecimal string, colon-separated.	Available when AddressType is 2. Example: 1:1::1:1.
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
DefaultPolicyGroup	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
SSLClientPolicy	Name of the SSL client policy used by the SSL VPN context	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old table.
AllowChangePWD	Allow users to change passwords	N/A	Boolean: • true—Enabled (default). • false—Disabled.	N/A
Enable	Whether the SSL VPN context is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/ContextGateways

This table contains information about the SSL VPN gateway associated with the context.

XML structure

```
<SSLVPN>
  <ContextGateways>
    <ContextGateway>
      <ContextName></ContextName>
      <GatewayName></GatewayName>
      <AccessType></AccessType>
      <Domain></Domain>
      <VirtualHost></VirtualHost>
    </ContextGateway>
  </ContextGateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextGateways
Table type	Multi-instance table
Row name	ContextGateway
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
GatewayName	Associated gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: • 1—domain. • 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A

SSLVPN/IpAcContexts

This table contains SSL VPN IP access configuration information for context.

XML structure

```
<SSLVPN>
```

```
  <IpAcContexts>
    <IpAcContext>
      <ContextName></ContextName>
      <AcIfIndex></AcIfIndex>
      <KeepAlive></KeepAlive>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv6AddressPool>
        <Name></Name>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6AddressPool>
      <DNSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServer>
      <DNSServerIPv6>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServerIPv6>
      <WINSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </WINSServer>
      <ConnCloseLog></ConnCloseLog>
      <PacketDropLog></PacketDropLog>
      <AllocAddressLog></AllocAddressLog>
      <IPClientAutoActive></IPClientAutoActive>
      <WebResourceAutoPush></WebResourceAutoPush>
      <RateLimitUp>
        <Unit></Unit>
        <Value></Value>
      </RateLimitUp>
      <RateLimitDown>
        <Unit></Unit>
        <Value></Value>
      </RateLimitDown>
    </IpAcContext>
  </IpAcContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContexts

Table type	Multi-instance table
Row name	IpAcContext
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AcIfIndex	Index of the referenced SSL VPN access interface	N/A	Unsigned integer.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds. Default: 30 seconds.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
Ipv6AddressPool	Referenced IPv6 address pool	Data structure	Members include: • Name. • Ipv6PrefixLength.	N/A
Name	SSL VPN IPv6 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6PrefixLength	SSL VPN IPv6 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DNSServer	DNS server	Data structure	Members include: • Primary. • Secondary.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DNSServerIPv6	IPv6 DNS server information	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv6 address of the primary DNS server	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Secondary	IPv6 address of the secondary DNS server	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
WINSServer	WINS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ConnCloseLog	Enabling status of IP access connection close logging.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
PacketDropLog	Enabling status of packet drop logging.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
AllocAddressLog	Enabling status of IP access address allocation logging.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
IPClientAutoActive	Enabling status of automatic startup of the IP access client after Web login.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
WebResourceAutoPush	Enabling status of automatic pushing of accessible resources through Web after IP access client login.	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
RateLimitUp	Upstream rate	Data	Members include:	“Unit” and “value” must

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit	structure	• Unit. • Value.	both be configured.
Unit	Unit for the rate limit	N/A	Enumeration: • 1—kbps • 2—pps	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A
RateLimitDown	Downstream rate limit	Data structure	Members include: • Unit. • Value.	“Unit” and “value” must both be configured.
Unit	Unit for the rate limit	N/A	Enumeration: • 1—kbps • 2—pps	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A

SSLVPN/UISettings

This table contains SSL VPN context UI configuration information.

XML structure

```
<SSLVPN>
  <UISettings>
    <UISetting>
      <ContextName></ContextName>
      <VerifyCode></VerifyCode>
      <DPWD></DPWD>
      <DisplayLogo></DisplayLogo>
      <HidePasswordInput></HidePasswordInput>
      <LogoFile></LogoFile>
      <LoginMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginMsg>
      <Title>
        <English></English>
        <Chinese></Chinese>
      </Title>
      <PwdComplexMsg>
        <English></English>
        <Chinese></Chinese>
      </PwdComplexMsg>
```

```
      <LoginPageNotifyMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginPageNotifyMsg>
      <ResourcePageNotifyMsg>
        <English></English>
        <Chinese></Chinese>
      </ResourcePageNotifyMsg>
      <CertificateAuthen></CertificateAuthen>
      <CertUserNameAttr></CertUserNameAttr>
      <OID></OID>
      <PasswordAuthen></PasswordAuthen>
      <AuthenUse></AuthenUse>
      <UserLog></UserLog>
      <ResourceLog></ResourceLog>
      <Filter></Filter>
      <Brief></Brief>
      <UITemplate>
        <Name></Name>
      </UITemplate>
      <AccessDisableFlag></AccessDisableFlag>
    </UISetting>
  </UISettings>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UISettings
Table type	Multi-instance table
Row name	UISetting
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
VerifyCode	Whether the verify code is	N/A	Boolean: • true—Enabled.

Column name	Column description	Column type	Data type and restrictions
	enabled		• false—Disabled (default).
DPWD	Whether the dynamic password is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).
DisplayLogo	Whether the logo is displayed	N/A	Boolean: • true—Displayed (default). • false—Not displayed.
HidePasswordInput	Whether to hide the password input box	N/A	Boolean: • true—Hide the password box. • false—Not hide the password box (default).
LogoFile	Logo file path	N/A	String, case insensitive. Length: 1 to 255 characters.
LoginMsg	Web login message	Data structure	Members include: • English. • Chinese.
English	English login message string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese login message string	N/A	String. Length: 1 to 255 characters.
Title	Web title	Data structure	Members include: • English. • Chinese.
English	English title string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese title string	N/A	String. Length: 1 to 255 characters.
PwdComplexMsg	Password complexity message configuration	Data structure	Members include: • English. Chinese.
English	Password complexity message in English	N/A	String. Length: 1 to 255 characters.
Chinese	Password complexity message in Chinese	N/A	String. Length: 1 to 255 characters.
LoginPageNotifyMsg	Configure the login page notification message	Data structure	Members include: • English. Chinese.
English	Login page notification message in English	N/A	String. Length: 1 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
Chinese	Login page notification message in Chinese	N/A	String. Length: 1 to 255 characters.
ResourcePageNotifyMsg	Configure the resource page notification message	Data structure	Members include: • English. Chinese.
English	Resource page notification message in English	N/A	String. Length: 1 to 255 characters.
Chinese	Resource page notification message in Chinese	N/A	String. Length: 1 to 255 characters.
CertificateAuthen	Whether certificate authentication of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).
CertUserNameAttr	Username attribute configuration when the certificate authentication is enabled.	N/A	Enumeration: • 0—CN (default). • 1—Email-prefix. • 2—OID.
OID	The OID string input for the username attribute when CertUserNameAttr is OID.	N/A	String. Length: 1 to 96 characters.
ResourcerLog	Whether Resource logging of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).
UserLog	Whether user logging of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled (default).
PasswordAuthen	Whether password	N/A	Boolean: • true—Enabled(default).

Column name	Column description	Column type	Data type and restrictions
	authentication of the SSL VPN context is enabled.		• false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: • 0—all(default). • 1—any-one.
UITemplate	UI template used by the SSL VPN context.	Data structure	Members include: • Name. • Status.
Name	Template name.	N/A	String. Length: 1 to 31 characters. The string cannot contain the following characters: / \ | : * “ ? < >.
AccessDisableFlag	Flags that indicate what types of clients are limited to access SSL VPN.	N/A	Unsigned integer. Value range: 0 to 7. Default: 0 Bit0: • 0—Browsers are allowed to access SSL VPN. • 1—Browsers are denied access to SSL VPN. Bit1: • 0—PC iNode clients are allowed to access SSL VPN. • 1—PC iNode clients are denied access to SSL VPN. Bit2: • 0—Mobile iNode clients are allowed to access SSL VPN. • 1—Mobile iNode clients are denied access to SSL VPN.

SSLVPN/PortForwardLists

This table contains SSL VPN port forwarding list configuration information.

XML structure

```
<SSLVPN>
  <PortForwardLists>
    <PortForwardList>
      <ContextName></ContextName>
      <ListName></ListName>
    </PortForwardList>
  </PortForwardLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardLists
Table type	Multi-instance table
Row name	PortForwardList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/PortForwardItems

This table contains SSL VPN port forwarding entry configuration information.

XML structure

```
<SSLVPN>
  <PortForwardItems>
    <PortForwardItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
    </PortForwardItem>
  </PortForwardItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItems
Table type	Multi-instance table
Row name	PortForwardItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	Index	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	Index	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:)and dots (.).
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:)and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.

SSLVPN/Ipv4AddressPools

This table contains SSL VPN IPv4 address pool configuration information.

XML structure

```
<SSLVPN>
  <Ipv4AddressPools>
    <Ipv4AddressPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Ipv4AddressPool>
  </Ipv4AddressPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv4AddressPools
Table type	Multi-instance table
Row name	Ipv4AddressPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IP address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AddressStart	Start IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be larger than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/RouteLists

This table contains SSL VPN route list configuration information.

XML structure

```
<SSLVPN>
  <RouteLists>
    <RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </RouteList>
  </RouteLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteLists
Table type	Multi-instance table
Row name	RouteList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/RouteItems

This table contains SSL VPN route entry configuration information.

XML structure

```
<SSLVPN>
  <RouteItems>
    <RouteItem>
```

```
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </RouteItem>
  </RouteItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteItems
Table type	Multi-instance table
Row name	RouteItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 0—Include. • 1—Exclude.	N/A
Ipv4Address	Destination IPv4 address of the route	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

SSLVPN/Ipv6AddressPools

This table contains SSL VPN IPv6 address pool configuration information.

XML structure

```
<SSLVPN>
  <Ipv6AddressPools>
    <Ipv6AddressPool>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </Ipv6AddressPool>
  </Ipv6AddressPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6AddressPools
Table type	Multi-instance table
Row name	Ipv6AddressPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IPv6 address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6AddressStart	Start IPv6 address of the pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Ipv6AddressStart cannot be larger than Ipv6AddressEnd.
Ipv6AddressEnd	End IPv6 address of the pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

SSLVPN/Ipv6RouteLists

This table contains SSL VPN IPv6 route list configuration information.

XML structure

```
<SSLVPN>
  <Ipv6RouteLists>
    <Ipv6RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </Ipv6RouteList>
  </Ipv6RouteLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6RouteLists
Table type	Multi-instance table
Row name	Ipv6RouteList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN IPv6 route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Ipv6RouteItems

This table contains SSL VPN IPv6 route item configuration information.

XML structure

```
<SSLVPN>
  <Ipv6RouteItems>
    <Ipv6RouteItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6RouteItem>
  </Ipv6RouteItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6RouteItems
Table type	Multi-instance table
Row name	Ipv6RouteItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ListName	SSL VPN IPv6 route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
RouteType	The way how the IPv6 route is specified	N/A	Enumeration: • 0—Include. • 1—Exclude.	N/A
Ipv6Address	Destination IPv6 address of the route	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	IPv6 address prefix length	Index	Unsigned integer. Value range: 0 to 128.	N/A

SSLVPN/PolicyGroups

This table contains SSL VPN policy group basic configuration information.

XML structure

```
<SSLVPN>
  <PolicyGroups>
    <PolicyGroup>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <RedirectResType></RedirectResType>
      <RedirectResName></RedirectResName>
    </PolicyGroup>
  </PolicyGroups>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PolicyGroups
Table type	Multi-instance table
Row name	PolicyGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid

Column name	Column description	Column type	Data type and restrictions
			characters are \t \r \n ?.
RedirectResType	Redirect resource type	N/A	Enumeration: • 0—None (default). • 1—URL-item. • 2—Shortcut.
RedirectResName	Redirect resource name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/TcpAcPolicys

This table contains SSL VPN TCP access configuration information for policy groups.

XML structure

```
<SSLVPN>
  <TcpAcPolicys>
    <TcpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <PortForwardName></PortForwardName>
      <URIACLName></URIACLName>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </TcpAcPolicy>
  </TcpAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	TcpAcPolicys
Table type	Multi-instance table
Row name	TcpAcPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
PortForwardName	SSL VPN port forwarding list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.

SSLVPN/IpAcPolicys

This table contains SSL VPN IP access configuration information for policy groups.

XML structure

```
<SSLVPN>
  <IpAcPolicys>
    <IpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <KeepAlive></KeepAlive>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
```

```
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </AccessRoute>
    <DNSServer>
      <Primary></Primary>
      <Secondary></Secondary>
    </DNSServer>
    <WINSServer>
      <Primary></Primary>
      <Secondary></Secondary>
    </WINSServer>
  </IpAcPolicy>
 </IpAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table
Row name	IpAcPolicy
Restrictions	The IpacPolicys table does not support multiple user groups. The IpacPolicys_v2 table is added to support multiple user groups. The IpacPolicys table is included only for compatibility. No new features will be added to this table. Use the new table IpacPolicys_v2 instead of this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 30 seconds.	
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
AccessRoute	Route issued to the client	Data structure	Members include: • RouteType. • RouteList. • Ipv4Address. • Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 1—Route list. • 2—IPv4 address. • 3—All.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when RouteType is 1.
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Available when RouteType is 2.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	Available when RouteType is 2.
DNSServer	DNS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
WINSServer	WINS server	Data structure	Members include: • Primary. • Secondary.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/IpAcPolicys_v2

This table contains SSL VPN IP access configuration information for policy groups.

XML structure

```
<SSLVPN>
  <IpAcPolicys_v2>
    <IpAcPolicy_v2>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv6AddressPool>
        <Name></Name>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6AddressPool>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </AccessRoute>
      <ForceAll></ForceAll>
      <IPv6AccessRoute>
        <IPv6RouteType></IPv6RouteType>
        <IPv6RouteList></IPv6RouteList>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </IPv6AccessRoute>
      <IPv6ForceAll></IPv6ForceAll>
      <URIACLName></URIACLName>
    </IpAcPolicy_v2>
  </IpAcPolicys_v2>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys_v2
Table type	Multi-instance table
Row name	IpAcPolicy_v2
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IPv4 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
Ipv6AddressPool	Referenced IPv6 address pool	Data structure	Members include: • Name. • Ipv6PrefixLength.	N/A
Name	SSL VPN IPv6 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6PrefixLength	SSL VPN IPv6 address pool	N/A	Unsigned integer. Value range: 1 to 127.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefix length			
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	New feature, not compatible with the old table.
AccessRoute	Route issued to the client	Data structure	Members include: • RouteType. • RouteList. • Ipv4Address. • Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 1—Route list. • 2—IPv4 address.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when RouteType is 1.
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Available when RouteType is 2.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	Available when RouteType is 2.
ForceAll	Whether the force all is enabled	N/A	Boolean: • false—Disabled (default). • true—Enabled.	N/A
Ipv6AccessRoute	IPv6 routes issued to the client	Data structure	Members include: • Ipv6RouteType. • Ipv6RouteList. • Ipv6Address. • Ipv6PrefixLength.	N/A
Ipv6RouteType	The way how the IPv6 routes are specified	N/A	Enumeration: • 1—Ipv6RouteList. • 2—Ipv6Address.	N/A
Ipv6RouteList	SSL VPN IPv6 route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when Ipv6RouteType is 1.
Ipv6Address	Destination IPv6 address of the route	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Available when Ipv6RouteType is 2.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 0 to 128.	Available when Ipv6RouteType is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6ForceAll	Whether the IPv6 force-all feature is enabled	N/A	Boolean: • false—Disabled (default). • true—Enabled.	N/A
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	New feature, not compatible with the old table.

SSLVPN/URIACLs

This table contains SSL VPN URI ACL configuration information.

XML structure

```
<SSLVPN>
  <URIACLs>
    <URIACL>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
    </URIACL>
  </URIACLs>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLs
Table type	Multi-instance table
Row name	URIACL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

Column name	Column description	Column type	Data type and restrictions
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/URIACLItems

This table contains SSL VPN URI ACL entry configuration information.

XML structure

```
<SSLVPN>
  <URIACLItems>
    <URIACLItem>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
      <RuleNumber></RuleNumber>
      <Action></Action>
      <Pattern></Pattern>
    </URIACLItem>
  </URIACLItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLItems
Table type	Multi-instance table
Row name	URIACLItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

Column name	Column description	Column type	Data type and restrictions
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RuleNumber	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Action	Action	N/A	Unsigned integer. Value range: 1 to 2. • **1**—Permit. • **2**—Deny.
Pattern	Rule pattern	N/A	String, case insensitive. Length: 1 to 256 characters.

SSLVPN/WebAcPolicys

This table contains SSL VPN Web access configuration information for policy groups.

XML structure

```
<SSLVPN>
  <WebAcPolicys>
    <WebAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <URIACLName></URIACLName>
    </WebAcPolicy>
  </WebAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcPolicys
Table type	Multi-instance table
Row name	WebAcPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

SSLVPN/UrlLists

This table contains SSL VPN URL list configuration information.

XML structure

```
<SSLVPN>
  <UrlLists>
    <UrlList>
      <ContextName></ContextName>
      <ListName></ListName>
      <Heading></Heading>
    </UrlList>
  </UrlLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlLists
Table type	Multi-instance table

Row name	UrlList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Heading	SSL VPN URL list heading	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlItems

This table contains SSL VPN URL entry configuration information.

XML structure

```
<SSLVPN>
  <UrlItems>
    <UrlItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <UrlName></UrlName>
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
    </UrlItem>
  </UrlItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItems

Table type	Multi-instance table
Row name	UrlItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
UrlName	URL name	Index	String, case insensitive. Length: 1 to 31 characters.
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. the string can contain only letters, digits, and underscores(_).

SSLVPN/UrlCtxItems

This table contains SSL VPN URL item configuration information.

XML structure

```
<SSLVPN>
  <UrlCtxItems>
    <UrlCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <UrlMapping>
        <MappingType></MappingType>
        <Domain></Domain>
        <GatewayName></GatewayName>
        <VirtualHost></VirtualHost>
        <Rewrite></Rewrite>
      </UrlMapping>
```

```
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
      <UrlMasking></UrlMasking>
      <SSO>
        <Method></Method>
        <AutoBuildReqMethod></AutoBuildReqMethod>
        <AutoBuildCode></AutoBuildCode>
        <BasicCustom></BasicCustom>
        <AutoBuildEncryptFile></AutoBuildEncryptFile>
      </SSO>
    </UrlCtxItem>
  </UrlCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlCtxItems
Table type	Multi-instance table
Row name	UrlCtxItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
UrlMapping	URL mapping	Data structure	Members include: • MappingType. • Domain. • GatewayName. • VirtualHost. • Rewrite.	N/A
MappingType	URL mapping type	N/A	Enumeration: • 1—domain mapping. • 2—port mapping.	N/A
Domain	Domain name	N/A	String, case insensitive.	N/A

	specified for the domain mapping		Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	
GatewayName	Gateway name specified for the port mapping	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VirtualHost	Virtual host name specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
Rewrite	Whether absolute URL rewriting is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.	N/A
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores(_).	N/A
UrlMasking	Whether URL masking is enabled for the URL item	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
SSO	SSO configuration	Data structure	Members include: • Method. • AutoBuildReqMethod. • AutoBuildCode. • BasicCustom. AutoBuildEncryptFile.	N/A
Method	SSO method	N/A	Enumeration: • 1—basic. 2—auto-build.	N/A
AutoBuildReqMethod	Auto-build mode login request method	N/A	Enumeration: • 0—GET (default). 1—POST.	N/A
AutoBuildCode	Auto-build mode parameter encoding	N/A	Enumeration: • 0—UTF-8 (default). 1—GB18030.	N/A
BasicCustom	Enable basic mode to use custom login parameters	N/A	Boolean: • true—Enabled. false—Disabled (default).	N/A
AutoBuildEncryptFile	Auto-build mode parameter	N/A	String, case insensitive.	N/A

	encryption file		Length: 0 to 255 characters.	

SSLVPN/UrlItemResources

This table contains SSL VPN URL item resource configuration information.

XML structure

```
<SSLVPN>
  <UrlItemResources>
    <UrlItemResource>
      <ContextName></ContextName>
      <UrlListName></UrlListName>
      <ItemName></ItemName>
    </UrlItemResource>
  </UrlItemResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItemResources
Table type	Multi-instance table
Row name	UrlItemResource
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UrlListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

SSLVPN/SnatPools

This table contains SSL VPN SNAT pool configuration information.

XML structure

```
<SSLVPN>
  <SnatPools>
    <SnatPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Type></Type>
      <VrrpId></VrrpId>
    </SnatPool>
  </SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatPools
Table type	Multi-instance table
Row name	SnatPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv4AddressStart	Start IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the SNAT pool	N/A	Enumeration: • 0—addr-split (default). • 1—port-split	The virtual system supports only port splitting. Once created, this column cannot be edited.
VrrpId	VRRP group number	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SSLVPN/Ipv6SnatPools

This table contains SSL VPN Ipv6 SNAT pool configuration information.

XML structure

```
<SSLVPN>
  <Ipv6SnatPools>
    <Ipv6SnatPool>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <Type></Type>
    </Ipv6SnatPool>
  </Ipv6SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6SnatPools
Table type	Multi-instance table
Row name	Ipv6SnatPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string can contain only letters, digits, and underscores (_).	
Ipv6AddressStart	Start IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv6AddressEnd	End IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1.
Type	Type of the SNAT pool	N/A	Enumeration: • 0—addr-split (default). • 1—port-split	The virtual system supports only port splitting. Once created, this column cannot be edited.

SSLVPN/UrlResources

This table contains SSL VPN URL resource configuration information.

XML structure

```
<SSLVPN>
  <UrlResources>
    <UrlResource>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ListName></ListName>
    </UrlResource>
  </UrlResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlResources
Table type	Multi-instance table
Row name	UrlResource
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/SnatResources

This table contains SSL VPN SNAT resource configuration information.

XML structure

```
<SSLVPN>
  <SnatResources>
    <SnatResource>
      <ContextName></ContextName>
      <SnatPoolName></SnatPoolName>
    </SnatResource>
  </SnatResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatResources
Table type	Multi-instance table
Row name	SnatResource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SnatPoolName	SSL VPN SNAT pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UserControls

This table contains SSL VPN user control configuration information.

XML structure

```
<SSLVPN>
  <UserControls>
    <UserControl>
      <ContextName></ContextName>
      <MaxOnlineNum></MaxOnlineNum>
      <ForceLogout></ForceLogout>
      <SessionConnectionNum></SessionConnectionNum>
      <RateLimit>
         <RateLimitUp></RateLimitUp>
         <RateLimitDown></RateLimitDown>
      </RateLimit>
      <VerifyCodeAutoEnable>
        <Enable></Enable>
        <FailedTimes></FailedTimes>
      </VerifyCodeAutoEnable>
      <SameIpUser>
        <Enable></Enable>
        <FailedTimes></FailedTimes>
        <FreezeTime></FreezeTime>
      </SameIpUser>
    </UserControl>
  </UserControls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UserControls
Table type	Multi-instance table
Row name	UserControl
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
MaxOnlineNum	Maximum online number of each SSL VPN user for the context	N/A	Unsigned integer. Value range: 0 to 1048575. Default: 32.	If the maxOnlineNum is 0, the context doesn't control the maximum online number of each SSL VPN user.
ForceLogout	Whether the force logout is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
SessionConnectionNum	Maximum number of connections for each session	N/A	Unsigned integer. Value range: 0, 10 to 1000. Default: 64.	If the MaxSessionConnNum is 0, the context doesn't control the maximum number of connections for each session.
RateLimit	Bandwidth rate limit	Data structure	Members include: • RateLimitUp. • RateLimitDown	N/A
RateLimitUp	Upstream rate limit	N/A	Unsigned integer. Value range: 1000 to 100000000, in kbps.	N/A
RateLimitDown	Downstream rate limit	N/A	Unsigned integer. Value range: 1000 to 100000000, in kbps.	N/A
VerifyCodeAutoEnable	Perform code verifiction to prevent login cracking	Data structure	Member include: • Enable. • FailedTimes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable code verification for cracking prevention	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
FailedTimes	Max number of login failures allowed before performing code verification	N/A	Unsigned integer. Value range:1 to 63. Default:5.	N/A
SameIpUser	Freeze the IP address to prevent login cracking	Data structure	Member include: • Enable. • FailedTimes. • FreezeTime.	N/A
Enable	Enable IP address freezing for cracking prevention	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
FailedTimes	Max number of login failures allowed before freezing the IP address	N/A	Unsigned integer. Value range: 64 to 2048. Default: 64.	N/A
FreezeTime	Period of time to freeze the IP address	N/A	Unsigned integer. Value range: 30 to 1800, in seconds. Default: 30.	N/A

SSLVPN/GlobalLog

This table contains SSL VPN global log configuration information.

XML structure

```
<SSLVPN>
  <GlobalLog>
    <GlobalLogEnable></GlobalLogEnable>
  </GlobalLog>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalLog
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLogEnable	Whether the global log is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/PortForwardCtxItems

This table contains SSL VPN port forwarding items control configuration information.

XML structure

```
<SSLVPN>
  <PortForwardCtxItems>
    <PortForwardCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
      <Execution></Execution>
    </PortForwardCtxItem>
  </PortForwardCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardCtxItems
Table type	Multi-instance table
Row name	PortForwardCtxItem
Restrictions	None
Support for row creation and	Yes

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	N/A	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.
Execution	Configure the script to execute for the port forwarding item	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/PortForwardItemResources

This table contains SSL VPN port forwarding item resource configuration information.

XML structure

```
<SSLVPN>
  <PortForwardItemResources>
    <PortForwardItemResource>
      <ContextName></ContextName>
```

```
      <PortForwardName></PortForwardName>
      <ItemName></ItemName>
    </PortForwardItemResource>
  </PortForwardItemResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItemResource
Table type	Multi-instance table
Row name	PortForwardItemResourc
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PortForwardName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Shortcuts

This table contains SSL VPN short cut configuration information.

XML structure

```
<SSLVPN>
  <Shortcuts>
    <Shortcut>
      <ContextName></ContextName>
```

```
      <ShortcutName></ShortcutName>
      <Description></Description>
      <Execution></Execution>
    </Shortcut>
  </Shortcuts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Shortcuts
Table type	Multi-instance table
Row name	Shortcut
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Context Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Shortcut Name	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.	N/A
Execution	Configure the script to execute for the shortcut	N/A	String, case insensitive. Length: 1 to 255 characters.	Example: if choose resource-link,shoulde be url(‘http://www.baidu.com’).If choose application resource,should be app(‘C:\Windows\System32\notepad.exe’).

SSLVPN/ShortcutLists

This table contains SSL VPN short cut list configuration information.

XML structure

```
<SSLVPN>
  <ShortcutLists>
    <ShortcutList>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
    </ShortcutList>
  </ShortcutLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutLists
Table type	Multi-instance table
Row name	ShortcutList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutResources

This table contains SSL VPN short cut list resource configuration information.

XML structure

```
<SSLVPN>
  <ShortcutResources>
    <ShortcutResource>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
      <ShortcutName></ShortcutName>
    </ShortcutResource>
  </ShortcutResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutRefers
Table type	Multi-instance table
Row name	ShortcutRefer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutPolicys

This table contains SSL VPN short cut information for policy groups.

XML structure

```
<SSLVPN>
  <ShortcutPolicys>
    <ShortcutPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ShortcutListName></ShortcutListName>
    </ShortcutPolicy>
  </ShortcutPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutPolicys
Table type	Multi-instance table
Row name	ShortcutPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutListName	SSL VPN short cut list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Users

This table contains SSL VPN user bind address information.

XML structure

```
<SSLVPN>
  <Users>
    <User>
      <ContextName></ContextName>
      <UserName></UserName>
      <BindAddress></BindAddress>
      <AutoBindAddressNum></AutoBindAddressNum>
      <BindIPv6Address></BindIPv6Address>
      <AutoBindIPv6AddressNum></AutoBindIPv6AddressNum>
      <AllowChangePWD></AllowChangePWD>
      <MobileNumber></MobileNumber>
    </User>
  </Users>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UserName	SSLVPN user name	Index	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
BindAddress	IP address list	N/A	String, dotted decimal notation.	Example: 10.1.1.5,10.1.1.10-10.1.1.20
AutoBindAddr	Automatically	N/A	Unsigned integer.	This column is not

Column name	Column description	Column type	Data type and restrictions	Remarks
essNum	allocate available IP addresses to the user		Value range: 1 to 10	displayed by the GET operation
BindIPv6Address	List of IPv6 addresses to be bound to the user	N/A	Hexadecimal string, colon-separated. Length: 1 to 459 characters.	Example: 1234::1,1234::10-1234::20
AutoBindIPv6AddressNum	Number of IPv6 addresses that the device will automatically bind to the user	N/A	Unsigned integer. Value range: 1 to 10	This column cannot be displayed by the GET operation
AllowChangePWD	Allow the specified user to change password	N/A	Boolean: • true—Enabled (default). • false—Disabled.	N/A
MobileNumber	Mobile number to be bound to the user	N/A	String. Length: 1 to 31 characters. The string can contain only digits.	N/A

SSLVPN/CustomAuthRequests

This table contains SSL VPN custom authentication request information.

XML structure

```
<SSLVPN>
  <CustomAuthRequests>
    <CustomAuthRequest>
      <ContextName></ContextName>
      <Timeout></Timeout>
      <URL></URL>
      <Method></Method>
      <Template></Template>
    </CustomAuthRequest>
  </CustomAuthRequests>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRequests
Table type	Multi-instance table

Row name	CustomAuthRequest
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Timeout	Custom auth request timeout	N/A	Unsigned integer. Value range: 5 to 60 seconds. Default value is 15 seconds.	N/A
URL	URL string	N/A	String, case insensitive. Length: 1 to 255 characters.	Example: http://192.168.55.1:80/path
Method	Request method	N/A	Enumeration: • 0—GET • 1—POST	N/A
Template	Request template	N/A	String, case sensitive. Length: 1 to 255 characters.	Example: username=$$USERNAME$$&password=$$ENCODE_MD5:PASSWORD$$&resid=1234

SSLVPN/CustomAuthReqHeaders

This table contains information about SSL VPN custom authentication request headers.

XML structure

```
<SSLVPN>
  <CustomAuthReqHeaders>
    <CustomAuthReqHeader>
      <ContextName></ContextName>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
    </CustomAuthReqHeader>
  </CustomAuthReqHeaders>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthReqHeaders
Table type	Multi-instance table
Row name	CustomAuthReqHeader
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
HeaderName	Request header field name	Index	String, case insensitive. Length: 1 to 63 characters. Invalid characters are \t \r \n ? ( ) < > @ , ; : \ “ / [ ] = { } SP and the ASCII characters which greater than 127 and less than or equal to 31.
HeaderValue	Request header field value	N/A	String. Length: 1 to 255 characters. Invalid characters are ?.

SSLVPN/CustomAuthResponses

This table contains information about the content types of response packets from the custom authentication server.

XML structure

```
<SSLVPN>
  <CustomAuthResponses>
    <CustomAuthResponse>
      <ContextName></ContextName>
      <Type></Type>
      <SuccessValue></SuccessValue>
    </CustomAuthResponse>
  </CustomAuthResponses>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthResponses
Table type	Multi-instance table
Row name	CustomAuthResponse
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Type	Content type of custom authentication response packets	N/A	Enumeration: • 0—JSON • **1**—XML • 2—Custom
SuccessValue	Value that represents successful authentication	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/CustomAuthRespFields

This table contains information about the primary fields of the response packets from the custom authentication server.

XML structure

```
<SSLVPN>
  <CustomAuthRespFields>
    <CustomAuthRespField>
      <ContextName></ContextName>
      <ResultField></ResultField>
      <GroupField></GroupField>
      <MessageField></MessageField>
    </CustomAuthRespField>
  </CustomAuthRespFields>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRespFields
Table type	Multi-instance table
Row name	CustomAuthRespField
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ResultField	AName of authentication result field	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: success.
GroupField	Name of user group field	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	This field indicates which group the user belongs to. Example: company.
MessageField	Name of authentication result description field	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: description.

SSLVPN/CustomAuthRespTemplates

This table contains information about the field-value pair templates for the primary fields of the custom authentication responses.

XML structure

```
<SSLVPN>
  <CustomAuthRespTemplates>
```

```
    <CustomAuthRespTemplate>
      <ContextName></ContextName>
      <ResultTemplate></ResultTemplate>
      <GroupTemplate></GroupTemplate>
      <MessageTemplate></MessageTemplate>
    </CustomAuthRespTemplate>
  </CustomAuthRespTemplates>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRespTemplates
Table type	Multi-instance table
Row name	CustomAuthRespTemplate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ResultTemplate	Authentication result field-value pair template	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: success=$$value$$
GroupTemplate	User group field-value pair template	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: company=$$value$$
MessageTemplate	Authentication result description field-value pair template	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: description=$$value$$

SSLVPN/WebAcContexts

This table contains SSL VPN Web access configuration for contexts.

XML structure

```
<SSLVPN>
  <WebAcContexts>
    <WebAcContext>
      <ContextName></ContextName>
      <UrlMasking></UrlMasking>
    </WebAcContext>
  </WebAcContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcContexts
Table type	Multi-instance table
Row name	WebAcContext
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UrlMasking	Whether URL masking is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/SmsAuthSmsGws

This table contains configuration information for SMS gateway authentication.

XML structure

```
<SSLVPN>
  <SmsAuthSmsGws>
    <SmsAuthSmsGw>
      <ContextName></ContextName>
      <SmsGwName></SmsGwName>
      <AllowSelfBindMobileNum></AllowSelfBindMobileNum>
      <SmsSendInterval></SmsSendInterval>
      <ValidTime></ValidTime>
      <CountryCode></CountryCode>
      <SmsContent></SmsContent>
    </SmsAuthSmsGw>
  </SmsAuthSmsGws>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SmsAuthSmsGws
Table type	Multi-instance table
Row name	SmsAuthSmsGw
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SmsGwName	SMS gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
AllowSelfBind MobileNum	Allow user to bind a mobile number if the number is not bound to a user	N/A	Boolean: • true—Enabled. • false—Disabled (default).
SmsSendInte rval	SMS sending interval	N/A	Unsigned integer. Value range: 0 to 3600, in seconds.

Column name	Column description	Column type	Data type and restrictions
			Default: 60 seconds.
ValidTime	Verification code validity time period	N/A	Unsigned integer. Value range: 1 to 1440, in minutes. Default: 1 minute.
CountryCode	Country code	N/A	String. Length: 1 to 7 characters. The string can contain only digits. Default: “86”.
SmsContent	SMS content	N/A	String. Length: 1 to 127 characters. The value can contain Chinese characters. Default: "Hello, $$USER$$. The login verification code is $$VERIFYCODE$$ and is valid for $$VALIDTIME$$ minutes."

SSLVPN/SmsAuthSettings

This table contains configuration information for SMS authentication.

XML structure

```
<SSLVPN>
  <SmsAuthSettings>
    <SmsAuthSetting>
      <ContextName></ContextName>
      <SmsAuthType></SmsAuthType>
    </SmsAuthSetting>
  </SmsAuthSettings>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SmsAuthSettings
Table type	Multi-instance table
Row name	SmsAuthSetting
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SmsAuthType	Type of SMS authentication	N/A	Enumeration: • 0—IMC. • 1—SMS gateway.

SSLVPN/SSOAutoBuildParams

This table contains login parameter information for SSL VPN user Web access using SSO auto-build mode.

XML structure

```
<SSLVPN>
  <SSOAutoBuildParams>
    <SSOAutoBuildParam>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <Type></Type>
      <Name></Name>
      <Value></Value>
      <Encrypt></Encrypt>
    </SSOAutoBuildParam>
  </SSOAutoBuildParams>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SSOAutoBuildParams
Table type	Multi-instance table
Row name	SSOAutoBuildParam
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
Type	Auto-build mode login parameter type	Index	Enumeration: • 1—login-name. • 2—login-password • 3—cert-title. • 4—cert-serial. • 5—cert-fingerprint. • 6—phone-num. • 7—user-group. • 8—custom-username. • 9—custom-password. • 10—custom.	N/A
Name	Auto-build mode attribute name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Value	Auto-build mode attribute value	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
Encrypt	Auto-build mode attribute value encryption	N/A	Boolean: • true—Encrypt. • false—Not to encrypt (default).	N/A

SSLVPN/WeChatWorkAuths

This table contains WeChat Work authentication information.

XML structure

```
<SSLVPN>
  <WeChatWorkAuths>
    <WeChatWorkAuth>
      <ContextName></ContextName>
      <WeChatEnable></WeChatEnable>
      <URL></URL>
      <TimeOut></TimeOut>
      <CorpId></CorpId>
      <AppSecret></AppSecret>
```

```
      <UserIdField></UserIdField>
      <AuthorizeField></AuthorizeField>
      <OpenUrlEnable></OpenUrlEnable>
      <OpenUrlType></OpenUrlType>
      <OpenUrlValue></OpenUrlValue>
    </WeChatWorkAuth>
  </WeChatWorkAuths>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WeChatWorkAuths
Table type	Multi-instance table
Row name	WeChatWorkAuth
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
WeChatEnable	Whether the WeChat Work authentication is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
URL	WeChat Work authentication URL	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
TimeOut	WeChat Work authentication timeout time	N/A	Unsigned integer. Value range: 5 to 50, in seconds. Default: 15 seconds.	N/A
CorpId	Enterprise ID	N/A	String. Length: 1 to 63 characters.	N/A
AppSecret	Application secret key	N/A	String. Length: 1 to 127 characters.	N/A
UserIdField	User ID field	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 63 characters.	
AuthorizeField	Authorization policy group field name	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
OpenUrlEnable	Whether the WeChat open platform is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A
OpenUrlType	Type of the WeChat open platform URL	N/A	Enumeration: • 0—Predefined. • 1—User defined.	N/A
OpenUrlValue	WeChat open platform URL	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A

SSLVPN/UiReplyMsgs

This table contains information about customizations for server reply messages.

XML structure

```
<SSLVPN>
  <UiReplyMsgs>
    <UiReplyMsg>
      <ContextName></ContextName>
      <ServerReplyMsg></ServerReplyMsg>
      <SelfDefineReplyMsg>
        <English></English>
        <Chinese></Chinese>
      </SelfDefineReplyMsg>
    </UiReplyMsg>
  </UiReplyMsgs>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UiReplyMsgs
Table type	Multi-instance table
Row name	UiReplyMsg
Restrictions	None
Support for row creation and	No

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ServerReplyMsg	Server reply message	Index	String. Length: 1 to 127 characters.
SelfDefineReplyMsg	Customize the server reply message	Data structure	Member include: • English. • Chinese.
English	Customized server reply message in English	N/A	String. Length: 1 to 127 characters.
Chinese	Customized server reply message in Chinese	N/A	String. Length: 1 to 127 characters.

SSLVPN/GlobalFlowRedirect

This table contains SSL VPN flow redirect configuration information.

XML structure

```
<SSLVPN>
  <GlobalFlowRedirect>
    <GlobalFlowRedirectEnable></GlobalFlowRedirectEnable>
  </GlobalFlowRedirect>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalFlowRedirect
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalFlowRedirectEnable	Whether the global flow redirect is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

SSLVPN/Quantum

This table contains SSL VPN quantum cipher service configuration.

XML structure

```
<SSLVPN>
  <Quantum>
    <CspId></CspId>
    <EcmId></EcmId>
    <ServiceIP></ServiceIP>
    <ServicePort></ServicePort>
    <AppId></AppId>
  </Quantum>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Quantum
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CspId	Cipher service platform ID	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
EcmId	Exchange cipher	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	machine ID			
ServiceIP	IPv4 address of exchange cipher machine	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ServicePort	Port number of exchange cipher machine	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
AppId	Application ID	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A

SSLVPN/ContextRoles

This table contains SSL VPN user role configuration.

XML structure

```
<SSLVPN>
  <ContextRoles>
    <ContextRole>
      <ContextName></ContextName>
      <RoleName></RoleName>
      <PolicyName></PolicyName>
      <AccessEnable></AccessEnable>
      <ContextRole>
  </ContextRoles>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextRoles
Table type	Multi-instance table
Row name	ContextRole
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RoleName	User role name.	Index	String, case insensitive. Length: 1 to 63 characters.
PolicyName	SSL VPN policy group name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
AccessEnable	Whether user role-based authorization is enabled	N/A	Unsigned integer. Value range: 0 to 7. Default: 0 Bit0: • 0—IP access can be authorized based on user roles. • 1—IP access cannot be authorized based on user roles. Bit1: • 0—Web access can be authorized based on user roles. • 1—Web access cannot be authorized based on user roles. Bit2: • 0—TCP access can be authorized based on user roles. • 1—TCP access cannot be authorized based on user roles.

SSLVPN/ClientDownloads

This table customizes the download path of SSL VPN IP access clients.

XML structure

```
<SSLVPN>
  <ClientDownloads>
    <ClientDownload>
      <ClientPlatform></ClientPlatform>
      <DownloadType></DownloadType>
      <URL></URL>
    </ClientDownload>
```

```
  </ClientDownloads>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClientDownloads
Table type	Multi-instance table
Row name	ClientDownload
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientPlatform	Platform of client	Index	Enumeration: • 1—Windows. • 2—Mac. • 3—Common Linux-X86 • 4—Common Linux-ARM • 5—Common Linux-MIPS • 6—Common Linux-Loongarch • 7—Kylin Linux-X86 • 8—Kylin Linux-ARM • 9—Kylin Linux-MIPS • 10—Kylin Linux-Loongarch • 11—UOS Linux-X86 • 12—UOS Linux-ARM • 13—UOS Linux-MIPS • 14—UOS	N/A

			Linux-Loongarch	
DownloadType	Client download method	N/A	Enumeration: • 1—Local (default for the Windows platform when the device is installed with IP client). • 2—Official (default for other platforms). • 3—Custom URL. Option **Local** is available only for the Windows platform.	N/A
URL	URL string, available only when the DownloadType is 3	N/A	String, case insensitive. Length: 1 to 255 characters.	Example: https://inode.h3c.com/download

Contents

SSLVPN 1

SSLVPN/Gateways 1
XML structure 1
Table description 1
Columns 1
SSLVPN/Contexts 3
XML structure 3
Table description 3
Columns 4
SSLVPN/Contexts_v2 5
XML structure 5
Table description 6
Columns 7
SSLVPN/ContextGateways 10
XML structure 10
Table description 10
Columns 10
SSLVPN/IpAcContexts 11
XML structure 11
Table description 12
Columns 12
SSLVPN/UISettings 14
XML structure 14
Table description 16
Columns 16
SSLVPN/PortForwardLists 19
XML structure 19
Table description 19
Columns 20
SSLVPN/PortForwardItems 20
XML structure 20
Table description 20
Columns 21
SSLVPN/Ipv4AddressPools 21
XML structure 21
Table description 22
Columns 22
SSLVPN/RouteLists 22
XML structure 22
Table description 23
Columns 23
SSLVPN/RouteItems 23
XML structure 23
Table description 24
Columns 24
SSLVPN/Ipv6AddressPools 24
XML structure 24
Table description 25
Columns 25
SSLVPN/Ipv6RouteLists 25
XML structure 25
Table description 26
Columns 26
SSLVPN/Ipv6RouteItems 26
XML structure 26
Table description 26
Columns 27

SSLVPN/PolicyGroups 27
XML structure 27
Table description 28
Columns 28
SSLVPN/TcpAcPolicys 28
XML structure 28
Table description 29
Columns 29
SSLVPN/IpAcPolicys 30
XML structure 30
Table description 30
Columns 31
SSLVPN/IpAcPolicys_v2 32
XML structure 32
Table description 33
Columns 33
SSLVPN/Sessions 35
XML structure 35
Table description 36
Columns 36
SSLVPN/ContextStatistics 38
XML structure 38
Table description 38
Columns 39
SSLVPN/URIACLs 39
XML structure 39
Table description 40
Columns 40
SSLVPN/URIACLItems 40
XML structure 40
Table description 41
Columns 41
SSLVPN/WebAcPolicys 41
XML structure 41
Table description 42
Columns 42
SSLVPN/UrlLists 42
XML structure 42
Table description 43
Columns 43
SSLVPN/UrlItems 43
XML structure 43
Table description 44
Columns 44
SSLVPN/UrlCtxItems 44
XML structure 45
Table description 45
Columns 45
SSLVPN/UrlItemResources 47
XML structure 47
Table description 47
Columns 47
SSLVPN/SnatPools 48
XML structure 48
Table description 48
Columns 48
SSLVPN/Ipv6SnatPools 49
XML structure 49
Table description 49
Columns 50
SSLVPN/UrlResources 50
XML structure 50

Table description 50
Columns 51
SSLVPN/SnatResources 51
XML structure 51
Table description 51
Columns 52
SSLVPN/UserControls 52
XML structure 52
Table description 53
Columns 53
SSLVPN/Specification 54
XML structure 54
Table description 54
Columns 55
SSLVPN/GlobalLog 55
XML structure 55
Table description 55
Columns 55
SSLVPN/IpAcStatistics 55
XML structure 55
Table description 56
Columns 56
SSLVPN/IpAcContextStatistics 58
XML structure 58
Table description 58
Columns 58
SSLVPN/PortForwardCtxItems 59
XML structure 59
Table description 59
Columns 60
SSLVPN/PortForwardItemResources 60
XML structure 60
Table description 61
Columns 61
SSLVPN/Shortcuts 61
XML structure 61
Table description 62
Columns 62
SSLVPN/ShortcutLists 62
XML structure 62
Table description 63
Columns 63
SSLVPN/ShortcutResources 63
XML structure 63
Table description 64
Columns 64
SSLVPN/ShortcutPolicys 64
XML structure 64
Table description 65
Columns 65
SSLVPN/Users 65
XML structure 65
Table description 66
Columns 66
SSLVPN/GlobalCustomInfos 67
XML structure 67
Table description 67
Columns 67
SSLVPN/CustomAuthRequests 67
XML structure 67
Table description 68
Columns 68

SSLVPN/CustomAuthReqHeaders ····· 68
XML structure ····· 69
Table description ····· 69
Columns ····· 69
SSLVPN/CustomAuthResponses ····· 69
XML structure ····· 69
Table description ····· 70
Columns ····· 70
SSLVPN/CustomAuthRespFields ····· 70
XML structure ····· 70
Table description ····· 71
Columns ····· 71
SSLVPN/CustomAuthRespTemplates ····· 71
XML structure ····· 72
Table description ····· 72
Columns ····· 72
SSLVPN/GlobalUISetting ····· 73
XML structure ····· 73
Table description ····· 73
Columns ····· 73
SSLVPN/UITemplates ····· 73
XML structure ····· 73
Table description ····· 74
Columns ····· 74
SSLVPN/WebAcContexts ····· 74
XML structure ····· 75
Table description ····· 75
Columns ····· 75
SSLVPN/FrozenIPInfos ····· 75
XML structure ····· 75
Table description ····· 76
Columns ····· 76
SSLVPN/UserNumberInfo ····· 76
XML structure ····· 76
Table description ····· 77
Columns ····· 77
SSLVPN/SmsAuthSmsGws ····· 77
XML structure ····· 77
Table description ····· 78
Columns ····· 78
SSLVPN/SmsAuthSettings ····· 78
XML structure ····· 79
Table description ····· 79
Columns ····· 79
SSLVPN/SSOAutoBuildParams ····· 79
XML structure ····· 79
Table description ····· 80
Columns ····· 80
SSLVPN/WeChatWorkAuths ····· 81
XML structure ····· 81
Table description ····· 81
Columns ····· 81
SSLVPN/UiReplyMsgs ····· 82
XML structure ····· 82
Table description ····· 83
Columns ····· 83
SSLVPN/GlobalFlowRedirect ····· 83
XML structure ····· 84
Table description ····· 84
Columns ····· 84
SSLVPN/Quantum ····· 84
XML structure ····· 84

Table description ····· 85
Columns ····· 85
SSLVPN/ContextRoles ····· 85
XML structure ····· 85
Table description ····· 86
Columns ····· 86
SSLVPN/ClientDownloads ····· 87
XML structure ····· 87
Table description ····· 87
Columns ····· 87

SSLVPN

SSLVPN/Gateways

This table contains SSL VPN gateway information.

XML structure

```
<SSLVPN>
  <Gateways>
    <Gateway>
      <Name></Name>
      <AddressType></AddressType>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <VRF></VRF>
      <SSLServerPolicy></SSLServerPolicy>
      <HTTPRedirect></HTTPRedirect>
      <RedirectPort></RedirectPort>
      <Enable></Enable>
      <OperStatus></OperStatus>
      <DownReason></DownReason>
      <QuantumEnable></QuantumEnable>
    </Gateway>
  </Gateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Gateways
Table type	Multi-instance table
Row name	Gateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN gateway name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string can contain only letters, digits, and underscores (_).	
AddressType	Whether the SSL VPN gateway address is an IPv6 address	N/A	Boolean: • false—IPv4. • true—IPv6.	N/A
Ipv4Address	IPv4 address of the SSL VPN gateway	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address of the SSL VPN gateway	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
PortNumber	Port number of the SSL VPN gateway	N/A	Unsigned integer. Value range: 443, 1025 to 65535.	N/A
VRF	Name of the VRF instance associated with the SSL VPN gateway	N/A	String. Length: 0 to 31 characters.	If the gateway is on the public network, the length of characters is 0.
SSLServerPolicy	Name of the SSL server policy used by the SSL VPN gateway	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
HTTPRedirect	Whether HTTP traffic is redirected	N/A	Boolean: • true—Redirected. • false—Not redirected.	N/A
RedirectPort	Port number of the redirected HTTP traffic	N/A	Unsigned integer. Value range: 80, 1025 to 65535.	N/A
Enable	Whether the SSL VPN gateway is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
OperStatus	SSL VPN gateway operation status	N/A	Enumeration: • 1—up. • 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN gateway is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN gateway operation status is down.
QuantumEnable	Whether the quantum cipher service is enabled	N/A	Boolean:	QuantumEnable

SSLVPN/Contexts

This table contains SSL VPN context information.

XML structure

```
<SSLVPN>
  <Contexts>
    <Context>
      <Name></Name>
      <Gateway>
        <Name></Name>
        <AccessType></AccessType>
        <Domain></Domain>
        <VirtualHost></VirtualHost>
      </Gateway>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
      <IdleTimeout></IdleTimeout>
      <AAADomain></AAADomain>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <DefaultPolicyGroup></DefaultPolicyGroup>
      <Enable></Enable>
      <OperStatus></OperStatus>
      <DownReason></DownReason>
    </Context>
  </Contexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The Contexts table does not support multiple links. Tables ContextGateways and contexts_v2 are added to support multiple links, and new features are added in the these two tables. The Contexts table is included only for compatibility. No new features will be added to this table. Use new tables ContextGateways and contexts_v2 instead of this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Gateway	Associated gateway	Data structure	Members include: • Name. • AccessType. • Domain. • VirtualHost.	N/A
Name	Associated gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: • 1—domain. • 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ | " : * ? < > @ The string cannot be any of the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			following values: d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	
EMOServer	EMO server	Data structure	Members include: • Address. • PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
OperStatus	SSL VPN context operation status	N/A	Enumeration: • 1—up. • 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN context is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN context operation status is down.

SSLVPN/Contexts_v2

This table contains SSL VPN context information.

XML structure

```
<SSLVPN>
  <Contexts_v2>
    <Context_v2>
      <Name></Name>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
```

```
      <IdleTimeout></IdleTimeout>
      <AAADomain></AAADomain>
      <AuthServerType></AuthServerType>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <MessageServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </MessageServer>
      <SmsImcServer>
        <AddressType></AddressType>
        <Address></Address>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </SmsImcServer>
      <SmsImc></SmsImc>
      <SelfImcServer>
        <AddressType></AddressType>
        <Address></Address>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </SelfImcServer>
      <DefaultPolicyGroup></DefaultPolicyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <AllowChangePWD></AllowChangePWD>
      <Enable></Enable>
      <OperStatus></OperStatus>
      <DownReason></DownReason>
    </Context_v2>
  </Contexts_v2>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts_v2
Table type	Multi-instance table
Row name	Context_v2
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ | " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A
AuthServerType	Authentication server type	N/A	Enumeration: • 0—AAA • 1—Custom	N/A
EMOServer	EMO server	Data structure	Members include: • Address. • PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
MessageServer	Message server	Data structure	Members include: • Address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• PortNumber.	
Address	IPv4 address or host name of the Message server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the Message server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
SmsImcServer	Short Message Service of IMC server	Data structure	Members include: • AddressType • Address. • Ipv6Address • PortNumber. • VRF	New feature, not compatible with the old table.
AddressType	Type of the IP address	N/A	Enumeration: • 1—IPv4. • 2—IPv6	N/A
Address	IPv4 address or host name of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table. Available when AddressType is 1. Example: 1.1.1.1.
Ipv6Address	IPv6 address of the IMC server	N/A	Hexadecimal string, colon-separated.	Available when AddressType is 2. Example: 1:1::1:1.
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
SmsImc	Whether the SMS-IMC message authentication of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	New feature, not compatible with the old table.
SelfImcServer	User self modify password service of IMC server	Data structure	Members include: • AddressType • Address. • Ipv6Address • PortNumber. • VRF.	New feature, not compatible with the old table.

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Type of the IP address	N/A	Enumeration: • 1—IPv4. • 2—IPv6	N/A
Address	IPv4 address of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table. Available when AddressType is 1. Example: 1.1.1.1.
Ipv6Address	IPv6 address of the IMC server	N/A	Hexadecimal string, colon-separated.	Available when AddressType is 2. Example: 1:1::1:1.
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
DefaultPolicyGroup	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
SSLClientPolicy	Name of the SSL client policy used by the SSL VPN context	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old table.
AllowChangePWD	Whether password changing function for all users of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
OperStatus	SSL VPN context operation status	N/A	Enumeration: • 1—up. • 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN context is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN context operation status is down.

SSLVPN/ContextGateways

This table contains information about the SSL VPN gateway associated with the context.

XML structure

```
<SSLVPN>
  <ContextGateways>
    <ContextGateway>
      <ContextName></ContextName>
      <GatewayName></GatewayName>
      <AccessType></AccessType>
      <Domain></Domain>
      <VirtualHost></VirtualHost>
    </ContextGateway>
  </ContextGateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextGateways
Table type	Multi-instance table
Row name	ContextGateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
GatewayName	Associated gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: • 1—domain. • 2—virtual host.	N/A
Domain	Domain specified for the	N/A	String, case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	associated gateway		Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A

SSLVPN/IpAcContexts

This table contains SSL VPN IP access information for contexts.

XML structure

```
<SSLVPN>
  <IpAcContexts>
    <IpAcContext>
      <ContextName></ContextName>
      <AcIfIndex></AcIfIndex>
      <KeepAlive></KeepAlive>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv6AddressPool>
        <Name></Name>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6AddressPool>
      <DNSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServer>
      <DNSServerIPv6>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServerIPv6>
      <WINSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </WINSServer>
      <ConnCloseLog></ConnCloseLog>
      <PacketDropLog></PacketDropLog>
      <AllocAddressLog></AllocAddressLog>
      <IPClientAutoActive></IPClientAutoActive>
```

```
      <WebResourceAutoPush></WebResourceAutoPush>
      <RateLimitUp>
        <Unit></Unit>
        <Value></Value>
      </RateLimitUp>
      <RateLimitDown>
        <Unit></Unit>
        <Value></Value>
      </RateLimitDown>
    </IpAcContext>
  </IpAcContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContexts
Table type	Multi-instance table
Row name	IpAcContext
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AcIfIndex	Index of the referenced SSL VPN access interface	N/A	Unsigned integer.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds. Default: 30 seconds.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
Ipv6AddressPool	Referenced IPv6 address pool	Data structure	Members include: • Name. • Ipv6PrefixLength.	N/A
Name	SSL VPN IPv6 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6PrefixLength	SSL VPN IPv6 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
DNSServer	DNS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DNSServerIPv6	IPv6 DNS server information	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv6 address of the primary DNS server	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Secondary	IPv6 address of the secondary DNS server	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
WINSServer	WINS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ConnCloseLog	Enabling status of IP access connection close logging.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
PacketDropLog	Enabling status of packet drop	N/A	Boolean: • true—Enabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	logging.		• false—Disabled.	
AllocAddressLog	Enabling status of IP access address allocation logging.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
IPClientAutoActive	Enabling status of automatic startup of the IP access client after Web login.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
WebResourceAutoPush	Enabling status of automatic pushing of accessible resources through Web after IP access client login.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
RateLimitUp	Upstream rate limit	Data structure	Members include: • Unit. • Value.	N/A
Unit	Unit for the rate limit	N/A	Enumeration: • 1—kbps • 2—pps	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A
RateLimitDown	Downstream rate limit	Data structure	Members include: • Unit. • Value.	N/A
Unit	Unit for the rate limit	N/A	Enumeration: • 1—kbps • 2—pps	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A

SSLVPN/UISettings

This table contains SSL VPN context UI information.

XML structure

```
<SSLVPN>
  <UISettings>
    <UISetting>
```

```
      <ContextName></ContextName>
      <VerifyCode></VerifyCode>
      <DPWD></DPWD>
      <DisplayLogo></DisplayLogo>
      <HidePasswordInput></HidePasswordInput>
      <LogoFile></LogoFile>
      <LoginMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginMsg>
      <Title>
        <English></English>
        <Chinese></Chinese>
      </Title>
      <PwdComplexMsg>
        <English></English>
        <Chinese></Chinese>
      </PwdComplexMsg>
      <LoginPageAnnounceMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginPageAnnounceMsg>
      <ResourcePageAnnounceMsg>
        <English></English>
        <Chinese></Chinese>
      </ResourcePageAnnounceMsg>
      <ResourcesFileName>
        <English></English>
        <Chinese></Chinese>
      </ResourcesFileName>
      <CertificateAuthen></CertificateAuthen>
      <CertificateAuthen></CertificateAuthen>
      <CertUserNameAttr></CertUserNameAttr>
      <OID></OID>
      <PasswordAuthen></PasswordAuthen>
      <AuthenUse></AuthenUse>
      <UserLog></UserLog>
      <ResourceLog></ResourceLog>
      <Filter></Filter>
      <Brief></Brief>
      <UITemplate>
        <Name></Name>
        <Status></Status>
      </UITemplate>
      <AccessDisableFlag></AccessDisableFlag>
    </UISetting>
  </UISettings>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UISettings
Table type	Multi-instance table
Row name	UISetting
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
VerifyCode	Whether the verify code is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.
DPWD	Whether the dynamic password is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.
DisplayLogo	Whether the logo is displayed	N/A	Boolean: • true—Displayed. • false—Not displayed.
HidePasswordInput	Whether to hide the password input box	N/A	Boolean: • true—Hide the password box. • false—Not hide the password box (default).
LogoFile	Logo file path	N/A	String, case insensitive. Length: 1 to 255 characters.
LoginMsg	Web login message	Data structure	Members include: • English. • Chinese.
English	English login message string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese login message string	N/A	String. Length: 1 to 255 characters.
Title	Web title	Data structure	Members include: • English. • Chinese.
English	English title string	N/A	String. Length: 1 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
Chinese	Chinese title string	N/A	String. Length: 1 to 255 characters.
PwdComplexMsg	Password complexity message configuration	Data structure	Members include: • English. Chinese.
English	Password complexity message in English	N/A	String. Length: 1 to 255 characters.
Chinese	Password complexity message in Chinese	N/A	String. Length: 1 to 255 characters.
LoginPageNotifyMsg	Login page notification message configuration	Data structure	Members include: • English. Chinese
English	Login page notification message in English	N/A	String. Length: 1 to 255 characters.
Chinese	Login page notification message in Chinese	N/A	String. Length: 1 to 255 characters.
ResourcePageNotifyMsg	Resource page notification message configuration	Data structure	Members include: • English. Chinese.
English	Resource page notification message in English	N/A	String. Length: 1 to 255 characters.
Chinese	Resource page notification message in Chinese	N/A	String. Length: 1 to 255 characters.
ResourcesFileName	Download file configuration for users	Data structure	Members include: • English. Chinese.
English	Name of the file to be provided on the English Web interface	N/A	String, case insensitive. Length: 1 to 31 characters.
Chinese	Name of the file to be provided on the Chinese Web interface	N/A	String, case insensitive. Length: 1 to 31 characters.
ResourcerLog	Whether Resource	N/A	Boolean: • true—Enabled.

Column name	Column description	Column type	Data type and restrictions
	logging of the SSL VPN context is enabled.		• false—Disabled.
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
CertificateAuthen	Whether certificate authentication of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
CertUserNameAttr	Username attribute configuration when certificate authentication is enabled.	N/A	Enumeration: • 0—CN. • 1—Email-prefix. • 2—OID.
OID	The OID string input for the username attribute when CertUserNameAttr is OID.	N/A	String. Length: 1 to 96 characters.
UserLog	Whether user logging of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
PasswordAuthen	Whether password authentication of the SSL VPN context is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: • 0—all. • 1—any-one.
UITemplate	UI template used by the SSL VPN context.	Data structure	Members include: • Name. • Status.
Name	Template name.	N/A	String. Length: 1 to 31 characters. The string cannot contain the following characters: / \ | : * “ ? < >.
Status	Template status.	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			• 0—Normal. • 1—The login.html file is missing. • 2—The home.html file is missing. • 3—The version is not matched.
AccessDisableFlag	Flags that indicate what types of clients are limited to access SSL VPN.	N/A	Unsigned integer. Value range: 0 to 7. Bit0: • 0—Browsers are allowed to access SSL VPN. • 1—Browsers are denied access to SSL VPN. Bit1: • 0—PC iNode clients are allowed to access SSL VPN. • 1—PC iNode clients are denied access to SSL VPN. Bit2: • 0—Mobile iNode clients are allowed to access SSL VPN. • 1—Mobile iNode clients are denied access to SSL VPN.

SSLVPN/PortForwardLists

This table contains SSL VPN port forwarding list information.

XML structure

```
<SSLVPN>
  <PortForwardLists>
    <PortForwardList>
      <ContextName></ContextName>
      <ListName></ListName>
    </PortForwardList>
  </PortForwardLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardLists
Table type	Multi-instance table
Row name	PortForwardList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/PortForwardItems

This table contains SSL VPN port forwarding entry information.

XML structure

```
<SSLVPN>
  <PortForwardItems>
    <PortForwardItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
    </PortForwardItem>
  </PortForwardItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItems
Table type	Multi-instance table
Row name	PortForwardItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	Index	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	Index	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.

SSLVPN/Ipv4AddressPools

This table contains SSL VPN IPv4 address pool information.

XML structure

```
<SSLVPN>
  <Ipv4AddressPools>
    <Ipv4AddressPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Ipv4AddressPool>
  </Ipv4AddressPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv4AddressPools
Table type	Multi-instance table
Row name	Ipv4AddressPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IP address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AddressStart	Start IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be larger than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/RouteLists

This table contains SSL VPN route list information.

XML structure

```
<SSLVPN>
  <RouteLists>
    <RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </RouteList>
  </RouteLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteLists
Table type	Multi-instance table
Row name	RouteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/RouteItems

This table contains SSL VPN route item information.

XML structure

```
<SSLVPN>
  <RouteItems>
    <RouteItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </RouteItem>
  </RouteItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteItems
Table type	Multi-instance table
Row name	RouteItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 0—Include. • 1—Exclude.	N/A
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4Address	Destination IPv4 address of the route	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

SSLVPN/Ipv6AddressPools

This table contains SSL VPN IPv6 address pool information.

XML structure

```
<SSLVPN>
  <Ipv6AddressPools>
    <Ipv6AddressPool>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
```

```
    </Ipv6AddressPool>
  </Ipv6AddressPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6AddressPools
Table type	Multi-instance table
Row name	Ipv6AddressPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IPv6 address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6AddressStart	Start IPv6 address of the pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Ipv6AddressStart cannot be larger than Ipv6AddressEnd.
Ipv6AddressEnd	End IPv6 address of the pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

SSLVPN/Ipv6RouteLists

This table contains SSL VPN IPv6 route list information.

XML structure

```
<SSLVPN>
  <Ipv6RouteLists>
    <Ipv6RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </Ipv6RouteList>
  </Ipv6RouteLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6RouteLists
Table type	Multi-instance table
Row name	Ipv6RouteList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN IPv6 route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Ipv6RouteItems

This table contains SSL VPN IPv6 route item information.

XML structure

```
<SSLVPN>
  <Ipv6RouteItems>
    <Ipv6RouteItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6RouteItem>
  </Ipv6RouteItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN

Table name	Ipv6RouteItems
Table type	Multi-instance table
Row name	Ipv6RouteItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ListName	SSL VPN IPv6 route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
RouteType	The way how the IPv6 route is specified	N/A	Enumeration: • 0—Include. • 1—Exclude.	N/A
Ipv6Address	Destination IPv6 address of the route	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Ipv6PrefixLength	IPv6 address prefix length	Index	Unsigned integer. Value range: 0 to 128.	N/A

SSLVPN/PolicyGroups

This table contains SSL VPN policy group basic information.

XML structure

```
<SSLVPN>
  <PolicyGroups>
    <PolicyGroup>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <IsDefault></IsDefault>
      <RedirectResType></RedirectResType>
      <RedirectResName></RedirectResName>
    </PolicyGroup>
  </PolicyGroups>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PolicyGroups
Table type	Multi-instance table
Row name	PolicyGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
IsDefault	Whether the SSL VPN policy group is the default group of the context	N/A	Boolean: • true—The SSL VPN policy group is the default group of the context. • false—The SSL VPN policy group is not the default group of the context.
RedirectResType	Redirect resource type	N/A	Enumeration: • 0—None. • 1—URL-item. • 2—Shortcut.
RedirectResName	Redirect resource name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/TcpAcPolicys

This table contains SSL VPN TCP access information for policy groups.

XML structure

```
<SSLVPN>
  <TcpAcPolicys>
    <TcpAcPolicy>
```

```
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <PortForwardName></PortForwardName>
      <URIACLName></URIACLName>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </TcpAcPolicy>
  </TcpAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	TcpAcPolicys
Table type	Multi-instance table
Row name	TcpAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
PortForwardName	SSL VPN port forwarding list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AclNumber	Referenced IPv6 advanced ACL	N/A	Unsigned integer. Value range: 3000 to 3999.

Column name	Column description	Column type	Data type and restrictions
	number		

SSLVPN/IpAcPolicys

This table contains SSL VPN IP access information for policy groups.

XML structure

```
<SSLVPN>
  <IpAcPolicys>
    <IpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <KeepAlive></KeepAlive>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </AccessRoute>
      <DNSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServer>
      <WINSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </WINSServer>
    </IpAcPolicy>
  </IpAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table
Row name	IpAcPolicy

Restrictions	The IpacPolicys table does not support multiple user groups. The IpacPolicys_v2 table is added to support multiple user groups. The IpacPolicy table is included only for compatibility. No new features will be added to this table. Use the new table IpacPolicys_v2 instead of this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds.	N/A
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
AccessRoute	Route issued to the client	Data structure	Members include: • RouteType. • RouteList. • Ipv4Address. • Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 1—Route list. • 2—IPv4 address. • 3—All.	N/A
RouteList	SSL VPN route	N/A	String, case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	list name		Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DNSServer	DNS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
WINSServer	WINS server	Data structure	Members include: • Primary. • Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/IpAcPolicys_v2

This table contains SSL VPN IP access information for policy groups.

XML structure

```
<SSLVPN>
  <IpAcPolicys_v2>
    <IpAcPolicy_v2>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv6AddressPool>
        <Name></Name>
        <Ipv6PrefixLength></Ipv6PrefixLength>
```

```
      </Ipv6AddressPool>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </AccessRoute>
      <ForceAll></ForceAll>
      <IPv6AccessRoute>
        <IPv6RouteType></IPv6RouteType>
        <IPv6RouteList></IPv6RouteList>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </IPv6AccessRoute>
      <IPv6ForceAll></IPv6ForceAll>
     <URIACLName></URIACLName>
    </IpAcPolicy_v2>
  </IpAcPolicys_v2>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table
Row name	IpAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4AddressPool	Referenced address pool	Data structure	Members include: • Name. • Ipv4PrefixLength.	N/A
Name	SSL VPN IPv4 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
Ipv6AddressPool	Referenced IPv6 address pool	Data structure	Members include: • Name. • Ipv6PrefixLength.	N/A
Name	SSL VPN IPv6 address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv6PrefixLength	SSL VPN IPv6 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 127.	N/A
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value rangd: 3000 to 3999.	New feature, not compatible with the old table.
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value rangd: 3000 to 3999.	New feature, not compatible with the old table.
AccessRoute	Route issued to the client	Data structure	Members include: • RouteType. • RouteList. • Ipv4Address. • Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: • 1—Route list. • 2—IPv4 address.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLen	IPv4 address	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
gth	prefix length		Value range: 0 to 32.	
ForceAll	Whether the force all is enabled	N/A	Boolean: • false—Disabled. • true—Enabled.	N/A
Ipv6AccessRoute	IPv6 routes issued to the client	Data structure	Members include: • Ipv6RouteType. • Ipv6RouteList. • Ipv6Address. • Ipv6PrefixLength.	N/A
Ipv6RouteType	The way how the IPv6 routes are specified	N/A	Enumeration: • 1—Ipv6RouteList. • 2—Ipv6Address.	N/A
Ipv6RouteList	SSL VPN IPv6 route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when Ipv6RouteType is 1.
Ipv6Address	Destination IPv6 address of the route	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Available when Ipv6RouteType is 2.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 0 to 128.	Available when Ipv6RouteType is 2.
Ipv6ForceAll	Whether the IPv6 force-all feature is enabled	N/A	Boolean: • false—Disabled. • true—Enabled.	N/A
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	New feature, not compatible with the old table.

SSLVPN/Sessions

This table contains SSL VPN session information.

XML structure

```
<SSLVPN>
  <Sessions>
    <Session>
      <ContextName></ContextName>
      <UserName></UserName>
      <SessionID></SessionID>
      <UserAddressType></UserAddressType>
      <UserIpv4Address></UserIpv4Address>
```

```
      <UserIpv6Address></UserIpv6Address>
      <ConnNumber></ConnNumber>
      <PGroupName></PGroupName>
      <IdleTimeout></IdleTimeout>
      <CreatedTime></CreatedTime>
      <LastUsedTime></LastUsedTime>
      <TerminalInfo></TerminalInfo>
      <MobileNum></MobileNum>
      <AuthMethod></AuthMethod>
      <SendRate></SendRate>
      <ReceiveRate></ReceiveRate>
      <SendTotalBytes></SendTotalBytes>
      <ReceiveTotalBytes></ReceiveTotalBytes>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv6Address></AllocatedIpv6Address>
    </Session>
  </Sessions>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UserName	Username	Index	String. Length: 1 to 63 characters.	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.
UserAddress Type	Whether the user address is an IPv6 address	N/A	Boolean: • false—IPv4. • true—IPv6.	N/A
UserIpv4Addr	User IPv4	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
ess	address			
UserIpv6Address	User IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ConnNumber	Number of connections for the user session	N/A	Unsigned integer.	N/A
PGroupName	SSL VPN policy group name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 60 to 86400, in seconds.	N/A
CreatedTime	Session creation time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
LastUsedTime	Session idle duration	N/A	Time. Format: HH:MM:SS.	N/A
TerminalInfo	TerminalInfo	N/A	String. Length: 1 to 20 characters.	N/A
MobileNum	Mobile number bound to user	N/A	String. Length: 1 to 31 characters. The string can contain only digits.	N/A
AuthMethod	Authentication method	N/A	String. Length: 1 to 127 characters.	N/A
SendRate	Send rate of the user	N/A	String. Length: 1 to 31 characters.	Example: • 128.53 Bps • 128.53 KBps • 1.53 MBps • 1.53 GBps • 1.53 TBps • 1.53 PBps
ReceiveRate	Receive rate of the user	N/A	String. Length: 1 to 31 characters.	Example: • 128.53 Bps • 128.53 KBps • 1.53 MBps • 1.53 GBps • 1.53 TBps • 1.53 PBps
SendTotalBytes	Total number of bytes sent	N/A	String. Length: 1 to 31 characters.	Example: • 200.50 Bytes • 200.50 KB • 200.50 MB • 200.50 GB

Column name	Column description	Column type	Data type and restrictions	Remarks
				• 200.50 TB • 200.50 PB
ReceiveTotal Bytes	Total number of bytes received	N/A	String. Length: 1 to 31 characters.	Example: • 200.50 Bytes • 200.50 KB • 200.50 MB • 200.50 GB • 200.50 TB • 200.50 PB
AllocatedIpv4 Address	Allocated IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
AllocatedIpv6 Address	Allocated IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

SSLVPN/ContextStatistics

This table contains SSL VPN context session statistics.

XML structure

```
<SSLVPN>
  <ContextStatistics>
    <ContextStatistic>
      <ContextName></ContextName>
      <SessionNumber></SessionNumber>
      <FrozenIPNumber></FrozenIPNumber>
      <UsrPwdFailures></UsrPwdFailures>
      <CodeFailures></CodeFailures>
      <SMSFailures></SMSFailures>
      <CustomFailures></CustomFailures>
    </ContextStatistic>
  </ContextStatistics>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextStatistics
Table type	Multi-instance table
Row name	ContextStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SessionNumber	Number of user sessions for the SSL VPN context	N/A	Unsigned integer.
FrozenIPNumber	Number of frozen IP addresses in the SSL VPN context	N/A	Unsigned integer.
UsrPwdFailures	Number of username/password authentication failures in the SSL VPN context	N/A	Unsigned integer.
CodeFailures	Number of code verification failures in the SSL VPN context	N/A	Unsigned integer.
SMSFailures	Number of SMS authentication failures in the SSL VPN context	N/A	Unsigned integer.
CustomFailures	Number of custom authentication failures in the SSL VPN context	N/A	Unsigned integer.

SSLVPN/URIACLs

This table contains SSL VPN URI ACL information.

XML structure

```
<SSLVPN>
  <URIACLs>
    <URIACL>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
    </URIACL>
  </URIACLs >
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLs
Table type	Multi-instance table
Row name	URIACL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/URIACLItems

This table contains SSL VPN URI ACL entry information.

XML structure

```
<SSLVPN>
  <URIACLItems>
    <URIACLItem>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
      <RuleNumber></RuleNumber>
      <Action></Action>
      <Pattern></Pattern>
    </URIACLItem>
  </URIACLItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLItems
Table type	Multi-instance table
Row name	URIACLItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RuleNumber	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Action	Action	N/A	Unsigned integer. Value range: 1 to 2. • 1—Permit. • 2—Deny.
Pattern	Rule pattern	N/A	String, case insensitive. Length: 1 to 256 characters.

SSLVPN/WebAcPolicys

This table contains SSL VPN Web access information for policy groups.

XML structure

```
<SSLVPN>
  <WebAcPolicys>
    <WebAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <URIACLName></URIACLName>
```

```
    </WebAcPolicy>
  </WebAcPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcPolicys
Table type	Multi-instance table
Row name	WebAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlLists

This table contains SSL VPN URL list information for policy groups.

XML structure

```
<SSLVPN>
  <UrlLists>
```

```
    <UrlList>
      <ContextName></ContextName>
      <ListName></ListName>
      <Heading></Heading>
    </UrlList>
  </UrlLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlLists
Table type	Multi-instance table
Row name	UrlList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Heading	SSL VPN URL list heading	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlItems

This table contains SSL VPN URL entry information for policy groups.

XML structure

```
<SSLVPN>
  <UrlItems>
    <UrlItem>
      <ContextName></ContextName>
```

```
      <ListName></ListName>
      <UrlName></UrlName>
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
    </UrlItem>
  </UrlItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItems
Table type	Multi-instance table
Row name	UrlItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
UrlName	URL name	Index	String, case insensitive. Length: 1 to 31 characters.
UrlValue	URL value	N/A	String, case insensitive. Length: 1 to 253 characters.
URIACLNam e	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlCtxItems

This table contains SSL VPN URL item configuration information.

XML structure

```
<SSLVPN>
  <UrlCtxItems>
    <UrlCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <UrlMapping>
        <MappingType></MappingType>
        <Domain></Domain>
        <GatewayName></GatewayName>
        <VirtualHost></VirtualHost>
        <Rewrite></Rewrite>
      </UrlMapping>
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
      <UrlMasking></UrlMasking>
      <SSO>
        <Method></Method>
        <AutoBuildReqMethod></AutoBuildReqMethod>
        <AutoBuildCode></AutoBuildCode>
        <BasicCustom></BasicCustom>
        <AutoBuildEncryptFile></AutoBuildEncryptFile>
      </SSO>
    </UrlCtxItem>
  </UrlCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlCtxItems
Table type	Multi-instance table
Row name	UrlCtxItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
UrlMapping	URL mapping	Data structure	Members include: • MappingType. • Domain. • GatewayName. • VirtualHost. • Rewrite.	N/A
MappingType	URL mapping type	N/A	Enumeration: • 1—domain mapping. • 2—port mapping.	N/A
Domain	Domain name specified for the domain mapping	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
GatewayName	Gateway name specified for the port mapping	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VirtualHost	Virtual host name specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
Rewrite	Whether absolute URL rewriting is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.	N/A
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores(_).	N/A
UrlMasking	Whether URL masking is enabled for the URL item	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
SSO	SSO configuration	Data structure	Members include: • Method. • AutoBuildReqMethod. • AutoBuildCode. • BasicCustom. • AutoBuildEncryptFile.	N/A
Method	SSO method	N/A	Enumeration: • 1—basic.	N/A

			• 2—auto-build.	
AutoBuildReqMethod	Auto-build mode login request method	N/A	Enumeration: • 0—GET. • 1—POST.	N/A
AutoBuildCode	Auto-build mode parameter encoding	N/A	Enumeration: • 0—UTF-8. • 1—GB18030.	N/A
BasicCustom	Enable basic mode to use custom login parameters	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
AutoBuildEncryptFile	Auto-build mode parameter encryption file	N/A	String, case insensitive. Length: 0 to 255 characters.	N/A

SSLVPN/UrlItemResources

This table contains SSL VPN URL item resource configuration information.

XML structure

```
<SSLVPN>
  <UrlItemResources>
    <UrlItemResource>
      <ContextName></ContextName>
      <UrlListName></UrlListName>
      <ItemName></ItemName>
    </UrlItemResource>
  </UrlItemResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItemResources
Table type	Multi-instance table
Row name	UrlItemResource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context	Index	String, case insensitive.	N/A

	name		Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	
UrlListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

SSLVPN/SnatPools

This table contains SSL VPN SNAT pool information for policy groups.

XML structure

```
<SSLVPN>
  <SnatPools>
    <SnatPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Type></Type>
      <VrrpId></VrrpId>
    </SnatPool>
  </SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatPools
Table type	Multi-instance table
Row name	SnatPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string can contain only letters, digits, and underscores (_).	
Ipv4AddressStart	Start IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Type	Type of the SNAT pool	N/A	Enumeration: • 0—addr-split • 1—port-split	The virtual system supports only port splitting. Once created, this column cannot be edited.
VrrpId	VRRP group number	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SSLVPN/Ipv6SnatPools

This table contains SSL VPN Ipv6 SNAT pool information for policy groups.

XML structure

```
<SSLVPN>
  <Ipv6SnatPools>
    <Ipv6SnatPool>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <Type></Type>
    </Ipv6SnatPool>
  </Ipv6SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6SnatPools
Table type	Multi-instance table
Row name	Ipv6SnatPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv6AddressStart	Start IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Ipv6AddressStart cannot be higher than Ipv6AddressEnd.
Ipv6AddressEnd	End IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Type	Type of the SNAT pool	N/A	Enumeration: • 0—addr-split • 1—port-split	The virtual system supports only port splitting. Once created, this column cannot be edited.

SSLVPN/UrlResources

This table contains SSL VPN URL resource information for policy groups.

XML structure

```
<SSLVPN>
  <UrlResources>
    <UrlResource>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ListName></ListName>
    </UrlResource>
  </UrlResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlResources
Table type	Multi-instance table
Row name	UrlResource

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/SnatResources

This table contains SSL VPN SNAT resource information for policy groups.

XML structure

```
<SSLVPN>
  <SnatResources>
    <SnatResource>
      <ContextName></ContextName>
      <SnatPoolName></SnatPoolName>
    </SnatResource>
  </SnatResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatResources
Table type	Multi-instance table
Row name	SnatResource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SnatPoolName	SSL VPN SNAT pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UserControls

This table contains SSL VPN user control information for policy groups.

XML structure

```
<SSLVPN>
  <UserControls>
    <UserControl>
      <ContextName></ContextName>
      <MaxOnlineNum></MaxOnlineNum>
      <ForceLogout></ForceLogout>
      <SessionConnectionNum></SessionConnectionNum>
      <RateLimit>
         <RateLimitUp></RateLimitUp>
         <RateLimitDown></RateLimitDown>
      </RateLimit>
      <VerifyCodeAutoEnable>
        <Enable></Enable>
        <FailedTimes></FailedTimes>
      </VerifyCodeAutoEnable>
      <SameIpUser>
        <Enable></Enable>
        <FailedTimes></FailedTimes>
        <FreezeTime></FreezeTime>
      </SameIpUser>
    </UserControl>
  </UserControls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UserControls
Table type	Multi-instance table
Row name	UserControl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
MaxOnlineNum	Maximum online number of each SSL VPN user for the context	N/A	Unsigned integer. Value range: 0 to 1048575.	If the maxOnlineNum is 0, the context doesn't control the maximum online number of each SSL VPN user.
ForceLogout	Whether the force logout is enabled	N/A	Boolean: • true—Enabled. • false—Disabled .	N/A
SessionConnectionNum	Maximum number of connections for each session	N/A	Unsigned integer. Value range: 0, 10 to 1000.	If the SessionConnetionNum is 0, the context doesn't control the maximum number of connections for each session.
RateLimit	Bandwidth rate limit	Data structure	Members include: • RateLimitUp. • RateLimitDown	N/A
RateLimitUp	Upstream rate limit	N/A	Unsigned integer. Value range: 1000 to 100000000, in kbps.	N/A
RateLimitDown	Downstream rate limit	N/A	Unsigned integer. Value range: 1000 to 100000000, in kbps.	N/A
VerifyCodeAutoEnable	Perform code verifiction to prevent login cracking	Data structure	Member include: FailedTimes.	N/A
Enable	Enable code verification for cracking	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	prevention			
FailedTimes	Max number of login failures allowed before performing code verification	N/A	Unsigned integer. Value range: 1 to 63. Default value is 5.	N/A
SameIpUser	Freeze the IP address to prevent login cracking	Data structure	Member include: • Enable. • FailedTimes. • FreezeTime.	N/A
Enable	Enable freezing IP addresses for cracking prevention	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
FailedTimes	Max number of login failures allowed before freezing the IP address	N/A	Unsigned integer. Value range: 64 to 2048. Default value is 64.	N/A
FreezeTime	Period of time to freeze the IP address	N/A	Unsigned integer. Value range: 30 to 1800, in seconds. Default value is 30.	N/A

SSLVPN/Specification

This table contains information about the SSLVPN function specification.

XML structure

```
<SSLVPN>
  <Specifications>
    <ControllerType></ControllerType>
  </Specifications>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Specifications
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControllerType	SSL VPN ControllerType	Column	Enumeration: • 0—None. • 1—M9K.	N/A

SSLVPN/GlobalLog

This table contains SSLVPN global log configuration information.

XML structure

```
<SSLVPN>
  <GlobalLog>
    <GlobalLogEnable></GlobalLogEnable>
  </GlobalLog>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLogEnable	Whether the global log is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

SSLVPN/IpAcStatistics

This table contains SSLVPN IP access packet statistics for each user .

XML structure

```
<SSLVPN>
```

```
  <IpAcStatistics>
    <IpAcStatistic>
      <ContextName></ContextName>
      <UserName></UserName>
      <SessionID></SessionID>
      <UserAddressType></UserAddressType>
      <UserIpv4Address></UserIpv4Address>
      <UserIpv6Address></UserIpv6Address>
      <RecvReqPkts></RecvReqPkts>
      <SendReqPkts></SendReqPkts>
      <DropReqPkts></DropReqPkts>
      <RecvReplyPkts></RecvReplyPkts>
      <SendReplyPkts></SendReplyPkts>
      <DropReplyPkts></DropReplyPkts>
      <KeepalivePkts></KeepalivePkts>
      <KeepaliveReplyPkts></KeepaliveReplyPkts>
      <RecvUpdateCfgPkts></RecvUpdateCfgPkts>
      <SendUpdateCfgPkts></SendUpdateCfgPkts>
    </IpAcStatistic>
  </IpAcStatistics>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcStatistics
Table type	Multi-instance table
Row name	IpAcStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UserName	Username	Index	String. Length: 1 to 63 characters.	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.
UserAddress	Type of user	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	address		• 1—IPv4. • 2—IPv6.	
UserIpv4Address	User IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
UserIpv6Address	User IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
RecvReqPkts	Number of received IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SendReqPkts	Number of sent IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropReqPkts	Number of dropped IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RecvReplyPkts	Number of received IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SendReplyPkts	Number of sent IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
DropReplyPkts	Number of dropped IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
KeepalivePkts	Number of keepalive packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
KeepaliveReplyPkts	Number of keepalive reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RecvUpdateCfgPkts	Number of received configuration updating reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SendUpdateCfgPkts	Number of sent configuration updating reply packets during a	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	specific period			

SSLVPN/IpAcContextStatistics

This table contains IP access packet statistics for each SSL VPN context.

XML structure

```
<SSLVPN>
  <IpAcContextStatistics>
    <IpAcContextStatistic>
      <ContextName></ContextName>
      <ClientInBytes></ClientInBytes>
      <ClientOutBytes></ClientOutBytes>
      <ServerInBytes></ServerInBytes>
      <ServerOutBytes></ServerOutBytes>
    </IpAcContextStatistic>
  </IpAcContextStatistics>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContextStatistics
Table type	Multi-instance table
Row name	IpAcContextStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ClientInBytes	Number of IP access request bytes received from client during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientOutBytes	Number of IP access reply bytes sent to client during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ServerInBytes	Number of IP access reply bytes received from server during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
ServerOutBytes	Number of IP access request packet bytes sent to server during a specific period	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

SSLVPN/PortForwardCtxItems

This table contains SSL VPN port forwarding items control configuration information.

XML structure

```
<SSLVPN>
  <PortForwardCtxItems>
    <PortForwardCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
      <Execution></Execution>
    </PortForwardCtxItem>
  </PortForwardCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardCtxItems
Table type	Multi-instance table
Row name	PortForwardCtxItem

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	N/A	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.
Execution	Configure the script to execute for the port forwarding item	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/PortForwardItemResources

This table contains SSL VPN port forwarding item resource configuration information.

XML structure

```
<SSLVPN>
  <PortForwardItemResources>
    <PortForwardItemResource>
      <ContextName></ContextName>
```

```
      <PortForwardName></PortForwardName>
      <ItemName></ItemName>
    </PortForwardItemResource>
  </PortForwardItemResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItemResource
Table type	Multi-instance table
Row name	PortForwardItemResourc
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PortForwardName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Shortcuts

This table contains SSL VPN short cut configuration information.

XML structure

```
<SSLVPN>
  <Shortcuts>
    <Shortcut>
      <ContextName></ContextName>
      <ShortcutName></ShortcutName>
      <Description></Description>
```

```
      <Execution></Execution>
    </Shortcut>
  </Shortcuts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Shortcuts
Table type	Multi-instance table
Row name	Shortcut
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.	N/A
Execution	Configure the script to execute for the shortcut	N/A	String, case insensitive. Length: 1 to 255 characters.	Example:if choose resource-link,shoulde be url(‘http://www.baidu.com’).If choose application,should be app(‘C:\Windows\System32\notepad.exe’).

SSLVPN/ShortcutLists

This table contains SSL VPN short cut list configuration information.

XML structure

```
<SSLVPN>
```

```
  <ShortcutLists>
    <ShortcutList>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
    </ShortcutList>
  </ShortcutLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutLists
Table type	Multi-instance table
Row name	ShortcutList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutResources

This table contains SSL VPN short cut list resource configuration information.

XML structure

```
<SSLVPN>
  <ShortcutResources>
    <ShortcutResource>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
      <ShortcutName></ShortcutName>
    </ShortcutResource>
  </ShortcutResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutRefers
Table type	Multi-instance table
Row name	ShortcutRefer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutPolicys

This table contains SSL VPN short cut information for policy groups.

XML structure

```
<SSLVPN>
  <ShortcutPolicys>
    <ShortcutPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ShortcutListName></ShortcutListName>
    </ShortcutPolicy>
  </ShortcutPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutPolicys
Table type	Multi-instance table
Row name	ShortcutPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutListName	SSL VPN short cut list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Users

This table contains SSL VPN user bind address information.

XML structure

```
<SSLVPN>
  <Users>
    <User>
      <ContextName></ContextName>
      <UserName></UserName>
      <BindAddress></BindAddress>
      <AutoBindAddressNum></AutoBindAddressNum>
      <BindIPv6Address></BindIPv6Address>
      <AutoBindIPv6AddressNum></AutoBindIPv6AddressNum>
      <AllowChangePWD></AllowChangePWD>
      <MobileNumber></MobileNumber>
    </User>
  </Users>
```

```
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UserName	SSLVPN user	Index	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
BindAddress	IP address list	N/A	String, dotted decimal notation.	Example: 10.1.1.5,10.1.1.10-10.1.1.20
AutoBindAddressNum	Automatically allocate available IP addresses to the user	N/A	Unsigned integer. Value range: 1 to 10	This column is not displayed by the GET operation
BindIPv6Address	List of IPv6 addresses to be bound to the user	N/A	Hexadecimal string, colon-separated. Length: 1 to 459 characters.	Example: 1234::1,1234::10-1234::20
AutoBindIPv6AddressNum	Number of IPv6 addresses that the device will automatically bind to the user	N/A	Unsigned integer. Value range: 1 to 10	This column cannot be displayed by the GET operation
AllowChangePWD	Whether password changing function for the specified user is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
MobileNumber	Mobile number to be bound to the	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	user		The string can contain only digits.	

SSLVPN/GlobalCustomInfos

This table contains global customization information about SSL VPN user access clients.

XML structure

```
<SSLVPN>
  <GlobalCustomInfos>
    <GlobalCustomInfo>
      <CurrentIPClient></CurrentIPClient>
    </GlobalCustomInfo>
  </GlobalCustomInfos>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalCustomInfos
Table type	Multi-instance table
Row name	GlobalCustomInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CurrentIPClient	Type of the current IP access client of the SSL VPN user.	N/A	Enumeration: • 1—Default. • 2—Custom.	N/A

SSLVPN/CustomAuthRequests

This table contains SSL VPN custom authentication request information.

XML structure

```
<SSLVPN>
  <CustomAuthRequests>
    <CustomAuthRequest>
```

```
      <ContextName></ContextName>
      <Timeout></Timeout>
      <URL></URL>
      <Method></Method>
      <Template></Template>
    </CustomAuthRequest>
  </CustomAuthRequests>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRequests
Table type	Multi-instance table
Row name	CustomAuthRequest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Timeout	Custom auth request timeout	N/A	Unsigned integer. Value range: 5 to 60 seconds. Default value is 15 seconds.	N/A
URL	URL string	N/A	String, case insensitive. Length: 1 to 255 characters.	Example: http://192.168.55.1:80/path
Method	Request method	N/A	Enumeration: • 0—GET • 1—POST	N/A
Template	Request template	N/A	String, case sensitive. Length: 1 to 255 characters.	Example: username=$$USERNAME$$&password=$$ENCODE_MD5:PASSWORD$$&resid=1234

SSLVPN/CustomAuthReqHeaders

This table contains information about SSL VPN custom authentication request headers.

XML structure

```
<SSLVPN>
  <CustomAuthReqHeaders>
    <CustomAuthReqHeader>
      <ContextName></ContextName>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
    </CustomAuthReqHeader>
  </CustomAuthReqHeaders>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthReqHeaders
Table type	Multi-instance table
Row name	CustomAuthReqHeader
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
HeaderName	Request header field name	Index	String, case insensitive. Length: 1 to 63 characters. Invalid characters are \t \r \n ? ( ) < > @ , ; : \ “ / [ ] = { } SP and the ASCII characters which greater than 127 and less than or equal to 31.
HeaderValue	Request header field value	N/A	String, Length: 1 to 255 characters. Invalid characters are ?.

SSLVPN/CustomAuthResponses

This table contains information about the content types of response packets from the custom authentication server.

XML structure

```
<SSLVPN>
```

```
  <CustomAuthResponses>
    <CustomAuthResponse>
      <ContextName></ContextName>
      <Type></Type>
      <SuccessValue></SuccessValue>
    </CustomAuthResponse>
  </CustomAuthResponses>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthResponses
Table type	Multi-instance table
Row name	CustomAuthResponse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Type	Content type of custom authentication response packet	N/A	Enumeration: • 0—JSON • 1—XML • 2—Custom
SuccessValue	Value that represents successful authentication.	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/CustomAuthRespFields

This table contains information about the primary fields of the response packets from the custom authentication server.

XML structure

```
<SSLVPN>
  <CustomAuthRespFields>
    <CustomAuthRespField>
```

```
      <ContextName></ContextName>
      <ResultField></ResultField>
      <GroupField></GroupField>
      <MessageField></MessageField>
    </CustomAuthRespField>
  </CustomAuthRespFields>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRespFields
Table type	Multi-instance table
Row name	CustomAuthRespField
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ResultField	Name of authentication result field.	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: success
GroupField	Name of user group field.	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	This field indicates which group the user belongs to. Example: company
MessageField	Name of authentication result description field.	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: description

SSLVPN/CustomAuthRespTemplates

This table contains information about the field-value pair templates for primary fields of the custom authentication responses.

XML structure

```
<SSLVPN>
  <CustomAuthRespTemplates>
    <CustomAuthRespTemplate>
      <ContextName></ContextName>
      <ResultTemplate></ResultTemplate>
      <GroupTemplate></GroupTemplate>
      <MessageTemplate></MessageTemplate>
    </CustomAuthRespTemplate>
  </CustomAuthRespTemplates>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	CustomAuthRespTemplates
Table type	Multi-instance table
Row name	CustomAuthRespTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ResultTemplate	Authentication result field-value pair template.	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: success=$$value$$
GroupTemplate	User group field-value pair template.	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: company=$$value$$
MessageTemplate	Authentication result description field-value pair template.	N/A	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Example: description=$$value$$

SSLVPN/GlobalUISetting

This table contains SSL VPN global UI configuration information.

XML structure

```
<SSLVPN>
  <GlobalUISetting>
    <TemplateName></TemplateName>
    <Status></Status>
  </GlobalUISetting>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalUISetting
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TemplateName	Name of the UI template used by global setting.	N/A	String. Length: 1 to 31 characters. The string cannot contain the following characters: / \ | : * “ ? < >.
Status	Template status.	N/A	Enumeration: • 0—Normal. • 1—The login.html file is missing. • 2—The home.html file is missing. • 3—The version is not matched.

SSLVPN/UITemplates

This table contains SSL VPN UI template information.

XML structure

```
<SSLVPN>
  <UITemplates>
```

```
    <UITemplate>
      <TemplateName></TemplateName>
      <TemplateType></TemplateType>
      <TemplateStatus></TemplateStatus>
      <TemplatePaths></TemplatePaths>
    </UITemplate>
  </UITemplates>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UITemplates
Table type	Multi-instance table
Row name	UITemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TemplateName	UI template name.	Index	String. Length: 1 to 31 characters. The string cannot contain the following characters: / \ | : * “ ? < >.
TemplateType	UI template type.	N/A	Enumeration: • 0—Predefined. • 1—User-defined.
TemplateStatus	UI template status.	N/A	Enumeration: • 0—Normal. • 1—The login.html file is missing. • 2—The home.html file is missing. • 3—The version is not matched.
TemplatePaths	UI template path.	N/A	String. Length: 1 to 511 characters. The string cannot contain the following characters: / \ | : * “ ? < >.

SSLVPN/WebAcContexts

This table contains SSL VPN Web access information for contexts.

XML structure

```
<SSLVPN>
  <WebAcContexts>
    <WebAcContext>
      <ContextName></ContextName>
      <UrlMasking></UrlMasking>
    </WebAcContext>
  </WebAcContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcContexts
Table type	Multi-instance table
Row name	WebAcContext
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UrlMasking	Whether URL masking is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

SSLVPN/FrozenIPInfos

This table contains configuration information for frozen IP address.

XML structure

```
<SSLVPN>
  <FrozenIPInfos>
    <FrozenIPInfo>
      <ContextName></ContextName>
      <IpAddress></IpAddress>
      <AuthMethod></AuthMethod>
```

```
      <FrozenTime></FrozenTime>
      <EstimateUnFreezeTime></EstimateUnFreezeTime>
    </FrozenIPInfo>
  </FrozenIPInfos>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	FrozenIPInfos
Table type	Multi-instance table
Row name	FrozenIPInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
IpAddress	Frozen IP address	N/A	IPv4: String, dotted decimal notation; IPv6: Hexadeccimal string, colon-separated. Example: 1.1.1.1;1; 1:1::1:1.
AuthMethod	Reason for the last login failure	N/A	String, Length: 1 to 63 characters.
FrozenTime	Time when the IP address was frozen	N/A	Time. Format: YY-MM-DD HH:MM:SS.
EstimateUnFreezeTime	Time when the IP address will be unfrozen	N/A	Time. Format: YY-MM-DD HH:MM:SS.

SSLVPN/UserNumberInfo

This table contains information about the number of SSL VPN users.

XML structure

```
<SSLVPN>
  <UserNumberInfo>
    <HistoryMaxUserNumber></HistoryMaxUserNumber>
    <LicenseUserNumber></LicenseUserNumber>
```

```
  </UserNumberInfo>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UserNumberInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HistoryMaxUserNumber	Highest number of online users in history	N/A	Unsigned integer.	N/A
LicenseUserNumber	Number of licensed online users	N/A	Unsigned integer.	N/A

SSLVPN/SmsAuthSmsGws

This table contains configuration information for SMS gateway authentication.

XML structure

```
<SSLVPN>
  <SmsAuthSmsGws>
    <SmsAuthSmsGw>
      <ContextName></ContextName>
      <SmsGwName></SmsGwName>
      <AllowSelfBindMobileNum></AllowSelfBindMobileNum>
      <SmsSendInterval></SmsSendInterval>
      <ValidTime></ValidTime>
      <CountryCode></CountryCode>
      <SmsContent></SmsContent>
    </SmsAuthSmsGw>
  </SmsAuthSmsGws>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SmsAuthSmsGws
Table type	Multi-instance table
Row name	SmsAuthSmsGw
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SmsGwName	SMS gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
AllowSelfBindMobileNum	Allow user to bind a mobile number if the number is not bound to a user	N/A	Boolean: • true—Enabled. • false—Disabled.
SmsSendInterval	SMS sending interval	N/A	Unsigned integer. Value range: 0 to 3600, in seconds.
ValidTime	Verification code validity time period	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.
CountryCode	Country code	N/A	String. Length: 1 to 7 characters. The string can contain only digits.
SmsContent	SMS content	N/A	String. Length: 1 to 127 characters. The value can contain Chinese characters.

SSLVPN/SmsAuthSettings

This table contains configuration information for SMS authentication.

XML structure

```
<SSLVPN>
  <SmsAuthSettings>
    <SmsAuthSetting>
      <ContextName></ContextName>
      <SmsAuthType></SmsAuthType>
    </SmsAuthSetting>
  </SmsAuthSettings>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SmsAuthSettings
Table type	Multi-instance table
Row name	SmsAuthSetting
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SmsAuthType	Type of SMS authentication.	N/A	Enumeration: • 0—IMC. • 1—SMS gateway.

SSLVPN/SSOAutoBuildParams

This table contains login parameter information for SSL VPN user Web access using SSO auto-build mode.

XML structure

```
<SSLVPN>
  <SSOAutoBuildParams>
    <SSOAutoBuildParam>
      <ContextName></ContextName>
      <ItemName></ItemName>
```

```
      <Type></Type>
      <Name></Name>
      <Value></Value>
      <Encrypt></Encrypt>
    </SSOAutoBuildParam>
  </SSOAutoBuildParams>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SSOAutoBuildParams
Table type	Multi-instance table
Row name	SSOAutoBuildParam
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
Type	Auto-build mode login parameter type	Index	Enumeration: • 1—login-name. • 2—login-password. • 3—cert-title. • 4—cert-serial. • 5—cert-fingerprint. • 6—phone-num. • 7—user-group. • 8—custom-username. • 9—custom-password. • 10—custom.	N/A
Name	Auto-build mode attribute name	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
Value	Auto-build mode attribute value	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Encrypt	Auto-build mode attribute value encryption	N/A	Boolean: • true—Encrypt. • false—Not to encrypt.	N/A

SSLVPN/WeChatWorkAuths

This table contains WeChat Work authentication information.

XML structure

```
<SSLVPN>
  <WeChatWorkAuths>
    <WeChatWorkAuth>
      <ContextName></ContextName>
      <WeChatEnable></WeChatEnable>
      <URL></URL>
      <TimeOut></TimeOut>
      <CorpId></CorpId>
      <AppSecret></AppSecret>
      <UserIdField></UserIdField>
      <AuthorizeField></AuthorizeField>
      <OpenUrlEnable></OpenUrlEnable>
      <OpenUrlType></OpenUrlType>
      <OpenUrlValue></OpenUrlValue>
    </WeChatWorkAuth>
  </WeChatWorkAuths>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	WeChatWorkAuths
Table type	Multi-instance table
Row name	WeChatWorkAuth
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN	Index	String, case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	context name		Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	
WeChatEnable	Whether the WeChat Work authentication is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
URL	WeChat Work authentication URL string	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
TimeOut	WeChat Work authentication timeout time	N/A	Unsigned integer. Value range: 5 to 50, in seconds. Default: 15 seconds.	N/A
CorpId	Enterprise ID	N/A	String. Length: 1 to 63 characters.	N/A
AppSecret	Application secret key	N/A	String. Length: 1 to 127 characters.	N/A
UserIdField	User ID field name	N/A	String. Length: 1 to 63 characters.	N/A
AuthorizeField	Authorization policy group field name	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
OpenUrlEnable	Whether the WeChat open platform is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
OpenUrlType	Type of the WeChat open platform URL	N/A	Enumeration: • 0—Predefined. • 1—User defined.	N/A
OpenUrlValue	WeChat open platform URL	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A

SSLVPN/UiReplyMsgs

This table contains information about customizations for server reply messages.

XML structure

```
<SSLVPN>
  <UiReplyMsgs>
    <UiReplyMsg>
```

```
      <ContextName></ContextName>
      <ServerReplyMsg></ServerReplyMsg>
      <SelfDefineReplyMsg>
        <English></English>
        <Chinese></Chinese>
      </SelfDefineReplyMsg>
    </UiReplyMsg>
  </UiReplyMsgs>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UiReplyMsgs
Table type	Multi-instance table
Row name	UiReplyMsg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ServerReplyMsg	Server reply Message	Index	String. Length: 1 to 127 characters.
SelfDefineReplyMsg	Server reply message customization	Data structure	Member include: • English. • Chinese.
English	Customized server reply message in English	N/A	String. Length: 1 to 127 characters.
Chinese	Customized server reply message in Chinese	N/A	String. Length: 1 to 127 characters.

SSLVPN/GlobalFlowRedirect

This table contains SSL VPN flow redirect configuration information.

XML structure

```
<SSLVPN>
  <GlobalFlowRedirect>
    <GlobalFlowRedirectEnable></GlobalFlowRedirectEnable>
  </GlobalFlowRedirect>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalFlowRedirect
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalFlowRedirectEnable	Whether the global flow redirect is enabled	N/A	Boolean: • true—Enabled. • false—Disabled	N/A

SSLVPN/Quantum

This table contains SSL VPN quantum cipher service configuration.

XML structure

```
<SSLVPN>
  <Quantum>
    <CspId></CspId>
    <EcmId></EcmId>
    <ServiceIP></ServiceIP>
    <ServicePort></ServicePort>
    <AppId></AppId>
  </Quantum>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Quantum
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CspId	Cipher service platform ID	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
EcmId	Exchange cipher machine ID	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
ServiceIP	IPv4 address of exchange cipher machine	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ServicePort	Port number of exchange cipher machine	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
AppId	Application ID	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A

SSLVPN/ContextRoles

This table contains SSL VPN user roles information.

XML structure

```
<SSLVPN>
  <ContextRoles>
    <ContextRole>
      <ContextName></ContextName>
      <RoleName></RoleName>
      <PolicyName></PolicyName>
      <AccessEnable></AccessEnable>
      <ContextRole>
```

```
  </ContextRoles>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextRoles
Table type	Multi-instance table
Row name	ContextRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RoleName	Name of user role.	Index	String, case insensitive. Length: 1 to 63 characters.
PolicyName	SSL VPN policy group name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
AccessEnable	Whether authorization based on user role is enabled	N/A	Unsigned integer. Value range: 0 to 7. Default: 0 Bit0: • 0—IP tunnul are allowed to authorized by user roles. • 1—IP tunnul are denied to authorized by user roles. Bit1: • 0—Web access are allowed to authorized by user roles. • 1—Web access are denied to authorized by user roles. Bit2: • 0—TCP access are allowed to authorized by user roles. • 1—TCP access are denied to authorized by user roles.

SSLVPN/ClientDownloads

This table customizes the download path of SSL VPN IP access clients.

XML structure

```
<SSLVPN>
  <ClientDownloads>
    <ClientDownload>
      <ClientPlatform></ClientPlatform>
      <DownloadType></DownloadType>
      <URL></URL>
    </ClientDownload>
  </ClientDownloads>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClientDownloads
Table type	Multi-instance table
Row name	ClientDownload
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientPlatform	Platform of client	Index	Enumeration: • 1—Windows. • 2—Mac. • 3—Common Linux-X86 • 4—Common Linux-ARM • 5—Common Linux-MIPS • 6—Common Linux-Loongarch • 7—Kylin Linux-X86 • 8—Kylin Linux-ARM • 9—Kylin Linux-MIPS • 10—Kylin Linux-Loongarch • 11—UOS Linux-X86	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 12—UOS Linux-ARM • 13—UOS Linux-MIPS • 14—UOS Linux-Loongarch.	
DownloadType	Client download method	N/A	Enumeration: • 1—Local. • 2—Official. • 3—Custom URL. Option **Local** is available only for the Windows platform when the device is installed with IP client.	N/A
URL	URL string, available only when the DownloadType is 3	N/A	String, case insensitive. Length: 1 to 255 characters.	Example: https://inode.h3c.com/download

Contents

SSLVPN 2

SSLVPN/Gateways 2
SSLVPN/Contexts 2
SSLVPN/Contexts_v2 4
SSLVPN/ContextGateways 4
SSLVPN/IpAcContexts 5
SSLVPN/UISettings 5
SSLVPN/PortForwardLists 6
SSLVPN/PortForwardItems 6
SSLVPN/Ipv4AddressPools 6
SSLVPN/RouteLists 7
SSLVPN/RouteItems 7
SSLVPN/PolicyGroups 8
SSLVPN/TcpAcPolicys 8
SSLVPN/IpAcPolicys 8
SSLVPN/IpAcPolicys_v2 9
SSLVPN/Sessions 9
SSLVPN/ContextStatistics 9
SSLVPN/URIACLs 9
SSLVPN/URIACLItems 10
SSLVPN/WebAcPolicys 10
SSLVPN/UrlLists 11
SSLVPN/UrlItems 11
SSLVPN/UrlCtxItems 11
SSLVPN/UrlItemResources 12
SSLVPN/SnatPools 13
SSLVPN/Ipv6SnatPools 13
SSLVPN/UrlResources 14
SSLVPN/SnatResources 14
SSLVPN/UserControls 15
SSLVPN/GlobalLog 15
SSLVPN/IpAcStatistics 15
SSLVPN/IpAcContextStatistics 15
SSLVPN/PortForwardCtxItems 16
SSLVPN/PortForwardItemResources 16
SSLVPN/Shortcuts 16
SSLVPN/ShortCutLists 17
SSLVPN/ShortcutResources 17
SSLVPN/ShortcutPolicys 17
SSLVPN/Users 18
SSLVPN/GlobalCustomInfos 18
SSLVPN/LogoutAlls 19
SSLVPN/LogoutUsers 19
SSLVPN/LogoutSessions 19
SSLVPN/GlobalCustoms 19
SSLVPN/UITemplateChecks 20
SSLVPN/UITemplateOperates 20
SSLVPN/SSOAutoBuildParams 20
SSLVPN/SSOUserFiles 21
SSLVPN/UISettings 21

SSLVPN

SSLVPN/Gateways

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效。
Can't delete the gateway. It is associated with contexts. 指定的SSL VPN网关已经被SSL VPN访问实例引用，无法删除。	Delete the specified gateway,which is referenced by other access instances. 删除指定gateway时，此网关被其它访问实例引用。
The specified port number must be different from the HTTP redirection port number. 指定的端口号不能是HTTP重定向端口号。	Configuring the IP address port is the same as redirecting port. HTTPS的端口号不能与HTTP重定向端口相同。
The port has already been used. 此端口号已被占用。	Configuration redirection ports have been occupied by other configurations. 配置的重定向端口已被其它配置占用。
Can't enable the SSL VPN gateway: The gateway IP address is already used by another SSL VPN gateway. 开启当前的SSL VPN网关失败：该网关的IP地址已经被其它SSL VPN网关使用。	The address bound by the open gateway has been used by other gateways. 开启网关失败，此网关的IP地址被其它网关使用。
The specified IP address and port number can't be the same as those of other SSL VPN gateways. 指定IP地址和端口号不能与其他网关相同。	The configured IP address and port are the same as the existing gateway. 配置的IP地址和端口和已有的网关相同。
The specified IPv6 address and port number can't be the same as those of other SSL VPN gateways. 指定IPv6地址和端口号不能与其他网关相同。	The configured IPv6 address and port are the same as the existing gateway. 配置的IPv6地址和端口和已有的网关相同。

SSLVPN/Contexts

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加SSL VPN网关时，指定的名称不存在。

A context has already been associated with the gateway without specifying a domain name or virtual host name. 该SSL VPN网关已经被其他的SSL VPN访问实例引用，且引用时未指定域名和虚拟主机名。	Configure the gateway under the access instance,which has been monopolized by other access instances. 访问实例下配置网关，此网关已经被其它访问实例独占。
The domain name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的域名。	Configure the gateway and domain name under the access instance,which has been referenced by the same domain name as other access instances. 访问实例下配置网关和域名，此网关已经被其它访问实例以相同的域名引用。
The virtual host name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的虚拟主机名称。	Configure the gateway and virtual host name under the access instance,which has been referenced by the same virtual host name as other access instances. 访问实例下配置网关和虚拟主机名，此网关已经被其它访问实例以相同的虚拟主机名引用。
Invalid AAA domain name. AAA域名非法。	The name specified for configuring the AAA domain name is invalid. 配置AAA域名，指定的名称无效。
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。
Maximum number of associated gateways already reached. SSL VPN网关引用数已达上限。	The maximum number of reference gateways is reached. 引用网关数达到最大值。
The virtual host name is already used in the URL mapping configuration of an URL item in the SSL VPN context. 当前SSL VPN访问实例下的URL表项已经使用该虚拟主机名。	The reference gateway is a virtual host name, the same as the domain referenced by a resource map under a URL item in the current context. 引用网关为虚拟主机名方式，与当前Context中某个URL表项下URL资源映射所引用的域名相同。
The gateway is already used in the URL mapping configuration of an URL item. 该网关已被URL表项下的资源映射配置使用。	The reference gateway is an exclusive reference that has been referenced by the URL resource mapping under the context url table entry. 引用网关为独占式引用，而该网关已经被Context URL表项下的URL资源映射所引用。
The gateway is already associated with another SSL VPN context through a domain name or virtual host name. 该SSL VPN网关已经被其他SSL VPN访问实例以域名或虚拟主机名的方式引用。	Configure the gateway monopoly, which has been referenced by the domain name or virtual host name of other contexts. 配置网关独占方式，而该网关已经被其它Context已域名或虚拟主机名的方式引用。
The specified gateway name and virtual host name are already used in the URL mapping configuration of an URL item. 指定的网关及虚拟主机名已被URL表项使用。	The reference gateway is a virtual host name, gateway and virtual host names are already used in the URL mapping 引用网关为虚拟主机名方式，其网关及虚拟主机名已被URL表项使用。

SSLVPN/Contexts_v2

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
Invalid AAA domain name. AAA域名非法。	The name specified for configuring the AAA domain name is invalid. 配置AAA域名，指定的名称无效。
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。

SSLVPN/ContextGateways

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加网关时，指定名称的网关不存在。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
A context has already been associated with the gateway without specifying a domain name or virtual host name. 该SSL VPN网关已经被其他的SSL VPN访问实例引用，且引用时未指定域名和虚拟主机名。	Configure the gateway under the access instance,which has been monopolized by other access instances. 访问实例下配置网关，此网关已经被其它访问实例独占
The domain name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的域名。	Configure the gateway and domain name under the access instance,which has been referenced by the same domain name as other access instances. 访问实例下配置网关和域名，此网关已经被其它访问实例已相同的域名引用。
The virtual host name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的虚拟主机名称。	Configure the gateway and virtual host name under the access instance,which has been referenced by the same virtual host name as other access instances. 访问实例下配置网关和虚拟主机名，此网关已经被其它访问实例以相同的虚拟主机名引用。
Maximum number of associated gateways already reached. SSL VPN网关引用数已达上限。	The maximum number of reference gateways is reached. 引用网关数达到最大值。

The virtual host name is already used in the URL mapping configuration of an URL item in the SSL VPN context. 当前SSL VPN访问实例下的URL表项已经使用该虚拟主机名。	The reference gateway is a virtual host name, the same as the domain referenced by a resource map under a URL item in the current context. 引用网关为虚拟主机名方式，与当前Context中某个URL表项下URL资源映射所引用的域名相同。
The gateway is already used in the URL mapping configuration of an URL item. 该网关已被URL表项下的资源映射配置使用。	The reference gateway is an exclusive reference that has been referenced by the URL resource mapping under the context turl table entry. 引用网关为独占式引用，而该网关已经被Context URL表项下的URL资源映射所引用。
The gateway is already associated with another SSL VPN context through a domain name or virtual host name. 该SSL VPN网关已经被其他SSL VPN访问实例以域名或虚拟主机名的方式引用。	Configure the gateway monopoly, which has been referenced by the domain name or virtual host name of other contexts. 配置网关独占方式，而该网关已经被其它Context以域名或虚拟主机名的方式引用。
The specified gateway name and virtual host name are already used in the URL mapping configuration of an URL item. 指定的网关及虚拟主机名已被URL表项使用。	The reference gateway is a virtual host name, gateway and virtual host names are already used in the URL mapping 引用网关为虚拟主机名方式，其网关及虚拟主机名已被URL表项使用。

SSLVPN/IpAcContexts

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。

SSLVPN/UISettings

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid file name. 文件名非法。	When configuring a file name,the specified name is invalid. 配置文件名时，指定的名称无效
The logo file doesn't exist. logo文件不存在。	Configure the logo file,the specified file does not exist. 配置logo文件，指定的文件不存在。
File size should not exceed 100KB.	The length of the file exceeds 100KB.

文件大小不能超过100KB。	文件的大小超过100KB。

SSLVPN/PortForwardLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the port-forwarding list. It is associated with policy groups. 指定的端口转发列表已经被策略组引用，无法删除。	Delete the port forward list,which has been referenced by the policy group. 删除端口转发列表时，此列表已被策略组引用。

SSLVPN/PortForwardItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Remote server name is required. 需要输入远端服务器名称。	Create a port to publish entry,the remote server name is not issued. 创建端口转发表项，并没有指定远端服务器名称。
Remote server port is required. 需要输入远端服务器端口号。	Create a port to publish entry,the remote server port is not issued. 创建端口转发表项，并没有指定远端服务器端口没有下发。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the port forwarding item. Reason: The item has been assigned to a port forwarding list. 无法删除端口转发表项，因为此表项已端口转发列表引用	Delete the referenced port forwarding item. 删除已被引用的端口转发列表。

SSLVPN/Ipv4AddressPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The start IP address is required.	When configuring an address,there is no start IP.

需要输入地址池的起始地址。	配置地址时，没有指定起始地址。
The end IP address is required. 需要输入地址池的结束地址。	When configuring an address,there is no end IP. 配置地址时，没有指定结束地址。
The IP address range can't overlap with an existing IP address range. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IP地址范围和已有地址池中的地址范围重叠。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The start IP address must be smaller than or equal to the end IP address. 地址池的起始地址必须小于或等于结束地址。	When configuring an IP address, the starting address is greater than the ending address. 配置IP地址时，起始地址大于结束地址。
The IP address range can't include loopback addresses. 地址池的地址范围不能包含环回地址。	The configured IP address contains the loopback address. 配置的IP地址中包含回环地址。
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。

SSLVPN/RouteLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the route list. It is referenced by policy groups. 指定的路由列表已经被策略组引用，无法删除。	Delete the routing list referenced by the policy group. 删除已被策略组引用的路由列表。

SSLVPN/RouteItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。

SSLVPN/PolicyGroups

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the policy group. It is associated with contexts. 指定的策略组已经被SSL VPN访问实例引用，无法删除。	Delete the referenced policy group. 删除已经被SSLVPN 访问实例引用的策略组。

SSLVPN/TcpAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified port-forwarding list doesn't exist. 指定的端口转发列表不存在。	Configure a list of port forwarding references that do not exist. 配置引用不存在的端口转发列表。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/IpAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The route list doesn't exist. 引用的路由列表不存在。	Configure routing lists that do not exist. 配置引用不存在的路由列表。

SSLVPN/IpAcPolicys_v2

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The route list doesn't exist. 引用的路由列表不存在。	Configure routing lists that do not exist. 配置引用不存在的路由列表。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/Sessions

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/ContextStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/URIACLs

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The uri-acl is in use. URI ACL正在被使用。	Delete the referenced URI ACL. 删除已被引用的URI ACL。

SSLVPN/URIACLItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。
Invalid uri-acl rule ID. 无效的URI ACL规则ID。	When configuring an ID, the specified value is invalid. 配置URI ACL的ID时，指定的值无效。
Please input uri-acl rule action. 需要输入URI ACL规则动作。	When configuring data, no regular action is issued. 配置数据时，必须指定规则动作。
Please input uri-acl rule pattern. 需要输入URI ACL规则样式。	When configuring data, no rule style is issued. 配置数据时，必须指定规则样式。
Pattern string is invalid. 模式字符串不合法。	When configuring data, the specified pattern string is invalid. 配置数据时，指定的模式字符串无效。
Protocol string is invalid. 协议类型不合法	When configuring data, the specified protocol is invalid. 配置数据时，指定的协议无效。
Host name string is invalid. 主机地址或域名不合法。	When configuring data, the specified host address or domain name is invalid. 配置数据时，指定的主机地址或域名无效。
Port string is invalid. 端口不合法。	When configuring data, the specified port is invalid. 配置数据时，指定的端口无效。
Path string is invalid. 路径不合法。	When configuring data, the specified path is invalid. 配置数据时，指定的路径无效。

SSLVPN/WebAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/UrlLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the url list: It is associated with policy groups. 指定的URL列表被策略组引用，无法删除。	Delete the URL list referenced by the policy group. 删除已被策略组引用的URL列表。

SSLVPN/UrlItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。
Can't delete the URL item because it has been assigned to a URL list. 无法删除URL表项，因为该表项已被URL列表引用。	Delete the URL item referenced by the URL list. 删除已被URL 列表引用的URL表项。
The URL is already specified for another URL item in the SSL VPN context. 当前SSL VPN访问实例下的其他URL表项中已存在该URL。	In the case of resource mapping, the URL item is configured with the same value as the other URL item. 资源映射情况下，配置的URL表项和其它URL表项相同。

SSLVPN/UrlCtxItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加网关时，指定的名称不存在。
The specified SSL VPN context doesn't exist.	When the configuration is added,the context instance does not exist.

指定的SSL VPN访问实例不存在。	添加配置时，访问实例不存在。
The specified URL item doesn't exist. 指定的URL表项不存在。	When configuring data, the specified URL item does not exist. 配置数据时，指定的URL表项不存在。
The domain name is already used in the URL mapping configuration of another URL item in the SSL VPN context. 当前SSL VPN访问实例下的其他URL表项下域名映射配置已使用该域名。	The configuration domain name is the same as the domain name mapped under other URL item. 配置域名和其它URL表项下域名映射的域名相同。
The domain name specified in the URL item is the same as the gateway's virtual host name specified for the SSL VPN context. 该URL表项配置的域名与当前SSL VPN访问实例下配置的网关虚拟主机名相同。	The configured domain name is the same as the gateway virtual host name under the current access instance. 配置域名和当前SSLVPN访问实例下的网关虚拟主机名相同。
The URL specified for the URL item is the same as the URL specified for another URL item (in the same SSL VPN context) that has URL mapping configured. 指定的URL与当前SSL VPN访问实例下的其他URL表项中配置的URL相同。	Configuring URL mapping ,the URL configured under the URL item is the same as other URL item configured with resource mapping under the current context. 配置资源映射时，该URL表项下配置的URL与当前Context下的其它配置了资源映射的URL表项的URL相同
The gateway is already used in the URL mapping configuration of another URL item. 其他URL表项下的端口映射已配置该网关。	The referenced gateway is called an exclusive reference, the gateway is already referenced by the URL resource map under the url table entry of the context. 引用的网关名为独占引用，而该网关已经被Context 的URL表项下URL资源映射所引用
The gateway name and virtual host name are already associated with an SSL VPN context. 该URL表项配置的网关及虚拟主机名已经被SSL VPN访问实例使用。	The reference gateway name and virtual host name are the same as the gateway and virtual host name referenced by the context. 引用的网关名和虚拟主机名与Context引用的网关和虚拟主机名都相同
The gateway name and virtual host name specified in the URL item are already used in the URL mapping of another URL item. 该URL表项配置的网关及虚拟主机名已被其他URL表项使用。	When configuring URL mapping ,the configured gateway and virtual host names under the url table item have been used by other URL table items. 配置资源映射时，该URL表项下配置的网关及虚拟主机名已经被其它URL表项使用。
The gateway name specified in the URL item is already associated with an SSL VPN context. 该URL表项引用的网关已经和SSL VPN访问实例关联。	When configuring URL mapping ,the referenced gateway is already associated with the SSLVPN access instance. 配置资源映射时，引用的网关已经和SSLVPN访问实例关联。
The file size cannot exceed 200 KB. 文件大小不能超过200KB。	The encryption file size exceeds 200 KB. 加密文件大小超过200KB。
Invalid file format. The file format must be js. 文件格式错误，必须为js格式。	The specified file format is invalid. 配置指定的文件格式非法。

SSLVPN/UrlItemResources

Message	Explanation
SSL VPN is not enabled.	Get or configuration data when the SSLVPN process is not started.

SSL VPN服务没有开启。	当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。
The specified URL item doesn't exist. 指定的URL表项不存在。	When configuring data, the specified URL item does not exist. 配置数据时，指定的URL表项不存在。

SSLVPN/SnatPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。
The end address must be greater than or equal to the start address. 地址池的结束地址必须大于或等于起始地址。	When configuring an IP address, the end address is less than the beginning address. 配置IP地址时，结束地址小于起始地址。
Number of addresses in the SNAT pool exceeded the limit. 地址池内的地址数量已达上限。	When configuring an IP address, the number of addresses exceeds the maximum. 配置IP地址时，地址数量超过最大值。
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IP地址范围和已有地址池中的地址范围重叠。
The start IP address is required. 需要输入SNAT POOL的起始地址。	When configuring an address,there is no start IP. 配置地址时，没有指定起始地址。
The end IP address is required. 需要输入SNAT POOL的结束地址。	When configuring an address,there is no end IP. 配置地址时，没有指定结束地址。

SSLVPN/Ipv6SnatPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address.	When configuring an IP address,the specified address is invalid.

IP地址无效。	配置IPv6地址时，指定的地址无效
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address conflicts with the address in the device. 配置的IPv6地址池和设备中的地址有冲突。
The end address must be greater than or equal to the start address. 地址池的结束地址必须大于或等于起始地址。	When configuring an IP address, the end address is less than the beginning address. 配置IPv6地址时，结束地址小于起始地址。
Number of addresses in the SNAT pool exceeded the limit. 地址池内的地址数量已达上限。	When configuring an IP address, the number of addresses exceeds the maximum. 配置IPv6地址时，地址数量超过最大值。
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IPv6地址范围和已有地址池中的地址范围重叠。
The start IP address is required. 需要输入SNAT POOL的起始地址。	When configuring an address,there is no start IP. 配置IPv6地址时，没有指定起始地址。
The end IP address is required. 需要输入SNAT POOL的结束地址。	When configuring an address,there is no end IP. 配置IPv6地址时，没有指定结束地址。

SSLVPN/UrlResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified policy group doesn't exist. 指定的策略组不存在。	When the configuration is added,the policy group instance does not exist. 添加配置时，策略组不存在。
The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。

SSLVPN/SnatResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified snat pool doesn't exist. 指定的SNAT地址池不存在。	When configuring data, the specified SNAT pool does not exist. 配置数据时，指定的SNAT地址池不存在。

SSLVPN/UserControls

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The freeze time is required for configuring IP address freezing to prevent login cracking. 需要配置防暴力破解冻结IP地址时间。	The IP address frozen period of time is not set for login cracking prevention. 配置防暴力破解功能时，没有指定冻结IP地址时间。
The login-failures times is required for configuring IP address freezing to prevent login cracking. 需要配置防暴力破解冻结IP地址功能允许的连续登陆失败的最大次数。	The max number of login failures allowed before freezing the IP address is not set for login cracking prevention. 配置防暴力破解功能时，没有配置防暴力破解冻结IP地址功能允许的连续登陆失败的最大次数。
You can specify one (IPv4 or IPv6) or none address. 只能下发一个Ip或者不下发Ip。	You can specify either an IPv4 or IPv6 address, but not both. 解冻被动结的Ip时，可以指定一个ipv4，或者一个ipv6或者都不指定，但是不能同时指定ipv4和ipv6。

SSLVPN/GlobalLog

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/IpAcStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/IpAcContextStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/PortForwardCtxItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 配置数据时，访问实例不存在。
Local name is required. 需要指定本地服务器名称.	Add the configuration and the local server name is not issued. 添加配置时，没有指定本地服务器名称。
Local port is required. 需要指定本地服务器端口号	Add the configuration and the local server port is not issued. 添加配置时，没有指定本地服务器端口。
The specified port forwarding item doesn't exist. 指定的端口转发表项不存在	When configuring data,the port forwarding list does not exist. 配置数据时，端口转发列表不存在。
Can't delete the port forwarding item. Reason: The item has been assigned to a port forwarding list. 无法删除端口转发表项，因为此表项已端口转发列表引用	Delete the referenced port forwarding item. 删除已被引用的端口转发列表。

SSLVPN/PortForwardItemResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified port forwarding item doesn't exist. 指定的端口转发表项不存在	When configuring data,the forwarding list does not exist. 配置数据时，端口转发列表不存在。

SSLVPN/Shortcuts

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。

Can't delete the shortcut. Reason: The shortcut has been assigned to a shortcut list. 无法删除快捷方式，因为此快捷方式已被快捷方式列表引用	Delete the referenced shortcut. 删除已被引用的快捷方式。

SSLVPN/ShortCutLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the shortcut list. Reason: The list has been assigned to a policy group. 无法删除快捷方式列表，因为此快捷方式列表已被策略组引用。	Delete the referenced shortcut list. 删除已被引用的快捷方式列表。

SSLVPN/ShortcutResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added, the context instance does not exist. 添加配置时，访问实例不存在。
The specified shortcut doesn't exist. 指定的快捷方式不存在。	When the configuration is added, the specified shortcut doesn't exist. 配置数据时，指定的快捷方式不存在。
The specified shortcut list doesn't exist. 指定的快捷方式列表不存在。	When the configuration is added, the specified shortcut list doesn't exist. 配置数据时，指定的快捷方式列表不存在。

SSLVPN/ShortcutPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Gets or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/Users

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Operation succeeded. However, invalid addresses are included: broadcast or network addresses, or addresses not in the IP access address pool. 操作成功，但是包含无效地址：广播地址、网络地址或不在地址池中的地址。	Binding IP addresses contain broadcast addresses, network addresses,or addresses that are not in the address pool. 绑定IP地址包含广播地址、网络地址或不在地址池中的地址。
Operation failed. Some of the addresses are already bound to other users. 操作失败，部分地址已经被其它用户绑定。	Bind IP addresses, some of which have been bound by other users. 绑定的IP地址，部分地址已经被其它用户绑定。
Operation failed. The available IP addresses in the address pool were not enough for auto allocation. 操作失败，地址池中可用于分配的地址已经不足以自动分配。	Configuration automatically assigns more addresses than the number of addresses remaining in the address pool. 配置自动分配地址数大于地址池中剩余地址数量。
Invalid IP address list. 无效的IP地址列表。	The configured IP address is illegal. 配置的IP地址无效。
The specified SSL VPN user doesn't exist. 指定的SSL VPN用户不存在。	The configured user does not exist. 配置下发的用户不存在。
The username cannot contain the following special characters: | / : * ? < > @. 用户名不能包含以下特殊字符: | / : * ? < > @。	The username configured to issue contains illegal characters. 配置下发的用户名包含非法字符。
Operation failed. No IP access address pool is available in the SSL VPN context. 操作失败，在SSL VPN访问实例中不存在有效的地址池。	The SSLVPN access instance does not reference the address pool. SSLVPN访问实例没有引用地址池。
Operation failed. Maximum number of bound addresses already reached." 操作失败，已经达到可绑定的最大地址数。	The number of addresses bound by the user exceeds the maximum. 用户绑定的地址数超过最大限制。
BindAddress and AutoBindAddrNum cannot both be configured. BindAddress 和 AutoBindAddrNum 不能同时配置。	Simultaneously issue the specified and automatic IP address binding. 不能同时下发指定和自动IP地址绑定。

SSLVPN/GlobalCustomInfos

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started.

	当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/LogoutAlls

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/LogoutUsers

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/LogoutSessions

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/GlobalCustoms

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The file size cannot exceed 50000 KB. 文件大小不能超过50M。	The configuration file size exceeds 50M. 配置文件大小超过50M。
The file does not exist. 文件不存在。	The configuration specified file does not exist. 配置指定的文件不存在。
Invalid file format. The file format must be EXE. 文件格式错误，必须为exe格式。	Configuring the specified file format is illegal. 配置指定的文件格式非法。

SSLVPN/UITemplateChecks

Message	Explanation
The specified template doesn't exist. 指定的模板不存在。	Check the template data when the template is not exist. 当指定的模板不存在是时，检查模板是否存在。

SSLVPN/UITemplateOperates

Message	Explanation
Invalid file format. The file format must be ZIP. 文件格式错误，必须为zip格式。	Load the wrong template file. 加载的模板格式错误。
The file size cannot exceed 2 MB. 文件大小不能超过2M。	The file loaded exceed 2 MB. 加载的模板超过2M。
The template cannot be named the same with system-defined template. 加载的模板不允许与系统定义模板同名。	The template loaded is named the same with system-define template. 加载的模板与系统定义模板重名。
The system template cannot be removed. 系统模板不能被删除。	Delete the system-define template. 删除系统模板。
Add failed, the login.html file is not exist. 添加失败，login.html文件不存在。	Load template. 加载模板。
Add failed, the home.html file is not exist. 添加失败，home.html文件不存在。	Load template. 加载模板。
The file does not exist. 文件不存在。	The configuration specified file does not exist. 配置指定的文件不存在。

SSLVPN/SSOAutoBuildParams

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	The SSLVPN process is not started when you get data or set configuration. 当SSLVPN进程没有开启时，获取数据或下发配置。
The build type is custom. You must specify a value for it. 构建类型是自定义方式，必须指定value。	You set the build type to custom but did not specify a value for the type. 当配置数据时构建类型是自定义方式，没有指定value。
The build type is not custom. Cannot specify a value for it. 构建类型非自定义方式，不能指定value。	You set a non-custom build type but specified a value for the type. 当配置数据时构建类型为非自定义方式，指定了value。

SSLVPN/SSOUserFiles

Message	Explanation
Invalid file format. The file format must be csv. 文件格式错误，必须为csv格式。	The specified file format is invalid. 指定的文件格式非法。

SSLVPN/UISettings

Message	Explanation
The size of the resource file has exceeded the current memory limit of the device. 资源文件大小超过设备当前内存限制。	The size of the resource file cannot exceed that of the largest remaining contiguous memory block. 资源文件的大小不能超过设备当前剩余的最大连续内存。
Failed to read the resource file. 读取资源文件失败。	Failed to read the specified file because the file does not exist or cannot be read. 读取指定的资源文件失败。原因是资源文件不存在或者资源文件不可读。

Contents

StaticRoute GSTA 1
gsta-staticrt 1
XML structure 1
Table description 1
Columns 2
gsta-staticrt/srRoutes 2
XML structure 2
Table description 2
Columns 2
Example 3

StaticRoute GSTA

The namespace is "http://www.gsta.com/netconf/gsta-staticrt".

This module can’t be under top node.

gsta-staticrt

This table contains configuration information of gsta-staticrt.

XML structure

```
<staticrt>
  <staticrtbase>
    <srRoutes>
      <srRoute>
        <vrfName></vrfName>
        <afType></afType>
        <prefix></prefix>
        <maskLength></maskLength>
        <ifName></ifName>
        <destVrfName></destVrfName>
        <nexthop></nexthop>
        <description></description>
        <preference></preference>
        <tag></tag>
        <sessionName></sessionName>
        <isPermanent></isPermanent>
      </srRoute>
    </srRoutes>
  </staticrtbase>
</staticrt>
```

Table description

Item	Description
Feature name	gsta-staticrt
Table name	staticrt
Table type	Multi-instance table
Row name	staticrtbase
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
srRoutes	Static route list.	Sublist	The details of the sublist refer to srRoutes table.	N/A

gsta-staticrt/srRoutes

This table contains static route configuration information of gsta-staticrt.

XML structure

Please refer to the XML Structure of gsta-staticrt/staticrt.

Table description

Item	Description
Feature name	gsta-staticrt
Table name	srRoutes
Table type	Multi-instance table
Row name	srRoute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string or a _public_ string indicates the public instance.
afType	Address family type.	Index	String: case-sensitive: • ipv4unicast • ipv6unicast	N/A
prefix	Destination IP address.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
maskLength	Mask length of an IP address.	Index	Unsigned integer. Value range: 0 to 128.	No more than 32 if afType is ipv4unicast, and no more than 128 if afType is

Column name	Column description	Column type	Data type and restrictions	Remarks
				ipv6unicast.
ifName	Output interface of a route.	Index	String, case-insensitive. Length: 0 to 64 characters.	N/A
destVrfName	Name of the destination VPN instance.	Index	String, case-sensitive. Length: 1 to 31 characters.	A _public_ string indicates the public instance,and a null string indicates the invalid instance when ifName is not null.
nexthop	Next hop IP address of a route.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 1.1.1.1, or 1::1.
description	Description of a static route.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
preference	Set a priority for the static routing protocol. If no priority is specified, the global default priority is used.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
tag	Tag of a static route.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
sessionName	Bind a static BFD session to a static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	
isPermanent	Enables the static route to be active permanently.	N/A	Boolean: • true—Permanent route. • false—Not a permanent route.	Default value is false.

Example

Set an IPv6 static route: “ipv6 route-static vpn-instance test 2003:: 64 2001::1 preference 5 bfd static StaticRtBfd description Route to HZ”

```
<staticrt xc:operation="replace" xmlns="http://www.gsta.com/netconf/gsta-staticrt">
  <staticrtbase>
    <srRoutes>
      <srRoute>
        <vrfName>test</vrfName>
        <afType>ipv6unicast</afType>
```

```
        <prefix>2003::</prefix>
        <maskLength>64</maskLength>
        <ifName></ifName>
        <destVrfName></destVrfName>
        <nexthop>2001::1</nexthop>
        <description>Route to HZ</description>
        <preference>5</preference>
        <sessionName>StaticRtBfd</sessionName>
      </srRoute>
    </srRoutes>
  </staticrtbase>
</staticrt>
```

Contents

StaticRoute GSTA 1
gsta-staticrt 1
XML structure 1
Table description 1
Columns 2
gsta-staticrt/srRoutes 2
XML structure 2
Table description 2
Columns 2
Example 3

StaticRoute GSTA

The namespace is "http://www.gsta.com/netconf/gsta-staticrt".

This module can’t be under top node.

gsta-staticrt

This table contains configuration information of gsta-staticrt.

XML structure

```
<staticrt>
  <staticrtbase>
    <srRoutes>
      <srRoute>
        <vrfName></vrfName>
        <afType></afType>
        <prefix></prefix>
        <maskLength></maskLength>
        <ifName></ifName>
        <destVrfName></destVrfName>
        <nexthop></nexthop>
        <description></description>
        <preference></preference>
        <tag></tag>
        <sessionName></sessionName>
        <isPermanent></isPermanent>
      </srRoute>
    </srRoutes>
  </staticrtbase>
</staticrt>
```

Table description

Item	Description
Feature name	gsta-staticrt
Table name	staticrt
Table type	Multi-instance table
Row name	staticrtbase
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
srRoutes	Static route list.	Sublist	The details of the sublist refer to srRoutes table.	N/A

gsta-staticrt/srRoutes

This table contains static route configuration information of gsta-staticrt.

XML structure

Please refer to the XML Structure of gsta-staticrt/staticrt.

Table description

Item	Description
Feature name	gsta-staticrt
Table name	srRoutes
Table type	Multi-instance table
Row name	srRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	A _public_ string indicates the public instance.
afType	Address family type.	Index	String: case-sensitive: • ipv4unicast • ipv6unicast	N/A
prefix	Destination IP address.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
maskLength	Mask length of an IP address.	Index	Unsigned integer. Value range: 0 to 128.	No more than 32 if afType is ipv4unicast, and no more than 128 if afType is

Column name	Column description	Column type	Data type and restrictions	Remarks
				ipv6unicast.
ifName	Output interface of a route.	Index	String, case-insensitive. Length: 0 to 64 characters.	N/A
destVrfName	Name of the destination VPN instance.	Index	String, case-sensitive. Length: 1 to 31 characters.	A _public_ string indicates the public instance,and a null string indicates the invalid instance when ifName is not null.
nexthop	Next hop IP address of a route.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 1.1.1.1, or 1::1.
description	Description of a static route.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
preference	Set a priority for the static routing protocol. If no priority is specified, the global default priority is used.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
tag	Tag of a static route.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
sessionName	Bind a static BFD session to a static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	
isPermanent	Enables the static route to be active permanently.	N/A	Boolean: • true—Permanent route. • false—Not a permanent route.	Default value is false.

Example

Get an IPv6 static route: “ipv6 route-static vpn-instance test 2003:: 64 2001::1 preference 5 bfd static StaticRtBfd description Route to HZ”

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get>
    <filter type="subtree">
      <staticrt xmlns="http://www.gsta.com/netconf/gsta-staticrt">
        <staticrtbase>
          <srRoutes>
            <srRoute>
```

```
            <vrfName>test</vrfName>
            <afType>ipv6unicast</afType>
            <prefix>2003::</prefix>
            <maskLength>64</maskLength>
            <ifName></ifName>
            <destVrfName></destVrfName>
            <nexthop>2001::1</nexthop>
            <description/>
            <preference/>
            <sessionName/>
            <isPermanent/>
          </srRoute>
        </srRoutes>
      </staticrtbase>
    </staticrt>
  </filter>
 </get>
</rpc>
```

Contents

staticrt 1
staticrt/srRoutes 1

staticrt

staticrt/srRoutes

Message	Explanation
Route already exists. 路由已存在	Configuration already exists, when setting new configuration.
Maximum number of routes has been reached. 已达到最大路由条数	Maximum number of routes has been reached.
Route does not exist. 路由不存在	The specified configuration doesn't exist, when getting or deleting it.
The specified VRF name does not exist. 目的VRF索引不存在	Please create the VPN instance first.
The specified next hop VRF name does not exist. 下一跳VRF索引不存在	Please create the VPN instance first.
The interface is not supported. 接口不支持	Only routing interfaces are available.
Invalid destination address. 目的地址无效	Only class A, class B, and class C addresses are available.
Invalid next hop address. 下一跳无效	Only class A, class B, and class C addresses are available.
Next-hop address, outbound interface, or both must be specified one. 下一跳地址或者出接口索引必须至少设置一个	Next-hop address, outbound interface, or both must be specified.
The specified interface requires configuring a next hop address. 该接口需要配置下一跳地址	The specified interface requires configuring a next hop address.
The specified interface does not require configuring a next hop address. 该接口不需要配置下一跳	The specified interface does not require configuring a next hop address.
BFD cannot coexist with backup attribute. 静态路由的备份路径属性不能与BFD共存	BFD cannot coexist with backup attribute.
BFD cannot coexist with Track attribute. 静态路由的track属性不能与BFD共存	BFD cannot coexist with Track attribute.
Next hop VRF name should be set to (%s). 下一跳VRF名称应该填(%s)	Next hop VRF name should be set to the specified character string.
A valid output interface is required for a link-local address as the next hop.	A valid output interface is required for a link-local address as the next hop.

Link-local地址作为下一跳需要指定有效出接口	
BFD not supported. 不支持BFD	BFD service has not been started.
The interface does not support BFD. 指定接口不支持BFD	BFD cannot be configured when the output interface is NULL0.
The specified interface name does not exist. 接口名称不存在	The specified interface name does not exist.
BFD cannot coexist with permanent attribute. 静态路由的永久属性不能与BFD共存	BFD cannot coexist with permanent attribute.
Track cannot coexist with permanent attribute. 静态路由的永久属性不能与track共存	Track cannot coexist with permanent attribute.

Contents

StaticRoute/Ipv4StaticRoutePrefixFile 1
XML structure 1
Table description 1
Columns 1

StaticRoute/Ipv4StaticRoutePrefixFile

This table add IPv4 static route prefix in the file to the group.

XML structure

```
<StaticRoute>
  <Ipv4StaticRoutePrefixFile>
    <RoutePrefixFileEntry>
      <File></File>
      <Group></Group>
    </RoutePrefixFileEntry>
  </Ipv4StaticRoutePrefixFile>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRoutePrefixFile
Table type	Multi-instance table
Row name	RoutePrefixFileEntry
Restrictions	Prefix file must exist in the root directory of default storage medium. File Content include prefix like this: 1.1.1.1/32 10.1.1.0/24

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
File	filename. Example: cnc.txt	Index	String. Length: 1 to 255 characters.	N/A
Group	Group name.	index	String. Length: 1 to 31 characters.	N/A.

Contents

StaticRoute 1

StaticRoute/Ipv4StaticRouteConfigurations 1
XML structure 1
Table description 2
Columns 2
StaticRoute/Ipv4Group 5
XML structure 5
Table description 5
Columns 5
StaticRoute/Ipv4GroupPrefix 6
XML structure 6
Table description 6
Columns 6
StaticRoute/Ipv4StaticRouteGroup 7
XML structure 7
Table description 7
Columns 8
StaticRoute/Ipv6StaticRouteConfigurations 10
XML structure 10
Table description 11
Columns 11
StaticRoute/SrPolicyRouteEntries 14
XML structure 14
Table description 14
Columns 15
StaticRoute/Srv6PolicyRouteEntries 16
XML structure 16
Table description 16
Columns 17
StaticRoute/IPv4RouteRelySRv6BE 18
XML structure 18
Table description 18
Columns 19
StaticRoute/IPv6RouteRelySRv6BE 20
XML structure 20
Table description 21
Columns 21
StaticRoute/Ipv4Configuration 22
XML structure 22
Table description 22
Columns 23
StaticRoute/Ipv6Configuration 23
XML structure 23
Table description 24
Columns 24

StaticRoute

StaticRoute/Ipv4StaticRouteConfigurations

This table contains IPv4 static route configuration information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
        <BfdSessionName></BfdSessionName>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
      <RecursiveHost></RecursiveHost>
      <RecursiveLookup></RecursiveLookup>
      <LdpSync></LdpSync>
      <DHCP></DHCP>
      <NoAdvertise></NoAdvertise>
      <FIRType></FIRType>
      <Threshold></Threshold>
      <RecursiveLongestMatch></RecursiveLongestMatch>
    </RouteEntry>
  </Ipv4StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Addr	Nexthop IPv4	Index	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
ess	address.			0.0.0.0 is an invalid value. If inter-VPN static routing is configured, 0.0.0.0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the next hop address is 0.0.0.0 for inter-VPN static routing, the IfIndex column must be empty or set the value of this column to 0.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • true—Permanent route. • false—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthopIpv4Address.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: • BfdWorkMode. • BfdSourceIpv4Address. • BfdSessionName.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode(default). • 1—Control-packet mode. • 2—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. The value cannot be 0.0.0.0 when the BfdWorkMode column is 1 or 2.
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: • true—Looks up for only ARP host routes. • false—Looks up for not only ARP host routes, but also other routes.	Default value is false.
LdpSync	LDP-static route synchronization	N/A	Boolean: • true—Enable LDP-static route synchronization. • false—Disable LDP-static route synchronization.	Default value is false. When the configuration includes no valid ifIndex, LdpSync should be set to false.
Recursive-Lookup	Disable supernet check		Enumeration: • **0**—Disable(default). • **1**—Enable.	N/A
DHCP	Whether to use the default router designated by the DHCP server as the next hop	N/A	Boolean: • **true**—Uses the default router designated by the DHCP server as the next hop. • **false**—Does not use the default router designated by the DHCP server as the next hop.	To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0. Default value is false.
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
FIRType	Whether the static route is used as a primary link or secondary link in	N/A	Enumeration: • **1**—Primary. • **2**—Secondary.	Default: 0 (the static route is not used as a primary or secondary link in FIR mode).

Column name	Column description	Column type	Data type and restrictions	Remarks
	flexible intelligent routing (FIR) mode			
Threshold	Upper threshold for link bandwidth usage when the static route is used as a primary link in FIR mode	N/A	Unsigned integer. Value range: 1 to 100.	Default: 0 (no upper threshold is set for link bandwidth usage).
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. (default) • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/Ipv4Group

This table contains IPv4 group configuration information.

XML structure

```
<StaticRoute>
  <Ipv4Group>
    <GroupEntry>
      <Group></Group>
    </GroupEntry>
  </Ipv4Group>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Group
Table type	Multi-instance table
Row name	GroupEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String.	After a group is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	created, it cannot be modified.

StaticRoute/Ipv4GroupPrefix

This table contains IPv4 group prefix configuration information.

XML structure

```
<StaticRoute>
  <Ipv4GroupPrefix>
    <GroupPrefixEntry>
      <Group></Group>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GroupPrefixEntry>
  </Ipv4GroupPrefix>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4GroupPrefix
Table type	Multi-instance table
Row name	Ipv4GroupPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A

StaticRoute/Ipv4StaticRouteGroup

This table contains IPv4 static route group configuration information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteGroup>
    <RouteGroupEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Group></Group>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
        <BfdSessionName></BfdSessionName>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
      <RecursiveHost></RecursiveHost>
      <LdpSync></LdpSync>
      <DHCP></DHCP>
      <NoAdvertise></NoAdvertise>
      <RecursiveLongestMatch></RecursiveLongestMatch>
    </RouteGroupEntry>
  </Ipv4StaticRouteGroup>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteGroup
Table type	Multi-instance table
Row name	RouteGroupEntry
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. If inter-VPN static routing is configured, 0.0.0.0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If the next hop address is 0.0.0.0 for inter-VPN static routing, the IfIndex column must be empty or set the value of this column to 0.s
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • **true**—Permanent route. • **false**—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthopIpv4Address.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: • BfdWorkMode. • BfdSourceIpv4Address. • BfdSessionName.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode(default). • **1**—Control-packet mode. • **2**—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. The value cannot be 0.0.0.0 when the BfdWorkMode column is 1 or 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: • true—Looks up for only ARP host routes. • false—Looks up for not only ARP host routes, but also other routes.	Default value is false.
LdpSync	LDP-static route synchronization	N/A	Boolean: • true—Enable LDP-static route synchronization. • false—Disable LDP-static route synchronization.	Default value is false. When the configuration includes no valid ifIndex, LdpSync should be set to false.
DHCP	Whether to use the default router designated by the DHCP server as the next hop	N/A	Boolean: • **true**—Uses the default router designated by the DHCP server as the next hop. • **false**—Does not use the default router designated by the DHCP server as the next hop.	To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0. Default value is false.
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. (default) • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/Ipv6StaticRouteConfigurations

This table contains IPv6 static route configuration information.

XML structure

```
<StaticRoute>
  <Ipv6StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv6Address></Ipv6Address>
```

```
        <Ipv6PrefixLength></Ipv6PrefixLength>
        <NexthopVrfIndex></NexthopVrfIndex>
        <NexthopIpv6Address></NexthopIpv6Address>
        <IfIndex></IfIndex>
        <Tag></Tag>
        <Preference></Preference>
        <Description></Description>
        <Permanent></Permanent>
        <BfdAttribute>
          <BfdWorkMode></BfdWorkMode>
          <BfdSourceIpv6Address></BfdSourceIpv6Address>
          <BfdSessionName></BfdSessionName>
        </BfdAttribute>
        <TrackEntryID></TrackEntryID>
        <RecursiveLookup></RecursiveLookup>
        <Gateway></Gateway>
        <NoAdvertise></NoAdvertise>
        <FIRType></FIRType>
        <Threshold></Threshold>
        <RecursiveLongestMatch></RecursiveLongestMatch>
      </RouteEntry>
    </Ipv6StaticRouteConfigurations>
  </StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes
Support for vsys	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv6Address	Destination IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv6Address	Nexthop IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value. If inter-VPN static routing is configured, 0::0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the next hop address is 0::0 for inter-VPN static routing, the IfIndex column must be empty or set the value of this column to 0.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • **true**—Permanent route. • **false**—Not a Permanent route.	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: • BfdWorkMode. • BfdSourceIpv6Address. • BfdSessionName.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode(default). • **1**—Control-packet mode. • **2**—Echo-packet mode.	N/A
BfdSourceIpv6Address	BFD source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value. The value cannot be 0::0 when the BfdWorkMode column is 1 or 2.
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
Recursive-Lookup	Disable supernet check		Enumeration: • **0**—Disable(default).. • **1**—Enable.	N/A
Gateway	Whether to use the gateway router designated by address autoconfiguration as the next hop	N/A	Enumeration: • **0**—Does not use the gateway router designated by address autoconfiguration as the next hop. • **1**—Uses the gateway router designated by address autoconfiguration as the next hop.	To use the Gateway column, the NexthopIpv6Address column must be set to ::.
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
FIRType	Whether the static route is used as a primary link or	N/A	Enumeration: • **1**—Primary. • **2**—Secondary.	Default: 0 (the static route is not used as a primary or secondary

Column name	Column description	Column type	Data type and restrictions	Remarks
	secondary link in flexible intelligent routing (FIR) mode			link in FIR mode).
Threshold	Upper threshold for link bandwidth usage when the static route is used as a primary link in FIR mode	N/A	Unsigned integer. Value range: 1 to 100.	Default: 0 (no upper threshold is set for link bandwidth usage).
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. (default) • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/SrPolicyRouteEntries

This table contains IPv4 static route SR Policy configuration information.

XML structure

```
<StaticRoute>
  <SrPolicyRouteEntries>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
      <Sid></Sid>
    </RouteEntry>
  </SrPolicyRouteEntries>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	SrPolicyRouteEntries

Item	Description
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 17.0.0.0,
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 32.	No more than 32
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	N/A
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Now not support color if SrAfType is ipv4. Color and Endpoint must be set at the same time. Color and PolicyName can not be set at the same time.
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Now not support Endpoint if SrAfType is ipv4 Color and Endpoint must be set at the same time. Endpoint and PolicyName can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer.	Default value is 60.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 255.	
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.	N/A	Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
Sid	SRv6 SID	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

StaticRoute/Srv6PolicyRouteEntries

This table contains IPv6 static route SRv6 Policy configuration information.

XML structure

```
<StaticRoute>
  <Srv6PolicyRouteEntries>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
      <Sid></Sid>
    </RouteEntry>
  </Srv6PolicyRouteEntries>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Srv6PolicyRouteEntries

Item	Description
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 128.	No more than 128.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	N/A,
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Color and Endpoint must be set at the same time. PolicyName and Color can not be set at the same time. IPv4 is not supported
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time. IPv4 is not supported
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Tag	Route tag.	N/A	Unsigned integer.	Default value is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4294967295.	
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.	N/A	Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
Sid	SRv6 SID	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

StaticRoute/IPv4RouteRelySRv6BE

This table contains IPv4 static route SRv6 BE configuration information.

XML structure

```
<StaticRoute>
  <IPv4RouteRelySRv6BE>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <RemoteSid></RemoteSid>
      <LocatorPrefixLen></LocatorPrefixLen>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
    </RouteEntry>
  </IPv4RouteRelySRv6BE>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	SrPolicyRouteEntries
Table type	Multi-instance table

Item	Description
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 17.0.0.0,
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 32.	No more than 32
RemoteSid	Remote SID of BE	Index	String, colon-separated hexadecimal string if AfType is ipv6.	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs. This column cannot be empty.
LocatorPrefixLen	Locator Prefix Len	Index	Unsigned integer. Value range: 32 to 128.	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs. This column can be empty.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	N/A
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Now not support color if SrAfType is ipv4. Color and Endpoint must be set at the same time. Color and PolicyName can not be set at the

Column name	Column description	Column type	Data type and restrictions	Remarks
				same time.
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Now not support Endpoint if SrAfType is ipv4 Color and Endpoint must be set at the same time. Endpoint and PolicyName can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.

StaticRoute/IPv6RouteRelySRv6BE

This table contains IPv6 static route SRv6 BE configuration information.

XML structure

```
<StaticRoute>
  <IPv6RouteRelySRv6BE>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <RemoteSid></RemoteSid>
      <LocatorPrefixLen></LocatorPrefixLen>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
    </RouteEntry>
  </IPv6RouteRelySRv6BE>
```

```
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Srv6PolicyRouteEntries
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 128.	No more than 128.
RemoteSid	Remote SID of BE	Index	String, colon-separated hexadecimal string if AfType is ipv6.	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs.
LocatorPrefixLen	Locator Prefix Len	Index	Unsigned integer. Value range: 32 to 128.	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	Now not support ipv4,
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Color and Endpoint must be set at the

Column name	Column description	Column type	Data type and restrictions	Remarks
				same time. PolicyName and Color can not be set at the same time.
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.

StaticRoute/Ipv4Configuration

This table contains IPv4 static route recursion configuration information.

XML structure

```
<StaticRoute>
  <Ipv4Configuration>
    <RecursiveSrv6></RecursiveSrv6>
    <RecursiveTunnel></RecursiveTunnel>
    <RecursiveTunnelPrefixList></RecursiveTunnelPrefixList>
    <RecursiveTunnelPolicy></RecursiveTunnelPolicy>
  </Ipv4Configuration>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Configuration
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecursiveSrv6	Whether to apply the SRv6 encapsulation information of the route obtained through recursive lookup to the static route.	N/A	Enumeration: • **disable**—Does not apply the SRv6 encapsulation information of the route obtained through recursive lookup to the static route (default). • **enable**—Applies the SRv6 encapsulation information of the route obtained through recursive lookup to the static route.	N/A
RecursiveTunnel	Static route recursive lookup to an LSP tunnel.	N/A	Enumeration: • **disable**—Disables static route recursive lookup to an LSP tunnel(default). • **enable**—Enables static route recursive lookup to an LSP tunnel.	N/A
RecursiveTunnel PrefixList	IPv4 address prefix list name.	N/A	String. Length: 1 to 63 characters.	Make sure RecursiveTunnel is enabled.
RecursiveTunnel Policy	Tunnel policy name.	N/A	String. Length: 1 to 126 characters.	Make sure RecursiveTunnel is enabled.

StaticRoute/Ipv6Configuration

This table contains IPv6 static route recursion configuration information.

XML structure

```
<StaticRoute>
  <Ipv6Configuration>
    <RecursiveSrv6></RecursiveSrv6>
  </Ipv6Configuration>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecursiveSrv6	Whether to apply the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route.	N/A	Enumeration: • **disable**—Does not apply the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route (default). • **enable**—Applies the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route.	N/A

Contents

StaticRoute 1

StaticRoute/Ipv4StaticRouteConfigurations 1
XML structure 1
Table description 2
Columns 2
StaticRoute/Ipv4Group 5
XML structure 5
Table description 5
Columns 6
StaticRoute/Ipv4GroupPrefix 6
XML structure 6
Table description 6
Columns 6
StaticRoute/Ipv4StaticRouteGroup 7
XML structure 7
Table description 8
Columns 8
StaticRoute/Ipv6StaticRouteConfigurations 11
XML structure 11
Table description 12
Columns 12
StaticRoute/SrPolicyRouteEntries 14
XML structure 14
Table description 15
Columns 15
StaticRoute/Srv6PolicyRouteEntries 16
XML structure 16
Table description 17
Columns 17
StaticRoute/IPv4RouteRelySRv6BE 18
XML structure 18
Table description 19
Columns 19
StaticRoute/IPv6RouteRelySRv6BE 20
XML structure 20
Table description 21
Columns 21
StaticRoute/Ipv4Configuration 22
XML structure 22
Table description 23
Columns 23
StaticRoute/Ipv6Configuration 23
XML structure 24
Table description 24
Columns 24
StaticRoute/IPv4Statistics 24
XML structure 24
Table description 25
Columns 25
StaticRoute/IPv6Statistics 25
XML structure 25
Table description 26
Columns 26

StaticRoute

StaticRoute/Ipv4StaticRouteConfigurations

This table contains IPv4 static route running information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
        <BfdSessionName></BfdSessionName>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
      <RecursiveHost></RecursiveHost>
      <LdpSync></LdpSync>
      <RecursiveLookup></RecursiveLookup>
      <DHCP></DHCP>
      <DestVrfName></DestVrfName>
      <IfName></IfName>
      <NoAdvertise></NoAdvertise>
      <FIRType></FIRType>
      <Threshold></Threshold>
      <RecursiveLongestMatch></RecursiveLongestMatch>
    </RouteEntry>
  </Ipv4StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for vsys	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid

Column name	Column description	Column type	Data type and restrictions	Remarks
				value. If inter-VPN static routing is configured, 0.0.0.0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the next hop address is 0.0.0.0 for inter-VPN static routing, the IfIndex column is empty or the value for this column is 0.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • true—Permanent route. • false—Not a permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthopIpv4Address. • BackupIfName.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BackupIfName	Backup interface name.	N/A	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			GigabitEthernet2/0/1	
BfdAttribute	BFD attribute.	Data structure	Members include: • BfdWorkMode. • BfdSourceIpv4Address. • BfdSessionName.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode. • 1—Control-packet mode. • 2—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: • true—Looks up for only ARP host routes. • false—Looks up for not only ARP host routes, but also other routes.	N/A
LdpSync	LDP-static route synchronization	N/A	Boolean: • true—Enable LDP-static route synchronization. • false—Disable LDP-static route synchronization.	Default value is false. When the configuration includes no valid ifIndex, LdpSync should be set to false.
Recursive-Lookup	Disable supernet check		Enumeration: • **0**—Disable. • **1**—Enable.	N/A
DHCP	Whether the default router designated by the DHCP server is used as the next hop	N/A	Boolean: • **true**—Uses the default router designated by the DHCP server as the next hop. • **false**—Does not use the default router designated by the DHCP server as the next hop.	To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0.
DestVrfName	Destination VRF name.	N/A	String. Length: 1 to 31 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			GigabitEthernet2/0/2	
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
FIRType	Whether the static route is used as a primary link or secondary link in flexible intelligent routing (FIR) mode	N/A	Enumeration: • **1**—Primary. • **2**—Secondary.	Default: 0 (the static route is not used as a primary or secondary link in FIR mode).
Threshold	Upper threshold for link bandwidth usage when the static route is used as a primary link in FIR mode	N/A	Unsigned integer. Value range: 1 to 100.	Default: 0 (no upper threshold is set for link bandwidth usage).
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/Ipv4Group

This table contains IPv4 group configuration information.

XML structure

```
<StaticRoute>
  <Ipv4Group>
    <GroupEntry>
      <Group></Group>
    </GroupEntry>
  </Ipv4Group>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Group
Table type	Multi-instance table
Row name	GroupEntry

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

StaticRoute/Ipv4GroupPrefix

This table contains IPv4 group prefix configuration information.

XML structure

```
<StaticRoute>
  <Ipv4GroupPrefix>
    <GroupPrefixEntry>
      <Group></Group>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GroupPrefixEntry>
  </Ipv4GroupPrefix>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4GroupPrefix
Table type	Multi-instance table
Row name	Ipv4GroupPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A

StaticRoute/Ipv4StaticRouteGroup

This table contains IPv4 static route group configuration information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteGroup>
    <RouteGroupEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Group></Group>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
        <BackupIfName></BackupIfName>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
        <BfdSessionName></BfdSessionName>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
      <RecursiveHost></RecursiveHost>
      <LdpSync></LdpSync>
      <DHCP></DHCP>
      <DestVrfName></DestVrfName>
      <IfName></IfName>
      <NoAdvertise></NoAdvertise>
      <RecursiveLongestMatch></RecursiveLongestMatch>
    </RouteGroupEntry>
  </Ipv4StaticRouteGroup>
```

```
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteGroup
Table type	Multi-instance table
Row name	RouteGroupEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value. If inter-VPN static

Column name	Column description	Column type	Data type and restrictions	Remarks
				routing is configured, 0.0.0.0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the next hop address is 0.0.0.0 for inter-VPN static routing, the IfIndex column is empty or the value for this column is 0.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • **true**—Permanent route. • **false**—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNexthopIpv4Address. • BackupIfName.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BackupIfName	Backup interface name.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/1	N/A
BfdAttribute	BFD attribute.	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
		structure	• BfdWorkMode. • BfdSourceIpv4Address. • BfdSessionName.	
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode. • 1—Control-packet mode. • 2—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: • true—Looks up for only ARP host routes. • false—Looks up for not only ARP host routes, but also other routes.	N/A
LdpSync	LDP-static route synchronization	N/A	Boolean: • true—Enable LDP-static route synchronization. • false—Disable LDP-static route synchronization.	Default value is false. When the configuration includes no valid ifIndex, LdpSync should be set to false.
DHCP	Whether the default router designated by the DHCP server is used as the next hop	N/A	Boolean: • **true**—Uses the default router designated by the DHCP server as the next hop. • **false**—Does not use the default router designated by the DHCP server as the next hop.	To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0.
DestVrfName	Destination VRF name.	N/A	String. Length: 1 to 31 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/Ipv6StaticRouteConfigurations

This table contains IPv6 static route running information.

XML structure

```
<StaticRoute>
  <Ipv6StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv6Address></NexthopIpv6Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv6Address></BfdSourceIpv6Address>
        <BfdSessionName></BfdSessionName>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
      <RecursiveLookup></RecursiveLookup>
      <Gateway></Gateway>
      <DestVrfName></DestVrfName>
      <IfName></IfName>
      <NoAdvertise></NoAdvertise>
      <FIRType></FIRType>
      <Threshold></Threshold>
      <RecursiveLongestMatch></RecursiveLongestMatch>
    </RouteEntry>
  </Ipv6StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for vsys	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv6Address	Destination IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex,NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
NexthopIpv6Address	Nexthop IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If inter-VPN static routing is configured, 0::0 is a valid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. If the next hop address is 0::0 for inter-VPN static routing, the IfIndex column is empty or the value for this column is 0.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: • true—Permanent route. • false—Not a Permanent route.	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: • BfdWorkMode. • BfdSourceIpv6Address. • BfdSessionName.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: • 0—Neither control-packet mode nor echo-packet mode. • 1—Control-packet mode. • 2—Echo-packet mode.	N/A
BfdSourceIpv6Address	BFD source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.
BfdSessionName	Name of the static BFD session bound to the static route.	N/A	String, case-sensitive. Length: 1 to 64 characters.	N/A
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
Recursive-Lookup	Disable supernet check	N/A	Enumeration: • **0**—Disable. • **1**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Gateway	Whether to use the gateway router designated by address autoconfiguration as the next hop	N/A	Enumeration: • **0**—Does not use the gateway router designated by address autoconfiguration as the next hop. • **1**—Uses the gateway router designated by address autoconfiguration as the next hop.	To use the Gateway column, the NexthopIpv6Address column must be set to ::.
DestVrfName	Destination VRF name.	N/A	String. Length: 1 to 31 characters.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.
FIRType	Whether the static route is used as a primary link or secondary link in flexible intelligent routing (FIR) mode	N/A	Enumeration: • **1**—Primary. • **2**—Secondary.	Default: 0 (the static route is not used as a primary or secondary link in FIR mode).
Threshold	Upper threshold for link bandwidth usage when the static route is used as a primary link in FIR mode	N/A	Unsigned integer. Value range: 1 to 100.	Default: 0 (no upper threshold is set for link bandwidth usage).
RecursiveLongestMatch	Recursive lookup for longest match route.	N/A	Enumeration: • **0**—Rely to direct route has a higher priority. • **1**—Rely to longest match route has a higher priority.	N/A

StaticRoute/SrPolicyRouteEntries

This table contains IPv4 static route SR Policy configuration information.

XML structure

```
<StaticRoute>
  <SrPolicyRouteEntries>
    <RouteEntry>
```

```
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
      <Sid></Sid>
    </RouteEntry>
  </SrPolicyRouteEntries>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	SrPolicyRouteEntries
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 17.0.0.0,
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 32.	No more than 32
SrAfType	Address family	Index	String: case-sensitive: • ipv4	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	type of segment routing.		• ipv6	
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Now not support Color if SrAfType is ipv4. Color and Endpoint must be set at the same time. PolicyName and Color can not be set at the same time.
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Now not support Endpoint if SrAfType is ipv4 Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.	N/A	Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	N/A
Sid	SRv6 SID	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

StaticRoute/Srv6PolicyRouteEntries

This table contains IPv6 static route SRv6 Policy configuration information.

XML structure

```
<StaticRoute>
  <Srv6PolicyRouteEntries>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
```

```
      <PrefixLength></PrefixLength>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
      <Sid></Sid>
    </RouteEntry>
  </Srv6PolicyRouteEntries>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Srv6PolicyRouteEntries
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 128.	No more than 128.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	N/A,

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Color and Endpoint must be set at the same time. PolicyName and Color can not be set at the same time. IPv4 is not supported
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time. IPv4 is not supported
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.	N/A	Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	N/A
Sid	SRv6 SID	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

StaticRoute/IPv4RouteRelySRv6BE

This table contains IPv4 static route SRv6 BE configuration information.

XML structure

```
<StaticRoute>
  <IPv4RouteRelySRv6BE>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
      <RemoteSid></RemoteSid>
      <LocatorPrefixLen></LocatorPrefixLen>
```

```
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
    </RouteEntry>
  </IPv4RouteRelySRv6BE>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	IPv4RouteRelySRv6BE
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 17.0.0.0,
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 32.	No more than 32
RemoteSid	Remote SID of SRv6 BE	Index	String, colon-separated hexadecimal string.	RemoteSid and LocatorPrefixLen must be set at the same time. Can be empty.
LocatorPrefixLen	Locator Prefix Len	Index	Unsigned integer.	RemoteSid and

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 32 to 128.	LocatorPrefixLen must be set at the same time. Can be empty.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 ipv6	Now not support ipv4,
PolicyName	Name of the SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Color and Endpoint must be set at the same time. PolicyName and Color can not be set at the same time.
Endpoint	IP address of the policy endpoint	Index	Colon-separated hexadecimal string.	Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.

StaticRoute/IPv6RouteRelySRv6BE

This table contains IPv6 static route SRv6 BE configuration information.

XML structure

```
<StaticRoute>
  <IPv6RouteRelySRv6BE>
    <RouteEntry>
      <VrfName></VrfName>
      <Prefix></Prefix>
      <PrefixLength></PrefixLength>
```

```
      <RemoteSid></RemoteSid>
      <LocatorPrefixLen></LocatorPrefixLen>
      <SrAfType></SrAfType>
      <PolicyName></PolicyName>
      <Color></Color>
      <Endpoint></Endpoint>
      <Preference></Preference>
      <Tag></Tag>
      <Description></Description>
      <NoAdvertise></NoAdvertise>
    </RouteEntry>
  </IPv6RouteRelySRv6BE>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	IPv6RouteRelySRv6BE
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	Name of the VPN to which a prefix belongs.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Prefix	Destination IPv6 address.	Index	String, colon-separated hexadecimal string if AfType is ipv6.	Example: 123:1::
PrefixLength	Mask length of an IP address.prefix.	Index	Unsigned integer. Value range: 0 to 128.	No more than 128.
RemoteSid	Remote SID of BE	Index	String, colon-separated hexadecimal string if AfType is ipv6.	RemoteSid and LocatorPrefixLen must be set at the same

Column name	Column description	Column type	Data type and restrictions	Remarks
				time. Can be empty.
LocatorPrefixLen	Locator Prefix Len	Index	Unsigned integer. Value range: 32 to 128.	RemoteSid and LocatorPrefixLen must be set at the same time. Can be empty.
SrAfType	Address family type of segment routing.	Index	String: case-sensitive: • ipv4 • ipv6	Now not support ipv4,
PolicyName	Name of the SR or SRv6 policy.	Index	String, case-sensitive. Length: 1 to 59 characters.	PolicyName can not be set with Color and Endpoint at the same time.
Color	Color associated with the policy	Index	Unsigned integer. 0 to 4294967295	Color and Endpoint must be set at the same time. PolicyName and Color can not be set at the same time.
Endpoint	IP address of the policy endpoint	Index	String, dotted decimal notation if SrAfType is ipv4, or colon-separated hexadecimal string if SrAfType is ipv6.	Color and Endpoint must be set at the same time. PolicyName and Endpoint can not be set at the same time.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 150 characters.	N/A
NoAdvertise	Configure the device to not advertise the specified route.		Boolean: • **true**—not advertise the specified route. • **false**—advertise the specified route.	Default value is false.

StaticRoute/Ipv4Configuration

This table contains IPv4 static route recursion configuration information.

XML structure

```
<StaticRoute>
  <Ipv4Configuration>
```

```
      <RecursiveSrv6></RecursiveSrv6>
      <RecursiveTunnel></RecursiveTunnel>
      <RecursiveTunnelPrefixList></RecursiveTunnelPrefixList>
      <RecursiveTunnelPolicy></RecursiveTunnelPolicy>
    </Ipv4Configuration>
  </StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecursiveLookupSrv6	Whether to apply the SRv6 encapsulation information of the route obtained through recursive lookup to the static route.	N/A	Enumeration: • **disable**—Does not apply the SRv6 encapsulation information of the route obtained through recursive lookup to the static route (default). • **enable**—Applies the SRv6 encapsulation information of the route obtained through recursive lookup to the static route.	N/A
RecursiveTunnel	Static route recursive lookup to an LSP tunnel.	N/A	Enumeration: • **disable**—Disables static route recursive lookup to an LSP tunnel (default). • **enable**—Enables static route recursive lookup to an LSP tunnel.	N/A
RecursiveTunnelPrefixList	IPv4 address prefix list name.	N/A	String. Length: 1 to 63 characters.	Make sure RecursiveTunnel is enabled.
RecursiveTunnelPolicy	Tunnel policy name.	N/A	String. Length: 1 to 126 characters.	Make sure RecursiveTunnel is enabled.

StaticRoute/Ipv6Configuration

This table contains IPv6 static route recursion configuration information.b

XML structure

```
<StaticRoute>
  <Ipv6Configuration>
    <RecursiveSrv6></RecursiveSrv6>
  </Ipv6Configuration>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecursiveSrv6	Whether to apply the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route.	N/A	Enumeration: • **disable**—Does not apply the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route (default). • **enable**—Applies the SRv6 encapsulation information of the route obtained through recursive lookup to the IPv6 static route.	N/A

StaticRoute/IPv4Statistics

This table contains IPv4 static route statistics.

XML structure

```
<StaticRoute>
  <IPv4Statistics>
    <IPv4Statistic>
      <TotalPrefixes></TotalPrefixes>
      <ActivePrefixes></ActivePrefixes>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
```

```
    </IPv4Statistic>
  </IPv4Statistics>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	IPv4Statistics
Table type	Multi-instance table
Row name	IPv4Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalPrefixes	Total number of route prefixes	N/A	Unsigned integer.	N/A
ActivePrefixes	Number of active route prefixes	N/A	Unsigned integer.	N/A
TotalRoutes	Total number of routes	N/A	Unsigned integer.	N/A
ActiveRoutes	Number of active routes	N/A	Unsigned integer.	N/A

StaticRoute/IPv6Statistics

This table contains IPv6 static route statistics.

XML structure

```
<StaticRoute>
  <IPv6Statistics>
    <IPv6Statistic>
      <TotalPrefixes></TotalPrefixes>
      <ActivePrefixes></ActivePrefixes>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
    </IPv6Statistic>
  </IPv6Statistics>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	IPv6Statistics
Table type	Multi-instance table
Row name	IPv6Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalPrefixes	Total number of route prefixes	N/A	Unsigned integer.	N/A
ActivePrefixes	Number of active route prefixes	N/A	Unsigned integer.	N/A
TotalRoutes	Total number of routes	N/A	Unsigned integer.	N/A
ActiveRoutes	Number of active routes	N/A	Unsigned integer.	N/A

Contents

StaticRoute 1
StaticRoute/Ipv4StaticRouteConfigurations 1
StaticRoute/Ipv6StaticRouteConfigurations 6
Openconfig-local-routing/local-routes/static-routes/static 11
StaticRoute/SrPolicyRouteEntries 12
StaticRoute/Srv6PolicyRouteEntries 12
StaticRoute/IPv4RouteRelySRv6BE 12
StaticRoute/IPv6RouteRelySRv6BE 13
StaticRoute/Ipv4Configuration 13

StaticRoute

StaticRoute/Ipv4StaticRouteConfigurations

Message	Explanation
Route already exists. 路由已存在	Configuration already exists, when set new configuration.
Maximum number of routes has been reached. 已达到最大路由条数	Maximum number of routes has been reached.
Route does not exist. 路由不存在	The specified configuration doesn't exist, when getting or deleting it.
The specified VRF index does not exist. 目的VRF索引不存在	Please create vpn-instance first.
The specified next hop VRF index does not exist. 下一跳VRF索引不存在	Please create vpn-instance first.
The interface is not supported. 接口不支持	Only routed ports are available.
Invalid destination address. 目的地址无效	Only class A,class B,class C addresses are available.
Invalid next hop address. 下一跳无效	Only class A,class B,class C addresses are available.
Nexthop address or outbound interface must be specified one. 下一跳地址或者出接口索引必须至少设置一个	Nexthop address or outbound interface must be specified one.
The specified interface need to configure next hop address. 该接口需要配置下一跳地址	The specified interface need to configure next hop address.
The specified interface does not need to configure next hop address. 该接口不需要配置下一跳	The specified interface does not need to configure next hop address.
The backup interface is not supported. 备份接口不支持	Only routed ports are available.
The specified backup interface index need backup next hop address. 该备份出接口需要配置备份下一跳地址	The specified backup interface index need backup next hop address.
Invalid backup next hop address. 备份下一跳无效	The backup next hop address can not be all zero address.
Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured. 静态路由已配置出接口及下一跳，使能BFD检测无需配置BFD源地址	Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured.

Need bfd source address to enable bfd, if only nexthop address configured. 静态路由仅配置下一跳，使能BFD检测必须配置BFD源地址	Need bfd source address to enable bfd, if only nexthop address configured.
Invalid BFD source IP address. BFD源地址无效	Only class A,class B,class C addresses are available.
BFD can not coexist with backup attribute. 静态路由的备份路径属性不能与BFD共存	BFD can not coexist with backup attribute.
Track can not coexist with backup attribute. 静态路由的备份路径属性不能与track共存	Track can not coexist with backup attribute.
BFD can not coexist with track attribute. 静态路由的track属性不能与BFD共存	BFD can not coexist with track attribute.
Next hop VRF index should be set to . 下一跳VRF索引应该填	Next hop VRF index should be set to specified value.
The specified backup interface index does not need backup next hop address. 该备份接口不需要备份下一跳	The specified backup interface index does not need backup next hop address.
Interface has to be valid for a link-local address of nexthop. Link-local地址作为下一跳需要指定有效出接口	Interface has to be valid for a link-local address of nexthop.
Can not enable bfd echo mode for a link-local address of nexthop. Link-local地址作为下一跳不能使能BFD echo检测	Can not enable bfd echo mode for a link-local address of nexthop.
Backup interface can not been configured. 不允许配置备份出接口	Backup interface can not been configured when out interface is NULL0.
Can not enable bfd echo mode, if only next hop address configured. 静态路由仅配置下一跳，BFD Echo检测不可用	Please specify out interface.
The backup interface and next hop address can't be the same with the main interface and next hop address. 备份出接口及下一跳不能与主出接口及下一跳相同	The backup interface and next hop address can't be the same with the main interface and next hop address.
Not support BFD. 不支持BFD	BFD service has not been started.
The interface does not support BFD. 指定接口不支持BFD	BFD can not been configured when out interface is NULL0.
The specified interface index does not exist. 接口不存在	The specified interface index does not exist.
The specified backup interface index does not exist. 备份接口索引不存在	The specified backup interface index does not exist.
BFD can not coexist with permanent attribute. 静态路由的永久属性不能与BFD共存	BFD can not coexist with permanent attribute.

Track can not coexist with permanent attribute. 静态路由的永久属性不能与track共存	Track can not coexist with permanent attribute.
Please input BFD source IP address. 请输入BFD源IP地址	Please input BFD source IP address.
The specified topology index does not exist. 目的MT索引不存在	The specified topology index does not exist.
The VRF does not support topology. 私网下不支持多拓扑配置	DestTopologyIndex should be specified as zero.
The topology route does not support VRF next hop. 多拓扑路由不支持私网下一跳	DestTopologyIndex should be specified as zero.
The topology route does not support BFD. 多拓扑路由不支持关联BFD配置	DestTopologyIndex should be specified as zero.
The topology route does not support track. 多拓扑路由不支持关联track配置	DestTopologyIndex should be specified as zero.
The topology route does not support permanent attribute. 多拓扑路由不支持配置永久属性	DestTopologyIndex should be specified as zero.
Interface and Recursive look up host-route can't both be configured 出接口和迭代主机路由不能同时配置	Interface and Recursive look up host-route can't both be configured
Interface has to be valid for static route-LDP synchronization. 静态路由和LDP同步需要指定有效出接口	Interface has to be valid for static route-LDP synchronization.
When a valid next hop address exists, a VPN instance with the same name as the VSYS cannot be specified as the source VPN of the static route under the root system. 存在合法的下一跳地址时，根系统下无法将与VSYS同名的VPN实例指定为静态路由的源VPN。	When a valid next hop address exists, a VPN instance with the same name as the VSYS cannot be specified as the source VPN of the static route under the root system.
The VSYS must designate a VPN instance with the same name as the current VSYS as the source VPN instance. VSYS系统下必须将与当前VSYS系统同名的VPN实例指定为源VPN实例。	The VSYS must designate a VPN instance with the same name as the current VSYS as the source VPN instance.
The VSYS does not support multi-topology. The DestTopologyIndex must be specified as 0. VSYS系统不支持多拓扑，DestTopologyIndex需要指定为0。	The VSYS does not support multi-topology. The DestTopologyIndex must be specified as 0.
The VSYS must designate a VPN instance with the same name as the current VSYS as the destination VPN instance. VSYS系统下必须将与当前VSYS系统同名的VPN实例指定为目的VPN实例。	The VSYS must designate a VPN instance with the same name as the current VSYS as the destination VPN instance.

When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the destination VPN for the static route. 存在合法的下一跳地址时，根系统下无法将与VSYS同名的VPN实例指定为静态路由的目的VPN。	When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the destination VPN for the static route.
The root system cannot specify the interface bound to the VSYS as the output interface. 根系统下无法将与VSYS系统绑定的接口指定为下一跳出接口。	The root system cannot specify the interface bound to the VSYS as the output interface.
The interface not bound to the VSYS cannot be specified as the output interface in the VSYS. VSYS系统下无法将未与VSYS系统绑定的接口指定为下一跳出接口。	The interface not bound to the VSYS cannot be specified as the output interface in the VSYS.
The root system cannot specify the interface bound to the VSYS as the backup output interface. 根系统下无法将与VSYS系统绑定的接口指定为备份下一跳出接口。	The root system cannot specify the interface bound to the VSYS as the backup output interface.
The VSYS cannot specify the interface that is not bound to the VSYS as the backup output interface. VSYS系统下无法将未与VSYS系统绑定的接口指定为备份下一跳出接口。	The VSYS cannot specify the interface that is not bound to the VSYS as the backup output interface.
For communication between VSYSs, you must specify the VPN instance of a VSYS as the source VPN instance. 配置 VSYS 互通的静态路由时，需要将源 VPN 实例指定为与 VSYS 同名的 VPN 实例。	For communication between VSYSs, you must specify the VPN instance of a VSYS as the source VPN instance.
For communication between VSYSs, you must specify the VPN instance of a VSYS as the destination VPN instance. 配置 VSYS 互通的静态路由时，需要将目的 VPN 实例指定为与 VSYS 同名的目的 VPN 实例。	For communication between VSYSs, you must specify the VPN instance of a VSYS as the destination VPN instance.
For communication between VSYSs, the source VPN instance and the destination VPN instance can't be the same. 配置 VSYS 互通的静态路由时，源 VSYS 与目的 VSYS 不能相同。	For communication between VSYSs, the source VPN instance and the destination VPN instance can't be the same.
For communication between VSYSs, the destination VPN instance must be specified as 0. 配置 VSYS 访问根系统的静态路由时，目的 VPN 实例必须指定为 0。	For communication between VSYSs, the destination VPN instance must be specified as 0.

For communication between VSYSs, the permanent parameter is not supported. 不支持将 VSYS 互通的静态路由指定为永久静态路由。	For communication between VSYSs, the permanent parameter is not supported.
For communication between VSYSs, BackupPathAttribute is not supported. 不支持为 VSYS 互通的静态路由指定备份出接口和备份下一跳。	For communication between VSYSs, BackupPathAttribute is not supported.
For communication between VSYSs, BfdAttribute is not supported. 不支持使用BFD对VSYS互通的静态路由的下一跳可达性进行检测。	For communication between VSYSs, BfdAttribute is not supported.
For communication between VSYSs, LdpSync is not supported. 不支持 VSYS 互通的静态路由与 LDP 同步。	For communication between VSYSs, LdpSync is not supported.
For communication between VSYSs, “RecursiveHost” is not supported. 不支持 VSYS 互通的静态路由迭代到主机路由。	For communication between VSYSs, “RecursiveHost” is not supported.
To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0, and the IfIndex column must be configured. 只有下一跳为0.0.0.0且指定出接口时，才可以设置DHCP属性列	To use the DHCP column, the NexthopIpv4Address column must be set to 0.0.0.0, and the IfIndex column must be configured.
Failed to generate static route 0.0.0.0/0 because mismatched destination address and mask were configured. 配置的静态路由目的地址与掩码不匹配，静态路由0.0.0.0/0创建失败。	Failed to generate static route 0.0.0.0/0 because mismatched destination address and mask were configured.
You must specify BfdWorkMode or BfdSessionName, not both. BfdWorkMode和BfdSessionName必须且只能设置一个。	You must specify BfdWorkMode or BfdSessionName, not both.
You do not need to specify the source IP address for BFD packets. 不需要为BFD数据包指定IP源地址。	You do not need to specify the source IP address for BFD packets.
Inter-VPN static routing supports only the tag, preference, and description parameters if no next hop is specified. CrossVPN 只支持配置tag，preference，description。	Inter-VPN static routing supports on the tag, preference, and description parameters if no next hop is specified.
Source and destination VPN instances can't be the same one if no next hop is specified. CrossVPN 配置下源 vrf 和目的 vrf 不能相同。	Source and destination VPN instances cannot be the same one if no next hop is specified.
Inter-VPN static routing is not supported if no next hop is specified. 不支持 CrossVPN。	Inter-VPN static routing is not supported if no next hop is specified.

To use the FIRType column, you must specify a valid value for the IfIndex column. 必须指定有效的出接口，才能配置该路由在等价路由FIR模式中的链路类型。	To use the FIRType column, you must specify a valid value for the IfIndex column.
To use the Threshold column, you must specify the primary type for the FIRType column. 必须指定静态路由为等价路由FIR模式类型的主用链路，才能配置threshold参数。	To use the Threshold column, you must specify the primary type for the FIRType column.
The Threshold column must also be specified when the FIRType column is specified as Primary. 当静态路由为等价路由FIR模式的主用链路时，链路带宽使用率上限阈值threshold参数必须同时配置。	The Threshold column must also be specified when the FIRType column is specified as Primary.
FIR is not supported. 设备不支持配置等价路由FIR模式。	FIR is not supported.
The BfdSourceIpv4Address column must be set to 0.0.0.0 when the BfdWorkMode column is 0. 当BfdWorkMode属性列设置为0时，BfdSourceIpv4Address属性列只能设置为0.0.0.0。	The BfdSourceIpv4Address column must be set to 0.0.0.0 when the BfdWorkMode column is 0. 当 BfdWorkMode 属性列设置为 0 时，BfdSourceIpv4Address 属性列只能设置为 0.0.0.0。
Interface and Recursive look up longest-match can't both be configured 出接口和迭代到最长前缀匹配路由不能同时配置	Interface and Recursive look up longest-match can't both be configured
Recursive look up host-route and recursive look up longest-match can't both be configured 迭代到主机路由和迭代到最长前缀匹配路由不能同时配置	Recursive look up host-route and recursive look up longest-match can't both be configured
The RecursiveLongestMatch and nexthop columns must be both specified. 下一跳和最长匹配必须同时配置	The RecursiveLongestMatch and nexthop columns must be both specified.

StaticRoute/Ipv6StaticRouteConfigurations

Message	Explanation
Route already exists. 路由已存在	Configuration already exists, when set new configuration.
Maximum number of routes has been reached. 已达到最大路由条数	Maximum number of routes has been reached.
Route does not exist. 路由不存在	The specified configuration doesn't exist, when getting or deleting it.
The specified VRF index does not exist. 目的VRF索引不存在	Please create vpn-instance first.
The specified next hop VRF index does not exist. 下一跳VRF索引不存在	Please create vpn-instance first.
The interface is not supported.	Only routed ports are available.

接口不支持	
Invalid destination address. 目的地址无效	Only class A,class B,class C addresses are available.
Invalid next hop address. 下一跳无效	Only class A,class B,class C addresses are available.
Nexthop address or outbound interface must be specified one. 下一跳地址或者出接口索引必须至少设置一个	Nexthop address or outbound interface must be specified one.
The specified interface need to configure next hop address. 该接口需要配置下一跳地址	The specified interface need to configure next hop address.
The specified interface does not need to configure next hop address. 该接口不需要配置下一跳	The specified interface does not need to configure next hop address.
The backup interface is not supported. 备份接口不支持	Only routed ports are available.
The specified backup interface index need backup next hop address. 该备份出接口需要配置备份下一跳地址	The specified backup interface index need backup next hop address.
Invalid backup next hop address. 备份下一跳无效	The backup next hop address can not be all zero address.
Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured. 静态路由已配置出接口及下一跳，使能BFD检测无需配置BFD源地址	Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured.
Need bfd source address to enable bfd, if only nexthop address configured. 静态路由仅配置下一跳，使能BFD检测必须配置BFD源地址	Need bfd source address to enable bfd, if only nexthop address configured.
Invalid BFD source IP address. BFD源地址无效	Only class A,class B,class C addresses are available.
BFD can not coexist with backup attribute. 静态路由的备份路径属性不能与BFD共存	BFD can not coexist with backup attribute.
Track can not coexist with backup attribute. 静态路由的备份路径属性不能与track共存	Track can not coexist with backup attribute.
BFD can not coexist with track attribute. 静态路由的track属性不能与BFD共存	BFD can not coexist with track attribute.
Next hop VRF index should be set to . 下一跳VRF索引应该填	Next hop VRF index should be set to specified value.
The specified backup interface index does not need backup next hop address. 该备份接口不需要备份下一跳	The specified backup interface index does not need backup next hop address.
Interface has to be valid for a link-local address of	Interface has to be valid for a link-local address of nexthop.

nexthop. Link-local地址作为下一跳需要指定有效出接口	
Can not enable bfd echo mode for a link-local address of nexthop. Link-local地址作为下一跳不能使能BFD echo检测	Can not enable bfd echo mode for a link-local address of nexthop.
Backup interface can not been configured. 不允许配置备份出接口	Backup interface can not been configured when out interface is NULL0.
Can not enable bfd echo mode, if only next hop address configured. 静态路由仅配置下一跳，BFD Echo检测不可用	Please specify out interface.
The backup interface and next hop address can't be the same with the main interface and next hop address. 备份出接口及下一跳不能与主出接口及下一跳相同	The backup interface and next hop address can't be the same with the main interface and next hop address.
Not support BFD. 不支持BFD	BFD service has not been started.
The interface does not support BFD. 指定接口不支持BFD	BFD can not been configured when out interface is NULL0.
The specified interface index does not exist. 接口不存在	The specified interface index does not exist.
The specified backup interface index does not exist. 备份接口索引不存在	The specified backup interface index does not exist.
BFD can not coexist with permanent attribute. 静态路由的永久属性不能与BFD共存	BFD can not coexist with permanent attribute.
Track can not coexist with permanent attribute. 静态路由的永久属性不能与track共存	Track can not coexist with permanent attribute.
Invalid next hop IPv6 address. It must be a global unicast address. 无效下一跳地址。下一跳必须是全球单播地址	Invalid next hop IPv6 address. It must be a global unicast address.
Invalid BFD source IPv6 address. BFD源IPv6地址无效	The BFD source IPv6 address cannot be all 0s ,multicast address or loopback address.,.
Please input BFD source IPv6 address. 请输入BFD源IPv6地址	Please input BFD source IPv6 address.
IPv6 address family does not support topology. IPv6地址族不支持多拓扑配置	DestTopologyIndex should be specified as zero.
Please input BFD source IP address. 请输入BFD源IP地址	Please input BFD source IP address.
The specified topology index does not exist. 目的MT索引不存在	The specified topology index does not exist.
The VRF does not support topology. 私网下不支持多拓扑配置	DestTopologyIndex should be specified as zero.
The topology route does not support VRF next hop.	DestTopologyIndex should be specified as zero.

多拓扑路由不支持私网下一跳	
The topology route does not support BFD. 多拓扑路由不支持关联BFD配置	DestTopologyIndex should be specified as zero.
The topology route does not support track. 多拓扑路由不支持关联track配置	DestTopologyIndex should be specified as zero.
The topology route does not support permanent attribute. 多拓扑路由不支持配置永久属性	DestTopologyIndex should be specified as zero.
Interface and Recursive look up host-route can't both be configured 出接口和迭代主机路由不能同时配置	Interface and Recursive look up host-route can't both be configured
When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the source VPN of the static route. 存在合法的下一跳地址时，根系统下无法将与VSYS同名的VPN实例指定为静态路由的源VPN。	When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the source VPN of the static route.
The VSYS must designate a VPN instance with the same name as the current VSYS as the source VPN instance. VSYS系统下必须将与当前VSYS系统同名的VPN实例指定为源VPN实例。	The VSYS must designate a VPN instance with the same name as the current VSYS as the source VPN instance.
The VSYS does not support multi-topology. The DestTopologyIndex must be specified as 0. VSYS系统不支持多拓扑，DestTopologyIndex需要指定为0。	The VSYS does not support multi-topology. The DestTopologyIndex must be specified as 0.
The VSYS must designate a VPN instance with the same name as the current VSYS as the destination VPN instance. VSYS系统下必须将与当前VSYS系统同名的VPN实例指定为目的VPN实例。	The VSYS must designate a VPN instance with the same name as the current VSYS as the destination VPN instance.
When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the destination VPN for the static route. 存在合法的下一跳地址时，根系统下无法将与VSYS同名的VPN实例指定为静态路由的目的VPN。	When a valid next hop address exists, the root system cannot specify a VPN instance with the same name as VSYS as the destination VPN for the static route.
The root system cannot specify the interface bound to the VSYS as the output interface. 根系统下无法将与VSYS系统绑定的接口指定为下一跳出接口。	The root system cannot specify the interface bound to the VSYS as the output interface.
The interface not bound to the VSYS cannot be specified as the output interface in the VSYS. VSYS系统下无法将未与VSYS系统绑定的接口指定为下一跳出接口。	The interface not bound to the VSYS cannot be specified as the output interface in the VSYS.
For communication between VSYSs, you must specify the VPN instance of a VSYS as the source VPN instance.	For communication between VSYSs, you must specify the VPN instance of a VSYS as the source VPN instance.

配置 VSYS 互通的静态路由时，需要将源 VPN 实例指定为与 VSYS 同名的 VPN 实例。。	
For communication between VSYSs, you must specify the VPN instance of a VSYS as the destination VPN instance. 配置 VSYS 互通的静态路由时，需要将目的 VPN 实例指定为与 VSYS 同名的 VPN 实例。	For communication between VSYSs, you must specify the VPN instance of a VSYS as the destination VPN instance.
For communication between VSYSs, the source VPN instance and the destination VPN Instance can't be the same. 配置 VSYS 互通的静态路由时，源 VSYS 与目的 VSYS 不能相同。	For communication between VSYSs, the source VPN instance and the destination VPN Instance can't be the same.
For communication between VSYSs, the destination VPN instance must be specified as 0. 配置 VSYS 访问根系统的静态路由时，目的 VPN 实例必须指定为 0。	For communication between VSYSs, the destination VPN instance must be specified as 0.
For communication between VSYSs, the permanent parameter is not supported. 不支持将 VSYS 互通的静态路由指定为永久静态路由。	For communication between VSYSs, the permanent parameter is not supported.
For communication between VSYSs, BfdAttribute is not supported. 不支持使用 BFD 对 VSYS 互通的静态路由的下一跳可达性进行检测。	For communication between VSYSs, BfdAttribute is not supported.
Failed to generate IPv6 static route ::/0 because mismatched IPv6 prefix and prefix length were configured. 配置的静态路由目的地址与掩码不匹配，静态路由::/0 创建失败。	Failed to generate IPv6 static route ::/0 because mismatched IPv6 prefix and prefix length were configured.
Inter-VPN static routing supports only the tag, preference, and description parameters if no next hop is specified. CrossVPN 只支持配置 tag，preference，description。	Inter-VPN static routing supports only the tag, preference, and description parameters if no next hop is specified.
Source and destination VPN instances can't be the same one if no next hop is specified. CrossVPN 配置下源 vrf 和目的 vrf 不能相同。	Source and destination VPN instances cannot be the same one if no next hop is specified.
Inter-VPN static routing is not supported if no next hop is specified. 不支持 CrossVPN。	Inter-VPN static routing is not supported if no next hop is specified.
To use the FIRType column, you must specify a valid value for the IfIndex column. 必须指定有效的出接口，才能配置该路由在等价路由FIR模式中的链路类型。	To use the FIRType column, you must specify a valid value for the IfIndex column.
To use the Threshold column, you must specify the primary type for the FIRType column.	To use the Threshold column, you must specify the primary type for the FIRType column.

必须指定静态路由为等价路由FIR模式类型的主用链路，才能配置threshold参数。	
The Threshold column must also be specified when the FIRType column is specified as Primary. 当静态路由为等价路由FIR模式的主用链路时，链路带宽使用率上限阈值threshold参数必须同时配置。	The Threshold column must also be specified when the FIRType column is specified as Primary.
FIR is not supported. 设备不支持配置等价路由FIR模式。	FIR is not supported.
The BfdSourceIpv6Address column must be set to 0::0 when the BfdWorkMode column is 0. 当BfdWorkMode属性列设置为0时，BfdSourceIpv6Address 属性列只能设置为0::0。	The BfdSourceIpv6Address column must be set to 0::0 when the BfdWorkMode column is 0. 当 BfdWorkMode 属性列设置为 0 时，BfdSourceIpv6Address 属性列只能设置为 0::0。
To use the Gateway column, the NexthopIpv6Address column must be set to :: , and the IfIndex column must be configured. 只有下一跳为:: 且指定出接口时，才可以设置Gateway属性列	To use the Gateway column, the NexthopIpv6Address column must be set to :: , and the IfIndex column must be configured.
The Permanent column can not coexist with the Gateway column. 静态路由的Permanent属性不能与Gateway属性共存	The Permanent column can not coexist with the Gateway column.
For communication between vSystems,the Gateway column is not supported. 不支持为VSYS互通的静态路由指定网关下一跳	For communication between vSystems,the Gateway column is not supported.
Interface and Recursive look up longest-match can't both be configured 出接口和迭代到最长前缀匹配路由不能同时配置	Interface and Recursive look up longest-match can't both be configured
The RecursiveLongestMatch and nexthop columns must be both specified. 下一跳和最长匹配必须同时配置	The RecursiveLongestMatch and nexthop columns must be both specified.

Openconfig-local-routing/local-routes/static-routes/static

Message	Explanation
It is not STATIC 不是静态路由协议号	The identifier should be specified as STATIC.
Instance name must be default 进程号必须为default	Instance name must be default when you configure a static route.

StaticRoute/SrPolicyRouteEntries

Message	Explanation
PolicyName and color+endpoint of srv6-policy can not be set at the same time. Srv6-policy的policyname和color+endpoint不能同时设置.	PolicyName and color+endpoint of srv6-policy can not be set at the same time.
Color and endpoint must be set at the same time. Color和endpoint必须同时设置	Color and endpoint must be set at the same time.
IPv4 static route does not support color+endpoint if SrAfType is IPv4. IPv4静态路由当SrAfType = IPv4时不支持color+endpoint	IPv4 static route does not support color+endpoint if SrAfType is IPv4.
SR-MPLS TE policy settings are not supported. 不支持SR-MPLS TE Policy的相关配置	SR-MPLS TE policy settings are not supported.
SRv6 TE policy settings are not supported. 不支持SRv6 TE Policy的相关配置	SRv6 TE policy settings are not supported.

StaticRoute/Srv6PolicyRouteEntries

Message	Explanation
PolicyName and color+endpoint of srv6-policy can not be set at the same time. Srv6-policy的policyname和color+endpoint不能同时设置.	PolicyName and color+endpoint of srv6-policy can not be set at the same time.
Color and endpoint must be set at the same time. Color和endpoint必须同时设置	Color and endpoint must be set at the same time.
Ipv6 static route only support ipv6 for SrAfType. ipv6静态路由，SrAfType仅支持ipv6	Ipv6 static route only support ipv6 for SrAfType.
IPv6 static route does not support color+endpoint if SrAfType is IPv4. IPv6静态路由当SrAfType = IPv4时不支持color+endpoint	IPv6 static route does not support color+endpoint if SrAfType is IPv4.
SRv6 TE policy settings are not supported. 不支持SRv6 TE Policy的相关配置	SRv6 TE policy settings are not supported.

StaticRoute/IPv4RouteRelySRv6BE

Message	Explanation
PolicyName and color+endpoint of srv6-policy can not be set at the same time. Srv6-policy的policyname和color+endpoint不能同时设置.	PolicyName and color+endpoint of srv6-policy can not be set at the same time.

Color and endpoint must be set at the same time. Color和endpoint必须同时设置	Color and endpoint must be set at the same time.
Ipv4 static route does not support color+endpoint if SrAfType is ipv4. Ipv4静态路由当SrAfType = ipv4时不支持color+endpoint	Ipv4 static route does not support color+endpoint if SrAfType is ipv4.
The RemoteSid and LocatorPrefixLen parameters must be specified in pairs. RemoteSid和LocatorPrefixLen必须同时设置	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs.

StaticRoute/IPv6RouteRelySRv6BE

Message	Explanation
PolicyName and color+endpoint of srv6-policy can not be set at the same time. Srv6-policy的policyname和color+endpoint不能同时设置.	PolicyName and color+endpoint of srv6-policy can not be set at the same time.
Color and endpoint must be set at the same time. Color和endpoint必须同时设置	Color and endpoint must be set at the same time.
Ipv6 static route only support ipv6 for SrAfType. ipv6静态路由，SrAfType仅支持ipv6	Ipv6 static route only support ipv6 for SrAfType.
The RemoteSid and LocatorPrefixLen parameters must be specified in pairs. RemoteSid和LocatorPrefixLen必须同时设置	The RemoteSid and LocatorPrefixLen parameters must be specified in pairs.

StaticRoute/Ipv4Configuration

Message	Explanation
To configure static route recursion to an LSP tunnel, you must configure the RecursiveTunnel column. 当配置允许静态路由迭代LSP隧道功能时，必须指定RecursiveTunnel 属性列。	To configure static route recursion to an LSP tunnel, you must configure the RecursiveTunnel column.
If the RecursiveTunnel column is set to disabled, you are not allowed to configure the RecursiveTunnelPrefixList column. 如果配置RecursiveTunnel 属性列为disable，则不允许配置 RecursiveTunnelPrefixList 属性列。	If the RecursiveTunnel column is set to disabled, you are not allowed to configure the RecursiveTunnelPrefixList column.
If the RecursiveTunnel column is set to disabled, you are not allowed to configure the RecursiveTunnelPolicy column. 如果配置RecursiveTunnel 属性列为disable，则不允许配置RecursiveTunnelPolicy属性列。	If the RecursiveTunnel column is set to disabled, you are not allowed to configure the RecursiveTunnelPolicy column.

Contents

STP 1
STP/ClearAllIfStatistics 1
XML structure 1
Table description 1
Columns 1
STP/ClearInterfacesStatistics 1
XML structure 1
Table description 2
Columns 2
STP/MigrationCheck 2
XML structure 2
Table description 2
Columns 3

STP

STP/ClearAllIfStatistics

This table clear the statistics of STP on all interfaces.

XML structure

```
<STP>
  <ClearAllIfStatistics>
    <Clear></Clear>
  </ClearAllIfStatistics>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear the STP statistics on all interfaces.	N/A	This column must be empty.

STP/ClearInterfacesStatistics

This table clears the STP statisitcs information per interface.

XML structure

```
<STP>
  <ClearInterfacesStatistics>
    <InterfaceStatistics>
      <IfIndex></IfIndex>
```

```
      <Clear></Clear>
    </InterfaceStatistics>
  </ClearInterfacesStatistics>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	ClearInterfacesStatistics
Table type	Multi-instance table
Row name	InterfaceStatistics
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Clear	Clears statistics on the the specified interface.	N/A	This column must be empty.

STP/MigrationCheck

This table performs the MCheck operation to migrate all ports back from STP mode to current configuration mode.

XML structure

```
<STP>
  <MigrationCheck>
      <MCheck></MCheck>
  </MigrationCheck>
</STP>
```

Table description

Item	Description
Feature name	STP

Table name	MigrationCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MCheck	Force all interfaces to send BPDUs according to the protocol verison while working in RSTP or MSTP mode.	N/A	This column must be empty

Contents

STP 1
STP/Base 1
XML structure 1
Table description 1
Columns 1
STP/Region 3
XML structure 3
Table description 3
Columns 3
STP/StiVlans 4
XML structure 4
Table description 4
Columns 4
STP/STIs 5
XML structure 5
Table description 5
Columns 6
STP/Interfaces 6
XML structure 6
Table description 7
Columns 7
STP/StiInterfaces 9
XML structure 9
Table description 9
Columns 9
STP/Vlans 10
XML structure 10
Table description 10
Columns 11
STP/VlanInterfaces 11
XML structure 12
Table description 12
Columns 12

STP

STP/Base

This table contains information about global STP functions.

XML structure

```
<STP>
  <Base>
    <Enable></Enable>
    <BPDUProtect></BPDUProtect>
    <Mode></Mode>
    <TcProtect></TcProtect>
    <TcThreshold></TcThreshold>
    <PathCostMethod></PathCostMethod>
    <HelloTime></HelloTime>
    <MaxHops></MaxHops>
    <MaxAge></MaxAge>
    <ForwardDelay></ForwardDelay >
    <TcSnooping></TcSnooping>
    <DigestSnooping></DigestSnooping>
    <IgnoreVlanList></IgnoreVlanList>
  </Base>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global STP feature	N/A	Boolean: • **true**—Enables STP. • **false**—Disables STP.

Column name	Column description	Column type	Data type and restrictions
BPDUProtect	Global BPDU guard function	N/A	Boolean: • **true**—Enables BPDU guard. • **false**—Disables BPDU guard (default).
Mode	Working mode of the spanning tree protocol	N/A	Enumeration: • **0**—STP. • **2**—RSTP. • **3**—MSTP(default). • **4**—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: • **true**—Enables TC guard • (default). • **false**—Disables TC guard.
TcThreshold	Maximum number of TC-BPDUs that can be processed within an interval	N/A	Unsigned integer. • **Value range:1-255**. • Default: 6.
PathCostMethod	Path cost calculation method	N/A	Enumeration: • **0**—Legacy (default). • **1**—`802.1D-1998`. • **2**—**802.1t**.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. • **Value range:1-10**. • Default: 2.
MaxHops	Maximum hops of the MST region scope	N/A	Unsigned integer. • **Value range:1-40**. • Default: 20.
MaxAge	Maximum of message aging timer	N/A	Unsigned integer. • **Value range:6-40**. • Default: 20.
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. • **Value range:4-30**. • Default: 15.
TcSnooping	TC snooping function	N/A	**Boolean:** • **true—Enables TC snooping.** • **false—Disables TC snooping(default).**
DigestSnooping	Global MST digest snooping function	N/A	**Boolean:** • **true—Enables digest snooping.** • **false—Disables digest snooping(default).**

Column name	Column description	Column type	Data type and restrictions
IgnoreVlanList	List of VLANs ignored by stp	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters. • **`VLAN ID range:1-4094.`** • Default：All VLANs are allocated to spanning tree instance 0(CIST).

STP/Region

This table contains information about MST region configuration.

XML structure

```
<STP>
  <Region>
    <Name></Name>
    <RevisionLevel></RevisionLevel>
  </Region>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Region
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	MST region name	N/A	String. Length: 1 to 32 characters. • Default: Hex-string of the bridge MAC address.	When a new region name is configured, the active region configuration will be changed.

Column name	Column description	Column type	Data type and restrictions	Remarks
RevisionLevel	Revision level of the MST region	N/A	Unsigned integer. • **Value range: 0-65535.** • **Default: 0.**	When a new revision level is configured, the active region configuration will be changed.

STP/StiVlans

This table contains information about the VLAN allocation of an MST region.

XML structure

```
<STP>
  <StiVlans>
    <StiVlan>
      <StiId></StiId>
      <VlanList></VlanList>
    </StiVlan>
  </StiVlans>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	StiVlans
Table type	Multi-instance table
Row name	StiVlan
Restrictions	All rows should be wrapped within a whole configuration message, following the region table above.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. • **Value range: 1-4094.**	

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanList	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. • The string must not end with a comma or hyphen, or include any whitespace characters. • **Default:All VLANs are allocated to spanning tree instance 0(CIST).**	• Each VLAN can only be allocated to one MST instance. • Each item can be an individual VLAN ID or a VLAN ID range. A hyphen (-) indicates a VLAN range from the start VLAN ID to end VLAN ID. For example: 1, 2, 3, 5-8, and 10-20. • VLAN ID range: 1-4094

STP/STIs

This table contains information about STP functions for a spanning tree.

XML structure

```
<STP>
  <STIs>
    <STI>
      <StiId></StiId>
      <Priority></Priority>
      <RootType></RootType>
    </STI>
  </STIs>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	STIs
Table type	Multi-instance table
Row name	STI
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. • **Value range: 0-4094.**	
Priority	Bridge priority of the spanning tree	N/A	Unsigned integer. • **Value range: 0-61440, in** increments of 4096 (as in 0, 4096, 8192**).** • **Default: 32768.**	Configuration is not allowed when the root type is configured as primary root or secondary root, except for the following values combination: 1)priority is 0 when root type is ‘primary’. 2)priority is 4096 when root type is ‘secondary’'.
RootType	Root type of the bridge	N/A	Enumeration: • **0**—Normal(default). • **1**—Secondary root. • **2**—Primary root.	

STP/Interfaces

This table contains information about interface-level STP functions.

XML structure

```
<STP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <EdgedPort></EdgedPort>
      <PointToPoint></PointToPoint>
      <RootProtect></RootProtect>
      <LoopProtect></LoopProtect>
      <LoopbackProtect></LoopbackProtect>
      <RoleRestrict></RoleRestrict>
      <TcRestrict></TcRestrict>
      <DigestSnooping></DigestSnooping>
      <TransmitHoldCount></TransmitHoldCount>
    </Interface>
  </Interfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. `Length: 32 bits.`	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
Enable	Interface STP feature	N/A	Boolean: • **true**—Enables STP (default). • **false**—Disables STP.	
EdgedPort	Interface edge port configuration	N/A	Boolean: • **true**—Configures the interface as an edge port. **It should not be configured while the loop protection is enabled.** • **false**—Configures the interface as a non-edge port (default).	
PointToPoint	Interface point-to-point configuration status	N/A	Enumeration: • **1**—Force-true. • **2**—Force-false. • **3**—**Auto** (default).	
RootProtect	Interface root guard function	N/A	Boolean: • **true**—Enables root protection. • **It should not be configured while the loop protection is enabled**.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disables root protection • (default).	
LoopProtect	Interface loop guard function	N/A	Boolean: • **true**—Enables loop protection. • **It should not be configured whether the root protection or edge-port is enabled**. • **false**—Disables loop protection • (default).	
LoopbackProtect	Interface loopback guard function	N/A	Boolean: • **true**—Enables loopback protection. (default). • **false**—Disables loopback protection	
RoleRestrict	Interface role restriction function	N/A	**Boolean:** • **true**—Enables role restriction. • **false**—Disables role restriction (default).	
TcRestrict	Interface TC restriction function	N/A	**Boolean:** • **true**—Enables TC restriction. • **false**—Disables TC restriction (default).	
DigestSnooping	Interface MST digest snooping function	N/A	**Boolean:** • **true**—Enables digest snooping. • **false**—Disables digest snooping (default).	
TransmitHoldCount	Interface transmit hold count, which is the maximum number of BPDUs that can be transmitted per seconds	N/A	Unsigned integer. • **Value range:1-255.** • **Default: 10.**	

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface	<IfIndex>1</IfIndex>

	index	
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serail0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serail0/0/2</IfIndex>

STP/StiInterfaces

This table contains information about interface-level STP functions for a spanning tree.

XML structure

```
<STP>
  <StiInterfaces>
    <StiInterface>
      <StiId></StiId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
    </StiInterface>
  </StiInterfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	StiInterfaces
Table type	Multi-instance table
Row name	StiInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
StiId	Spanning tree index	Index	Unsigned integer. • **Value range: 0-4094.**

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. • **Value range: 0-240, in** increments of 16 (as in 0, 16, 32**).** • **Default: 128.**
PathCost	Spanning tree path cost of an interface	N/A	**Unsigned integer.** • **Legacy value range: 0-200000.** • **802.1D-1998 value range: 0-65535.** • **802.1t value range: 0-200000000.** • **Default: 0. The actual cost will be automatically calculated according to the calculation method configured in STP Base table.**

STP/Vlans

This table contains information about PVST functions for a VLAN.

XML structure

```
<STP>
  <VLANs>
    <VLAN>
      <VlanId></VlanId>
      <Enable></Enable>
      <Priority></Priority>
      <RootType></RootType>
      <BridgeTimes>
        <HelloTime></HelloTime>
        <MaxAge></MaxAge>
        <ForwardDelay></ForwardDelay>
      </BridgeTimes>
    </VLAN>
  </VLANs>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. • **Value range: 1-4094.**	The max VLAN ID of some product may be 4093.
Enable	PVST feature status	N/A	Boolean: • **true**—Enables PVST(default). • **false**—Disables PVST.	
Priority	Priority of the VLAN	N/A	Unsigned integer. • **Value range: 0-61440, in** increments of 4096 (as in 0, 4096, 8192**).** • **Default: 32768.**	Configuration is not allowed when the root type is configured as primary root or secondary root, except for the following values combination: 1)priority is 0 when root type is ‘primary’. 2)priority is 4096 when root type is ‘secondary’.
RootType	Root type of the VLAN	N/A	Enumeration: • **0**—Normal(default). • **1**—Secondary root. • **2**—Primary root.	
BridgeTimes	The bridge timers currently used	N/A	Struct, include members: • HelloTime. • MaxAge. • ForwardDelay.	
HelloTime	Hello timer in seconds	N/A	Unsigned integer. • **Value range:1-10**. • **Default: 2.**	
MaxAge	Maximum of message age	N/A	Unsigned integer. • **Value range:6-40**. • **Default: 20.**	
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. • **Value range:4-30**. • **Default: 15.**	

STP/VlanInterfaces

This table contains information about interface-level PVST functions for a VLAN.

XML structure

```
<STP>
  <VlanInterfaces>
    <VlanInterface>
      <VlanId></VlanId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
    </VlanInterface>
  </VlanInterfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	VlanInterfaces
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VlanId	VLAN index	Index	Unsigned integer. • **Value range: 1-4094.**
IfIndex	Interface index	Index	Unsigned integer.
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. • **Value range: 0-240, in** increments of 16 (as in 0, 16, 32**).** • **Default: 128.**
PathCost	Spanning tree path cost of an interface	N/A	**Unsigned integer.** • **Legacy value range: 0-200000.** • **802.1D-1998 value range: 0-65535.** • **802.1t value range: 0-200000000.** • **Default: 0. The actual cost will be automatically calculated according to the calculation method configured in STP Base table.**

Contents

STP 1
STP/Base 1
XML structure 1
Table description 1
Columns 1
STP/Region 3
XML structure 3
Table description 3
Columns 3
STP/StiVlans 3
XML structure 4
Table description 4
Columns 4
STP/STIs 4
XML structure 5
Table description 5
Columns 5
STP/Interfaces 7
XML structure 7
Table description 8
Columns 8
STP/StiInterfaces 10
XML structure 10
Table description 11
Columns 11
STP/Vlans 13
XML structure 13
Table description 14
Columns 14
STP/VlanInterfaces 15
XML structure 16
Table description 16
Columns 17
STP/StiStates 18
XML structure 18
Table description 19
Columns 19

STP

STP/Base

This table contains global STP information.

XML structure

```
<STP>
  <Base>
    <Enable></Enable>
    <BPDUProtect></BPDUProtect>
    <Mode></Mode>
    <TcProtect></TcProtect>
    <TcThreshold></TcThreshold>
    <PathCostMethod></PathCostMethod>
    <HelloTime></HelloTime>
    <MaxHops></MaxHops>
    <MaxAge></MaxAge>
    <ForwardDelay></ForwardDelay>
    <TcSnooping></TcSnooping>
    <DigestSnooping></DigestSnooping>
    <IgnoreVlanList></IgnoreVlanList>
  </Base>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global STP feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
BPDUProtect	Global BPDU guard function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
Mode	Working mode of the spanning tree protocol	N/A	Enumeration: • **0**—STP. • **2**—RSTP. • **3**—MSTP. • **4**—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
TcThreshold	Maximum number of TC-BPDUs that can be processed within an interval	N/A	Unsigned integer. Value range: 1 to 255.
PathCostMethod	Path cost calculation method	N/A	Enumeration: • **0**—Legacy. • **1**—802.1D-1998. • **2**—802.1t.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.
MaxHops	Maximum hops of the MST region scope	N/A	Unsigned integer. Value range: 1 to 40.
MaxAge	Maximum of message aging timer	N/A	Unsigned integer. Value range: 6 to 40.
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.
TcSnooping	TC snooping function	N/A	**Boolean:** • **true—Enables** TC **snooping.** • **false—**Dis**ables** TC **snooping**.
DigestSnooping	Global MST digest snooping function	N/A	**Boolean:** • **true—Enables digest snooping.** • **false—**Dis**ables digest snooping**.
IgnoreVlanList	List of VLANs ignored by stp	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters. • **VLAN ID range:1-4094.**

STP/Region

This table contains MST region configuration information.

XML structure

```
<STP>
  <Region>
    <Name></Name>
    <RevisionLevel></RevisionLevel>
    <FormatSelector></FormatSelector>
    <ConfigDigest></ConfigDigest>
  </Region>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Region
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The active MST region name	N/A	String. Length: 1 to 32 characters.	N/A
RevisionLevel	The active revision level of the MST region	N/A	Unsigned integer Value range: 0 to 65535.	N/A
FormatSelector	The configuration Identifier Format selector	N/A	Enumeration: **0**—Indicates the format specified in 802.1Q**.**	N/A
ConfigDigest	Digest of VLAN-to-instance mappings for the MST region	N/A	Octet string. Length: 34 octets.	It's a hex-string with a prefix of 0x.

STP/StiVlans

This table contains information about the VLAN allocation of an MST region.

XML structure

```
<STP>
  <StiVlans>
    <StiVlan>
      <StiId></StiId>
      <VlanList></VlanList>
    </StiVlan>
  </StiVlans>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	StiVlans
Table type	Multi-instance table
Row name	StiVlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. **Value range: 0** to **4094.**	N/A
VlanList	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters.	• Each VLAN can only be allocated to one MST instance. • Each item can be an individual VLAN ID or a VLAN ID range. A hyphen (-) indicates a VLAN range from the start VLAN ID to the end VLAN ID. For example: 1, 2, 3, 5-8, and 10-20. • VLAN ID range: 1 to 4094.

STP/STIs

This table contains information about STP functions for a spanning tree.

XML structure

```
<STP>
  <STIs>
    <STI>
      <StiId></StiId>
      <Priority></Priority>
      <RootType></RootType>
      <BridgeId></BridgeId>
      <TCs>
        <ReceiveTcOrTcn></ReceiveTcOrTcn>
        <LastTcTime></LastTcTime>
      </TCs>
      <RootVector>
        <RootId></RootId>
        <ExtPathCost></ExtPathCost>
        <RegionRootId></RegionRootId>
        <IntPathCost></IntPathCost>
        <DesignateBridgeId></DesignateBridgeId>
        <DesignatePortId></DesignatePortId>
        <RootPort></RootPort>
      </RootVector>
    </STI>
  </STIs>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	STIs
Table type	Multi-instance table
Row name	STI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. **Value range: 0** to **4094.**	If an instance is not in running state, and the values of the Priority and RootType columns are the default, the instance is not created, and data cannot be got.

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Bridge priority of the spanning tree	N/A	Unsigned integer. **Value range: 0** to 61440	N/A
RootType	Root type of the bridge	N/A	Enumeration: • **0**—Normal. • **1**—Secondary root. • **2**—Primary root.	N/A
BridgeId	Spanning tree bridge Identifier	N/A	Octet string. Length: 18 octets**.**	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, and the 2-4 hex-character s indicates the system ID, the other hex-string indicates the bridge MAC address.
TCs	Topology change information	N/A	Struct, include members: • **ReceiveTcOrTcn**. • **LastTcTime**.	N/A
ReceiveTcOrTcn	Count of received TC or TCN	N/A	Unsigned integer. Length: 32 bits**.**	N/A
LastTcTime	Time of last received TC or detected TC, in 10ms	N/A	Unsigned integer. Length: 64 bits**.**	N/A
RootVector	Root priority vector	N/A	Struct, include members: • **RootBridgeId**. • **ExtPathCost**. • **DesignateBridgeId**. • **IntPathCost**. • **RootPort**.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets**.** Not used by MSTIs.	As the remark of BridgeId above.
ExtPathCost	External path cost.	N/A	Unsigned integer. Length: 32 bits**.** Not used by MSTIs.	N/A
RegionRootId	Region root bridge Identifier	N/A	Octet string. Length: 18 octets**.**	As the remark of BridgeId above.
IntPathCost	Internal path cost	N/A	Unsigned integer. Length: 32 bits**.**	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets**.**	As the remark of BridgeId above.
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets**.**	It's a hex-string with a prefix of 0x, and the first 2 hex-characters indicate a port priority, and the other hex-string indicates a port

Column name	Column description	Column type	Data type and restrictions	Remarks
				number.
RootPort	Interface index of root port	N/A	Unsigned integer. Length: 32 bits.	N/A

STP/Interfaces

This table contains interface-level STP information.

XML structure

```
<STP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <EdgedPort></EdgedPort>
      <OperEdgedPort></OperEdgedPort>
      <PointToPoint></PointToPoint>
      <OperPointToPoint></OperPointToPoint>
      <RootProtect></RootProtect>
      <LoopProtect></LoopProtect>
      <LoopbackProtect></LoopbackProtect>
      <RoleRestrict></RoleRestrict>
      <TcRestrict></TcRestrict>
      <ProtectDown></ProtectDown>
      <DigestSnooping></DigestSnooping>
      <TransmitHoldCount></TransmitHoldCount>
      <PortTimes>
        <HelloTime></HelloTime>
        <ForwardDelay></ForwardDelay>
        <MaxAge></MaxAge>
        <MessageAge></MessageAge>
      </PortTimes>
      <PortBpduCount>
        <TxMstBpdu></TxMstBpdu>
        <RxMstBpdu></RxMstBpdu>
        <TxRstBpdu></TxRstBpdu>
        <RxRstBpdu></RxRstBpdu>
        <TxConfigBpdu></TxConfigBpdu>
        <RxConfigBpdu></RxConfigBpdu>
        <TxTcn></TxTcn>
        <RxTcn></RxTcn>
        <RxInvalidBpdu></RxInvalidBpdu>
        <LastInvalidBpduTime></LastInvalidBpduTime>
      </PortBpduCount>
```

```
    </Interface>
  </Interfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
Enable	Interface STP feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
EdgedPort	Interface edge port configuration	N/A	Boolean: • **true**—Edge port. • **false**—Non-edge port.
OperEdgedPort	Interface operational edge port status	N/A	Boolean: • **true**—Edge port. • **false**—Non-edge port.
PointToPoint	Interface point-to-point configuration status	N/A	Enumeration: • **1**—Force-true. • **2**—Force-false. • **3**—Auto.
OperPointToPoint	Interface operational point-to-point status	N/A	Boolean: • **true**—Point-to-Point. • **false**—Not point-to-point.
RootProtect	Interface root guard function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
LoopProtect	Interface loop guard function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
LoopbackProtect	Interface loopback guard function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Column name	Column description	Column type	Data type and restrictions
RoleRestrict	Interface role restriction function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
TcRestrict	Interface TC restriction function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
ProtectDown	Interface protection shutdown status	N/A	Enumeration: • **0**—Not shutdown. • **1**—Edge Port down. • **2**—PVST BPDU down.
DigestSnooping	Interface MST digest snooping function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
TransmitHoldCount	Interface transmission hold count	N/A	Unsigned integer. Value range: 1 to 255.
PortTimes	Interface protocol timers	N/A	Struct, include the following members: • **HelloTime**. • **ForwardDelay**. • **RemainHops**. • **MaxAge**. • **MessageAge**.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.
ForwardDelay	Interface forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.
MaxAge	Interface maximum message age	N/A	Unsigned integer. Value range: 6 to 40.
MessageAge	Interface message age	N/A	Unsigned integer. Length: 32 bits.
PortBpduCount	Interface received or transmitted BPDU count per type	N/A	Struct, include the following members: • **TxMstBpdu**. • **RxMstBpdu**. • **TxRstpBpdu**. • **RxRstpBpdu**. • **TxConfigBpdu**. • **RxConfigBpdu**. • **TxTcn**. • **RxTcn**. • **RxInvalidBpdu**. • **LastInvalidBpduTime**.
TxMstBpdu	Count of transmitted MSTP BPDU	N/A	Unsigned integer. Length: 64 bits. Not used by PVST.

Column name	Column description	Column type	Data type and restrictions
RxMstBpdu	Count of received MSTP BPDUs	N/A	Unsigned integer. Length: 64 bits. Not used by PVST.
TxRstBpdu	Count of transmitted RSTP BPDUs	N/A	Unsigned integer. Length: 64 bits.
RxRstBpdu	Count of received RSTP BPDUs	N/A	Unsigned integer. Length: 64 bits.
TxConfigBpdu	Count of transmitted 802.1D configuration BPDUs	N/A	Unsigned integer. Length: 64 bits.
RxConfigBpdu	Count of received 802.1D configuration BPDUs	N/A	Unsigned integer. Length: 64 bits.
TxTcn	Count of transmitted TCN messages	N/A	Unsigned integer. Length: 64 bits.
RxTcn	Count of received TCN messages	N/A	Unsigned integer. Length: 64 bits.
RxInvalidBpdu	Count of received invalid BPDUs	N/A	Unsigned integer. Length: 64 bits.
LastInvalidBpduTime	Last time when an invalid BPDU was received, in seconds	N/A	Unsigned integer. Length: 64 bits.

STP/StiInterfaces

This table contains information about interface-level STP functions for a spanning tree.

XML structure

```
<STP>
  <StiInterfaces>
    <StiInterface>
      <StiId></StiId>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Priority></Priority>
      <PathCost></PathCost>
      <OperPathCost></OperPathCost>
      <Role></Role>
      <State></State>
      <ProtectBlock></ProtectBlock>
      <RapidTransit></RapidTransit>
      <RemainHops></RemainHops>
      <PortVector>
        <RootId></RootId>
```

```
        <ExtPathCost></ExtPathCost>
        <RegionRootId></RegionRootId>
        <IntPathCost></IntPathCost>
        <DesignateBridgeId></DesignateBridgeId>
        <DesignatePortId></DesignatePortId>
        <RcvdPortId></RcvdPortId>
      </PortVector>
    </StiInterface>
  </StiInterfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	StiInterfaces
Table type	Multi-instance table
Row name	StiInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. **Value range: 0** to **4094.**	If an instance is not in running state, and the values of the Priority and PathCost columns are the default, the instance is not created, and data cannot be got.
IfIndex	Interface index	Index	Unsigned integer.	N/A
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. **Value range: 0** to 240	N/A
PathCost	Administrative spanning tree path cost of an interface	N/A	Unsigned integer. **value range: 0** to **200000000**.	N/A
OperPathCost	Operational spanning tree path cost of an interface	N/A	Unsigned integer. **value range:** 1 to **200000000**.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Port role of a spanning tree	N/A	Enumeration: • **0**—Disabled port. • **1**—Alternate port. • **2**—Backup port. • **3**—Root port. • **4**—Designated port. • **5**—Master port.	N/A
State	Port state of a spanning tree	N/A	Enumeration: • **1**—Discarding. • **2**—Learning. • **3**—Forwarding.	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. • **0x01**—Root protect. • **0x02**—Loop protect. • **0x04**—Loopback protect. • **0x08**—Dispute protect. • **0x10**—Port type inconsistent. • **0x20**—PVID inconsistent.	N/A
RapidTransit	Forwarding state transition	N/A	Boolean: • **true**—Rapid transition. • **false**—Slow transition.	N/A
RemainHops	Remaining hops	N/A	Unsigned integer. Length: 32 bits.	N/A
PortVector	Port priority vector	N/A	Struct, include members: • **RootBridgeId**. • **ExtPathCost**. • **DesignateBridgeId**. • **IntPathCost**. • **RootPort**.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets**.**	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, and the 2-4 hex-character s indicates the system ID, the other hex-string indicates the bridge MAC address.
ExtPathCost	External path cost	N/A	Unsigned integer. Length: 32 bits**.**	N/A
RegionRootId	Region root bridge Identifier	N/A	Octet string. Length: 18 octets**.**	As the remark of RootId above.

Column name	Column description	Column type	Data type and restrictions	Remarks
IntPathCost	Internal path cost	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of RootId above.
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x, and the first hex-character indicates a port priority of 4 bits, the other hex-string indicates a port number.
RcvdPortId	Interface identifier	N/A	Octet string. Length: 8 octets.	As the remark of DesignatePortId above.

STP/Vlans

This table contains information about PVST functions for a VLAN.

XML structure

```
<STP>
  <VLANs>
    <VLAN>
      <VlanId></VlanId>
      <Enable></Enable>
      <Priority></Priority>
      <RootType></RootType>
      <BridgeTimes>
        <HelloTime></HelloTime>
        <MaxAge></MaxAge>
        <ForwardDelay></ForwardDelay>
      </BridgeTimes>
      <BridgeId></BridgeId>
      <TCs>
        <ReceiveTcOrTcn></ReceiveTcOrTcn>
        <LastTcTime></LastTcTime>
      </TCs>
      <RootVector>
        <RootBridgeId></RootBridgeId>
        <RootPathCost></RootPathCost>
        <DesignateBridgeId></DesignateBridgeId>
        <DesignatePortId></DesignatePortId>
        <RootPort></RootPort>
      </RootVector>
    </VLAN>
  </VLANs>
```

```
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. **Value range:** 1 to **4094.**	If a VLAN is not in running state, and the values of the Priority and RootType columns are the default , the VLAN is not created, and data cannot be got.
Enable	PVST feature status	N/A	Boolean: • **true**—Enables PVST. • **false**—Disables PVST.	N/A
Priority	Priority of the VLAN	N/A	Unsigned integer. Length: 32 bits.	N/A
RootType	Root type of the VLAN	N/A	Enumeration: • **0**—Normal. • **1**—Secondary root. • **2**—Primary root.	N/A
BridgeTimes	Bridge timers per VLAN	N/A	Struct, include members: • **HelloTime**. • **MaxAge**. • **ForwardDelay**.	N/A
HelloTime	Hello timer per VLAN in seconds	N/A	Unsigned integer. Value range: 1 to 10.	N/A
MaxAge	Maximum of message age per VLAN	N/A	Unsigned integer. Value range: 6 to 40.	N/A
ForwardDelay	Forwarding delay timer per VLAN in seconds	N/A	Unsigned integer. Value range: 4 to 30.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeId	Spanning tree bridge identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, the second through fourth hex-characters indicate the system ID, and the other hex-characters indicate the bridge MAC address.
TCs	Topology change information	N/A	Struct, include the following members: • **ReceiveTcOrTcn**. • **LastTcTime**.	N/A
ReceiveTcOrTcn	Count of received TC or TCN messages	N/A	Unsigned integer. Length: 32 bits.	N/A
LastTcTime	Time when the last TC message was received or detected, in 10 ms	N/A	Unsigned integer. Length: 64 bits.	N/A
RootVector	Root priority vector	N/A	Struct, include the following members: • **RootBridgeId**. • **PathCost**. • **DesignateBridgeId**. • **RootPort**.	N/A
RootBridgeId	Root bridge identifier	N/A	Octet string. Length: 18 octets.	Same as the remarks of the BridgeId column.
RootPathCost	Path cost to the root bridge	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge identifier	N/A	Octet string. Length: 18 octets.	Same as the remarks of the BridgeId column.
DesignatePortId	The transmitting port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x. The first two hex-characters indicate the port priority, and the other hex-characters indicate the port number.
RootPort	Interface index of the root port	N/A	Unsigned integer. Length: 32 bits.	N/A

STP/VlanInterfaces

This table contains information about interface-level PVST functions for a VLAN.

XML structure

```
<STP>
  <VlanInterfaces>
    <VlanInterface>
      <VlanId></VlanId>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Priority></Priority>
      <PathCost></PathCost>
      <OperPathCost></OperPathCost>
      <Role></Role>
      <State></State>
      <ProtectBlock></ProtectBlock>
      <RapidTransit></RapidTransit>
      <PortTimes>
        <HelloTime></HelloTime>
        <ForwardDelay></ForwardDelay>
        <MaxAge></MaxAge>
        <MessageAge></MessageAge>
      </PortTimes>
      <PortVector>
        <RootId></RootId>
        <RootPathCost></RootPathCost>
        <DesignateBridgeId></DesignateBridgeId>
        <DesignatePortId></DesignatePortId>
        <RcvdPortId></RcvdPortId>
      </PortVector>
    </VlanInterface>
  </VlanInterfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	VlanInterfaces
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. **Value range:** 1 to **4094.**	If a VLAN is not in running state, and the values of the Priority and PathCost columns are the default, the VLAN is not created, and data cannot be got.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits	N/A
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
Priority	Interface priority of a VLAN	N/A	Unsigned integer. **Value range: 0** to 240	N/A
PathCost	Interface path cost of a VLAN	N/A	Unsigned integer. **value range:** 0 to **200000000**.	N/A
OperPathCost	Interface path cost of a VLAN	N/A	Unsigned integer. **value range:** 1 to **200000000**.	N/A
Role	Port role of a spanning tree	N/A	Enumeration: • **0**—Disabled port. • **1**—Alternate port. • **2**—Backup port. • **3**—Root port. • **4**—Designated port.	N/A
State	Port state of a spanning tree	N/A	Enumeration: • **1**—Discarding. • **2**—Learning. • **3**—Forwarding.	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. • **0x01**—Root protect. • **0x02**—Loop protect. • **0x04**—Loopback protect. • **0x08**—Dispute protect. • **0x10**—Port type inconsistent. • **0x20**—PVID inconsistent.	N/A
RapidTransit	Forwarding state transition	N/A	Boolean: • **true**—Rapid transition. • **false**—Slow transition.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortTimes	Interface protocol timers	N/A	Struct, include members: • **HelloTime**. • **ForwardDelay**. • **MaxAge**. • **MessageAge**.	N/A
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.	N/A
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.	N/A
MaxAge	Maximum message age	N/A	Unsigned integer. Value range: 6 to 40.	N/A
MessageAge	Message age	N/A	Unsigned integer. Length: 32 bits.	N/A
PortVector	Port priority vector	N/A	Struct, include members: • **RootBridgeId**. • **RootPathCost**. • **DesignateBridgeId**.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, the other hex-string indicates the bridge MAC address.
RootPathCost	Path cost to the root	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of RootId above.
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x, and the first hex-character indicates a port priority of 4 bits, the other hex-string indicates a port number.
RcvdPortId	Interface identifier	N/A	Octet string. Length: 8 octets.	As the remark of DesignatePortId above.

STP/StiStates

This table contains information about the VLAN state of ports.

XML structure

```
<STP>
  <StiStates>
```

```
    <StiState>
      <IfName></IfName>
      <VlanStateBitmap></VlanStateBitmap >
    </StiState>
  </StiStates>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	StiStates
Table type	Multi-instance table
Row name	StiState
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
VlanStateBitmap	The VLAN state of the interface	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A

Contents

STP 1
STP/Base 1
STP/StiVlans 1
STP/Interfaces 1
STP/STIs 2
STP/StiInterfaces 2
STP/Vlans 2
STP/VlanInterfaces 3

STP

STP/Base

Message	Explanation
"Failed to enable spanning tree protocol, since Tc-Snooping is enabled." "已经开启Tc-Snooping功能，使能生成树协议失败。"	Tc-Snooping 功能与使能生成树协议功能互斥
"Failed to enable Tc-Snooping, since spanning tree protocal is enable." "已经使能生成树协议，开启Tc-Snooping功能失败。"	Tc-Snooping 功能与使能生成树协议功能互斥
"Spanning tree protocal and Tc-snooping cann't be enable together." "不能同时使能STP和开启Tc-snooping功能。 "	

STP/StiVlans

Message	Explanation
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置

STP/Interfaces

Message	Explanation
"The 'LoopProtect' and 'EdgePort' configurations are mutually exclusive." "端口上不能同时配置环路保护和边缘端口。"	端口上不能同时配置环路保护和边缘端口，两条命令互斥。
The 'LoopProtect' and 'RootProtect' configurations are mutually exclusive. "端口上不能同时配置根保护和环路保护。"	端口上不能同时配置根保护和环路保护，两条命令互斥。

STP/STIs

Message	Explanation
"Configuration Priority is not allowed when the root type is configured as primary root or secondary root." "如果设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。"	设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。 根桥优先级 0，备份根桥优先级4096.
"Configuration Roottype is not replaced when the Priority is empty." "replace操作中，如果设备是根桥或者备份根桥，必须同时配置优先级。"	配置了优先级后，不能再配置与优先级冲突的根桥或备份根桥. 根桥优先级 0，备份根桥优先级4096.
"No enough hardware resources." "硬件资源不足。"	STG 资源不足
"Only 65 instances are supported." "最多只支持65个实例。"	MSTI最多运行65个实例
"The value of device priority must be a multiple of 4096." "设备优先级必须是4096的倍数。"	设备优先级必须是4096的倍数。
"When the create or merge operation is issued, configuration data should be specificed." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据

STP/StiInterfaces

Message	Explanation
"When the create or merge operation is issued, configuration data should be specificed." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据
"The path cost value is out of the valid range." "端口路径开销值不在范围内。"	路径开销范围不合法
"The value of port priority must be a multiple of 16." "端口优先级必须是16的倍数。"	端口优先级必须是16的倍数

STP/Vlans

Message	Explanation
"Configuration Priority is not allowed when the root type is configured as primary root or secondary root." "如果设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。"	设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。 根桥优先级 0，备份根桥优先级4096.

"Configuration Roottype is not replaced when the Priority is empty." "replace操作中，如果设备是根桥或者备份根桥，必须同时配置优先级。"	配置了优先级后，不能再配置与优先级冲突的根桥或备份根桥. 根桥优先级 0，备份根桥优先级4096.
"No enough hardware resources." "硬件资源不足。"	STG 资源不足
"The value of device priority must be a multiple of 4096." "设备优先级必须是4096的倍数。"	设备优先级配置必须是4096的倍数。
"When the create or merge operation is issued, configuration data should be specificed." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据

STP/VlanInterfaces

Message	Explanation
"When the create or merge operation is issued, configuration data should be specificed." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据
"The path cost value is out of the valid range." "端口路径开销值不在范围内。"	路径开销范围不合法
"The value of port priority must be a multiple of 16." "端口优先级必须是16的倍数。"	端口优先级必须是16的倍数

Contents

STP event stream 1
IfStpEvent event 1
XML structure for event subscription 1
XML structure for event report 1

STP event stream

STP event stream description.

IfStpEvent event

This event is used to report interface loop detection events.

XML structure for event subscription

```
<IfStpEvent>
</IfStpEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>STP</stream>
      <filter type="subtree">
      <IfStpEvent xmlns="http://www.h3c.com/netconf/event:1.0/STP:1.0">
      </IfStpEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	STP
Event name	IfStpEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/STP:1.0
Support for extended query	No

XML structure for event report

```
<IfStpEvent>
  <IfStpVlanState>
    <IfName></IfName>
    <ForwardVlanList></ForwardVlanList>
    <DiscardVlanList></DiscardVlanList>
  </IfStpVlanState>
</IfStpEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2018-11-13T14:22:21</eventTime>
  <IfStpEvent xmlns="http://www.h3c.com/netconf/event:1.0/STP:1.0">
```

```
    <IfStpVlanState>
      <IfName>GigabitEthernet0/0/3</IfName>
      <ForwardVlanList>1</ForwardVlanList>
    </IfStpVlanState>
  </IfStpEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
ForwardVlanList	New Forward VLANs on the interface	String. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.
DiscardVlanList	New Discard VLANs on the interface	String. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.

Contents

STRUNK 1
STRUNK/ResetStatistics 1
XML structure 1
Table description 1
Columns 1

STRUNK

STRUNK/ResetStatistics

The table contains the statistics about smart trunks.

XML structure

```
<STRUNK>
  <ResetStatistics>
    <ResetStatistic>
      <TrunkID></TrunkID>
    </ResetStatistic>
  </ResetStatistics>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	ResetStatistics
Table type	Multi-instance table
Row name	ResetStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrunkID	Smart trunk ID	Index	Unsigned integer Value range: 1 to 128	If you do not specify a smart trunk ID, the statistics about all smart trunks will be cleared.

Contents

STRUNK 1
STRUNK/Base 1
XML structure 1
Table description 1
Columns 1
STRUNK/Trunks 1
XML structure 1
Table description 2
Columns 2
STRUNK/Members 4
XML structure 4
Table description 4
Columns 5

STRUNK

STRUNK/Base

This table contains S-Trunk Base information.

XML structure

```
<STRUNK>
  <Base>
    <UdpPort></UdpPort>
  </Base>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UdpPort	Specify the destination UDP port of S-Trunk protocol packets	N/A	Unsigned integer. Value range: 1024 to 65535.	Configure the same UDP port on both the primary and secondary devices. The default UDP port is 1025.

STRUNK/Trunks

This table contains information about smart trunks.

XML structure

```
<STRUNK>
  <Trunks>
```

```
    <Trunk>
      <TrunkID></TrunkID>
      <LocalPriority></LocalPriority>
      <RevertDelayEnable></RevertDelayEnable>
      <RevertDelayTime></RevertDelayTime>
      <BfdSessionName></BfdSessionName>
      <Description></Description>
      <IPV4Addr>
        <DestinationIPV4></DestinationIPV4>
        <SourceIPV4></SourceIPV4>
      </IPV4Addr>
      <VpnInstance></VpnInstance>
      <LocalInterval></LocalInterval>
      <LocalTimeoutMultiplier></LocalTimeoutMultiplier>
      <SequenceCheckEnable></SequenceCheckEnable>
      <AuthenticationKey></AuthenticationKey>
      <AuthMode></AuthMode>
    </Trunk>
  </Trunks>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Trunks
Table type	Multi-instance table
Row name	Trunk
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrunkID	Smart trunk ID	Index	Unsigned integer. Value range: 1 to 128.	N/A
LocalPriority	Role priority of the local smart trunk	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority. The default priority is 32768.
RevertDelayEnable	Whether the reversion delay is enabled	N/A	Boolean: • true • false	By default, the reversion delay is enabled.
RevertDelayT	Reversion delay	N/A	Unsigned integer.	The default reversion

Column name	Column description	Column type	Data type and restrictions	Remarks
ime	in seconds		Value range: 0 to 3600.	delay is 120 seconds.
BfdSessionName	BFD session name	N/A	String, case-sensitive. Length: 0 to 64 characters.	If no BFD session is bound, the name length is 0. To modify the BFD session association for a smart trunk, you must first remove the existing BFD session association.
Description	Description of the smart trunk	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
IPV4Addr	Source and destination IPv4 addresses of the S-Trunk peer link	Data structure	Members include: • DestinationIPV4 • SourceIPV4	N/A
DestinationIPV4	Destination IPv4 address of the S-Trunk peer link	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1 This column must be used with the **SourceIPV4** column.
SourceIPV4	Source IPv4 address of the S-Trunk peer link	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1 This column must be used with the **DestinationIPV4** column.
VpnInstance	VPN instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	By default, the local device is on the public network, and the length of the string is 0. This column must be used with the IPV4Addr column.
LocalInterval	Local device's S-Trunk protocol packet transmission interval in 100 milliseconds	N/A	Unsigned integer. Value range: 5 to 100.	The default interval is 1000 ms.
LocalTimeoutMultiplier	Local device's S-Trunk protocol packet timeout multiplier	N/A	Unsigned integer. Value range: 3 to 300.	The default timeout multiplier is 20. The S-Trunk protocol packet timeout equals the S-Trunk protocol packet transmission interval multiplied by the timeout multiplier.
SequenceCheckEnable	Whether sequence number check on packets is enabled	N/A	Boolean: • true • false	By default, sequence number check is disabled.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenticationKey	Encrypted authentication key of packets	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form. Only plaintext is supported To avoid authentication failure, you must configure the same authentication key for a smart trunk on the S-Trunk member devices.
AuthMode	Authentication Mode of packets	N/A	Enumeration: • **1**—sha256	The default value is 1.

STRUNK/Members

This table contains information about smart trunk member ports.

XML structure

```
<STRUNK>
  <Members>
    <Member>
      <IfIndex></IfIndex>
      <TrunkID></TrunkID>
      <PeerMemberID ></PeerMemberID>
      <ConfigRole></ConfigRole>
    </Member>
  </Members>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index of the aggregate interface	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about the interface index, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrunkID	Smart trunk ID	N/A	Unsigned integer. Value range: 1 to 128.	N/A
PeerMemberID	Peer aggregation group ID	N/A	Unsigned integer. Value range: 1 to 65535.	If you do not specify a peer aggregate interface number, the peer aggregate interface has the same number as the local aggregate interface.
ConfigRole	Manually configured member port role	N/A	Enumeration: • **0**—Auto. • **1**—Primary. • **2**—Secondary.	The default role of a smart trunk member interface is Auto.

Contents

STRUNK 1
STRUNK/Base 1
XML structure 1
Table description 1
Columns 1
STRUNK/Trunks 2
XML structure 2
Table description 3
Columns 3
STRUNK/Trunks/MemberLists 5
XML structure 5
Table description 5
Columns 6
STRUNK/Members 6
XML structure 6
Table description 7
Columns 7
STRUNK/Members/RoleChanges 8
XML structure 8
Table description 9
Columns 9
STRUNK/Statistics/GlobalStatistic 10
XML structure 10
Table description 10
Columns 11
STRUNK/Statistics/TrunkStatistics 12
XML structure 12
Table description 12
Columns 12

STRUNK

STRUNK/Base

This table contains S-Trunk Base information.

XML structure

```
<STRUNK>
  <Base>
    <UdpPort></UdpPort>
    <TotalTrunkNum></TotalTrunkNum>
    <PrimaryTrunkNum></PrimaryTrunkNum>
    <SecondaryTrunkNum></SecondaryTrunkNum>
    <InitTrunkNum></InitTrunkNum>
  </Base>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UdpPort	Specify the destination UDP port of S-Trunk protocol packets	N/A	Unsigned integer. Value range: 1024 to 65535.	Configure the same UDP port on both the primary and secondary devices.
TotalTrunkNum	Total number of smart trunks	N/A	Unsigned integer.	N/A
PrimaryTrunkNum	Number of smart trunks whose local device status is primary	N/A	Unsigned integer.	N/A
SecondaryTrunkNum	Number of smart trunks whose local device status is secondary	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitTrunkNum	Number of smart trunks whose local device status is init	N/A	Unsigned integer.	N/A

STRUNK/Trunks

This table contains information about smart trunks.

XML structure

```
<STRUNK>
  <Trunks>
    <Trunk>
      <TrunkID></TrunkID>
      <LocalPriority></LocalPriority>
      <PeerPriority></PeerPriority>
      <LocalBridgeMAC></LocalBridgeMAC>
      <PeerBridgeMAC></PeerBridgeMAC>
      <DeviceRole></DeviceRole>
      <RoleTrigger></RoleTrigger>
      <RevertDelayEnable></RevertDelayEnable>
      <RevertDelayTime></RevertDelayTime>
      <BfdSessionName></BfdSessionName>
      <Description></Description>
      <IPV4Addr>
        <DestinationIPV4></DestinationIPV4>
        <SourceIPV4></SourceIPV4>
      </IPV4Addr>
      <VpnInstance></VpnInstance>
      <LocalInterval></LocalInterval>
      <PeerInterval></PeerInterval>
      <LocalTimeoutMultiplier></LocalTimeoutMultiplier>
      <PeerTimeout></PeerTimeout>
      <SequenceCheckEnable></SequenceCheckEnable>
      <AuthenticationKey></AuthenticationKey>
      <AuthMode></AuthMode>
      <MemberLists>
        <MemberList>
          <IfIndex></IfIndex>
        </MemberList>
      </MemberLists>
    </Trunk>
  </Trunks>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Trunks
Table type	Multi-instance table
Row name	Trunk
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrunkID	Smart trunk ID	Index	Unsigned integer. Value range: 1 to 128.	N/A
LocalPriority	Role priority of the local smart trunk	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
PeerPriority	Role priority of the peer smart trunk	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value, the higher the priority.
LocalBridgeMAC	Bridge MAC address of the local smart trunk	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PeerBridgeMAC	Bridge MAC address of the peer smart trunk	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DeviceRole	Role of the local smart trunk member device	N/A	Enumeration: • 0—init. • 1—primary. • 2—secondary.	N/A
RoleTrigger	The trigger for the current role	N/A	Enumeration: • 0—INIT. • 1—PRIORITY. • 2—TIMEOUT. • 3—BFD_DOWN. • 4—PEER_TIMEOUT. • 5—PEER_BFD_DOWN.	**INIT**: The S-Trunk system is initializing. **PRIORITY**: Calculated by priority. **TIMEOUT**: The local device has not received protocol packets from the peer when the timeout timer expires. **BFD_DOWN**: The BFD session on the local device detects that the link between the local and peer devices is down. **PEER_TIMEOUT**: The local device receives the peer timer expiration message.

Column name	Column description	Column type	Data type and restrictions	Remarks
				PEER_BFD_DOWN: The local device receives the BFD detection link down message from the peer device.
RevertDelayEnable	Whether the reversion delay is enabled	N/A	Boolean: • true • false	N/A
RevertDelayTime	Reversion delay in seconds	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BfdSessionName	BFD session name	N/A	String, case-sensitive. Length: 0 to 64 characters.	When no BFD session is bound, the name length is 0. To modify the BFD session association for a smart trunk, you must first remove the existing BFD session association.
Description	Description of the smart trunk	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A.
IPV4Addr	Source and destination IPv4 addresses of the S-Trunk peer link	Data structure	Members include: • DestinationIPV4 • SourceIPV4	N/A
DestinationIPV4	Destination IPv4 address of the S-Trunk peer link	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1 This column must be used with the **SourceIPV4** column.
SourceIPV4	Source IPv4 address of the S-Trunk peer link	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1 This column must be used with the **DestinationIPV4** column.
VpnInstance	VPN instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0. This column must be used with the IPV4Addr column.
LocalInterval	Local device's S-Trunk protocol packet transmission interval in 100 milliseconds	N/A	Unsigned integer. Value range: 5 to 100.	N/A
PeerInterval	Peer device's S-Trunk protocol packet transmission	N/A	Unsigned integer. Value range: 5 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interval in 100 milliseconds			
LocalTimeout Multiplier	Local device's S-Trunk protocol packet timeout multiplier	N/A	Unsigned integer. Value range: 3 to 300.	N/A
PeerTimeout	Peer device's S-Trunk protocol packet timeout time.	N/A	Unsigned integer.	The S-Trunk protocol packet timeout equals the S-Trunk protocol packet transmission interval multiplied by the timeout multiplier
SequenceCheckEnable	Whether sequence number check on packets is enabled	N/A	Boolean: • true • false	N/A
AuthenticationKey	Encrypted authentication key of packets	N/A	String, case-sensitive. Length: 1 to 32 characters.	The authentication key is in plaintext form. Only plaintext is supported
AuthMode	Authentication Mode of packets	N/A	Enumeration: • 1—sha256.	N/A
MemberLists	Current S-Trunk member interface table	Sublist	N/A	For more information, see the STRUNK/TrunkTable/MemberList Table

STRUNK/Trunks/MemberLists

This table contains information about STRUNK/Trunk/MemberLists Table.

XML structure

See the XML structure of STRUNK/Trunks

Table description

Item	Description
Feature name	STRUNK
Table name	MemberLists
Table type	Multi-instance table
Row name	MemberList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index of the aggregate interface	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about the interface index, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

STRUNK/Members

This table contains information about smart trunk member ports.

XML structure

```
<STRUNK>
  <Members>
    <Member>
      <IfIndex></IfIndex>
      <TrunkID></TrunkID>
      <LocalMemberID></LocalMemberID>
      <PeerMemberID></PeerMemberID>
      <IfType></IfType>
      <ConfigRole></ConfigRole>
      <OperRole></OperRole>
      <RoleTrigger></RoleTrigger>
      <LinkState></LinkState>
      <RoleChanges>
        <RoleChange>
          <Index></Index>
          <Time></Time>
          <LastRole></LastRole>
          <CurrentRole></CurrentRole>
          <Trigger></Trigger>
        </RoleChange>
      </RoleChanges>
    </Member>
  </Members>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index of the aggregate interface	Index	Unsigned integer.	Some versions support the interface name. For relevant information, see the XSD document of your product. For information about the interface index, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrunkID	Smart trunk ID	N/A	Unsigned integer. Value range: 1 to 128.	N/A
LocalMember ID	Local aggregation group ID	N/A	Unsigned integer.	N/A
PeerMemberI D	Peer aggregation group ID	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
IfType	Interface type of local and peer smart trunk members	N/A	Enumeration: • 1—Bridge-aggregation. • 2—Route-aggregation.	N/A
ConfigRole	Manually configured member port role	N/A	Enumeration: • 0—Auto. • 1—Primary. • 2—Secondary.	N/A
OperRole	Current role of the member port	N/A	Enumeration: • 0—Primary. • 1—Secondary.	N/A
RoleTrigger	The trigger for the current role	N/A	Enumeration: • 0—STRUNK_INIT. • 1—MANUAL_PRIMARY. • 2—MANUAL_SECONDA RY. • 3—AUTO_SECONDARY.	**STRUNK_INIT**: Member’s role is manually configured as automatic, but S-Trunk is initializing. **MANUAL_PRIMARY**: Member’s role is

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—AUTO_PRIMARY. • 5—PEER_MEMBER_DOWN. • 6—PEER_MEMBER_UP.	manually configured as primary. **MANUAL_SECONDARY**: Member's role is manually configured as secondary. **AUTO_SECONDARY**: Member's role is manually configured as automatic, but the current role of the interface is automatically configured as secondary based on the device role. **AUTO_PRIMARY**: Member's role is manually configured as automatic, but the current role of the interface is automatically configured as primary based on the device role. **PEER_MEMBER_DOWN**: Received the packet whose member status is down from the peer device. **PEER_MEMBER_UP**: Received the packet whose member status is up from the peer device.
LinkState	Link protocol state of the local smart trunk member port	N/A	Enumeration: • 0—DOWN. • 1—UP.	N/A
RoleChanges	Member role change record table	Sublist	N/A	For more information, see the STRUNK/MemberTable / RoleChangeTable

STRUNK/Members/RoleChanges

This table contains information about STRUNK/Members/RoleChanges Table.

XML structure

See the XML structure of STRUNK/MemberTable

Table description

Item	Description
Feature name	STRUNK
Table name	RoleChanges
Table type	Multi-instance table
Row name	RoleChange
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index of the role change record for a member port.	Index	Unsigned integer. Value range: 1 to 10.	N/A
Time	Member port role change time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
LastRole	Role of the member port before the change	N/A	Enumeration: • 0—Primary. • 1—Secondary.	N/A
CurrentRole	Current role of the member port	N/A	Enumeration: • 0—Primary. • 1—Secondary.	N/A
Trigger	The trigger for the current role	N/A	Enumeration: • 0—STRUNK_INIT. • 1—MANUAL_PRIMARY. • 2—MANUAL_SECONDARY. • 3—AUTO_SECONDARY. • 4—AUTO_PRIMARY. • 5—PEER_MEMBER_DOWN. • 6—PEER_MEMBER_UP.	**STRUNK_INIT**: Member's role is manually configured as automatic, but S-Trunk is initializing. **MANUAL_PRIMARY**: Member's role is manually configured as primary. **MANUAL_SECONDARY**: Member's role is manually configured as secondary. **AUTO_SECONDARY**: Member's role is manually configured as automatic, but the current role of the interface is automatically configured as secondary based on the device role. **AUTO_PRIMARY**: Member's role is

Column name	Column description	Column type	Data type and restrictions	Remarks
				manually configured as automatic, but the current role of the interface is automatically configured as primary based on the device role. **PEER_MEMBER_DOWN**: Received the packet whose member status is down from the peer device. **PEER_MEMBER_UP**: Received the packet whose member status is up from the peer device.

STRUNK/Statistics/GlobalStatistic

This table contains information about global packet statistics.

XML structure

```
<STRUNK>
  <Statistics>
    <GlobalStatistic>
      <ReceivedPackets></ReceivedPackets>
      <DroppedReceivedPackets></DroppedReceivedPackets>
      <SentPackets></SentPackets>
      <DroppedSentPackets></DroppedSentPackets>
      <InvalidTypePackets></InvalidTypePackets>
      <InvalidLengthPackets></InvalidLengthPackets>
      <InvalidMACPackets></InvalidMACPackets>
      <InvalidTimeoutPackets></InvalidTimeoutPackets>
      <InvalidIntervalPackets></InvalidIntervalPackets>
      <InvalidTrunkIDPackets></InvalidTrunkIDPackets>
      <NonexistentTrunkPackets></NonexistentTrunkPackets>
    </GlobalStatistic>
  </Statistics>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	GlobalStatistic

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceivedPackets	The count of received packets	N/A	Unsigned integer.	N/A
DroppedReceivedPackets	The count of dropped packets when receiving packets	N/A	Unsigned integer.	N/A
SentPackets	The count of sent packets	N/A	Unsigned integer.	N/A
DroppedSentPackets	The count of dropped packets when sending packets	N/A	Unsigned integer.	N/A
InvalidTypePackets	The count of received packets with an invalid type	N/A	Unsigned integer.	N/A
InvalidLengthPackets	The count of received packets with an invalid length	N/A	Unsigned integer.	N/A
InvalidMACPackets	The count of received packets with an invalid MAC address	N/A	Unsigned integer.	N/A
InvalidTimeoutPackets	The count of received packets with an invalid timeout	N/A	Unsigned integer.	N/A
InvalidIntervalPackets	The count of received packets with an invalid interval	N/A	Unsigned integer.	N/A
InvalidTrunkIDPackets	The count of received packets with an invalid smart trunk ID	N/A	Unsigned integer.	N/A
NonexistentTrunkPackets	The count of received packets of a non-existent local smart trunk	N/A	Unsigned integer.	N/A

STRUNK/Statistics/TrunkStatistics

This table contains information about smart-trunk-specific packet statistics.

XML structure

```
<STRUNK>
  <Statistics>
    <TrunkStatistics>
      <TrunkStatistic>
        <TrunkID></TrunkID>
        <ReceivedPackets></ReceivedPackets>
        <DroppedReceivedPackets></DroppedReceivedPackets>
        <SentPackets></SentPackets>
        <DroppedSentPackets></DroppedSentPackets>
        <WithoutIPorVPNPackets></WithoutIPorVPNPackets>
        <IncorrectIPsPackets></IncorrectIPsPackets>
        <IncorrectVPNPackets></IncorrectVPNPackets>
        <IncorrectTypePackets></IncorrectTypePackets>
        <IncorrectSequenceNumPackets></IncorrectSequenceNumPackets>
        <FailedAuthenticationPackets></FailedAuthenticationPackets>
      </TrunkStatistic>
    </TrunkStatistics>
  </Statistics>
</STRUNK>
```

Table description

Item	Description
Feature name	STRUNK
Table name	TrunkStatistics
Table type	Multi-instance table
Row name	TrunkStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrunkID	Smart trunk ID	Index	Unsigned integer. Value range: 1 to 128.	N/A
ReceivedPackets	The count of received packets	N/A	Unsigned integer.	N/A
DroppedRece	The count of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ivedPackets	dropped packets when receiving packets			
SentPackets	The count of sent packets	N/A	Unsigned integer.	N/A
DroppedSentPackets	The count of dropped packets when sending packets	N/A	Unsigned integer.	N/A
WithoutIPorVPNPackets	The count of dropped packets without an IP address or VPN instance	N/A	Unsigned integer.	N/A
IncorrectIPsPackets	The count of dropped packets whose IP address does not match the IP address configured for the S-Trunk protocol packets on the local device.	N/A	Unsigned integer.	N/A
IncorrectVPNPackets	The count of dropped packets whose VPN instance does not match the VPN instance bound to the interface	N/A	Unsigned integer.	N/A
IncorrectTypePackets	The count of packets dropped for type inconsistency	N/A	Unsigned integer.	N/A
IncorrectSequenceNumPackets	The count of dropped packets with an incorrect sequence number	N/A	Unsigned integer.	N/A
FailedAuthenticationPackets	The count of dropped packets that failed authentication	N/A	Unsigned integer.	N/A

Contents

STRUNK 2
STRUNK/Base 2
STRUNK/Trunks 2
STRUNK/Members 2
STRUNK/Statistics/GlobalStatistic 3
STRUNK/Statistics/TrunkStatistics 3
STRUNK/ResetStatistics 3

STRUNK

STRUNK/Base

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.

STRUNK/Trunks

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.
The smart trunk has been associated with another BFD session. STRUNK组已绑定了BFD会话。	Can’t associate the smart trunk with the BFD session because the smart trunk has been associated with another BFD session.
The smart trunk does not exist. 指定的STRUNK组不存在	Please first create the smart trunk.
The destination and source IP addresses cannot be the same. 目的IP地址和源IP地址不能相同。	The destination and source IP addresses must be different.
Invalid destination or source IP address. 无效的源/目的IP地址。	You must configure valid source and destination addresses.
You must specify the source and destination IP addresses when configuring the VPN instance. 操作VPN实例时，需要指定源IP地址和目的IP地址。	You cannot specify only the VPN instance. To configure the VPN instance, you must specify the source and destination IP addresses.

STRUNK/Members

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.
The Interface is already in another smart trunk. 该接口已是其他STRUNK组的成员口。	The interface has been assigned to a smart trunk.
The smart trunk does not exist. 指定的STRUNK组不存在	Please first create the smart trunk.
The local smart trunk member port has been configured with a peer. 接口已经绑定了指定组，但是新设置的对端ID与原先的不一致。	Can't specify the current peer interface for the smart trunk member port because it has been configured with a peer interface.

The interface must be set a Layer 2 aggregate interface or a Layer 3 aggregate interface. 接口必须为一个二层聚合口或是三层聚合口。	The interface must be set a Layer 2 aggregate interface or a Layer 3 aggregate interface.
Can't assign the interface to the smart trunk because the interface is a member of an S-MLAG group. 该接口已经是一个S-MLAG组的成员。	Can't assign the interface to the smart trunk because the interface is a member of an S-MLAG group.
The interface is not a member of a smart trunk. 该接口不是一个s-trunk组的成员接口。	The interface is not a member of a smart trunk.
You must specify the TrunkID parameter when configuring the PeerMemberID parameter. 操作 PeerMemberID时，需要同时指定TrunkID。	You cannot specify only the PeerMemberID parameter. To configure the PeerMemberID parameter, you must specify the TrunkID parameter.

STRUNK/Statistics/GlobalStatistic

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.

STRUNK/Statistics/TrunkStatistics

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.

STRUNK/ResetStatistics

Message	Explanation
Invalid TLV type. LIPC消息内无此TLV。	The LIPC message does not contain this TLV.

Contents

STUN_CLIENT 1
STUN_CLIENT/StunClients 1
XML structure 1
Table description 1
Columns 1
STUN_CLIENT/StunClientInterfaces 2
XML structure 2
Table description 2
Columns 2

STUN_CLIENT

STUN_CLIENT/StunClients

This table contains information about the STUN server that the STUN client connects.

XML structure

```
<STUN_CLIENT>
  <StunClients>
    <Interface>
      <IfName></IfName>
      <DestnationIP></DestnationIP>
      <DestnationPort></DestnationPort>
      <OutIfName></OutIfName>
    </Interface>
  </StunClients>
</STUN_CLIENT>
```

Table description

Item	Description
Feature name	STUN_CLIENT
Table name	StunClients
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	
DestnationIP	IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestnationPort	Port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
OutIfName	Output interface name	N/A	String. Length: 1 to 47 characters.	N/A

STUN_CLIENT/StunClientInterfaces

This table contains information about the STUN server that the STUN client connects.

XML structure

```
<STUN_CLIENT>
  <StunClientInterfaces>
    <Interface>
      <IfName></IfName>
      <DestnationIP></DestnationIP>
      <DestnationPort></DestnationPort>
      <OutIfName></OutIfName>
    </Interface>
  </StunClientInterfaces>
</STUN_CLIENT>
```

Table description

Item	Description
Feature name	STUN_CLIENT
Table name	StunClientInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	
DestnationIP	IP address of the STUN server	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestnationPort	Port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
OutIfName	Output interface name	N/A	String. Length: 1 to 47 characters.	N/A

Contents

STUN_CLIENT 1
STUN_CLIENT/StunClients 1
XML structure 1
Table description 1
Columns 1
STUN_CLIENT/StunClientInterfaces 2
XML structure 2
Table description 2
Columns 2

STUN_CLIENT

STUN_CLIENT/StunClients

This table contains information about the STUN server that the STUN client connects.

XML structure

```
<STUN_CLIENT>
  <StunClients>
    <Interface>
      <IfName></IfName>
      <DestnationIP></DestnationIP>
      <DestnationPort></DestnationPort>
      <OutIfName></OutIfName>
    </Interface>
  </StunClients>
</STUN_CLIENT>
```

Table description

Item	Description
Feature name	STUN_CLIENT
Table name	StunClients
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	
DestnationIP	IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestnationPort	Port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
OutIfName	Output interface name	N/A	String. Length: 1 to 47 characters.	N/A

STUN_CLIENT/StunClientInterfaces

This table contains information about the STUN server that the STUN client connects.

XML structure

```
<STUN_CLIENT>
  <StunClientInterfaces>
    <Interface>
      <IfName></IfName>
      <DestnationIP></DestnationIP>
      <DestnationPort></DestnationPort>
      <OutIfName></OutIfName>
    </Interface>
  </StunClientInterfaces>
</STUN_CLIENT>
```

Table description

Item	Description
Feature name	STUN_CLIENT
Table name	StunClientInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	
DestnationIP	IP address of the STUN server	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DestnationPort	Port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
OutIfName	Output interface name	N/A	String. Length: 1 to 47 characters.	N/A

Contents

STUN_CLIENT 2
STUN_CLIENT/StunClients 2
STUN_CLIENT/StunClientInterfaces 2

STUN_CLIENT

STUN_CLIENT/StunClients

Message	Explanation
To modify STUN client information, you must disable the existing client and then configure a new client. 修改配置前，需要删除已经存在的配置。	STUN client information can’t be directly modified. 无法通过重复执行本操作修改 STUN 客户端的配置。

STUN_CLIENT/StunClientInterfaces

Message	Explanation
The STUN Client configuration conflicts with the IP address configuration. STUN客户端指定的STUN服务器地址和已经存在的配置冲突。	Same IP address has been configured on this interface. 同一接口下，STUN客户端指定的多个STUN服务器的IP地址不能相同。
The STUN client configration number has over maximum number. 为STUN客户端指定的STUN服务器的个数达到了最大数量。	A maximum of 8 STUN client configration in one interface. 同一接口下，STUN客户端最多可以指定8个STUN服务器。

Contents

STUN_SERVER 1
STUN_SERVER/StunServers 1
XML structure 1
Table description 1
Columns 1

STUN_SERVER

STUN_SERVER/StunServers

This table contains information about a STUN server.

XML structure

```
<STUN_SERVER>
 <StunServers>
   <Server>
     <PrimaryIP></PrimaryIP>
     <PrimaryPort></PrimaryPort>
     <VRF></VRF>
     <AlternativeIP></AlternativeIP>
     <AlternativePort></AlternativePort>
     <PrimaryGlobalIP></PrimaryGlobalIP>
     <PrimaryGlobalPort></PrimaryGlobalPort>
     <AlternativeGlobalIP></AlternativeGlobalIP>
     <AlternativeGlobalPort></AlternativeGlobalPort>
   </Server>
 </StunServers>
</STUN_SERVER>
```

Table description

Item	Description
Feature name	STUN_SERVER
Table name	StunServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryIP	Primary IP address of the STUN server	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
PrimaryPort	Primary port	Index	Unsigned integer.	The default value is

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of the STUN server		Value range: 1024 to 65535.	3478
VRF	Name of the primary VPN instance	Index	String. Length: 0 to 31 characters.	0 means public network
AlternativeIP	Backup IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
AlternativePort	Backup port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	The default value is 3479
PrimaryGlobalIP	Primary global IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
PrimaryGlobalPort	Primary global port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	
AlternativeGlobalIP	Backup global IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
AlternativeGlobalPort	Backup global port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	

Contents

STUN_SERVER 1
STUN_SERVER/StunServers 1
XML structure 1
Table description 1
Columns 1

STUN_SERVER

STUN_SERVER/StunServers

This table contains information about a STUN server.

XML structure

```
<STUN_SERVER>
 <StunServers>
   <Server>
     <PrimaryIP></PrimaryIP>
     <PrimaryPort></PrimaryPort>
     <VRF></VRF>
     <AlternativeIP></AlternativeIP>
     <AlternativePort></AlternativePort>
     <PrimaryGlobalIP></PrimaryGlobalIP>
     <PrimaryGlobalPort></PrimaryGlobalPort>
     <AlternativeGlobalIP></AlternativeGlobalIP>
     <AlternativeGlobalPort></AlternativeGlobalPort>
   </Server>
 </StunServers>
</STUN_SERVER>
```

Table description

Item	Description
Feature name	STUN_SERVER
Table name	StunServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryIP	Primary IP address of the STUN server	Index	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
PrimaryPort	Primary port	Index	Unsigned integer.	The default value is

Column name	Column description	Column type	Data type and restrictions	Remarks
	number of the STUN server		Value range: 1024 to 65535.	3478
VRF	Name of the primary VPN instance	Index	String. Length: 0 to 31 characters.	0 means public network
AlternativeIP	Backup IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
AlternativePort	Backup port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	The default value is 3479
PrimaryGlobalIP	Primary global IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
PrimaryGlobalPort	Primary global port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	
AlternativeGlobalIP	Backup global IP address of the STUN server	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1
AlternativeGlobalPort	Backup global port number of the STUN server	N/A	Unsigned integer. Value range: 1024 to 65535.	

Contents

STUN_SERVER 2
STUN_SERVER/StunServers 2

STUN_SERVER

STUN_SERVER/StunServers

Message	Explanation
To modify STUN server information, you must disable the existing server and then configure a new server. 修改配置前，需要删除已经存在的配置。	STUN server information can’t be directly modified. 无法通过重复执行本操作修改 STUN 服务端的配置。
The primary and alternative IP addresses of the STUN server can't be the same. 主、从IP地址不能相同。	The primary and alternative IP addresses can’t be the same. 探测流程要求主、从IP地址不能相同。
The primary and alternative port numbers of the STUN server can't be the same. 主、从端口号不能相同。	The primary and alternative port numbers can’t be the same. 探测流程要求主、从端口号不能相同。
The global port number and the alternate global port number of the STUN server can't be the same. 公网端口号、公网从端口号不能相同。	The global port number and the alternate global port number of the STUN server can't be the same. 探测流程要求公网端口号、公网从端口号不能相同。
The primary and global IP addresses of the STUN server can't be the same. 主IP、公网IP地址不能相同。	The primary and global IP addresses of the STUN server can't be the same. 探测流程要求主IP、公网IP地址不能相同。
The primary IP address and the alternate global IP address of the STUN server can't be the same. 主IP、公网从IP地址不能相同。	The primary IP address and the alternate global IP address of the STUN server can't be the same. 探测流程要求主IP、公网从IP地址不能相同。
The alternate IP address and the global IP address of the STUN server can't be the same. 从IP、公网IP地址不能相同。	The alternate IP address and the global IP address of the STUN server can't be the same. 探测流程要求从IP、公网IP地址不能相同。
The alternate IP address and the alternate global IP address of the STUN server can't be the same. 从IP、公网从IP地址不能相同。	The alternate IP address and the alternate global IP address of the STUN server can't be the same. 探测流程要求可选IP、公网从IP地址不能相同。
The global IP address and the alternate global IP address of the STUN server can't be the same. 公网IP、公网从IP地址不能相同。	The global IP address and the alternate global IP address of the STUN server can't be the same. 探测流程要求公网IP、公网从IP地址不能相同。
The primary and alternative global IP addresses of the STUN server can't be the same. 经过地址转换后的STUN服务器主、从地址不能相同。	The primary and alternative global IP addresses can’t be the same. 探测流程要求地址转换后的STUN服务器主、从IP地址不能相同。
The primary and alternative global port numbers of the STUN server can't be the same. 经过地址转换后的STUN服务器主、从端口号不能相同。	The primary and alternative global port numbers can’t be the same. 探测流程要求地址转换后的STUN服务器主、从端口号不能相同。
Maximum number of STUN servers configured already reached. STUN服务器的数量已经超过上限。	Only eight STUN server can be configured. 只能存在八个STUN服务器配置。
The primary IP address has been configured for	The primary IP address has been configured for another STUN

another STUN server. 主IP地址已在另一条STUN服务器配置中配置。	server. 主IP地址已在另一条STUN服务器配置中配置。
The alternate IP address has been configured for another STUN server. 从IP地址已在另一条STUN服务器配置中配置。	The alternate IP address has been configured for another STUN server. 从IP地址已在另一条STUN服务器配置中配置。
The global IP address has been configured for another STUN server. 公网IP地址已在另一条STUN服务器配置中配置。	The global IP address has been configured for another STUN server. 公网IP地址已在另一条STUN服务器配置中配置。
The alternate global IP address has been configured for another STUN server. 公网从IP地址已在另一条STUN服务器配置中配置。	The alternate global IP address has been configured for another STUN server. 公网从IP地址已在另一条STUN服务器配置中配置。

Contents

Super 1
Super/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
Super/Passwords 2
XML structure 2
Table description 2
Columns 3

Super

Super/GlobalConfig

Super global configuration.

XML structure

```
<Super>
  <GlobalConfig>
    <ModeType></ModeType>
    <DefaultRole></DefaultRole>
  </GlobalConfig>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Authentication mode for temporary user role authorization	N/A	Enumeration: • **0**—Local password authentication. • **1**—Remote AAA authentication. • **2**—Local-then-remote authentication mode. • **3**—Remote-then-local authentication mode.	The default is 0.
DefaultRole	The default target user role for temporary user role authorization	N/A	A case-sensitive string of 1 to 63 characters. The user role must exist in the system.	The default is as follows: • If you log into a device that does not support MDC or Context, the default target user role is network-admin.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• If you log in to the default MDC, the default target user role is network-admin. • If you log in to a non-default MDC, the default target user role is mdc-admin. • If you log in to the default Context, the default target user role is network-admin. • If you log in to a non-default Context, the default target user role is context-admin.

Super/Passwords

Passwords of roles.

XML structure

```
<Super>
  <Passwords>
    <Password>
      <RoleName></RoleName>
      <Password></Password>
    </Password>
  </Passwords>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	Passwords
Table type	Multi-instance table
Row name	Password
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	User role	Index	A case-sensitive string of 1 to 63 characters. The user role can be predefined or user-defined.	The column must be deployed together with the Password column and does not support a separate index.
Password	Password	N/A	The string is case sensitive. • In non-FIPS mode, the password must be a string of 1 to 63 characters in plain text. • In FIPS mode, the password must be a string of 15 to 63 characters. The string must contain four character types including digits, uppercase letters, lowercase letters, and special characters.	This column must appear.

Contents

Super 1
Super/GlobalConfig 1
XML structure 1
Table description 1
Columns 1
Super/Passwords 2
XML structure 2
Table description 2
Columns 2
Super/PasswordLimit 3
XML structure 3
Table description 3
Columns 3

Super

Super/GlobalConfig

Super global configuration.

XML structure

```
<Super>
  <GlobalConfig>
    <ModeType></ModeType>
    <DefaultRole></DefaultRole>
  </GlobalConfig>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Authentication mode for temporary user role authorization	N/A	Enumeration: • **0**—Local password authentication. • **1**—Remote AAA authentication. • **2**—Local-then-remote authentication mode. • **3**—Remote-then-local authentication mode.	The default is 0.
DefaultRole	The default target user role for temporary user role authorization	N/A	A case-sensitive string of 1 to 63 characters. The user role must exist in the system.	The default is as follows: • If you log into a device that does not support MDC or Context, the target user role is network-admin. • If you log in to the

				default MDC, the default target user role is network-admin. • If you log in to a non-default MDC, the default target user role is mdc-admin. • If you log in to the default Context, the default target user role is network-admin. • If you log in to a non-default Context, the default target user role is context-admin.

Super/Passwords

Passwords of roles.

XML structure

```
<Super>
  <Passwords>
    <Password>
      <RoleName></RoleName>
    </Password>
  </Passwords>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	Passwords
Table type	Multi-instance table
Row name	Password
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	
RoleName	User role	Index	A case-sensitive string of 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	
			63 characters. The user role can be predefined or user-defined.	

Super/PasswordLimit

As described in *Comware V7 Super NETCONF XML API Configuration Reference*, the value range of the Password column in the Super/Passwords table varies in FIPS mode and non-FIPS mode. To configure the Super/Passwords table, first obtain the value range of the Password column from the Super/PasswordLimit table.

XML structure

```
<Super>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	PasswordLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	Minimum password length	N/A	Unsigned integer.	N/A
MaxLen	Maximum password length	N/A	Unsigned integer.	N/A
MinTypeNum	Minimum composition types	N/A	Unsigned integer.	The composition types are as follows: • Uppercase letters A to Z. • Lowercase letters a to z.

Column name	Column description	Column type	Data type and restrictions	Remarks
				• Digits 0 to 9. • Special characters.

Contents

Syslog 1
Syslog/LogBuffer 1
XML structure 1
Table description 1
Columns 1
Syslog/FileOperation 1
XML structure 2
Table description 2
Columns 2

Syslog

Syslog/LogBuffer

This table describes the actions that can be performed to the log buffer. vsys does not support this table.

XML structure

```
<Syslog>
  <LogBuffer>
    <Clear/>
    <ModuleName></ModuleName>
    <SubModuleName></SubModuleName>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears logs in the log buffer.	N/A	This column must be empty.
ModuleName	Module name	N/A	A case-insensitive string. Length: 1 to 8 characters.
SubModuleName	Sub module name	N/A	A case-insensitive string. Length: 1 to 8 characters.

Syslog/FileOperation

This table contains Operations about log files.

XML structure

```
<Syslog>
  <FileOperation>
    <Target></Target>
    <Operation></Operation>
  </FileOperation>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	FileOperation
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Target	Log files.	N/A	Enumeration string: ● Logfile ● DiagnosticLogfile ● SecurityLogfile
Operation	File operation	N/A	Enumeration string: ● Save

Contents

Syslog 1

Syslog/LogBuffer 1
XML structure 1
Table description 1
Columns 1
Syslog/LogHosts 1
XML structure 2
Table description 2
Columns 2
Syslog/Configuration 3
XML structure 3
Table description 4
Columns 4
Syslog/OutputRules 5
XML structure 5
Table description 5
Columns 5
Syslog/IndependLogCfgs 6
XML structure 6
Table description 7
Columns 7
Syslog/Logfile 8
XML structure 8
Table description 8
Columns 8
Syslog/DiagnosticLogfile 9
XML structure 9
Table description 9
Columns 9
Syslog/OperationLogfile 10
XML structure 10
Table description 10
Columns 11
Syslog/Logfiles 11
XML structure 11
Table description 12
Columns 12
Syslog/SecurityLogfile 12
XML structure 13
Table description 13
Columns 13
Syslog/TraceLogfile 14
XML structure 14
Table description 14
Columns 14
Syslog/Filter 14
XML structure 15
Table description 15
Columns 15
Syslog/VsysReservedLogBuffs 16
XML structure 16
Table description 16
Columns 16
Syslog/VsysToPublic 17
XML structure 17
Table description 17
Columns 17

Syslog

Syslog/LogBuffer

This table contains information about the log buffer. vsys does not support this table.

XML structure

```
<Syslog>
  <LogBuffer>
    <State></State>
    <BufferSize></BufferSize>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the log buffer	N/A	Enumeration: • enable **(default).** • disable**.**
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.

Syslog/LogHosts

This table contains information about log hosts.

XML structure

```
<Syslog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <Facility></Facility>
      <FilterName></FilterName>
      <SourceIP></SourceIP>
      <Format></Format>
    </Host>
  </LogHosts>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	Up to four log hosts can be configured.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. HostName example: www.example.com.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Facility	Logging facility used by the log host	N/A	Enumeration: • **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	N/A
FilterName	FilterName of the log host	N/A	String. Length: 0 to 8 characters.	N/A
SourceIP	Source IP address for system logs	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
Format	Log format	N/A	Enumeration: • **0**—Non-customized format . • **1**—cmcc. • **2**—unicom. • **3**—sgcc. • 4—rfc5424. • 5—damddos.	Support for the sgcc and damddos formats depends on the device model. By default, no format is specified and the log host uses the format specified by Syslog/Configuration/Format.

Syslog/Configuration

This table contains information about syslog (the information center).

XML structure

```
<Syslog>
  <Configuration>
    <State></State>
    <DuplicateLogSuppression></DuplicateLogSuppression>
    <Format></Format>
    <Synchronous></Synchronous>
    <Timestamp></Timestamp>
    <LoghostTimestamp></LoghostTimestamp>
    <LoghostSourceInterface></LoghostSourceInterface>
    <Encoding></Encoding>
    <MinAge></MinAge>
  </Configuration>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of syslog (the information center)	N/A	Enumeration: • enable **(default).** • disable**.**
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: • enable**.** • disable **(default).**
Format	Log format	N/A	Enumeration: • **0**—Non-customized format **(default)**. • **1**—cmcc. • **2**—unicom. • **3**—sgcc. • 4—rfc5424. • 5—damddos.
Synchronous	Status of the	N/A	Enumeration: • enable**.** • disable **(default).**
Timestamp	Timestamp output format of log information (not include the log host)	N/A	Enumeration: • **0**—none**.** • **1**—date **(default).** • **2**—boot.
LoghostTimestamp	Timestamp output format of log information sent to the log host	N/A	Enumeration: • **0**—none. • **1**—date **(default)**. • **2**—date with milliseconds. • **3**—iso. • **4**—iso with milliseconds. • **5**—no-year-date.
LoghostSourceInterface	An interface name, of which primary IP address as the source IP address for the	N/A	String. Length: 2 to 47 characters. Default: no value is specified.

Column name	Column description	Column type	Data type and restrictions
	syslog.		
Encoding	Character encoding of the log	N/A	Enumeration: • **0**—GB18030 **(default)**. • **1**—UTF-8.
MinAge	Minimum life time for logs.	N/A	Unsigned integer. Value range: 0H to 8760H.

Syslog/OutputRules

This table contains information about syslog (the information center) output rules.

XML structure

```
<Syslog>
  <OutputRules>
    <OutputRule>
      <Destination></Destination>
      <MouduleName></MouduleName>
      <Rule></Rule>
    </OutputRule>
  </OutputRules>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	OutputRules
Table type	Multi-instance table
Row name	OutputRule
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Specifies syslog output destination	Index	Enumeration: • 1-Console • 2-Monitor terminal • 3-Log buffer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4-Log host • 5-Log file	
MouduleName	Specifies a module by its name.	Index	A case-insensitive string. Length: 1 to 8 characters.	For instance to output FTP information, specify this argument as FTP (or ftp for case-insensitive). Setting default: Specifies all modules. If you do not set an output rule for a module, the module uses the default output rule or the output rule set by using the default keyword.
Rule	A log output rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination.	N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • **deny**	Set the severity level above which the system suppresses logs to the specified module. Setting the level to errors, for example, allows logs with levels emergencies, alerts, critical and errors to display. alert: Action must be taken immediately (severity=1) critical : Critical conditions (severity=2) debugging: Debug-level messages (severity=7) emergency: System is unusable (severity=0) error: Error conditions (severity=3) informational: Informational messages (severity=6) notification: Normal but significant conditions (severity=5) warning: Warning conditions (severity=4) deny: Disable log output.

Syslog/IndependLogCfgs

This table contains the configurations about independent logs.

XML structure

```
<Syslog>
  <IndependLogCfgs>
    <IndependLogCfg>
```

```
      <ModuleName></ModuleName>
      <BufferSize></BufferSize>
      <AlarmThreshold></AlarmThreshold>
      <MinAge></MinAge>
      <SizeQuota></SizeQuota>
    </IndependLogCfg>
  </IndependLogCfgs>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	IndependLogCfgs
Table type	Multi-instance table
Row name	IndependLogCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MouduleName	Specifies a module by its name.	Index	A case-insensitive string. Length: 1 to 8 characters.	If you do not set an output rule for a module, the module uses the default output rule or the output rule set by using the default keyword.
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.	Maximun log count.
AlarmThreshold	Set the alarm threshold of the log file usage	N/A	Unsigned integer. Value range: 0 to 100.	When the usage rate of log file reaches the threshold, an alarm log will be recorded.
MinAge	Minimum lifetime in hours	N/A	Unsigned integer. Value range: 0 to 8760.	Log file can not be deleted before minage.
SizeQuota	Specify the maximum storage space reserved for a log file	N/A	Unsigned integer. Value range: 1 to 10.	Maximum storage space reserved for a log file.

Syslog/Logfile

This table contains information about logfile.

XML structure

```
<Syslog>
  <Logfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
    <OverwriteProtection></OverwriteProtection>
  </Logfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Logfile
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the log file	N/A	Enumeration: • enable **(default).** • disable**.**
Directory	The directory where the log files are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the log file buffer to the log file	N/A	Unsigned integer. Value range: 1s to 86400s.

Column name	Column description	Column type	Data type and restrictions
SizeQuota	The maximum storage space reserved for a log file	N/A	Unsigned integer. Value range: 1M to 10M.
OverwriteProtection	Status log file overwrite-protection	N/A	Enumeration: • **0**—disable **(default)**. • **1**—enable. • **2**—enable with all-port-powerdown.

Syslog/DiagnosticLogfile

This table contains information about diagnostic logfile.

XML structure

```
<Syslog>
  <DiagnosticLogfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
  </DiagnosticLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	DiagnosticLogfile
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the diagnostic logfile	N/A	Enumeration: • enable **(default).** • disable**.**

Column name	Column description	Column type	Data type and restrictions
Directory	The directory where the diagnostic logfiles are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the diagnostic logfile buffer to the log file	N/A	Unsigned integer. Value range: 1s to 86400s.
SizeQuota	The maximum storage space reserved for a diagnostic logfile	N/A	Unsigned integer. Value range: 1M to 10M.

Syslog/OperationLogfile

This table contains information about operation log file.

XML structure

```
<Syslog>
  <OperationLogfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
    <AlarmThreshold></AlarmThreshold>
    <OverwriteProtection></OverwriteProtection>
  </OperationLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	OperationLogfile
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the operation log file feature.	N/A	Enumeration: • enable**(default)**. • disable**.**
Directory	Name of the directory where the operation logfiles are stored	N/A	String. Length: 1 to 64 characters.
Frequency	Interval at which the system saves logs from the operation logfile buffer to the log file	N/A	Unsigned integer. Value range: 1 to 86400, in seconds.
`SizeQuota`	Maximum storage space reserved for a operation logfile	N/A	Unsigned integer. Value range: 1 to 10, in MB.
AlarmThreshold	The alarm threshold of the operation log file usage	N/A	Unsigned integer. Value range: 0 to 100.
OverwriteProtection	Status of the operation logfile overwrite protection feature	N/A	Enumeration: • enable • disable **(default)**

Syslog/Logfiles

This table contains information about log files.

XML structure

```
<Syslog>
  <Logfiles>
    <Logfile>
      <Target></Target>
      <State></State>
      <Directory></Directory>
      <Frequency></Frequency>
      <SizeQuota></SizeQuota>
      <AlarmThreshold></AlarmThreshold>
      <OverwriteProtection></OverwriteProtection>
    </Logfile>
  </Logfiles>
```

```
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Logfiles
Table type	Multi-instance table
Row name	Logfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Target	Type of the log file.	Index	String: Length: 1 to 32 characters. Such as: • RunningLogfile
State	State of the log file.	N/A	Enumeration: • Enable**(default)**. • Disable.
Directory	Directory where the log file are stored.	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the log file buffer to the log file.	N/A	Unsigned integer. Value range: 1 to 86400, in seconds.
SizeQuota	Maximum storage space reserved for a log file.	N/A	Unsigned integer.. Value range: 1 to 10, in MB.
AlarmThreshold	The alarm threshold of the target log file usage.	N/A	Unsigned integer. Value range: 0 to 100. Default:80.
OverwriteProtection	Status of the log file overwrite-protection feature.	N/A	Enumeration: • Enable. • Disable**(default)**.

Syslog/SecurityLogfile

This table contains information about security logfile.

XML structure

```
<Syslog>
  <SecurityLogfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
    <AlarmThreshold></AlarmThreshold>
  </SecurityLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	SecurityLogfile
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the security logfile	N/A	Enumeration: • enable. • disable **(default).**
Directory	The directory where the security logfiles are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the security logfile buffer to the log file	N/A	Unsigned integer. Value range: 1s to 86400s.
`SizeQuota`	The maximum storage space reserved for a security logfile	N/A	Unsigned integer. Value range: 1M to 10M.

Column name	Column description	Column type	Data type and restrictions
AlarmThreshold	The alarm threshold of the security logfile usage	N/A	Unsigned integer. Value range: 0 to 100.

Syslog/TraceLogfile

This table contains information about trace logfile.

XML structure

```
<Syslog>
  <TraceLogfile>
    <SizeQuota></SizeQuota>
  </TraceLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	TraceLogfile
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
`SizeQuota`	The maximum storage space reserved for a trace logfile	N/A	Unsigned integer. Value range: 1M to 10M.

Syslog/Filter

This table contains information about syslog filter.

XML structure

```
<Syslog>
  <Filters>
    <Filter>
      <FilterName></FilterName>
      <FilterRules>
        <FilterRule>
          <ModuleName></ModuleName>
          <Rule></Rule>
        </FilterRule>
      </FilterRules>
    </Filter>
  </Filters>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Filters
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterName	Filter name	Index	String. • Length: 1 to 8 characters.	N/A
FilterRules	Filter rules	Data structure	Members include: ● ModuleName ● Rule	N/A
ModuleName	Module name	N/A	String. Length: 1 to 8 characters.	Modules registered to syslog. Please refer table “RegModule”

Column name	Column description	Column type	Data type and restrictions	Remarks
Rule	A log filter rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination	N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • deny	N/A

Syslog/VsysReservedLogBuffs

This table contains log buffer reserved size.

XML structure

```
<Syslog>
  <VsysReservedLogBuffs>
    <VsysReservedLogBuff>
      <VsysIndex></VsysIndex>
      <LogBuffReservedSize></LogBuffReservedSize>
    <VsysReservedLogBuff>
  </VsysReservedLogBuffs>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	VsysReservedLogBuffs
Table type	Multi-instance table
Row name	`VsysReservedLogBuff`
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysIndex	Vsys index	Index	Unsigned integer. Value range: 2 to 4095	N/A
LogBuffReserved Size	Log buffer reserved size	N/A	Unsigned integer. • • Minimum value:1	N/A

Syslog/VsysToPublic

This table contains vsys log send to public.

XML structure

```
<Syslog>
  <VsysToPublic>
    <VsysLogSendPublicEnable></VsysLogSendPublicEnable>
  </VsysToPublic>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	VsysToPublic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysLogSendPublicEnable	Vsys log send to public .	N/A	Enumeration: • **enable** • **disable** • Default:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			disable	

Contents

Syslog 1

Syslog/LogBuffer 1
XML structure 1
Table description 1
Columns 2
Syslog/LogHosts 3
XML structure 3
Table description 3
Columns 4
Syslog/Logs 4
XML structure 5
Table description 5
Columns 5
Syslog/Configuration 6
XML structure 6
Table description 6
Columns 6
Syslog/OutputRules 7
XML structure 7
Table description 8
Columns 8
Syslog/IndependLogCfgs 9
XML structure 9
Table description 9
Columns 9
Syslog/IndependLogInfos 10
XML structure 10
Table description 10
Columns 10
Syslog/IndependLogCount 11
XML structure 11
Table description 11
Columns 12
Syslog/Logfile 12
XML structure 12
Table description 12
Columns 13
Syslog/DiagnosticLogfile 13
XML structure 13
Table description 13
Columns 14
Syslog/SecurityLogfile 14
XML structure 14
Table description 14
Columns 15
Syslog/TraceLogfile 15
XML structure 15
Table description 16
Columns 16
Syslog/Filter 16
XML structure 16
Table description 16
Columns 17
Syslog/RegModule 17
XML structure 17
Table description 18
Columns 18

Syslog/VsysReservedLogBuffs 18
XML structure 18
Table description 18
Columns 19
Syslog/VsysToPublic 19
XML structure 19
Table description 19
Columns 19

Syslog

Syslog/LogBuffer

This table contains log buffer information.

XML structure

```
<Syslog>
  <LogBuffer>
    <State></State>
    <BufferSize></BufferSize>
    <BufferSizeLimit></BufferSizeLimit>
    <LogsCount></LogsCount>
    <DroppedLogsCount></DroppedLogsCount>
    <OverwrittenLogsCount></OverwrittenLogsCount>
    <LogsCountPerSeverity>
      <Emergency></Emergency>
      <Alert></Alert>
      <Critical></Critical>
      <Error></Error>
      <Warning></Warning>
      <Notice></Notice>
      <Informational></Informational>
      <Debug></Debug>
    </LogsCountPerSeverity>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the log buffer	N/A	Enumeration: • enable. • disable.	N/A
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
BufferSizeLimit	Maximum log buffer size supported by the device	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
LogsCount	Number of logs stored in the log buffer	N/A	Unsigned integer.	N/A
DroppedLogsCount	Number of dropped logs	N/A	Unsigned integer.	Number of logs dropped after the buffer size was decreased to a value that is smaller than the number of current logs.
OverwrittenLogsCount	Number of overwritten logs	N/A	Unsigned integer.	When the size of the log buffer exceeds the upper limit, new logs overwrites the earliest logs in the log buffer.
LogsCountPerSeverity	The number of each specified severity logs stored in the log buffer	Data structure	Members include: • Emergency • Alert • Critical • Error • Warning • Notice • Informational • Debug	N/A
Emergency	The number of emergency logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Alert	The number of alert logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Critical	The number of critical logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Error	The number of error logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Warning	The number of warning logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Notice	The number of notice logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Informational	The number of informational logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Debug	The number of debuglogs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Syslog/LogHosts

This table contains the log host information.

XML structure

```
<Syslog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <Facility></Facility>
      <FilterName></FilterName>
      <SourceIP></SourceIP>
      <Format></Format>
    </Host>
  </LogHosts>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. HostName example: www. example.com.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Facility	Logging facility used by the log host	N/A	Enumeration: • **128**—local0. • **136**—local1. • **144**—local2. • **152**—local3. • **160**—local4. • **168**—local5. • **176**—local6. • **184**—local7.	N/A
FilterName	FilterName of the log host	N/A	String. Length: 1 to 8 characters.	N/A
SourceIP	Source IP address for system logs	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
Format	Log format	N/A	Enumeration: • **0**—Non-customized format . • **1**—cmcc. • **2**—unicom. • **3**—sgcc. • 4—rfc5424. • 5—damddos.	Support for the sgcc and damddos formats depends on the device model. By default, no format is specified and the log host uses the format specified by Syslog/Configuration/Format.

Syslog/Logs

This table contains information about the logs in the log buffer.

XML structure

```
<Syslog>
  <Logs>
    <Log>
      <Index></Index>
      <Time></Time>
      <Group></Group>
      <Digest></Digest>
      <Severity></Severity>
      <Content></Content>
    </Log>
  </Logs>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Logs
Table type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Serial number of the log	N/A	Unsigned integer. Value range: 0 to 65535.
Time	Time when the log was generated	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
Group	Module that generated the log	N/A	String. Length: 1 to 8 characters.
Digest	Brief description of the log	N/A	String. Length: 1 to 32 characters.
Severity	Severity level of the log	N/A	Enumeration: • **0**—Emergency. • **1**—Alert. • **2**—Critical. • **3**—Error. • **4**—Warning. • **5**—Notification. • **6**—Informational. • **7**—Debugging.

Column name	Column description	Column type	Data type and restrictions
Content	Content of the log	N/A	String. Length: 0 to 1023 characters.

Syslog/Configuration

This table contains information about syslog (the information center).

XML structure

```
<Syslog>
  <Configuration>
    <State></State>
    <DuplicateLogSuppression></DuplicateLogSuppression>
    <Format></Format>
    <Synchronous></Synchronous>
    <Timestamp></Timestamp>
    <LoghostTimestamp></LoghostTimestamp>
    <LoghostSourceInterface></LoghostSourceInterface>
    <Encoding></Encoding>
    <MinAge></MinAge>
  </Configuration>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of syslog (the information center)	N/A	Enumeration: • enable. • disable.
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: • enable. • Disable.
Format	Log format	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			• **0**—Non-customized format (default). • **1**—cmcc. • **2**—unicom. • **3**—sgcc. • 4—rfc5424. • 5—damddos.
Synchronous	Status of the	N/A	Enumeration: • enable**.** • disable**.**
Timestamp	Timestamp output format of log information (not include the log host)	N/A	Enumeration: • **0**—none**.** • **1**—date(default)**.** • **2**—boot.
LoghostTimestamp	Timestamp output format of log information sent to the log host	N/A	Enumeration: • **0**—none. • **1**—date (default). • **2**—date with milliseconds. • **3**—iso. • **4**—iso with milliseconds. • **5**—no-year-date.
LoghostSourceInterface	An interface name, of which primary IP address as the source IP address for the syslog.	N/A	String. Length: 2 to 47 characters. Default: no value is specified.
Encoding	Character encoding of the log	N/A	Enumeration: • **0**—GB18030(default) . • **1**—UTF-8.
MinAge	Minimum life time of logs	N/A	Unsigned integer. Value range: 0H to 8760H.

Syslog/OutputRules

This table contains information about syslog (the information center) output rules.

XML structure

```
<Syslog>
  <OutputRules>
    <OutputRule>
      <Destination></Destination>
      <MouduleName></MouduleName>
      <Rule></Rule>
    </OutputRule>
  </OutputRules>
```

```
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	OutputRules
Table type	Multi-instance table
Row name	OutputRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Specifies syslog output destination	Index	Enumeration: • 1-Console • 2-Monitor terminal • 3-Log buffer • 4-Log host • 5-Log file	N/A
MouduleName	Specifies a module by its name.	Index	A case-insensitive string. Length: 1 to 8 characters.	If you do not set an output rule for a module, the module uses the default output rule or the output rule set by using the default keyword.
Rule	A log output rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination.	N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • **deny**	Set the severity level above which the system suppresses logs to the specified module. Setting the level to errors, for example, allows logs with levels emergencies, alerts, critical and errors to display. alert: Action must be taken immediately (severity=1) critical: Critical conditions (severity=2) debugging: Debug-level messages (severity=7) emergency: System is unusable (severity=0) error: Error conditions (severity=3) informational: Informational messages (severity=6) notification Normal but significant conditions

Column name	Column description	Column type	Data type and restrictions	Remarks
				(severity=5) warning: Warning conditions (severity=4) deny: Disable log output

Syslog/IndependLogCfgs

This table contains log configuration information about specific modules.

XML structure

```
<Syslog>
  <IndependLogCfgs>
    <IndependLogCfg>
      <ModuleName></ModuleName>
      <BufferSize></BufferSize>
      <AlarmThreshold></AlarmThreshold>
      <MinAge></MinAge>
      <SizeQuota></SizeQuota>
    </IndependLogCfg>
  </IndependLogCfgs>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	IndependLogCfgs
Table type	Multi-instance table
Row name	IndependLogCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ModuleName	Name of a module	Index	String, case-insensitive. Length: 1 to 8 characters.
BufferSize	Maximum number of log entries that can be stored in the log buffer for this module	N/A	Unsigned integer. Value range: 0 to 65535.
AlarmThreshold	Log file usage alarm threshold.	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 100, in percentage.
MinAge	Minimum lifetime of syslogs	N/A	Unsigned integer. Value range: 0 to 8760, in hours.
SizeQuota	Maximum storage space reserved for a log file	N/A	Unsigned integer. Value range: 1 to 10, in MB.

Syslog/IndependLogInfos

This table contains information about logs in the log buffers of specific modules.

XML structure

```
<Syslog>
  <IndependLogInfos>
    <IndependLogInfo>
      <ModuleName></ModuleName>
      <SubModuleName></SubModuleName>
      <Index></Index>
      <Time></Time>
      <Digest></Digest>
      <Severity></Severity>
      <Content></Content>
    </IndependLogInfo>
  </IndependLogInfos>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	IndependLogInfos
Table type	Multi-instance table
Row name	IndependLogInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ModuleName	Name of the module	Index	String, case-insensitive. Length: 1 to 8 characters.
SubModuleName	Name of the sub module	Index	String, case-insensitive. Length: 1 to 8 characters.

Column name	Column description	Column type	Data type and restrictions
Index	Serial number of the log	Index	Unsigned integer. Value range: 0 to 65535.
Time	Time when the log was generated	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
Digest	Brief description of the log	N/A	String. Length: 1 to 32 characters.
Severity	Severity level of the log	N/A	Enumeration: • **0**—Emergency. • **1**—Alert. • **2**—Critical. • **3**—Error. • **4**—Warning. • **5**—Notification. • **6**—Informational. • **7**—Debugging.
Content	Content of the log	N/A	String. Length: 0 to 1023 characters.

Syslog/IndependLogCount

This table contains count of logs.

XML structure

```
<Syslog>
  <IndependLogCount>
    <ModuleName></ModuleName>
    <SubModuleName></SubModuleName>
    <CountFilter></CountFilter>
    <Count></Count>
  </IndependLogCount>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	IndependLogCount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleName	Name of module	N/A	String, case-insensitive. Length: 1 to 8 characters.	N/A
SubModuleName	Name of sub module	N/A	String, case-insensitive. Length: 1 to 8 characters.	N/A
CountFilter	Filters for counting logs.	N/A	String. Length: 0 to 2047 characters.	Separate the filters with spaces. The general filters are Severity, TimeStart, and TimeEnd. Modules can define private filters.
Count	Count of the logs matching the filters.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Syslog/Logfile

This table contains information about logfile.

XML structure

```
<Syslog>
  <Logfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
    <OverwriteProtection></OverwriteProtection>
  </Logfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Logfile
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the log file	N/A	Enumeration: • enable. • disable.
Directory	The directory where the log files are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the log file buffer to the log file	N/A	Unsigned integer. Value range: 1s to 86400s.
SizeQuota	The maximum storage space reserved for a log file	N/A	Unsigned integer. Value range: 1M to 10M.
OverwriteProtection	Status log file overwrite-protection	N/A	Enumeration: • **0**—disable. • **1**—enable. • **2**—enable with all-port-powerdown.

Syslog/DiagnosticLogfile

This table contains information about diagnostic logfile.

XML structure

```
<Syslog>
  <DiagnosticLogfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
  </DiagnosticLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	DiagnosticLogfile

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the diagnostic logfile	N/A	Enumeration: • enable. • disable.
Directory	The directory where the diagnostic logfiles are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the diagnostic logfile buffer to the log file	N/A	Unsigned integer. Value range: 10s to 86400s.
SizeQuota	The maximum storage space reserved for a diagnostic logfile	N/A	Unsigned integer. Value range: 1M to 10M.

Syslog/SecurityLogfile

This table contains information about security logfile.

XML structure

```
<Syslog>
  <SecurityLogfile>
    <State></State>
    <Directory></Directory>
    <Frequency></Frequency>
    <SizeQuota></SizeQuota>
    <AlarmThreshold></AlarmThreshold>
  </SecurityLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog

Table name	SecurityLogfile
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the security logfile	N/A	Enumeration: • enable. • disable.
Directory	The directory where the security logfiles are stored	N/A	String. Length: 1 to 64 characters.
Frequency	The interval at which the system saves logs from the security logfile buffer to the log file	N/A	Unsigned integer. Value range: 10s to 86400s.
SizeQuota	The maximum storage space reserved for a security logfile	N/A	Unsigned integer. Value range: 1M to 10M.
AlarmThreshold	The alarm threshold of the security logfile usage	N/A	Unsigned integer. Value range: 0 to 100. 80(default).

Syslog/TraceLogfile

This table contains information about trace logfile.

XML structure

```
<Syslog>
  <TraceLogfile>
    <SizeQuota></SizeQuota>
  </TraceLogfile>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	TraceLogfile
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SizeQuota	The maximum storage space reserved for a trace logfile	N/A	Unsigned integer. Value range: 1M to 10M.

Syslog/Filter

This table contains information about syslog filter.

XML structure

```
<Syslog>
  <Filters>
    <Filter>
      <FilterName></FilterName>
      <FilterRules>
        <FilterRule>
          <ModuleName></ModuleName>
          <Rule></Rule>
        </FilterRule>
      </FilterRules>
    </Filter>
  </Filters>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog

Table name	Filters
Table type	Multi-instance table
Row name	Filter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FilterName	Filter name	Index	String. • Length: 1 to 8 characters.
FilterRules	N/A	Data structure	Members include: ● ModuleName ● Rule
ModuleName	Module name	index	String. Length: 1 to 8 characters.
Rule	A log filter rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination	N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • deny

Syslog/RegModule

This table contains modules registered to syslog.

XML structure

```
<Syslog>
  <RegModule>
    <ModuleName></ModuleName>
  </RegModule>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	`RegModule`
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
`ModuleName`	Modules registered to syslog.	N/A	String. Length: 1 to 8 characters.

Syslog/VsysReservedLogBuffs

This table contains log buffer reserved size.

XML structure

```
<Syslog>
  <VsysReservedLogBuffs>
    <VsysReservedLogBuff>
      <VsysIndex></VsysIndex>
      <LogBuffReservedSize></LogBuffReservedSize>
    </VsysReservedLogBuff>
  </VsysReservedLogBuffs>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	VsysReservedLogBuffs
Table type	Multi-instance table
Row name	`VsysReservedLogBuff`
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsysIndex	Vsys index	Index	Unsigned integer. Value range: 2 to 4095.
LogBuffReservedSize	Log buffer reserved size.	N/A	Unsigned integer. Minimum value:1

Syslog/VsysToPublic

This table contains vsys log send to public.

XML structure

```
<Syslog>
  <VsysToPublic>
    <VsysLogSendPublicEnable></VsysLogSendPublicEnable>
  </VsysToPublic>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	VsysToPublic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsysLogSendPublicEnable	Vsys log send to public .	N/A	Enumeration: • **enable** • **disable** Default: disable

Contents

Syslog 2
Syslog/LogHosts 2
Syslog/LogBuffer 2

Syslog

Syslog/LogHosts

Message	Explanation
Maximum number of log hosts already reached. 日志主机数量已经达到最大值。	Create log host failed. 日志主机数量已经达到最大值，创建新日志主机失败。
Invalid address. 无效的地址。	Create log host failed. 请提供正确的日志主机地址。

Syslog/LogBuffer

Message	Explanation
The value of BufferSize can't exceed %u. 日志缓冲区设置的值不能超过%u。	The buffer size can't exceed the max size. 用户设置日志缓冲区大小不能超过最大值。

Contents

SyslogLimit 1
SyslogLimit/SyslogLimitRate 1
XML structure 1
Table description 1
Columns 1

SyslogLimit

SyslogLimit/SyslogLimitRate

This table is used for config the limit rate of syslog.

XML structure

```
<SyslogLimit>
  <SyslogLimitRate>
    <Rate></Rate>
  </SyslogLimitRate>
</SyslogLimit>
```

Table description

Item	Description
Feature name	SyslogLimit
Table name	SyslogLimitRate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rate	The limit rate of syslog.	N/A	Unsigned integer. Value range: 0 to 65535,0 for limitless rate. Default: It is depend on devices.	N/A

Contents

SyslogLimit 1
SyslogLimit/SyslogLimitRate 1
XML structure 1
Table description 1
Columns 1

SyslogLimit

SyslogLimit/SyslogLimitRate

This table is used for config the limit rate of syslog.

XML structure

```
<SyslogLimit>
  <SyslogLimitRate>
    <Rate></Rate>
  </SyslogLimitRate>
</SyslogLimit>
```

Table description

Item	Description
Feature name	SyslogLimit
Table name	SyslogLimitRate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rate	Set the limit rate of syslog.	N/A	Unsigned integer. Value range: 0 to 65535,0 for limitless rate. Default: It is depend on devices.	N/A

Contents

TAC 1
TAC/SdpKafka 1
XML structure 1
Table description 1
Columns 1

TAC

TAC/SdpKafka

This table contains information about Kafka deployed by the SDP controller.

XML structure

```
<TAC>
  <SdpKafka>
    <Broker>
      <ServerIP></ServerIP>
      <ServerPort></ServerPort>
    <Broker>
    <Topic></Topic>
  </SdpKafka>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	SdpKafka
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Broker	Configuration of kafka brokers	Data structure.	Members include: • ServerIP. • ServerPort.	Repeatable, max count 32.
ServerIP	IPv4 address of the Kafka service	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ServerPort	Port number of the Kafka service	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Topic	Topic name of the Kafka	N/A	String, case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service		Length: 1 to 32 characters.	

Contents

TAC 1
TAC/ IAMTrustedAccessController 1
XML structure 1
Table description 1
Columns 1
TAC/CSAPTrustedAccessController 2
XML structure 2
Table description 2
Columns 3
TAC/CSAPAccessPolicyElements 3
XML structure 3
Table description 3
Columns 4
TAC/CSAPTrustedAccessPolicy 4
XML structure 4
Table description 4
Columns 5
TAC/SDPController 5
XML structure 5
Table description 5
Columns 5

TAC

TAC/ IAMTrustedAccessController

This table contains information about IAM trusted-access controller.

XML structure

```
<TAC>
  <IAMTrustedAccessControllers>
    <IAMTrustedAccessController>
      <Name></Name>
      <Description></Description>
      <LocalServerUrl></LocalServerUrl>
      <PeerServerUrl></PeerServerUrl>
      <SSLClientPolicy></SSLClientPolicy>
      <SSLServerPolicy></SSLServerPolicy>
      <ServiceEnable></ServiceEnable>
    </IAMTrustedAccessController>
  </IAMTrustedAccessControllers>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	IAMTrustedAccessControllers
Table type	Multi-instance table
Row name	IAMTrustedAccessController
Restrictions	Only IAM trusted-access controller can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IAM trusted-access controller.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the IAM trusted-access	N/A	String. Length: 0 to 127	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	controller.		characters.	
LocalServer Url	Specify the URL of local service used to link with an external rights management serverl	N/A	String. case-insensitive. Length: 1 to 255 characters.	N/A
PeerServer Url	Specify the peer service URL of the external rights management service	N/A	String. case-insensitive. Length: 1 to 255 characters.	N/A
SSLClientP olicy	Name of the SSL client policy	N/A	String, case-insensitive. • Length: 0 to 31 characters.	N/A
SSLServerP olicy	Name of the SSL client policy	N/A	String, case-insensitive. • Length: 0 to 31 characters.	N/A
ServiceEna ble	Enable the IAM trusted-access controller.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

TAC/CSAPTrustedAccessController

This table contains configuration information about a trusted access controller of the CSAP type.

XML structure

```
<TAC>
  <CSAPTrustedAccessController>
    <RemoteUrl></RemoteUrl>
    <SSLClientPolicy></SSLClientPolicy>
    <VRF></VRF>
  </CSAPTrustedAccessController>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPTrustedAccessController
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteUrl	Address of the CSAP controller.	N/A	URLString. Length: 1 to 255 characters.	N/A
SSLClientPolicy	Name of the SSL client policy used by the CSAP controller	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
VRF	Name of the VPN instance associated with the CSAP controller.	N/A	String. Length: 0 to 31 characters.	If the TAC is on the public network, the length of characters is 0.

TAC/CSAPAccessPolicyElements

This table contains configuration information about trusted access policy elements of the CSAP type.

XML structure

```
<TAC>
  <CSAPAccessPolicyElements>
    <CSAPAccessPolicyElement>
      <UserRiskLevel></UserRiskLevel>
      <AssetRiskLevel></AssetRiskLevel>
      <Allow></Allow>
    </CSAPAccessPolicyElement>
  </CSAPAccessPolicyElements>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPAccessPolicyElements
Table type	Multi-instance table
Row name	CSAPAccessPolicyElement
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
UserRiskLevel	Risk level of users.	Index	Enumeration: • **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.
AssetRiskLevel	Risk level of assets.	Index	Enumeration: • **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.
Allow	Whether to allow access.	N/A	Boolean: • **true**—Permit. • **false**—Deny.

TAC/CSAPTrustedAccessPolicy

This table contains configuration information about the trusted access policy of the CSAP type.

XML structure

```
<TAC>
  <CSAPTrustedAccessPolicy>
    <Enable></Enable>
  </CSAPTrustedAccessPolicy>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPTrustedAccessPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable trusted access policy of the CSAP type.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).

TAC/SDPController

This table contains SDP controller configuration information.

XML structure

```
<TAC>
  <SDPController>
    <SDPEnable></SDPEnable>
    <AccessMode></AccessMode>
    <DefaultAPIRule></DefaultAPIRule>
    <SPAEnable></SPAEnable>
  </SDPController>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	SDPController
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
SDPEnable	Whether to enable the SDP controller	N/A	Boolean: • true—Enabled. • false—Disabled (default).
AccessMode	User access mode	N/A	Enumeration:. • 1 — IP tunnel • 2 — Web access. • 3 — Mixed mode(default)

Column name	Column description	Column type	Data type and restrictions
DefaultAPIRule	Default API access rule when no matching APIs are found	N/A	Boolean: • true—Permit (default). • false—Deny
SPAEnable	Whether to enable SPA authentication	N/A	Boolean: • true—Enabled. • false—Disabled (default).

Contents

TAC 1
TAC/IAMTrustedAccessController 1
XML structure 1
Table description 1
Columns 1
TAC/CSAPTrustedAccessController 2
XML structure 2
Table description 2
Columns 3
TAC/CSAPAccessPolicyElements 3
XML structure 3
Table description 3
Columns 4
TAC/CSAPTrustedAccessPolicy 4
XML structure 4
Table description 4
Columns 4
TAC/CSAPRiskUsers 5
XML structure 5
Table description 5
Columns 5
TAC/CSAPRiskAssets 6
XML structure 6
Table description 6
Columns 6
TAC/CSAPConnStatus 7
XML structure 7
Table description 7
Columns 7
TAC/SDPController 8
XML structure 8
Table description 8
Columns 8

TAC

TAC/IAMTrustedAccessController

This table contains information about IAM trusted-access controller.

XML structure

```
<TAC>
  <IAMTrustedAccessControllers>
    <IAMTrustedAccessController>
      <Name></Name>
      <Description></Description>
      <LocalServerUrl></LocalServerUrl>
      <PeerServerUrl></PeerServerUrl>
      <SSLClientPolicy></SSLClientPolicy>
      <SSLServerPolicy></SSLServerPolicy>
      <ServiceEnable></ServiceEnable>
    </IAMTrustedAccessController>
  </IAMTrustedAccessControllers>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	IAMTrustedAccessControllers
Table type	Multi-instance table
Row name	IAMTrustedAccessController
Restrictions	Only IAM trusted-access controller can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IAM trusted-access controller.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the IAM	N/A	String. Length: 0 to 127	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	trusted-access controller.		characters.	
LocalServerUrl	Specify the URL of local service used to link with an external rights management server	N/A	String. case-insensitive. Length: 1 to 255 characters.	N/A
PeerServerUrl	Specify the peer service URL of the external rights management service	N/A	String. case-insensitive. Length: 1 to 255 characters.	N/A
SSLClientPolicy	Name of the SSL client policy	N/A	String, case-insensitive. • Length: 0 to 31 characters.	N/A
SSLServerPolicy	Name of the SSL client policy	N/A	String, case-insensitive. • Length: 0 to 31 characters.	N/A
ServiceEnable	Enable the IAM trusted-access controller.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

TAC/CSAPTrustedAccessController

This table contains configuration information about a trusted access controller of the CSAP type.

XML structure

```
<TAC>
  <CSAPTrustedAccessController>
    <RemoteUrl></RemoteUrl>
    <SSLClientPolicy></SSLClientPolicy>
    <VRF></VRF>
  </CSAPTrustedAccessController>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPTrustedAccessController
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteUrl	Address of the CSAP controller.	N/A	URLString Length: 1 to 255 characters.	N/A
SSLClientPolicy	Name of the SSL client policy used by the CSAP controller	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
VRF	Name of the VPN instance associated with the CSAP controller.	N/A	String. Length: 0 to 31 characters.	If the TAC is on the public network, the length of characters is 0.

TAC/CSAPAccessPolicyElements

This table contains configuration information about trusted access policy elements of the CSAP type

XML structure

```
<TAC>
  <CSAPAccessPolicyElements>
    <CSAPAccessPolicyElement>
      <UserRiskLevel></UserRiskLevel>
      <AssetRiskLevel></AssetRiskLevel>
      <Allow></Allow>
    </CSAPAccessPolicyElement>
  </CSAPAccessPolicyElements>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPAccessPolicyElements
Table type	Multi-instance table
Row name	CSAPAccessPolicyElement
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserRiskLevel	Risk level of users.	Index	Enumeration: • **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.
AssetRiskLevel	Risk level of assets.	Index	Enumeration: • **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.
Allow	Whether to allow access.	N/A	Boolean: • **true**—Permit. • **false**—Deny

TAC/CSAPTrustedAccessPolicy

This table contains configuration information about the trusted access policy of the CSAP type.

XML structure

```
<TAC>
  <CSAPTrustedAccessPolicy>
    <Enable></Enable>
  </CSAPTrustedAccessPolicy>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPTrustedAccessPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	
Enable	Whether to enable trusted	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	
	access policy of the CSAP type.		• **true**—Enabled. • **false**—Disabled .	

TAC/CSAPRiskUsers

This table contains information about users of different risk levels.

XML structure

```
<TAC>
  <CSAPRiskUsers>
    <CSAPRiskUser>
      <UserName></UserName>
      <UserIP></UserIP>
      <RiskLevel></RiskLevel>
      <TotalNum></TotalNum>
    </CSAPRiskUser>
  </CSAPRiskUsers>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPRiskUsers
Table type	Multi-instance table
Row name	CSAPRiskUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case insensitive. Length: 1 to 255 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
UserIP	User IP address.	Index	IPv4: String, dotted decimal notation; IPv6: Hexadecimal string, colon-separated. Example: 1.1.1.1; 1:1::1:1..	N/A
RiskLevel	Risk level..	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.	
TotalNum	Total number of users of different risk levels.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

TAC/CSAPRiskAssets

This table contains information about assets of different risk levels.

XML structure

```
<TAC>
  <CSAPRiskAssets>
    <CSAPRiskAsset>
      <AssetName></AssetName>
      <AssetIP></AssetIP>
      <RiskLevel></RiskLevel>
      <TotalNum></TotalNum>
    </CSAPRiskAsset>
  </CSAPRiskAssets>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPRiskAssets
Table type	Multi-instance table
Row name	CSAPRiskAsset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssetName	Asset name.	Index	String, case insensitive. Length: 1 to 255 characters.	N/A
AssetIP	IP address of the asset.	Index	IPv4: String, dotted decimal notation; IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Example: 1.1.1.1; 1:1::1:1.	
RiskLevel	Risk level.	N/A	Enumeration: • **0**—**Fallen**. • **1**—High. • **2**—Low • **3**—Trust.	N/A
TotalNum	Total number of assets of different risk levels.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

TAC/CSAPConnStatus

This table contains status of the connection with the CSAP server.

XML structure

```
<TAC>
  <CSAPConnStatus>
     <ConnStatus></ConnStatus>
  </CSAPConnStatus>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	CSAPConnStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnStatus	Connection status	N/A	Enumeration: • 0—Connected successfully. • 1—Connection failed. • 2—Connecting.	N/A

TAC/SDPController

This table contains SDP controller configuration information.

XML structure

```
<TAC>
  <SDPController>
    <SDPEnable></SDPEnable>
    <AccessMode></AccessMode>
    <DefaultAPIRule></DefaultAPIRule>
    <SPAEnable></SPAEnable>
  </SDPController>
</TAC>
```

Table description

Item	Description
Feature name	TAC
Table name	SDPController
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SDPEnable	Whether to enable the SDP controller	N/A	Boolean: • true—Enabled. • false—Disabled
AccessMode	User access mode	N/A	Enumeration: • 1 — IP tunnel • 2 — Web access. • 3 — Mixed mode
DefaultAPIRule	Default API access rule when no matching APIs are found	N/A	Boolean: • true—Permit. • false—Deny
SPAEnable	Whether to enable SPA authentication	N/A	Boolean: • true—Enabled. • false—Disabled.

Contents

TAC 1

TAC/ TrustedAccessController 1

TAC

TAC/ TrustedAccessController

Message	Explanation
The configured URL is illegal URL地址不合法	The configured URL is illegal URL 地址不合法
The number of trusted access controllers has reached the limit 允许配置的可信访问控制器个数达到了最大值	The number of trusted access controllers has reached the limit 允许配置的可信访问控制器个数达到了最大值
Conflicts with the URL configured for another object URL与其他可信访问控制器的URL冲突	Conflicts with the URL configured for another object URL与其他可信访问控制器的URL冲突
The adderess in local and peer service URL Can't be the same 本地服务器URL与对端服务URL不能冲突	The adderess in local and peer service URL Can't be the same 本地服务器URL与对端服务URL不能冲突

Contents

Tacacs 1
Tacacs/ClearAllStatistic 1
XML structure 1
Table description 1
Columns 1

Tacacs

Tacacs/ClearAllStatistic

Clear all TACACS statistics.

XML structure

```
<Tacacs>
  <ClearAllStatistic>
    <Clear></Clear>
  </ClearAllStatistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all TACACS statistics.	N/A	This column must be empty.

Contents

Tacacs 1
Tacacs/GlobalNasIps 1
XML structure 1
Table description 1
Columns 1
Tacacs/Schemes 2
XML structure 2
Table description 2
Columns 2
Tacacs/AuthServers 4
XML structure 4
Table description 5
Columns 5
Tacacs/AuthorServers 6
XML structure 6
Table description 7
Columns 7
Tacacs/AcctServers 8
XML structure 8
Table description 9
Columns 9
Tacacs/Dscp 10
XML structure 10
Table description 10
Columns 11

Tacacs

Tacacs/GlobalNasIps

TACACS global NAS IP information table.

XML structure

```
<Tacacs>
  <GlobalNasIps>
    <GlobalNasIp>
      <VRF></VRF>
      <IpType></IpType>
      <IpAddress></IpAddress>
    </GlobalNasIp>
  </GlobalNasIps>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	The maximum number of global NAS IP addresses is 16.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	If this column is empty, the NAS IP is on the public network.
IpType	Source IP address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.0.0.1 IPv6 example: 2001:12::1:2

Tacacs/Schemes

TACACS scheme table.

XML structure

```
<Tacacs>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <RealAcctInterval></RealAcctInterval>
      <TimeOut></TimeOut>
      <QuietTime></QuietTime>
      <UserNameFormat></UserNameFormat>
      <BytesUnit></BytesUnit>
      <PacketsUint></PacketsUint>
      <NasIpv4Address></NasIpv4Address>
      <NasIpv6Address></NasIpv6Address>
      <AuthenKey></AuthenKey>
      <AuthorKey></AuthorKey>
      <AcctKey></AcctKey>
      <VRF></VRF>
    </Scheme>
  </Schemes>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The maximum number of TACACS schemes is 16.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
RealAcctInterval	Realtime accounting	N/A	Unsigned integer.	Default: 12 minutes.

Column name	Column description	Column type	Data type and restrictions	Remarks
	interval		Value range: 0 to 60, in minutes.	The value of 0 indicates that the device does not send realtime accounting information for online users to TACACS servers.
TimeOut	TACACS server response timeout timer	N/A	Unsigned integer. Value range: 1 to 300, in seconds.	Default: 5 seconds
QuietTime	Quiet timer for the servers specified in the TACACS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes
UserNameFormat	Format of user names to be sent to TACACS servers	N/A	Enumeration: • **0**—keep-original. • **1**—with-domain. • **2**—without-domain.	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: • **0**—byte. • **1**—kilo-byte. • **2**—mega-byte. • **3**—giga-byte.	Default: 0
PacketsUint	Packet measurement unit for traffic statistics	N/A	Enumeration: • **0**—one-packet. • **1**—kilo-packet. • **2**—mega-packet. • **3**—giga-packet.	Default: 0
NasIpv4Address	Source IPv4 IP address for outgoing TACACS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	Source IPv6 IP address for outgoing TACACS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
AuthenKey	Shared key for secure TACACS authentication communicatio n	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorKey	Shared key for secure HWTACACS authorization communicatio n	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
AcctKey	Shared key for secure TACACS accounting communicatio n	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
VRF	VRF name	N/A	String. Length: 1 to 31 characters.	If this column is empty, the TACACS servers are on the public network. Default: Public network

Tacacs/AuthServers

TACACS authentication server table.

XML structure

```
<Tacacs>
  <AuthServers>
    <AuthServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AuthServer>
```

```
  </AuthServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can configure one primary authentication server and a maximum of 16 secondary authentication servers for backup in each TACACS scheme. To change the primary authentication server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authentication server. • **1**—Secondary authentication server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType

Column name	Column description	Column type	Data type and restrictions	Remarks
				value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
Key	Shared key for secure TACACS authentication communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
SingleConn	Whether to use the same TCP connection for authentication packet exchange for all users	N/A	Boolean: • true • false	Default: false

Tacacs/AuthorServers

TACACS authorization server table.

XML structure

```
<Tacacs>
  <AuthorServers>
    <AuthorServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AuthorServer>
  </AuthorServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer
Restrictions	You can configure one primary authorization server and a maximum of 16 secondary authorization servers for backup in each TACACS scheme. To change the primary authorization server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authorization server. • **1**—Secondary authorization server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authorization server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Service port number of the TACACS authorization server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
Key	Shared key for secure HWTACACS authentication communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
SingleConn	Whether to use the same TCP connection for authorization packet exchange for all users	N/A	Boolean: • true • false	Default: false

Tacacs/AcctServers

TACACS accounting server table.

XML structure

```
<Tacacs>
  <AcctServers>
    <AcctServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AcctServer>
  </AcctServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can configure one primary accounting server and a maximum of 16 backup accounting servers for backup in each TACACS. To change the primary accounting server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary accounting server. • **1**—Secondary accounting server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS accounting server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Service port number of the TACACS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
Key	Shared key for secure TACACS accounting communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.In dayou OEM, the shared key must contain a minimum of 9 characters and a minimum of 4 character. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
SingleConn	Whether to use the same TCP connection for accounting packet exchange for all users	N/A	Boolean: • true • false	Default: false

Tacacs/Dscp

This table contains the DSCP priority configuration for TACACS packets.

XML structure

```
<Tacacs>
  <Dscp>
    <Ipv4></Ipv4>
    <Ipv6></Ipv6>
  </Dscp>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 TACACS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 TACACS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Contents

Tacacs 1

Tacacs/GlobalNasIps 1
XML structure 1
Table description 1
Columns 1
Tacacs/Schemes 2
XML structure 2
Table description 2
Columns 2
Tacacs/AuthServers 3
XML structure 3
Table description 4
Columns 4
Tacacs/AuthorServers 5
XML structure 5
Table description 6
Columns 6
Tacacs/AcctServers 7
XML structure 7
Table description 7
Columns 8
Tacacs/Statistic/AuthServers 9
XML structure 9
Table description 10
Columns 10
Tacacs/Statistic/AuthorServers 12
XML structure 12
Table description 13
Columns 13
Tacacs/Statistic/AcctServers 15
XML structure 15
Table description 15
Columns 16
Tacacs/PasswordLimit 17
XML structure 17
Table description 18
Columns 18
Tacacs/Dscp 18
XML structure 19
Table description 19
Columns 19

Tacacs

Tacacs/GlobalNasIps

TACACS global NAS IP information table.

XML structure

```
<Tacacs>
  <GlobalNasIps>
    <GlobalNasIp>
      <VRF></VRF>
      <IpType></IpType>
      <IpAddress></IpAddress>
    </GlobalNasIp>
  </GlobalNasIps>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	The maximum number of global NAS IP addresses is 16.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	If this column is empty, the NAS IP is on the public network.
IpType	Source IP address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.0.0.1 IPv6 example: 2001:12::1:2

Tacacs/Schemes

TACACS scheme table.

XML structure

```
<Tacacs>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <RealAcctInterval></RealAcctInterval>
      <TimeOut></TimeOut>
      <QuietTime></QuietTime>
      <UserNameFormat></UserNameFormat>
      <BytesUnit></BytesUnit>
      <PacketsUint></PacketsUint>
      <NasIpv4Address></NasIpv4Address>
      <NasIpv6Address></NasIpv6Address>
      <VRF></VRF>
    </Scheme>
  </Schemes>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The maximum number of TACACS schemes is 16.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 60, in minutes.	Default: 12 minutes. The value of 0 indicates that the device does not send realtime accounting information for online users to TACACS servers.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeOut	TACACS server response timeout timer	N/A	Unsigned integer. Value range: 1 to 300, in seconds.	Default: 5 seconds
QuietTime	Quiet timer for the servers specified in the TACACS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes
UserNameFormat	Format of user names to be sent to TACACS servers	N/A	Enumeration: • **0**—keep-original. • **1**—with-domain. • **2**—without-domain.	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: • **0**—byte. • **1**—kilo-byte. • **2**—mega-byte. • **3**—giga-byte.	Default: 0
PacketsUint	Packet measurement unit for traffic statistics	N/A	Enumeration: • **0**—one-packet. • **1**—kilo-packet. • **2**—mega-packet. • **3**—giga-packet.	Default: 0
NasIpv4Address	Source IPv4 IP address for outgoing TACACS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	Source IPv6 IP address for outgoing TACACS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.	If this column is empty, the TACACS servers are on the public network. Default: Public network

Tacacs/AuthServers

TACACS authentication server table

XML structure

```
<Tacacs>
  <AuthServers>
    <AuthServer>
```

```
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <SingleConn></SingleConn>
      <State></State>
    </AuthServer>
  </AuthServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can configure one primary authentication server and a maximum of 16 secondary authentication servers for backup in each TACACS scheme. To change the primary authentication server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authentication server. • **1**—Secondary authentication server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authentication	Index	IPv4: String, dotted decimal notation.	When the IpType value is 0, this column represents

Column name	Column description	Column type	Data type and restrictions	Remarks
	server		IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS authentication server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
SingleConn	Whether to use the same TCP connection for authentication packet exchange for all users	N/A	Boolean: • true • false	Default: false
State	Status of the TACACS authentication server	N/A	Enumeration: • **0**—Active. • **1**—Block.	Default: 0

Tacacs/AuthorServers

TACACS authorization server table.

XML structure

```
<Tacacs>
  <AuthorServers>
    <AuthorServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <SingleConn></SingleConn>
      <State></State>
    </AuthorServer>
  </AuthorServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer
Restrictions	You can configure one primary authorization server and a maximum of 16 secondary authorization servers for backup in each TACACS scheme. To change the primary authorization server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary authorization server.. • **1**—Secondary authorization server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authorization server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the	Index	Unsigned integer.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
	TACACS authorization server		Value range: 1 to 65535.	
SingleConn	Whether to use the same TCP connection for authorization packet exchange for all users	N/A	Boolean: • true • false	Default: false
State	Status of the TACACS authorization server	N/A	Enumeration: • **0**—Active. • **1**—Block.	Default: 0

Tacacs/AcctServers

TACACS accounting server table.

XML structure

```
<Tacacs>
  <AcctServers>
    <AcctServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <SingleConn></SingleConn>
      <State></State>
    </AcctServer>
  </AcctServers>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can configure one primary accounting server and a maximum of 16 backup accounting servers for backup in each TACACS. To change the primary accounting

	server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: • **0**—Primary TACACS accounting server. • **1**—Secondary TACACS accounting server..	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS accounting server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS accounting server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
SingleConn	Whether to use the same TCP connection for accounting packet exchange for	N/A	Boolean: • true • false	Default: false

Column name	Column description	Column type	Data type and restrictions	Remarks
	all users			
State	Status of the TACACS accounting server	N/A	Enumeration: • **0**—Active. • **1**—Block.	Default: 0

Tacacs/Statistic/AuthServers

TACACS authentication server statistics table.

XML structure

```
<Tacacs>
  <Statistic>
    <AuthServers>
      <AuthServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <ReqLogin></ReqLogin>
        <ReqChangePass></ReqChangePass>
        <ReqSendPass></ReqSendPass>
        <ReqSendAuth></ReqSendAuth>
        <Continue></Continue>
        <ContinueAbort></ContinueAbort>
        <Response></Response>
        <RespPass></RespPass>
        <RespFail></RespFail>
        <RespGetData></RespGetData>
        <RespGetUser></RespGetUser>
        <RespGetPass></RespGetPass>
        <RespRestart></RespRestart>
        <RespErr></RespErr>
        <RespFollow></RespFollow>
        <RespMalformed></RespMalformed>
        <RespUnknownType></RespUnknownType>
        <RespDropped></RespDropped>
      </AuthServer>
    </AuthServers>
  </Statistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authentication server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
LastRoundTripTime	Time interval between the most recent response	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and request packets exchanged with the TACACS authentication server			
PendingRequest	Number requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqLogin	Number of login requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqChangePass	Number of password change requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqSendPass	Number of requests containing plaintext passwords	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqSendAuth	Number of requests containing ciphertext passwords	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Continue	Number of Continue packets	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ContinueAbort	Number of Continue-Abort packets	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespPass	Number of Access-Accept messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFail	Number of Access-Reject messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetData	Number of responses for acquiring data	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetUser	Number of responses for acquiring user names	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetPass	Number of responses for acquiring	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	passwords			
RespRestart	Number of responses that require reauthentication	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of failure responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/Statistic/AuthorServers

TACACS authorization server statistics table,

XML structure

```
<Tacacs>
  <Statistic>
    <AuthorServers>
      <AuthorServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <Response></Response>
        <RespPassAdd></RespPassAdd>
        <RespPassRepl></RespPassRepl>
        <RespFail></RespFail>
        <RespErr></RespErr>
        <RespFollow></RespFollow>
        <RespMalformed></RespMalformed>
        <RespUnknownType></RespUnknownType>
        <RespDropped></RespDropped>
      </AuthorServer>
```

```
    </AuthorServers>
  </Statistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS authorization server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
	authentication server			
LastRoundTripTime	Time interval between the most recent response and request packets exchanged with the TACACS authentication server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequest	Number of requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespPassAdd	Number of received responses that include more authorization attributes than the requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespPassRepl	Number of received responses with authorization attributes that cannot replace all the authorization attributes in the requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFail	Number of failure responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of error responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/Statistic/AcctServers

TACACS accounting server statistics table.

XML structure

```
<Tacacs>
  <Statistic>
    <AcctServers>
      <AcctServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <ReqStart></ReqStart>
        <ReqStop></ReqStop>
        <ReqUpdate></ReqUpdate>
        <ReqStartAndUpdate></ReqStartAndUpdate>
        <ReqMore></ReqMore>
        <Response></Response>
        <RespSuccess></RespSuccess>
        <RespErr></RespErr>
        <RespFollow></RespFollow>
        <RespMalformed></RespMalformed>
        <RespUnknownType></RespUnknownType>
        <RespDropped></RespDropped>
      </AcctServer>
    </AcctServers>
  </Statistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	If this column is empty, the TACACS server is on the public network.
IpType	Type of the TACACS accounting server address	Index	Enumeration: • **0**—IPv4. • **1**—IPv6. • **2**—FQDN.	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents the IPv6 address of the server. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	Service port number of the TACACS accounting server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
LastRoundTripTime	Time interval between the most recent response and request packets exchanged with the TACACS accounting server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequest	Number of requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
ReqStart	Number of account-start packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqStop	Number of accounting-stop packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqUpdate	Number of accounting-update packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqStartAndUpdate	Number of accounting-start packets containing assigned values	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqMore	Number of more packets	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespSuccess	Number of success responses received	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of error responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/PasswordLimit

Requirements to meet when you configure passwords for the TACACS module.

XML structure

```
<Tacacs>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
```

```
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	PasswordLimit
Table type	Single-instance table
Row name	None

Restrictions	• The configuration takes effect on the following items:
	○ Tacacs/Schemes table
	`<AuthenKey></AuthenKey>`
	`<AuthorKey></AuthorKey>`
	`<AcctKey></AcctKey>`
	○ Tacacs/AuthServers table
	`<Key></Key>`
	○ Tacacs/AuthorServers table
	`<Key></Key>`
	○ Tacacs/AcctServers table
	`<Key></Key>`
	• Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	The minimum password length	N/A	Unsigned integer.	N/A
MaxLen	The maximum password length	N/A	Unsigned integer.	N/A
MinTypeNum	Minimum number of character types that the password must contain	N/A	Unsigned integer.	Character types include digit, uppercase letter, lowercase letter, and special character. For example, if the value is set to 3, the password string must include three or more character types.

Tacacs/Dscp

This table contains the DSCP priority configuration for TACACS packets.

XML structure

```
<Tacacs>
  <Dscp>
    <Ipv4></Ipv4>
    <Ipv6></Ipv6>
  </Dscp>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 TACACS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 TACACS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Contents

Tacacs 2
Tacacs/GlobalNasIps 2
Tacacs/Schemes 2
Tacacs/AuthServers 2
Tacacs/AuthorServers 3
Tacacs/AcctServers 3

Tacacs

Tacacs/GlobalNasIps

Message	Explanation
Maximum number of NAS-IP addresses already reached. nas-ip的数目已经达到最大值 。	Maximum number of NAS-IP addresses already reached. nas-ip的数目已经达到最大值 。
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。

Tacacs/Schemes

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The number of HWTACACS schemes has reached the maximum. TACACS方案的数目已经达到上限。	The number of HWTACACS schemes has reached the maximum. TACACS方案的数目已经达到上限。
The HWTACACS scheme does not exist. 指定的TACACS方案不存在。	The HWTACACS scheme does not exist. 指定的TACACS方案不存在。

Tacacs/AuthServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The server doesn't exist. 指定的TACACS服务器不存在。	The server doesn't exist. 指定的TACACS服务器不存在。
The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。	The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。
Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。	Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。

Tacacs/AuthorServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The server doesn't exist. 指定的TACACS服务器不存在。	The server doesn't exist. 指定的TACACS服务器不存在。
The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。	The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。
Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。	Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。

Tacacs/AcctServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The server doesn't exist. 指定的TACACS服务器不存在。	The server doesn't exist. 指定的TACACS服务器不存在。
The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。	The IP addresses of the primary and secondary servers must be different. 主服务器和备份服务器的IP地址必须不同。
Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。	Maximum number of TACACS servers already reached. TACACS服务器的数目已经达到上限。

Contents

TCB 1
TCB/PortConfigurations 1
XML structure 1
Table description 1
Columns 2
For information about the string type, see "TCB/SlotConfigurations 2
XML structure 2
Table description 4
Columns 4
TCB/SlotConfigurations 7
XML structure 7
Table description 8
Columns 8
Appendix 10

TCB

TCB/PortConfigurations

This table is used to configure the port for the TCB function.

XML structure

```
<TCB>
  <PortConfigurations>
    <PortConfiguration>
      <IfIndex></IfIndex>
      <Type></Type>
      <QueNum></QueNum>
      <IsLocalAnalysis></IsLocalAnalysis>
      <GroupIndex></GroupIndex>
      <Threshold>
        <StartThreshold></StartThreshold>
        <StopThreshold></StopThreshold>
      </Threshold>
      <Freeze>
        <FreezeNum></FreezeNum>
        <FreezeTime></FreezeTime>
      </Freeze>
      <Sample>
        <PreSampleRate></PreSampleRate>
        <PostSampleRate></PostSampleRate>
      </Sample>
      <PollFrequency></PollFrequency>
    </PortConfiguration>
  </PortConfigurations>
</TCB>
```

Table description

Item	Description
Feature name	TCB
Table name	PortConfigurations
Table type	Multi-instance table
Row name	PortConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see "TCB/Slot Configurations This table is used to configure the port for the TCB function of slot. XML structure <TCB> <SlotConfigurations> <SlotConfiguration> <Chassis></Chassis> <Slot></Slot> <CPUID></CPUID> <Type></Type>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<IsLocalAnalysis></IsLocalAnalysis> <GroupIndex></GroupIndex> <Threshold> <StartThreshold></StartThreshold> <StopThreshold></StopThreshold> </Threshold> <Freeze> <FreezeNum></FreezeNum> <FreezeTime></FreezeTime> </Freeze> <Sample> <PreSampleRate></PreSampleRate> <PostSampleRate></PostSampleRate> </Sample> <PollFrequency></PollFrequency> </SlotConfiguration> </SlotConfig

Column name	Column description	Column type	Data type and restrictions	Remarks
				urations> </TCB> Table description Item Feature name Table name Table type Row name Restrictions Support for ro Columns Column name Chassis Slot CPUID Type IsLocalAnalysis GroupIndex Threshold

Column name	Column description	Column type	Data type and restrictions	Remarks		
						StartThresh and StopThresh
					StartThreshol d	Packet sampling st when the queue lengt reaches the start thresh
					StopThreshol d	Packet sampling st when the queue lengt reaches the stop thresh
					Freeze	Specifies th the parame is relative to FreezeNum and FreezeTime
					FreezeNum	The TCB function will frozen when the number packets los reaches the FreezeNum
					FreezeTime	The TCB function will frozen when packet loss continues fo FreezeTime
					Sample	Specifies th the Sample relative to PreSample PostSample
					PreSample	Packet sampling ra when the queue lengt exceeds the start thresh value
					PostSample	Packet sampling ra when packe loss occurs
					PollFrequenc y	Event repor times per minute

Column name	Column description	Column type	Data type and restrictions	Remarks
				Appendix"
Type	Packet capture type	N/A	Enumeration: • **1**—Ingress • **2**—Egress	N/A
QueNum	Queue number for the egress type	N/A	Unsigned integer. Value range: 0 to 7.	To monitor all queues, don't fill in the QueNum value. Otherwise, fill in the specific queue number
IsLocalAnalysis	Whether local analysis or not	N/A	Boolean: • **true**—local-analysis • **false**—no-local-analysis	The default value is true
GroupIndex	ACL name or number	N/A	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it
Threshold	Specifies that the threshold is relative to StartThreshold and StopThreshold	Data structure	Members include: • StartThreshold. • StopThreshold.	N/A
StartThreshold	Packet sampling starts when the queue length reaches the start threshold	N/A	Unsigned integer. Unit: byte.	N/A
StopThreshold	Packet sampling stops when the queue length reaches the stop threshold	N/A	Unsigned integer. Unit: byte.	N/A
Freeze	Specifies that the parameter is relative to FreezeNum and FreezeTime	Data structure	Members include: • FreezeNum. • FreezeTime.	N/A
FreezeNum	The TCB function will be frozen when the number of packets lost reaches the FreezeNum	N/A	Unsigned integer.	N/A
FreezeTime	The TCB function will be	N/A	Unsigned integer. Unit: microsecond.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	frozen when packet loss continues for FreezeTime			
Sample	Specifies that the Sample is relative to PreSample and PostSample	Data structure	Members include: • PreSample. • PostSample.	N/A
PreSample	Packet sampling rate when the queue length exceeds the start threshold value	N/A	Unsigned integer. Unit: byte.	N/A
PostSample	Packet sampling rate when packets loss occurs	N/A	Unsigned integer. Unit: byte.	N/A
PollFrequency	Event report times per minute	N/A	Unsigned integer.	N/A

TCB/SlotConfigurations

This table is used to configure the port for the TCB function of slot.

XML structure

```
<TCB>
  <SlotConfigurations>
    <SlotConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <IsLocalAnalysis></IsLocalAnalysis>
      <GroupIndex></GroupIndex>
      <Threshold>
        <StartThreshold></StartThreshold>
        <StopThreshold></StopThreshold>
      </Threshold>
      <Freeze>
        <FreezeNum></FreezeNum>
        <FreezeTime></FreezeTime>
      </Freeze>
      <Sample>
        <PreSampleRate></PreSampleRate>
```

```
      <PostSampleRate></PostSampleRate>
    </Sample>
    <PollFrequency></PollFrequency>
  </SlotConfiguration>
 </SlotConfigurations>
</TCB>
```

Table description

Item	Description
Feature name	TCB
Table name	SlotConfigurations
Table type	Multi-instance table
Row name	SlotConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Type	Packet capture type	N/A	Enumeration: • **1**—Ingress • **2**—Egress	N/A
IsLocalAnalysis	Whether local analysis or not	N/A	Boolean: • **true**—local-analysis • **false**—no-local-analysis	The default value is true
GroupIndex	ACL name or number	N/A	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it
Threshold	Specifies that the threshold is relative to	Data structure	Members include: • StartThreshold. • StopThreshold.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	StartThreshold and StopThreshold			
StartThreshold	Packet sampling starts when the queue length reaches the start threshold	N/A	Unsigned integer. Unit: byte.	N/A
StopThreshold	Packet sampling stops when the queue length reaches the stop threshold	N/A	Unsigned integer. Unit: byte.	N/A
Freeze	Specifies that the parameter is relative to FreezeNum and FreezeTime	Data structure	Members include: • FreezeNum. • FreezeTime.	N/A
FreezeNum	The TCB function will be frozen when the number of packets lost reaches the FreezeNum	N/A	Unsigned integer.	N/A
FreezeTime	The TCB function will be frozen when packet loss continues for FreezeTime	N/A	Unsigned integer. Unit: microsecond.	N/A
Sample	Specifies that the Sample is relative to PreSample and PostSample	Data structure	Members include: • PreSample. • PostSample.	N/A
PreSample	Packet sampling rate when the queue length exceeds the start threshold value	N/A	Unsigned integer. Unit: byte.	N/A
PostSample	Packet sampling rate when packets loss occurs	N/A	Unsigned integer. Unit: byte.	N/A
PollFrequency	Event report times per minute	N/A	Unsigned integer.	N/A

Appendix

A string can contain multiple items that are separated by commas (,). An item can be in one of the following formats:

- *interface name*
- *interface range-name*
- *interface name A to interface name B*

When you use an item in the *interface name* format, follow these restrictions and guidelines:

- Spaces are not allowed between the interface type and interface number.

  Example:

  Correct: GigabitEthernet1/3/0/1

  Incorrect: GigabitEthernet 1/3/0/1

- If the interface name is the same as an existing interface range name, the system sends the request to interfaces in the interface range rather than the interface.

  Example:

  If you have configured the **interface range name** *Ten-Giga1/2/0/1* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1** as an item, the system sends the request to interfaces in the interface range named **Ten-Giga1/2/0/1**.

- If the interface range name is the same as an existing interface index, the system sends the request to the interface rather than interfaces in the interface range.

  Example:

  If you have configured the **interface range name** *111* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use *111* as an item, the system sends the request to the interface *GigabitEthernet1/2/0/2*.

  Note: the index of **interface** *GigabitEthernet1/2/0/2* is 111.

When you use an item in the *interface range name* format, follow these restrictions and guidelines:

- If the interface range name is in the *interface name A,interface name B* format, the system sends the request to interface A and interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1,Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1,Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 and Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

- If the interface range name is in the *interface name A* to *interface name B* format, the system sends the request to interfaces interface A through interface B rather than interfaces in the interface range.

  Example:

  After you configure the **interface range name** *Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2* **interface** *GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 through Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

When you use an item in the *interface name A to interface name B* format, follow these restrictions and guidelines:

- The interfaces before and after the word **to** must be of the same type and reside on the same card and sub-card.
- If the interfaces are subinterfaces, they must also belong to the same main interface.
- The end interface number must be larger than the start interface number.

Example:

Incorrect:

Ten2/0/1 to Ten3/0/2 The start and end interfaces reside on different cards.

Ten2/0/1 to Ten2/1/2 The start and end interfaces reside on different sub-cards.

Ten2/0/1 to Ten2/0/1:3 The start and end interfaces are of different types.

Giga2/0/1 to Ten2/0/25 The start and end interfaces are of different types.

Ten2/0/3:1 to Ten2/0/4:2 The start and end subinterfaces belong to different main interfaces.

Ten2/0/3:4 to Ten2/0/3:1 The start interface number is larger than the end interface number.

Correct:

Ten2/0/1 to Ten2/0/5

Ten2/0/1:1 to Ten2/0/1:100

Contents

TCB 1
TCB/PortConfigurations 1
XML structure 1
Table description 1
Columns 2
TCB/SlotConfigurations 3
XML structure 3
Table description 4
Columns 4

TCB

TCB/PortConfigurations

This table is used to get the configuration data for the TCB function.

XML structure

```
<TCB>
  <PortConfigurations>
    <PortConfiguration>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Type></Type>
      <QueNum></QueNum>
      <IsLocalAnalysis></IsLocalAnalysis>
      <GroupIndex></GroupIndex>
      <Threshold>
        <StartThreshold></StartThreshold>
        <StopThreshold></StopThreshold>
      </Threshold>
      <Freeze>
        <FreezeNum></FreezeNum>
        <FreezeTime></FreezeTime>
      </Freeze>
      <Sample>
        <PreSampleRate></PreSampleRate>
        <PostSampleRate></PostSampleRate>
      </Sample>
      <PollFrequency></PollFrequency>
    </PortConfiguration>
  </PortConfigurations>
</TCB>
```

Table description

Item	Description
Feature name	TCB
Table name	PortConfigurations
Table type	Multi-instance table
Row name	PortConfiguration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Type	Packet capture type	N/A	Enumeration: • **1**—Ingress • **2**—Egress	N/A
QueNum	Queue number for the egress type	N/A	Unsigned integer. Value range: 0 to 7.	To monitor all queues, don’t fill in the QueNum value. Otherwise, fill in the specific queue number.
IsLocalAnalysis	Whether local analysis or not	N/A	Boolean: • **true**—local-analysis • **false**—no-local-analysis	N/A
GroupIndex	ACL name or number	N/A	String. Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	The GroupIndex cannot be specified as an ACL name in GET operations for an ACL created by specifying both a number and a name. The value range are 3000 to 3999.
Threshold	Specifies that the threshold is relative to StartThreshold and StopThreshold	Data structure	Members include: • StartThreshold. • StopThreshold.	N/A
StartThreshold	Packet sampling starts when the queue length reaches the start threshold	N/A	Unsigned integer. Unit: byte.	N/A
StopThreshold	Packet sampling stops when the queue length reaches the stop threshold	N/A	Unsigned integer. Unit: byte.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Freeze	Specifies that the parameter is relative to FreezeNum and FreezeTime	Data structure	Members include: • FreezeNum. • FreezeTime.	N/A
FreezeNum	The TCB function will be frozen when the number of packets lost reaches the FreezeNum	N/A	Unsigned integer.	N/A
FreezeTime	The TCB function will be frozen when packet loss continues for FreezeTime	N/A	Unsigned integer. Unit: microsecond.	N/A
Sample	Specifies that the Sample is relative to PreSample and PostSample	Data structure	Members include: • PreSample. • PostSample.	N/A
PreSample	Packet sampling rate when the queue length exceeds the start threshold value	N/A	Unsigned integer. Unit: byte.	N/A
PostSample	Packet sampling rate when packets loss occurs	N/A	Unsigned integer. Unit: byte.	N/A
PollFrequency	Event report times per minute	N/A	Unsigned integer.	N/A

TCB/SlotConfigurations

This table is used to get the configuration data for the TCB function of slot.

XML structure

```
<TCB>
  <SlotConfigurations>
    <SlotConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
```

```
      <Type></Type>
      <IsLocalAnalysis></IsLocalAnalysis>
      <GroupIndex></GroupIndex>
      <Threshold>
        <StartThreshold></StartThreshold>
        <StopThreshold></StopThreshold>
      </Threshold>
      <Freeze>
        <FreezeNum></FreezeNum>
        <FreezeTime></FreezeTime>
      </Freeze>
      <Sample>
        <PreSampleRate></PreSampleRate>
        <PostSampleRate></PostSampleRate>
      </Sample>
      <PollFrequency></PollFrequency>
    </SlotConfiguration>
  </SlotConfigurations>
</TCB>
```

Table description

Item	Description
Feature name	TCB
Table name	SlotConfigurations
Table type	Multi-instance table
Row name	SlotConfiguration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. • Value range: 0 to 65535.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. • Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. • Value range: 0 to 7.	N/A
Type	Packet capture type	N/A	Enumeration: • **1**—Ingress • **2**—Egress	N/A
IsLocalAnalys	Whether local	N/A	Boolean:	The default value is true

Column name	Column description	Column type	Data type and restrictions	Remarks
is	analysis or not		• **true**—local-analysis • **false**—no-local-analysis	
GroupIndex	ACL name or number	N/A	• String. • Length: 1 to 63 characters. • **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it
Threshold	Specifies that the threshold is relative to StartThreshold and StopThreshold	Data structure	Members include: • StartThreshold. • StopThreshold.	N/A
StartThreshold	Packet sampling starts when the queue length reaches the start threshold	N/A	Unsigned integer. Unit: byte.	N/A
StopThreshold	Packet sampling stops when the queue length reaches the stop threshold	N/A	Unsigned integer. Unit: byte.	N/A
Freeze	Specifies that the parameter is relative to FreezeNum and FreezeTime	Data structure	Members include: • FreezeNum. • FreezeTime.	N/A
FreezeNum	The TCB function will be frozen when the number of packets lost reaches the FreezeNum	N/A	Unsigned integer.	N/A
FreezeTime	The TCB function will be frozen when packet loss continues for FreezeTime	N/A	Unsigned integer. Unit: microsecond.	N/A
Sample	Specifies that the Sample is relative to PreSample and PostSample	Data structure	Members include: • PreSample. • PostSample.	N/A
PreSample	Packet	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sampling rate when the queue length exceeds the start threshold value		Unit: byte.	
PostSample	Packet sampling rate when packets loss occurs	N/A	Unsigned integer. Unit: byte.	N/A
PollFrequency	Event report times per minute	N/A	Unsigned integer.	N/A

Contents

TCB event stream 1
TCBPacketInfoEvent event 1
XML structure for event subscription 1
XML structure for event report 2
TCBRawPacketInfoEvent event 5
XML structure for event subscription 5
XML structure for event report 5

TCB event stream

TCB stream description.

TCBPacketInfoEvent event

This event is used to report packet loss information.

XML structure for event subscription

```
<TCBPacketInfoEvent>
  <TCBPacketInfo>
    <IfName></IfName>
  </TCBPacketInfo>
</TCBPacketInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TCB</stream>
    <filter type="subtree">
      <TCBPacketInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/TCB:1.0">
        <TCBPacketInfo>
          <IfName>GigabitEthernet2/0/2</IfName>
        </TCBPacketInfo>
      </TCBPacketInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TCB
Event name	TCBPacketInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/TCB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Interface Name	Interface name	String. Length: 2 to 47 characters. Example:	No

Column name	Column description	Data type and restrictions	Support for extended queries
		GigabitEthernet2/0/2	

XML structure for event report

```
<TCBPacketInfoEvent>
  <TCBPacketInfo>
    <Global>
      <IfName></IfName>
      <Type></Type>
      <QueNum></QueNum>
      <TupleFilterType></TupleFilterType>
      <InterruptType></InterruptType>
      <TupleTypeCount></TupleTypeCount>
    </Global>
    <TCBData>
      <StartTimeStamp></StartTimeStamp>
      <TupleID></TupleID>
      <DropReason></DropReason>
      <ProtocolNo></ProtocolNo>
      <SourcePort></SourcePort>
      <DestPort></DestPort>
      <SourceIP></SourceIP>
      <DestIP></DestIP>
      <DropCount></DropCount>
      <SourceQP></SourceQP>
      <DestQP></DestQP>
      <OPCode></OPCode>
      <ProtocolMask></ProtocolMask>
    </TCBData>
  </TCBPacketInfo>
</TCBPacketInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TCBPacketInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/TCB:1.0">
    <TCBPacketInfo>
      <Global>
        <IfName>GigabitEthernet2/0/2</IfName>
        <Type>2</Type>
        <QueNum>0</QueNum>
        <TupleFilterType>1</TupleFilterType>
        <InterruptType>1</InterruptType>
        <TupleTypeCount>1</TupleTypeCount>
      </Global>
```

```
      <TCBData>
        <StartTimeStamp>2019-03-18 10:00:00</StartTimeStamp>
        <TupleID>1</TupleID>
        <DropReason>2</DropReason>
        <ProtocolNo>17</ProtocolNo>
        <SourcePort>50559</SourcePort>
        <DestPort>8986</DestPort>
        <SourceIP>10.25.36.3</SourceIP>
        <DestIP>10.58.56.17</DestIP>
        <DropCount>1</DropCount>
        <SourceQP>1</SourceQP>
        <DestQP>0</DestQP>
        <OPCode>3</OPCode>
        <ProtocolMask>1</ProtocolMask>
      </TCBData>
    </TCBPacketInfo>
  </TCBPacketInfoEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
Global	Global data	Members include: • IfName • Type • QueNum • TupleFilterType • InterruptType • TupleTypeCount	N/A
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Type	Packet capture type	Enumeration: • **1**—Ingress • **2**—Egress	N/A
QueNum	Queue number for the egress type	Unsigned integer. Value range: 0 to 7.	N/A
TupleFilterTyp e	Whether tuples are filtered	Boolean • **0**—False • **1**—True	N/A
InterruptType	Interrupt type	Enumeration: • **0**—Packet interrupt • **1**—Hardware timer interrupt • **2**—Software timer interrupt	N/A
TupleTypeCo	Count of quintuple types	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
unt	in the TCBData group		
TCBData	TCB data	Members include: • StartTimeStamp • TupleID • DropReason • ProtocolNo • SourcePort • DestPort • SourceIP • DestIP • DropCount	N/A
StartTimeStamp	Timestamp of the lost packet Format: IEEE1588V1	Unsigned integer.	N/A
TupleID	Tuple ID	Unsigned integer.	N/A
DropReason	Packet loss reason. DropReason represented by digits	Each bit represents a drop reason as follows: 1- Ingress admission drop 2- Egress admission drop 4- Weighted random drop 8- Cell free allocations pool drop	N/A
ProtocolNo	Protocol number	Unsigned integer.	N/A
SourcePort	Source port of the lost packet	Unsigned integer.	N/A
DestPort	Destination port of the lost packet	Unsigned integer.	N/A
SourceIP	Source IP of the lost packet	IPv4: String, dotted decimal notation.	N/A
DestIP	Destination IP of the lost packet	IPv4: String, dotted decimal notation.	N/A
DropCount	Count of packets lost	Unsigned integer.	N/A
SourceQP	Source queue pair of the lost packet for RDMA	Unsigned integer.	N/A
DestQP	Destination queue pair of the lost packet for RDMA	Unsigned integer.	N/A
OPCode	Operation type of the lost packet for RDMA	Unsigned integer. Value range: **0 to 255**	N/A
ProtocolMask	Protocol mask	Unsigned integer. Value: • 0—The SourceQP is invalid for RDMA • 1—The SourceQP is valid for RDMA	N/A

TCBRawPacketInfoEvent event

This event is used to report raw packet loss information.

XML structure for event subscription

```
<TCBRawPacketInfoEvent>
  <TCBRawPacketInfo>
    <IfName></IfName>
  </TCBRawPacketInfo>
</TCBRawPacketInfoEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TCB</stream>
    <filter type="subtree">
      <TCBRawPacketInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/TCB:1.0">
        <TCBRawPacketInfo>
          <IfName>GigabitEthernet2/0/2</IfName>
        </TCBRawPacketInfo>
      </TCBRawPacketInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TCB
Event name	TCBRawPacketInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/TCB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Interface Name	Interface name	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	No

XML structure for event report

```
<TCBRawPacketInfoEvent>
```

```
  <TCBRawPacketInfo>
    <IfName></IfName>
    <Type></Type>
    <QueNum></QueNum>
    <TupleFilterType></TupleFilterType>
    <InterruptType></InterruptType>
    <TupleTypeCount></TupleTypeCount>
    <TCBBufCount></TCBBufCount>
    <TCBBufData></TCBBufData>
    <TCBDropCount></TCBDropCount>
    <EventBufData></EventBufData>
  </TCBRawPacketInfo>
</TCBRawPacketInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TCBRawPacketInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/TCB:1.0">
    <TCBRawPacketInfo>
      <IfName>GigabitEthernet2/0/2</IfName>
      <Type>2</Type>
      <QueNum>0</QueNum>
      <TupleFilterType>0</TupleFilterType>
      <InterruptType>1</InterruptType>
      <TupleTypeCount>1</TupleTypeCount>
      <TCBBufCount>2</TCBBufCount>
      <TCBBufData>00000001010200000001010108004500006ea0ff0000fffd983ac0550102c0000001
       00000000000000000000000000000000000000000000000000000000000000000000000000000000
       00000101020000000101010800450000 6ea0ff0000fffd983ac0550102c00000010000000000000
       00000000000000000000000000000000000000000000000000000000000000000000000000000000
       00000000000000000000000000000000000000000000000000000000000000000000000000000000
       00000000000000000000000000000000000000000000</TCBBufData>
      <TCBDropCount>1</TCBDropCount>
      <EventBufData>00000001010200000001010108004500006ea0ff0000fffd983ac0550102c00000010000
</EventBufData>
    </TCBRawPacketInfo>
  </TCBRawPacketInfoEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
IfName	Full name of an interface	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A
Type	Packet capture type	Enumeration: • **1**—Ingress	N/A

Column name	Column description	Data type and restrictions	Remarks
		• **2**—Egress	
QueNum	Queue number for the egress type	Unsigned integer. Value range: 0 to 7.	N/A
TupleFilterType	Whether tuples are filtered	Boolean • **0**—False • **1**—True	N/A
InterruptType	Interrupt type	Enumeration: • **0**—Packet interrupt • **1**—Hardware timer interrupt • **2**—Software timer interrupt	N/A
TupleTypeCount	Count of quintuple types in TCBData	Unsigned integer.	N/A
TCBBufCount	Count of packets in the TCB buffer	Unsigned integer.	N/A
TCBBufData	Buffer data, which contain 1024 TCB raw data units from the TCB buffer and only have TCB info of the specified quintuples after being filtered	String. Length: 0 to 216*TCBBufCount characters.	N/A
TCBDropCount	Count of packets in Event Buffer (count of packets lost)	Unsigned integer.	N/A
EventBufData	Raw data, which contain 1024 event data units in Event Buffer and only have Event Buffer info of the specified quintuples after being filtered	String. Length: 0 to 72*TCBDropCount characters.	N/A

Contents

TE 1

TE/Base 1
- XML structure 1
- Table description 1
- Columns 1

TE/Interfaces 1
- XML structure 1
- Table description 2
- Columns 2

TE/Tunnels 3
- XML structure 3
- Table description 4
- Columns 4

TE/TunnelBundles 7
- XML structure 7
- Table description 8
- Columns 8

TE/TunnelBundleMembers 8
- XML structure 8
- Table description 9
- Columns 9

TE/Tunnels/Tunnel/PrimaryPaths 9
- XML structure 9
- Table description 10
- Columns 10

TE/Tunnels/Tunnel/SecondaryPaths 10
- XML structure 10
- Table description 11
- Columns 11

TE/ExplicitPaths 11
- XML structure 11
- Table description 11
- Columns 12

TE/ExplicitPaths/ExplicitPath/ExplicitPathHops 12
- XML structure 12
- Table description 12
- Columns 13

TE/BidirectionalReverseLsps 13
- XML structure 13
- Table description 13
- Columns 14

TE/Tunnels/Tunnel/TunnelPaths 14
- XML structure 14
- Table description 14
- Columns 15

TE

TE/Base

This table contains TE Base information.

XML structure

```
<TE>
  <Base>
     <Enable></Enable>
     <MplsBfdTriggerDown></MplsBfdTriggerDown>
  </Base>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable mpls te.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
MplsBfdTriggerDown	BFD failure triggers the MPLS TE tunnel to be down	N/A	Boolean: • **false**—Disabled. • **true**—Enabled(default).	This column must be configured after column Enable

TE/Interfaces

This table contains TE Interfaces information.

XML structure

```
<TE>
  <Interfaces>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <Metric></Metric>
      <MaxLinkBandwidth></MaxLinkBandwidth>
      <LinkAttribute></LinkAttribute>
      <MaxResvBandwidth></MaxResvBandwidth>
    </Interface>
  </Interfaces>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only when MPLS TE service is starting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Enable	Enable mpls te.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
Metric	Metric of the interface	N/A	Unsigned integer. The range is 1 to 4294967295.	N/A
MaxLinkBandwidth	Maximum link bandwidth for MPLS TE traffic	N/A	Unsigned integer. The range is 1 to 4294967295.	N/A
LinkAttribute	A 32-bit vector representing a default of attribute filters	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically

Column name	Column description	Column type	Data type and restrictions	Remarks
	associated with an interface, all of which must be present for a link to be acceptable			passes.
MaxResvBandwidth	Maximum reservable bandwidth for MPLS TE traffic	N/A	Unsigned integer. The range is 1 to 4294967295.	N/A

TE/Tunnels

This table contains TE Tunnel information.

XML structure

```
<TE>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <SignalingType></SignalingType>
      <SignaledName></SignaledName>
      <SRLspName></SRLspName>
      <BackupSRLspName></BackupSRLspName>
      <ServiceClass></ServiceClass>
      <SetupPriority></SetupPriority>
      <HoldPriority></HoldPriority>
      <IGPShortcut></IGPShortcut>
      <IGPShortcutIPv6></IGPShortcutIPv6>
      <IGPAdvertise></IGPAdvertise>
      <IGPAdvertiseHoldTime></IGPAdvertiseHoldTime>
      <IGPAdvertiseIPv6></IGPAdvertiseIPv6>
      <PCEDelegation></PCEDelegation>
      <PCEReportOnly></PCEReportOnly>
      <RecordRoute></RecordRoute>
      <Bandwidth></Bandwidth>
      <CTType></CTType>
      <HotStandbyEnable></HotStandbyEnable>
      <HotStandbyWtr></HotStandbyWtr>
      <PrimaryPaths></PrimaryPaths>
      <SecondaryPaths></SecondaryPaths>
      <Statistic></Statistic>
      <ServiceClassStatistic></ServiceClassStatistic>
      <BindingSID></BindingSID>
      <ResvForBinding></ResvForBinding>
      <IGPMetricType></IGPMetricType>
      <AbsoluteIGPMetricValue></AbsoluteIGPMetricValue>
```

```
      <RelativeIGPMetricValue></RelativeIGPMetricValue>
      <ForceForwarding></ForceForwarding>
      <LspTpOutbound></LspTpOutbound>
      <MplsBfdTriggerDown></MplsBfdTriggerDown>
      <TunnelPaths></TunnelPaths>
    </Tunnel>
  </Tunnels>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
SignalingType	The signaling protocol for an MPLS TE tunnel interface.	N/A	Enumeration: • 0—STATIC. • 1—RSVP-TE(default). • 2—SEGMENT-ROUTING	N/A
SignaledName	The signaled name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 63 characters.	Case-sensitive
SRLspName	The static SRLSP name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 15 characters.	Case-sensitive
BackupSRLspName	The static Backup SRLSP name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 15 characters.	Case-sensitive
ServiceClass	The service class for an MPLS TE tunnel	N/A	Unsigned integer. The value range varies by device model.	When service class no set, get all statistics of the

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface.			TE tunnel. Service class 255 means the lowest priority class, also the default class of the TE tunnel.
SetupPriority	The setup priority for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to 7.	Setup priority can't be higher than holding priority.
HoldPriority	The holding priority for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to 7.	N/A
IGPShortcut	IGP that uses the MPLS TE tunnel in its enhanced SPF calculation.	N/A	Enumeration: • 0—ALL • 1—OSPF • 2—ISIS	N/A
IGPShortcutIPv6	Announce the tunnel for IPv6 routing	N/A	Boolean: • true. false (default).	IGPShortcut must be configured
IGPAdvertise	Use IGP to advertise the MPLS TE tunnel to IGP neighbors	N/A	Boolean: • true. false (default).	N/A
IGPAdvertiseHoldTime	Specify the time the IGP waits before notifying the down event of the TE tunnel	N/A	Unsigned integer. The range is 0 to 4294967295 ms.	IGPAdvertise must be configured
IGPAdvertiseIPv6	Announce the tunnel as an IPv6 FA	N/A	Boolean: • true. false (default).	IGPAdvertise must be configured
PCEDelegation	Enable delegation for an MPLS TE tunnel.	N/A	Boolean: • true. • false (default).	N/A
PCEReportOnly	Enable passive-delegate report-only for an MPLS TE tunnel.	N/A	Boolean: • true. • false (default).	N/A
RecordRoute	Enable record route for an MPLS TE tunnel.	N/A	Enumeration: • 0—NONE(default) • 1—RECORDROUTE • 2—RECORDROUTELAB	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			EL •	
Bandwidth	The bandwidth for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 1 to 4294967295 kbps.	N/A
CTType	The class type for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to 7. Default: 0	A class type must be created with the bandwidth.
HotStandbyEnable	Enable hot-standby backup for the SR-TE tunnel	N/A	Boolean: • true. • false (default).	N/A
HotStandbyWtr	Wait-to-Restore time for MPLS TE tunnel hot-standby backup.	N/A	Unsigned integer. The range is 0 to 2592000. Default:10.	HotStandby must be enabled.
PrimaryPaths	The primary paths for an MPLS TE tunnel interface.	Sublist	N/A	N/A
SecondaryPaths	The secondary paths for an MPLS TE tunnel interface.	Sublist	N/A	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
ServiceClassStatistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
BindingSID	Binding segment ID for the TE tunnel.	N/A	Unsigned integer. The value range is 16 to 1048575.	N/A
ResvForBinding	Reserve the TE tunnel only for tunnel-destination IP binding.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
IGPMetricType	IGP MetricType for TE tunnel.	N/A	Enumeration: • 1—Relative • 2—Absolute(default)	The type can be changed only when the value ranges from 1 to 10.

Column name	Column description	Column type	Data type and restrictions	Remarks
RelativeIGPMetricValue	Value of Relative IGP Metric.	N/A	Integer. The range is -10 to 10. Default:0.	Absolute and relative can not be configured at the same time.
AbsoluteIGPMetricValue	Value of Absolute IGP Metric.	N/A	Unsigned integer. The range is 1 to 65535.	Absolute and relative can not be configured at the same time.
ForceForwarding	Forced forwarding of traffic by using the TE tunnel.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
LspTpOutbound	Enable LSP traffic policy in outbound direction.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
MplsBfdTriggerDown	BFD failure triggers the MPLS TE tunnel to be down	N/A	Enumeration: • 1—Enable • 2—Disable	The priority is higher than global configuration.
TunnelPaths	Paths configured for the MPLS TE tunnel interface	Sublist	N/A	N/A

TE/TunnelBundles

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundles>
    <TunnelBundle>
      <BundleID></BundleID>
      <ProtType></ProtType>
      <DstAddr></DstAddr>
    </TunnelBundle>
  </TunnelBundles>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundles
Table type	Multi-instance table
Row name	TunnelBundle
Restrictions	NA
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
ProtType	Tunnel protection switching mode.	N/A	Enumeration: • 0—balance(default). • 1—onetoone protection. • 2—oneplusone protection.	N/A
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

TE/TunnelBundleMembers

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundleMembers>
    <TunnelBundleMember>
      <BundleID></BundleID>
      <TunnelID></TunnelID>
      <Membership></Membership>
      <LoadShare></LoadShare>
    </TunnelBundleMember>
  </TunnelBundleMembers>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleMembers
Table type	Multi-instance table
Row name	TunnelBundleMember
Restrictions	The member must be MPLS TE tunnel interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Membership	The Protection Type of Member interface	N/A	Enumeration: • 0—primary member interface(default). • 1—backup member interface.	N/A
LoadShare	The weight for a member tunnel interface.	N/A	Unsigned integer. The range is 1 to 65535.	N/A

TE/Tunnels/Tunnel/PrimaryPaths

This table contains primary paths settings for TE tunnels. The table is a sublist of the TE Tunnels table.

XML structure

```
<PrimaryPaths>
  <PrimaryPath>
    <Preference></Preference>
    <ExplicitPathName></ExplicitPathName>
    <Dynamic></Dynamic>
    <Nocspf></Nocspf>
  </PrimaryPath>
</PrimaryPaths>
```

Table description

Item	Description
Feature name	TE
Table name	PrimaryPaths
Table type	Multi-instance table
Row name	PrimaryPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Preference of the path	index	Unsigned integer. The value range is 1 to 10.	N/A
ExplicitPathName	Name of an explicit path	N/A	String. Length: 1 to 31 characters.	N/A
Dynamic	Dynamically calculated path	N/A	Boolean: • true • false(default)	N/A
`Nocspf`	Disable CSPF calculation	N/A	Boolean: • true • false(default)	N/A

TE/Tunnels/Tunnel/SecondaryPaths

This table contains secondary paths settings for TE tunnels. The table is a sublist of the TE Tunnels table.

XML structure

```
<SecondaryPaths>
  <SecondaryPath>
    <Preference></Preference>
    <ExplicitPathName></ExplicitPathName>
    <Dynamic></Dynamic>
    <Nocspf></Nocspf>
  </SecondaryPath>
</SecondaryPaths>
```

Table description

Item	Description
Feature name	TE
Table name	SecondaryPaths
Table type	Multi-instance table
Row name	SecondaryPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Preference of the path	index	Unsigned integer. The value range is 1 to 10.	N/A
ExplicitPathName	Name of an explicit path	N/A	String. Length: 1 to 31 characters.	N/A
Dynamic	Dynamically calculated path	N/A	Boolean: • true • false(default)	N/A
`Nocspf`	Disable CSPF calculation	N/A	Boolean: • true false(default)	N/A

TE/ExplicitPaths

This table contains explicit paths settings.

XML structure

```
<TE>
  <ExplicitPaths>
    <ExplicitPath>
      <ExplicitPathName></ExplicitPathName>
      <ExplicitPathHops></ExplicitPathHops>
    </ExplicitPath>
  </ExplicitPaths>
</TE>
```

Table description

Item	Description
Feature name	TE

Item	Description
Table name	ExplicitPaths
Table type	Multi-instance table
Row name	ExplicitPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExplicitPathName	Name of an explicit path	index	String. Length: 1 to 31 characters.	N/A
ExplicitPathHops	Nodes of an explicit path	sublist	N/A	N/A

TE/ExplicitPaths/ExplicitPath/ExplicitPathHops

This table contains explicit path node settings for TE tunnels. The table is a sublist of the TE ExplicitPaths table.

XML structure

```
<ExplicitPathHops>
  <ExplicitPathHop>
    <HopIndex></HopIndex>
    <HopIpAddr></HopIpAddr>
    <HopType></HopType>
    <HopIntType></HopIntType>
    <NextSID></NextSID>
    <NextSIDType></NextSIDType>
  </ExplicitPathHop>
</ExplicitPathHops>
```

Table description

Item	Description
Feature name	TE
Table name	ExplicitPathHops
Table type	Multi-instance table
Row name	ExplicitPathHop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HopIndex	Index for the node in the explicit path	index	Unsigned integer. The value range is 1 to 65535.	N/A
HopIpAddr	IP address of the node	N/A	String, dotted decimal notation.	N/A
HopType	Type of the node	N/A	Enumeration: • 0—include strict (default) • 1—include loose • 2—exclude	N/A
HopIntType	Direction of the next interface IP	N/A	Enumeration: • 0—none (default) • 1—incoming • 2—outgoing	N/A
NextSID	Segment ID for the node in the explicit path	N/A	Unsigned integer. The value range is 0, 3, 16 to 1048575.	N/A
NextSIDType	Type of the segment ID node	N/A	Enumeration: • 1—Adjacency • 2—Prefix • 3—Binding-SID	N/A

TE/BidirectionalReverseLsps

This table contains information about TE Bidirectional reverse-lsps settings.

XML structure

```
<TE>
  <BidirectionalReverseLsps>
    <BidirectionalReverseLsp>
      <TunnelID></TunnelID>
      <ReverseBindingSID></ReverseBindingSID>
    </BidirectionalReverseLsp>
  </BidirectionalReverseLsps>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	BidirectionalReverseLsps
Table type	Multi-instance table

Item	Description
Row name	BidirectionalReverseLsp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
ReverseBindingSID	Reverse LSP segment ID for TE tunnel.	N/A	Unsigned integer. 16 to 1048575	N/A

TE/Tunnels/Tunnel/TunnelPaths

This table contains path configuration of a tunnel. The table is a sublist of the TE Tunnels table.

XML structure

```
<TunnelPaths>
  <TunnelPath>
    <PathType></PathType>
     <ExcludeAffinity></ExcludeAffinity>
     <IncludeAffinityAny></IncludeAffinityAny>
     <IncludeAffinityAll></IncludeAffinityAll>
     <HopLimit></HopLimit>
  </TunnelPath>
</TunnelPaths>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelPaths
Table type	Multi-instance table
Row name	TunnelPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathType	Role of a tunnel path	index	Enumeration: • 0—Primary LSP. • 1—Secondary LSP.	N/A
ExcludeAffinity	A 32-bit vector representing a set of attribute filters associated with a tunnel, any of which renders a link unacceptable	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically passes .
IncludeAffinityAny	A 32-bit vector representing a set of attribute filters associated with a tunnel, any of which renders a link acceptable	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically passes.
IncludeAffinityAll	A 32-bit vector representing a set of attribute filters associated with a tunnel, all of which must be present for a link to be acceptable	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically passes.
HopLimit	Hop limit for the TE LSP	N/A	Unsigned integer. The value range is 1 to 32.	N/A

Contents

TE 1

TE/Base 1
- XML structure 1
- Table description 1
- Columns 1

TE/Interfaces 1
- XML structure 1
- Table description 2
- Columns 2

TE/Tunnels 3
- XML structure 3
- Table description 4
- Columns 4

TE/TunnelBundleCapabilities 7
- XML structure 7
- Table description 8
- Columns 8

TE/TunnelBundles 8
- XML structure 8
- Table description 9
- Columns 9

TE/TunnelBundleMembers 9
- XML structure 9
- Table description 10
- Columns 10

TE/Tunnels/Tunnel/PrimaryPaths 10
- XML structure 10
- Table description 10
- Columns 11

TE/Tunnels/Tunnel/SecondaryPaths 11
- XML structure 11
- Table description 11
- Columns 12

TE/ExplicitPaths 12
- XML structure 12
- Table description 12
- Columns 13

TE/ExplicitPaths/ExplicitPath/ExplicitPathHops 13
- XML structure 13
- Table description 13
- Columns 13

TE/BidirectionalReverseLsps 14
- XML structure 14
- Table description 14
- Columns 15

TE/Tunnels/Tunnel/TunnelPaths 15
- XML structure 15
- Table description 15
- Columns 15

TE

TE/Base

This table contains TE Base information.

XML structure

```
<TE>
  <Base>
      <Enable></Enable>
      <MplsBfdTriggerDown></MplsBfdTriggerDown>
  </Base>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable mpls te.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
MplsBfdTriggerDown	BFD failure triggers the MPLS TE tunnel to be down	N/A	Boolean: • **false**—Disabled. • **true**—Enabled.	N/A

TE/Interfaces

This table contains TE interface information.

XML structure

```
<TE>
```

```
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Enable></Enable>
      <Metric></Metric>
      <MaxLinkBandwidth></MaxLinkBandwidth>
      <LinkAttribute></LinkAttribute>
      <MaxResvBandwidth></MaxResvBandwidth>
    </Interface>
  </Interfaces>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Enable	Enabling status of TE for the interface	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
Metric	Metric of the interface	N/A	Unsigned integer. The range is 1 to 4294967295.	N/A
MaxLinkBand	Maximum link	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
width	bandwidth for MPLS TE traffic		The range is 1 to 4294967295.	
LinkAttribute	A 32-bit vector representing a default of attribute filters associated with an interface, all of which must be present for a link to be acceptable	N/A	HexBinary. The range is 0 to 8	A null set (all bits set to zero) automatically passes.
MaxResvBandwidth	Maximum reservable bandwidth for MPLS TE traffic	N/A	Unsigned integer. The range is 1 to 4294967295.	N/A

TE/Tunnels

This table contains TE Tunnel information.

XML structure

```
<TE>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <SignalingType></SignalingType>
      <SignaledName></SignaledName>
      <SRLspName></SRLspName>
      <BackupSRLspName></BackupSRLspName>
      <ServiceClass></ServiceClass>
      <SetupPriority></SetupPriority>
      <HoldPriority></HoldPriority>
      <IGPShortcut></IGPShortcut>
      <IGPShortcutIPv6></IGPShortcutIPv6>
      <IGPAdvertise></IGPAdvertise>
      <IGPAdvertiseHoldTime></IGPAdvertiseHoldTime>
      <IGPAdvertiseIPv6></IGPAdvertiseIPv6>
      <PCEDelegation></PCEDelegation>
      <PCEReportOnly></PCEReportOnly >
      <RecordRoute></RecordRoute>
      <Bandwidth></Bandwidth>
      <CTType></CTType>
      <HotStandbyEnable></HotStandbyEnable>
      <HotStandbyWtr></HotStandbyWtr>
      <PrimaryPaths></PrimaryPaths>
      <SecondaryPaths></SecondaryPaths>
      <Statistic></Statistic>
```

```
      <ServiceClassStatistic></ServiceClassStatistic>
      <BindingSID></BindingSID>
      <ResvForBinding></ResvForBinding>
      <IGPMetricType></IGPMetricType>
      <AbsoluteIGPMetricValue></AbsoluteIGPMetricValue>
      <RelativeIGPMetricValue></RelativeIGPMetricValue>
      <SRLspState></SRLspState>
      <BackupSRLspState></BackupSRLspState>
      <ForceForwarding></ForceForwarding>
      <LspTpOutbound></LspTpOutbound>
      <MplsBfdTriggerDown></MplsBfdTriggerDown>
      <TunnelPaths></TunnelPaths>
    </Tunnel>
  </Tunnels>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	Applicable to only MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
SignalingType	The signaling protocol for an MPLS TE tunnel interface.	N/A	Enumeration: • 0—STATIC. • 1—RSVP-TE(default). • 2—SEGMENT-ROUTING	N/A
SignaledName	The signaled name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 63 characters.	Case-sensitive
SRLspName	The static SRLSP name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 15 characters.	Case-sensitive
BackupSRLspName	The static Backup SRLSP name	N/A	String. Length: 1 to 15 characters.	Case-sensitive

Column name	Column description	Column type	Data type and restrictions	Remarks
	for an MPLS TE tunnel interface.			
ServiceClass	The service class for an MPLS TE tunnel interface.	N/A	Unsigned integer. The value range varies by device model.	When service class no set, get all statistics of the TE tunnel. Service class 255 means the lowest priority class, also the default class of the TE tunnel.
IGPShortcut	IGP that uses the MPLS TE tunnel in its enhanced SPF calculation.	N/A	Enumeration: • 0—ALL • 1—OSPF • 2—ISIS	N/A
IGPShortcutIPv6	Announce the tunnel for IPv6 routing	N/A	Boolean: • true. • false.	IGPShortcut must be configured
IGPAdvertise	Use IGP to advertise the MPLS TE tunnel to IGP neighbors	N/A	Boolean: • true. • false.	N/A
IGPAdvertiseHoldTime	Specify the time the IGP waits before notifying the down event of the TE tunnel	N/A	Unsigned integer. The range is 0 to 4294967295 ms.	IGPAdvertise must be configured
IGPAdvertiseIPv6	Announce the tunnel as an IPv6 FA		Boolean: • true. • false.	IGPAdvertise must be configured
SetupPriority	The setup priority for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to7.	N/A
HoldPriority	The holding priority for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to7.	N/A
PCEDelegation	Enable delegation for an MPLS TE tunnel.	N/A	Boolean: • **true.** • **false.**	N/A
PCEReportOnly	Enable passive-delegate report-only	N/A	Boolean: • **true.** • **false.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for an MPLS TE tunnel			
RecordRoute	Enable record route for an MPLS TE tunnel.	N/A	Enumeration: • 0—NONE • 1—RECORDROUTE • 2—RECORDROUTELABEL	N/A
Bandwidth	The bandwidth for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 1 to 4294967295 kbps.	N/A
CTType	The class type for an MPLS TE tunnel interface.	N/A	Unsigned integer. The range is 0 to 7. Default: 0	N/A
HotStandbyEnable	Enable hot-standby backup for the SR-TE tunnel	N/A	Boolean: • **true.** • **false.**	N/A
HotStandbyWtr	Wait-to-Restore time for MPLS TE tunnel hot-standby backup.	N/A	Unsigned integer. The range is 0 to 2592000. Default:10.	HotStandby must be enabled.
PrimaryPaths	The primary paths for an MPLS TE tunnel interface.	Sublist	N/A	N/A
SecondaryPaths	The secondary paths for an MPLS TE tunnel interface.	Sublist	N/A	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
ServiceClassStatistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
BindingSID	Binding segment ID for the TE tunnel.	N/A	Unsigned integer. The value range varies by device model.	N/A
ResvForBinding	Reserve the TE tunnel only for tunnel-destination IP binding	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IGPMetricType	IGP MetricType for TE tunnel.	N/A	Enumeration: • 1—Relative • 2—Absolute	N/A
RelativeIGPMetricValue	Value of Relative IGP Metric.	N/A	Integer. **The range is -10 to 10.**	Absolute and relative can not be configured at the same time.
AbsoluteIGPMetricValue	Value of Absolute IGP Metric.	N/A	Unsigned integer. **The range is 1 to 65535.**	Absolute and relative can not be configured at the same time.
SRLspState	SRLSP state for an MPLS TE tunnel interface.	N/A	Boolean: • **true**—Up. • **false**—Down.	N/A
BackupSRLspState	Backup SRLSP state for an MPLS TE tunnel interface.	N/A	Boolean: • **true**—Up. • **false**—Down.	N/A
ForceForwarding	Forced forwarding of traffic by using the TE tunnel.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
LspTpOutbound	Enable LSP traffic policy in outbound direction.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MplsBfdTriggerDown	BFD failure triggers the MPLS TE tunnel to be down	N/A	Enumeration: • 0—None • 1—Enable • 2—Disable	The priority is higher than global configuration.
TunnelPaths	Paths configured for the MPLS TE tunnel interface	Sublist	N/A	N/A

TE/TunnelBundleCapabilities

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundleCapabilities>
    <MaxBndNum></MaxBndNum>
    <MaxMembNum></MaxMembNum>
    <LoadBalancing></LoadBalancing>
```

```
    <ProtectionOnetoone></ProtectionOnetoone>
    <ProtectionOneplusone></ProtectionOneplusone>
  </TunnelBundleCapabilities>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBndNum	Support for the maxinum Bundle interface.	Index	Unsigned integer.	N/A
MaxMembNum	Support for the maxinum tunnel interface can be add to the same Tunnel-bundle interface.	N/A	Unsigned integer.	N/A
LoadBalancing	Support for load sharing mode.	N/A	Boolean: • true—Supported. • false—Not supported	N/A
ProtectionOnetoone	Support for onetoone protection mode	N/A	Boolean: • true—Supported. • false—Not supported	N/A
ProtectionOneplusone	Support for oneplusone protection mode	N/A	Boolean: • true—Supported. • false—Not supported	N/A

TE/TunnelBundles

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundles>
    <TunnelBundle>
```

```
      <BundleID></BundleID>
      <ProtType></ProtType>
      <DstAddr></DstAddr>
    </TunnelBundle>
  </TunnelBundles>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundles
Table type	Multi-instance table
Row name	TunnelBundle
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
ProtType	Tunnel protection switching mode.	N/A	Enumeration: • 0—balance. • 1—onetoone protection. • 2—oneplusone protection.	N/A
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

TE/TunnelBundleMembers

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundleMembers>
    <TunnelBundleMember>
      <BundleID></BundleID>
      <TunnelID></TunnelID>
      <Membership></Membership>
      <LoadShare></LoadShare>
   </TunnelBundleMember>
  </TunnelBundleMembers>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleMembers
Table type	Multi-instance table
Row name	TunnelBundleMember
Restrictions	The member must be MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Membership	The Protection Type of Member interface	N/A	Enumeration: • 0—primary member interface. • 1—backup member interface.	N/A
LoadShare	The weight for a member tunnel interface.	N/A	Unsigned integer. The range is 1 to 65535.	N/A

TE/Tunnels/Tunnel/PrimaryPaths

This table contains primary paths settings for TE tunnels. The table is a sublist of the TE Tunnels table.

XML structure

```
<PrimaryPaths>
  <PrimaryPath>
    <Preference></Preference>
    <ExplicitPathName></ExplicitPathName>
    <Dynamic></Dynamic>
    <Nocspf></Nocspf>
  </PrimaryPath>
</PrimaryPaths>
```

Table description

Item	**Description**
Feature name	TE

Item	Description
Table name	PrimaryPaths
Table type	Multi-instance table
Row name	PrimaryPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Preference of the path	index	Unsigned integer. The value range is 1 to 10.	N/A
ExplicitPathName	Name of an explicit path	N/A	String. Length: 1 to 31 characters.	N/A
Dynamic	Dynamically calculated path	N/A	Boolean: • true • false	N/A
`Nocspf`	Disable CSPF calculation	N/A	Boolean: • true • false	N/A

TE/Tunnels/Tunnel/SecondaryPaths

This table contains secondary paths settings for TE tunnels. The table is a sublist of the TE Tunnels table.

XML structure

```
<SecondaryPaths>
  <SecondaryPath>
    <Preference></Preference>
    <ExplicitPathName></ExplicitPathName>
    <Dynamic></Dynamic>
    <Nocspf></Nocspf>
  </SecondaryPath>
</SecondaryPaths>
```

Table description

Item	Description
Feature name	TE
Table name	SecondaryPaths

Item	Description
Table type	Multi-instance table
Row name	SecondaryPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Preference of the path	index	Unsigned integer. The value range is 1 to 10.	N/A
ExplicitPathName	Name of an explicit path	N/A	String. Length: 1 to 31 characters.	N/A
Dynamic	Dynamically calculated path	N/A	Boolean: • true • false	N/A
`Nocspf`	Disable CSPF calculation	N/A	Boolean: • true • false	N/A

TE/ExplicitPaths

This table contains information about explicit paths settings.

XML structure

```
<TE>
  <ExplicitPaths>
    <ExplicitPath>
      <ExplicitPathName></ExplicitPathName>
      <ExplicitPathHops></ExplicitPathHops>
    </ExplicitPath>
  </ExplicitPaths>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	ExplicitPaths
Table type	Multi-instance table
Row name	ExplicitPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExplicitPathName	The name of an explicit path.	index	String. Length: 1 to 31 characters.	N/A
ExplicitPathHops	The nodes of an explicit path.	sublist	N/A	N/A

TE/ExplicitPaths/ExplicitPath/ExplicitPathHops

This table contains explicit path node settings for TE tunnels. The table is a sublist of the TE ExplicitPaths table.

XML structure

```
<ExplicitPathHops>
  <ExplicitPathHop>
    <HopIndex></HopIndex>
    <HopIpAddr></HopIpAddr>
    <HopType></HopType>
    <HopIntType></HopIntType>
    <NextSID></NextSID>
    <NextSIDType></NextSIDType>
  </ExplicitPathHop>
</ExplicitPathHops>
```

Table description

Item	Description
Feature name	TE
Table name	ExplicitPathHops
Table type	Multi-instance table
Row name	ExplicitPathHop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HopIndex	Index for the node in the explicit path	index	Unsigned integer. The value range is 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HopIpAddr	IP address of the node	N/A	String, dotted decimal notation.	N/A
HopType	Type of the node	N/A	Enumeration: • 0—include strict • 1—include loose • 2—exclude	N/A
HopIntType	Direction of the next interface IP	N/A	Enumeration: • 0—none (default) • 1—incoming • 2—outgoing	N/A
NextSID	Segment ID for the node in the explicit path	N/A	Unsigned integer. The value range is 0, 3, 16 to 1048575.	N/A
NextSIDType	Type of the segment ID node	N/A	Enumeration: • 1—Adjacency • 2—Prefix • 3—Binding-SID	N/A

TE/BidirectionalReverseLsps

This table contains information about TE Bidirectional reverse-lsps settings.

XML structure

```
<TE>
  <BidirectionalReverseLsps>
    <BidirectionalReverseLsp>
      <TunnelID></TunnelID>
      <ReverseBindingSID></ReverseBindingSID>
    </BidirectionalReverseLsp>
  </BidirectionalReverseLsps>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	BidirectionalReverseLsps
Table type	Multi-instance table
Row name	BidirectionalReverseLsp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
ReverseBindingSID	Reverse LSP segment ID for TE tunnel.	N/A	Unsigned integer. 16 to 1048575	N/A

TE/Tunnels/Tunnel/TunnelPaths

This table contains path configuration of a tunnel. The table is a sublist of the TE Tunnels table.

XML structure

```
<TunnelPaths>
  <TunnelPath>
    <PathType></PathType>
     <ExcludeAffinity></ExcludeAffinity>
     <IncludeAffinityAny></IncludeAffinityAny>
     <IncludeAffinityAll></IncludeAffinityAll>
     <HopLimit></HopLimit>
  </TunnelPath>
</TunnelPaths>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelPaths
Table type	Multi-instance table
Row name	TunnelPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathType	Role of a tunnel path	index	Enumeration: • 0—Primary LSP. • 1—Secondary LSP.	N/A
ExcludeAffinity	A 32-bit vector representing a set of attribute	N/A	HexBinary. The range is 0 to 8.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	filters associated with a tunnel, any of which renders a link unacceptable			
IncludeAffinityAny	A 32-bit vector representing a set of attribute filters associated with a tunnel, any of which renders a link acceptable	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically passes.
IncludeAffinityAll	A 32-bit vector representing a set of attribute filters associated with a tunnel, all of which must be present for a link to be acceptable	N/A	HexBinary. The range is 0 to 8.	A null set (all bits set to zero) automatically passes.
HopLimit	Hop limit for the TE LSP.	N/A	Unsigned integer. The value range is 1 to 32.	N/A

Contents

IfChange event 1
XML structure for event subscription 1
XML structure for event report 2

IfChange event

This event is used to report MPLS TE metric and max-link-bandwidth change information for links.

XML structure for event subscription

```
<IfChangeEvent>
    <Interface>
        <IfIndex></IfIndex>
    </Interface>
</IfChangeEvent>
```

Example:

```
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TE_STREAM</stream>
    <filter type="subtree">
        <IfChangeEvent xmlns="http://www.h3c.com/netconf/event:1.0/te:1.0">
            <Interface>
                <IfIndex>2</IfIndex>
            </Interface>
        </IfChangeEvent>
    </filter>
  </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	TE_STREAM
Event name	IfChangeEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/te:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer	N/A
Metric	TE metric for the interface.	Unsigned integer. The range is 1 to 4294967295.	N/A
MaxLinkBandWidth	Maximum bandwidth for MPLS TE traffic on the interface.	Unsigned integer. The range is 1 to 4294967295 kbps.	N/A
IfName	Interface name	String. Length: 2 to 47 characters.	IfName

XML structure for event report

```
<IfChangeEvent>
    <Interface>
        <IfIndex></IfIndex>
        <Metric></Metric>
        <MaxLinkBandWidth></MaxLinkBandWidth>
        <IfName>GigabitEthernet</IfName>
    </Interface>
</IfChangeEvent>
```

Example:

```
<?xml version="1.0" encoding="UTF-8"?><notification
xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
<eventTime>2019-01-04T07:23:20</eventTime>
    <IfChangeEvent xmlns="te:1.0">
        <Interface>
            <IfIndex>2</IfIndex>
            <Metric>1000</Metric>
            <MaxLinkBandWidth>1000</MaxLinkBandWidth>
            <IfName>GigabitEthernet0/0/2</IfName>
        </Interface>
    </IfChangeEvent>
</notification>]]>]]>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer	N/A
Metric	TE metric for the interface.	Unsigned integer. The range is 1 to 4294967295.	N/A
MaxLinkBandWidth	Maximum bandwidth for MPLS TE traffic on the interface.	Unsigned integer. The range is 1 to 4294967295 kbps.	N/A
IfName	Interface name	String. Length: 2 to 47 characters.	N/A

Contents

TelemetryFlowTrace 1

TelemetryFlowTrace/FlowGroups 1
XML structure 1
Table description 1
Columns 2
TelemetryFlowTrace/FlowGroupGlobal 4
XML structure 4
Table description 4
Columns 4
TelemetryFlowTrace/FlowGroupApplys 5
XML structure 5
Table description 5
Columns 5
TelemetryFlowTrace/FlowGroupNameApplys 5
XML structure 6
Table description 6
Columns 6
TelemetryFlowTrace/MODEnable 6
XML structure 7
Table description 7
Columns 7
TelemetryFlowTrace/MOD 8
XML structure 8
Table description 8
Columns 8
TelemetryFlowTrace/ElephantFlow 9
XML structure 9
Table description 10
Columns 10
TelemetryFlowTrace/TelemetryStream 11
XML structure 11
Table description 11
Columns 12
TelemetryFlowTrace/TelemetryGlobalEnable 12
XML structure 12
Table description 12
Columns 13
TelemetryFlowTrace/TelemetryActions 13
XML structure 13
Table description 13
Columns 14
TelemetryFlowTrace/TimestampEnable 14
XML structure 14
Table description 15
Columns 15
TelemetryFlowTrace/GroupReasonMaps 15
XML structure 15
Table description 15
Columns 16

TelemetryFlowTrace

TelemetryFlowTrace/FlowGroups

This table contains information about flow groups.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroups>
    <FlowGroup>
      <GroupID></GroupID>
      <Name></Name>
      <Mode></Mode>
      <Acl>
        <IPv4Acl></IPv4Acl>
        <IPv6Acl></IPv6Acl>
        <MACAcl></MACAcl>
        <UserAcl></UserAcl>
      </Acl>
      <Template>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <SrcPort></SrcPort>
        <DstPort></DstPort>
        <Protocol></Protocol>
        <EncapType></EncapType>
        <VxlanID></VxlanID>
        <InnerSrcIP></InnerSrcIP>
        <InnerDstIP></InnerDstIP>
        <InnerSrcPort></InnerSrcPort>
        <InnerDstPort></InnerDstPort>
        <InnerProtocol></InnerProtocol>
      </Template>
    </FlowGroup>
  </FlowGroups>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroups
Table type	Multi-instance table
Row name	FlowGroup

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Flow group ID	Index	Unsigned integer.	N/A
Name	Flow group name	N/A	String. Length: 1 to 63 characters.	N/A
Mode	Flow group mode	N/A	Enumeration: • **0**—MOD. • **1**—MOD simple. • **2**—Mice elephant flow.	N/A
Acl	ACL	Data structure	Members include: • IPv4Acl. • IPv6Acl. • MACAcl. • UserAcl.	N/A.
IPv4ACl	IPv4 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
IPv6ACl	IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
MACAcl	MAC ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 4000 to 4999.	An ACL name must start with an English letter and cannot be **all**.
UserAcl	User-defined ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 5000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
Template	Template	N/A	Members include: • SrcIP. • DstIP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• SrcPort. • DstPort. • Protocol. • EncapType. • VxlanID. • InnerSrcIP. • InnerDstIP. • InnerSrcPort. • InnerDstPort. • InnerProtocol.	
SrcIP	Source address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstIP	Destination address	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcPort	Source port	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstPort	Destination port	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Protocol	Protocol	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
EncapType	Encapsulation type	N/A	Enumeration: • **0**—None. • **1**—VXLAN.	This column is available when the EncapType is specified.
VxlanID	VXLAN ID	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	Only the VXLAN encapsulation supports this column.
InnerSrcIP	Inner source address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerDstIP	Inner destination address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerSrcPort	Inner source port.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InnerDstPort	Inner destination port.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerProtocol	Inner protocol	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.

TelemetryFlowTrace/FlowGroupGlobal

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupGlobal>
    <AgingTime></AgingTime>
    <FlowRate></FlowRate>
    <FlowMaxEntry></FlowMaxEntry>
  </FlowGroupGlobal>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupGlobal
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Aging time	N/A	Unsigned integer.	The default values and ranges for this column are customized by the product.
FlowRate	Flow rate	N/A	Unsigned integer.	The ranges for this column are customized

Column name	Column description	Column type	Data type and restrictions	Remarks
				by the product.
FlowMaxEntry	Maximum flow entries	N/A	Unsigned integer.	The ranges for this column are customized by the product.

TelemetryFlowTrace/FlowGroupApplys

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupApplys>
    <FlowGroupApply>
      <GroupID></GroupID>
    </FlowGroupApply>
  </FlowGroupApplys>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupApplys
Table type	Multi-instance table
Row name	FlowGroupApply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Flow group ID	Index	Unsigned integer.	N/A

TelemetryFlowTrace/FlowGroupNameApplys

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupNameApplys>
    <FlowGroupNameApply>
      <Name></Name>
    </FlowGroupNameApply>
  </FlowGroupNameApplys>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupNameApplys
Table type	Multi-instance table
Row name	FlowGroupNameApply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of flow group	Index	String. Length: 1 to 63 characters.	The flow group names support two types: custom and predefined. The current system supports predefined names of protocol types in different modes as follows: • IP—system-defined-ip. • IP(Group-MOD mode)—system-defined-ip-group • VXLAN—system-defined-vxlan • VXLAN(Group-MOD mode)—system-defined-vxlan-group

TelemetryFlowTrace/MODEnable

This table contains information about mirror-on-drop reasons.

XML structure

```
<TelemetryFlowTrace>
  <MODEnable>
    <AllReasonFlag></AllReasonFlag>
    <DropReason></DropReason>
    <AllGroupReasonFlag></AllGroupReasonFlag>
    <DropGroupReason></DropGroupReason>
  </MODEnable>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	MODEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AllReasonFlag	All drop reasons	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	When create ,merge or replace MODEnable, you can only specify one between AllReasonFlag and DropReason.
DropReason	List of drop reasons.	N/A	Numeric string. It is a comma-separated list of drop reason items. Length: 1 to 4000 characters.	For example: 2,4-6,9-10,12,30. By default, no drop reasons are configured.
AllGroupReasonFlag	All drop group reasons	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	When create, merge, or replace MODEnable, you can only specify one of AllGroupReasonFlag and DropGroupReason.
DropGroupReason	List of drop group reason codes.	N/A	Numeric string. It is a comma-separated list of drop reason items. Length: 1 to 4000 characters.	For example: 100-107. By default, no drop group reasons are configured.

TelemetryFlowTrace/MOD

This table contains information about mirror-on-drop.

XML structure

```
<TelemetryFlowTrace>
  <MOD>
    <Encap>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Encap>
    <SamplerName></SamplerName>
    <DeviceID></DeviceID>
    <ReportMode></ReportMode>
  </MOD>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	MOD
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap	Telemetry collector	N/A	Members include: • SrcIP. • DstIP. • SrcPort. • DstPort. • VLANID.	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete Encap. You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the Encap, or when you merge or create an Encap that does not exist.
SrcIP	Source IP	N/A	String, dotted decimal	Example: 10.153.93.60.

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap	Telemetry collector	N/A	Members include: • SrcIP. • DstIP. • SrcPort. • DstPort. • VLANID.	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete Encap. You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the Encap, or when you merge or create an Encap that does not exist.
	address		notation. Length: 1 to 16 characters.	
DstIP	Destination IP address	N/A	String, dotted decimal notation. Length: 1 to 16 characters.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SamplerName	Sampler name.	N/A	String. Length: 1 to 31 characters.	By default, no sampler name is specified.
DeviceID	Device ID.	N/A	String, dotted decimal notation. Length: 1 to 16 characters.	This column can only be configured with the IPv4. By default, no address is specified. IPv4 address examples: 1.1.1.1.
ReportMode	Report mode	N/A	Enumeration: • **1**—gRPC. • **2**—UDP.	The default mode is UDP.

TelemetryFlowTrace/ElephantFlow

This table contains information about mice elephant flows.

XML structure

```
<TelemetryFlowTrace>
  <ElephantFlow>
    <ElephantIdentify>
      <FlowRate></FlowRate>
      <RateUnit></RateUnit>
      <FlowSize></FlowSize>
      <SizeUnit></SizeUnit>
```

```
    </ElephantIdentify>
    <ElephantAction>
      <Type></Type>
      <Value></Value>
    </ElephantAction>
  </ElephantFlow>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	ElephantFlow
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ElephantIdentify	Elephant identity.	N/A	Members include: • FlowRate. • RateUnit. • FlowSize. • SizeUnit.	You must specify the FlowRate when you replace an ElephantIdentify, or when you merge or create an ElephantIdentify that does not exist.
FlowRate	Rate of the mice elephant flow.	N/A	Unsigned integer.	The value range of this column is customized by the product.
RateUnit	Rate unit.	N/A	Enumeration: • **0**—kbps. • **1**—mbps • **2**—gbps. Default: 0.	N/A
FlowSize	Size of the mice elephant flow.	N/A	Unsigned integer.	The value range of this column is customized by the product.
SizeUnit	Size unit.	N/A	Enumeration: • **0**—bytes. • **1**—kbytes • **2**—mbytes. Default: 0.	N/A

ElephantAction	Elephant action.	N/A	Members include: • Type. • Value.	You must specify the Type when you replace an ElephantAction, or when you merge or create an ElephantAction that does not exist.
Type	Action type.	N/A	Enumeration: • **1**—None. • **2**—Remark dp. • **3**—Remark dot1p. • **4**—Remark local precedence.	When the specified type is none, the Value column cannot be set. When the specified type is non-none, the Value column must be set.
Value	Action value.	N/A	Unsigned integer.	When the Type column is 2, the value range is 0 to 2. When the Type column is 3 or 4, the value range is 0 to 7.

TelemetryFlowTrace/TelemetryStream

This table contains information about telemetry stream.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryStream>
    <DeviceID></DeviceID>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VPN></VPN>
      <Truncation></Truncation>
    </Collector>
  </TelemetryStream>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TelemetryStream
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
Collector	Telemetry collector	N/A	Members include: • SrcIP • DstIP • SrcPort • DstPort • VPN • Truncation	You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the telemetry collector, or when you merge or create the telemetry collector that does not exist.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DstIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VPN	VPN name	N/A	String. Length: 1 to 31 characters.	N/A
Truncation	Truncating packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

TelemetryFlowTrace/TelemetryGlobalEnable

This table contains information about telemetry status.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace

Table name	TelemetryGlobalEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable flowtrace	N/A	Boolean: • **true**—Enable(default). • **false**—Disable.	N/A

TelemetryFlowTrace/TelemetryActions

This table contains information about telemetry actions.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryActions>
    <TelemetryAction>
      <IfIndex></IfIndex>
      <ActionId></ActionId>
      <Match>
        <AclType></AclType>
        <Acl></Acl>
      </Match>
      <Action>
        <SamplerName></SamplerName>
      </Action>
    </TelemetryAction>
  </TelemetryActions>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TelemetryActions
Table type	Multi-instance table
Row name	TelemetryAction

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ActionId	Action ID	Index	Unsigned integer. Value range: 1 to 32.	N/A
Match	Telemetry match	N/A	Members include: • AclType • Acl	N/A
AclType	ACL type	N/A	Enumeration: • **1—IPv4Acl.** • **2—IPv6Acl.** • **3—MACAcl.** • **4—UserAcl.**	You must specify the Acl when you specify the AclType.
Acl	ACL name or ACL number.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range based on AclType.	An ACL name must start with an English letter and cannot be **all**. You must specify the AclType when you specify the Acl.
Action	Telemetry action	N/A	Members include: • SamplerName	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	N/A

TelemetryFlowTrace/TimestampEnable

This table contains information about timestamp status.

XML structure

```
<TelemetryFlowTrace>
  <TimestampEnable>
    <Enable></Enable>
  </TimestampEnable>
```

```
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TimestampEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	no

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable timestamp	N/A	Boolean: • **true**—Enable. • **false**—Disable(default).	N/A

TelemetryFlowTrace/GroupReasonMaps

This table contains information about reason-group mapping.

XML structure

```
<TelemetryFlowTrace>
  <GroupReasonMaps>
    <GroupReasonMap>
      <Reason></Reason>
      <GroupID></GroupID>
    </GroupReasonMap>
  </GroupReasonMaps>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	GroupReasonMaps
Table type	Multi-instance table
Row name	GroupReasonMap
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reason	Reason code.	index	Unsigned integer.	You must specify the mapping group ID when you create the mapping table.
GroupID	Group ID	N/A	Enumeration: • **0**—drop-precedence-drop. • **1**—invalid-queue-drop. • **2**-multicase-replication-fail • **3**-voq-ram-drop • **4**-tail-or-wred-drop • **5**-pfc-fc-drop • **6**-traffic-management-fail • **7**-user-defined	The current device only supports mapping to the user-defined group.

Contents

TelemetryFlowTrace 1

TelemetryFlowTrace/FlowGroups 1
XML structure 1
Table description 1
Columns 2
TelemetryFlowTrace/FlowGroupGlobal 4
XML structure 4
Table description 4
Columns 4
TelemetryFlowTrace/FlowGroupApplys 5
XML structure 5
Table description 5
Columns 5
TelemetryFlowTrace/FlowGroupNameApplys 5
XML structure 5
Table description 6
Columns 6
TelemetryFlowTrace/MODEnable 7
XML structure 7
Table description 7
Columns 7
TelemetryFlowTrace/MOD 8
XML structure 8
Table description 8
Columns 8
TelemetryFlowTrace/ElephantFlow 9
XML structure 9
Table description 9
Columns 10
TelemetryFlowTrace/Flows 10
XML structure 11
Table description 11
Columns 11
TelemetryFlowTrace/TelemetryStream 13
XML structure 13
Table description 13
Columns 13
TelemetryFlowTrace/TelemetryGlobalEnable 14
XML structure 14
Table description 14
Columns 14
TelemetryFlowTrace/TelemetryActions 14
XML structure 15
Table description 15
Columns 15
TelemetryFlowTrace/TimestampEnable 16
XML structure 16
Table description 16
Columns 17
TelemetryFlowTrace/GroupReasonMaps 17
XML structure 17
Table description 17
Columns 17

TelemetryFlowTrace

TelemetryFlowTrace/FlowGroups

This table contains information about flow groups.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroups>
    <FlowGroup>
      <GroupID></GroupID>
      <Name></Name>
      <Mode></Mode>
      <Acl>
        <IPv4Acl></IPv4Acl>
        <IPv6Acl></IPv6Acl>
        <MACAcl></MACAcl>
        <UserAcl></UserAcl>
      </Acl>
      <Template>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <SrcPort></SrcPort>
        <DstPort></DstPort>
        <Protocol></Protocol>
        <EncapType></EncapType>
        <VxlanID></VxlanID>
        <InnerSrcIP></InnerSrcIP>
        <InnerDstIP></InnerDstIP>
        <InnerSrcPort></InnerSrcPort>
        <InnerDstPort></InnerDstPort>
        <InnerProtocol></InnerProtocol>
      </Template>
    </FlowGroup>
  </FlowGroups>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroups
Table type	Multi-instance table
Row name	FlowGroup

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Flow group ID	Index	Unsigned integer.	N/A
Name	Flow group name	N/A	String. Length: 1 to 63 characters.	N/A
Mode	Flow group mode	N/A	Enumeration: • **0**—MOD. • **1**—MOD simple. • **2**—Mice elephant flow.	N/A
Acl	ACL	Data structure	Members include: • IPv4Acl. • IPv6Acl. • MACAcl. • UserAcl.	N/A.
IPv4ACl	IPv4 ACL.	N/A	• **ACL name**: Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
IPv6ACl	IPv6 ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**.
MACAcl	MAC ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 4000 to 4999.	An ACL name must start with an English letter and cannot be **all**.
UserAcl	User-defined ACL.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range of 5000 to 5999.	An ACL name must start with an English letter and cannot be **all**.
Template	Template	N/A	Members include: • SrcIP. • DstIP. • SrcPort. • DstPort.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Protocol. • EncapType. • VxlanID. • InnerSrcIP. • InnerDstIP. • InnerSrcPort. • InnerDstPort. • InnerProtocol.	
SrcIP	Source address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstIP	Destination address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
SrcPort	Source port.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DstPort	Destination port.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
Protocol	Protocol	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
EncapType	Encapsulation type	N/A	Enumeration: • **0**—None. • **1**—VXLAN encapsulation.	This column is available when the EncapType is specified.
VxlanID	VXLAN ID	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	Only the VXLAN encapsulation supports this column.
InnerSrcIP	Inner source address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerDstIP	Inner destination address.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerSrcPort	Inner source port.	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.
InnerDstPort	Inner destination port.	N/A	Boolean:	This column is available when the EncapType is

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **true**—Conform. • **false**—Not conform.	specified.
InnerProtocol	Inner protocol	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	This column is available when the EncapType is specified.

TelemetryFlowTrace/FlowGroupGlobal

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupGlobal>
    <AgingTime></AgingTime>
    <FlowRate></FlowRate>
    <FlowMaxEntry></FlowMaxEntry>
  </FlowGroupGlobal>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupGlobal
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Aging time	N/A	Unsigned integer.	N/A
FlowRate	Flow rate	N/A	Unsigned integer.	N/A
FlowMaxEntry	Maximum flow entries	N/A	Unsigned integer.	N/A

TelemetryFlowTrace/FlowGroupApplys

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupApplys>
    <FlowGroupApply>
      <GroupID></GroupID>
      <Status></Status>
    </FlowGroupApply>
  </FlowGroupApplys>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupApplys
Table type	Multi-instance table
Row name	FlowGroupApply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	Flow group ID	Index	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: • **1**—Successful. • **2**—Failed. • **3**—Incomplete.	N/A

TelemetryFlowTrace/FlowGroupNameApplys

This table contains information about flow group application.

XML structure

```
<TelemetryFlowTrace>
  <FlowGroupNameApplys>
    <FlowGroupNameApply>
```

```
      <Name></Name>
      <Status></Status>
    </FlowGroupNameApply>
  </FlowGroupNameApplys>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	FlowGroupNameApplys
Table type	Multi-instance table
Row name	FlowGroupNameApply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Flow group name	Index	String. Length: 1 to 63 characters.	The flow group names support two types: custom and predefined. The current system supports predefined names of protocol types in different modes as follows: • IP—system-defined-ip. • IP(Group-MOD mode)—system-defined-ip-group • VXLAN—system-defined-vxlan • VXLAN(Group-MOD mode)—system-defined-vxlan-group
Status	Application status	N/A	Enumeration: • **1**—Successful. • **2**—Failed. • **3**—Incomplete.	N/A
SystemDefined	System defined	N/A	Boolean: • **true**—System-defined. • **false**—User-defined.	N/A

TelemetryFlowTrace/MODEnable

This table contains information about mirror-on-drop reasons.

XML structure

```
<TelemetryFlowTrace>
  <MODEnable>
    <AllReasonFlag></AllReasonFlag>
    <DropReason></DropReason>
    <AllGroupReasonFlag></AllGroupReasonFlag>
    <DropGroupReason></DropGroupReason>
  </MODEnable>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	MODEnable
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AllReasonFlag	All drop reasons	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DropReason	List of drop reason codes.	N/A	Numeric string. It is a comma-separated list of drop reason items. Length: 1 to 4000 characters.	For example: 2,4-6,9-10,12,30. By default, no drop reasons are configured.
AllGroupReasonFlag	All drop group reasons	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A
DropGroup Reason	List of drop group reason codes.	N/A	Numeric string. It is a comma-separated list of drop reason items. Length: 1 to 4000 characters.	For example: 100-107. By default, no drop group reasons are configured.

TelemetryFlowTrace/MOD

This table contains information about mirror-on-drop.

XML structure

```
<TelemetryFlowTrace>
  <MOD>
    <Encap>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Encap>
    <SamplerName></SamplerName>
    <DeviceID></DeviceID>
    <ReportMode></ReportMode>
  </MOD>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	MOD
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Encap	Telemetry collector	N/A	Members include: • SrcIP. • DstIP. • SrcPort. • DstPort. • VLANID.	N/A
SrcIP	Source IP address	N/A	String, dotted decimal notation. Length: 1 to 16 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIP	Destination IP address	N/A	String, dotted decimal notation. Length: 1 to 16 characters.	N/A
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SamplerName	Sampler name.	N/A	String. Length: 1 to 31 characters.	N/A
DeviceID	Device ID.	N/A	String, dotted decimal notation. Length: 1 to 16 characters.	N/A
ReportMode	Report mode	N/A	Enumeration: • **1**—gRPC. • **2**—UDP.	N/A

TelemetryFlowTrace/ElephantFlow

This table contains information about mice elephant flows.

XML structure

```
<TelemetryFlowTrace>
  <ElephantFlow>
    <ElephantIdentify>
      <FlowRate></FlowRate>
      <RateUnit></RateUnit>
      <FlowSize></FlowSize>
      <SizeUnit></SizeUnit>
    </ElephantIdentify>
    <ElephantAction>
      <Type></Type>
      <Value></Value>
    </ElephantAction>
  </ElephantFlow>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace

Table name	ElephantFlow
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ElephantIdentify	Elephant identity.	N/A	Members include: • FlowRate. • RateUnit. • FlowSize. • SizeUnit.	N/A
FlowRate	Rate of the mice elephant flow.	N/A	Unsigned integer.	N/A
RateUnit	Rate unit.	N/A	Enumeration: • **0**—kbps. • **1**—mbps • **2**—gbps.	N/A
FlowSize	Size of the mice elephant flow.	N/A	Unsigned integer.	N/A
SizeUnit	Size unit.	N/A	Enumeration: • **0**—bytes. • **1**—kbytes • **2**—mbytes.	N/A
ElephantAction	Elephant action.	N/A	Members include: • Type. • Value.	N/A
Type	Action type.	N/A	Enumeration: • **1**—None. • **2**—Remark dp. • **3**—Remark dot1p. • **4**—Remark local precedence.	N/A
Value	Action value.	N/A	Unsigned integer.	N/A

TelemetryFlowTrace/Flows

This table contains information about flow entry.

XML structure

```
<TelemetryFlowTrace>
  <Flows>
    <Flow>
      <Chassis></Chassis>
      <Slot></Slot>
      <Cpu></Cpu>
      <FlowIndex></FlowIndex>
      <Proto></Proto>
      <Sip></Sip>
      <Dip></Dip>
      <L4_sport></L4_sport>
      <L4_dport></L4_dport>
      <Vnid></Vnid>
      <Inner_proto></Inner_proto>
      <Inner_sip></Inner_sip>
      <Inner_dip></Inner_dip>
      <Inner_l4_sport></Inner_l4_sport>
      <Inner_l4_dport></Inner_l4_dport>
      <State></State>
      <AgingTime></AgingTime>
      <Packets></Packets>
      <Bytes></Bytes>
    </Flow>
  </Flows>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	Flows
Table type	Multi-instance table
Row name	Flow
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535	N/A
Cpu	Cpu number	Index	Unsigned integer. Value range: 0 to 65535	N/A
FlowIndex	Flow Index	Index	Unsigned integer.	This column can not be assigned.
Proto	Protocol.	N/A	Unsigned integer.	N/A
Sip	Source IP.	N/A	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Dip	Destination IP.	N/A	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
L4_sport	Source port.	N/A	Unsigned integer.	N/A
L4_dport	Destination port.	N/A	Unsigned integer.	N/A
Vnid	VXLAN ID.	N/A	Unsigned integer.	N/A
Inner_proto	Inner protocol.	N/A	Unsigned integer.	N/A
Inner_sip	Inner source IP.	N/A	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Inner_dip	Inner destination IP.	N/A	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Inner_l4_sport	Inner source port.	N/A	Unsigned integer.	N/A
Inner_l4_dport	Inner destination port.	N/A	Unsigned integer.	N/A
State	Flow state.	N/A	Enumeration: • **0**—None. • **1**—MOD. • **2**—Elephant.	N/A
Aging time	Aging time.	N/A	Unsigned integer.	The time left in seconds.
Packets	Packet statistic	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Bytes statistic	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

TelemetryFlowTrace/TelemetryStream

This table contains information about telemetry stream.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryStream>
    <DeviceID></DeviceID>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VPN></VPN>
      <Truncation></Truncation>
    </Collector>
  </TelemetryStream>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TelemetryStream
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device IP address	N/A	String, dotted decimal notation.	N/A
Collector	Telemetry collector	N/A	Members include: • SrcIP • DstIP • SrcPort • DstPort • VPN	N/A
SrcIP	Source IP address	N/A	String, dotted decimal notation.	N/A
DstIP	Destination IP address	N/A	String, dotted decimal notation.	N/A

SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VPN	VPN name	N/A	String. Length: 1 to 31 characters.	N/A
Truncation	Truncating packets	N/A	Boolean: • **true**—Conform. • **false**—Not conform.	N/A

TelemetryFlowTrace/TelemetryGlobalEnable

This table contains information about telemetry status.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TelemetryGlobalEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**	**Remarks**
Enable	Whether to enable flowtrace	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

TelemetryFlowTrace/TelemetryActions

This table contains information about telemetry actions.

XML structure

```
<TelemetryFlowTrace>
  <TelemetryActions>
    <TelemetryAction>
      <IfIndex></IfIndex>
      <ActionId></ActionId>
      <Match>
        <AclType></AclType>
        <Acl></Acl>
      </Match>
      <Action>
        <SamplerName></SamplerName>
      </Action>
      <Status></Status>
      <IfName></IfName>
    </TelemetryAction>
  </TelemetryActions>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TelemetryActions
Table type	Multi-instance table
Row name	TelemetryAction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ActionId	Action ID	Index	Unsigned integer. Value range: 1 to 32.	N/A
Match	Telemetry match	N/A	Members include: • AclType • Acl	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclType	ACL type	N/A	Enumeration: • **1—IPv4Acl.** • **2—IPv6Acl.** • **3—MACAcl.** • **4—UserAcl.**	N/A
Acl	ACL name or ACL number	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number:** An unsigned integer in the range based on AclType.	N/A
Action	Telemetry action	N/A	Members include: • SamplerName	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Action application status	N/A	Enumeration: • **0**—Inactive. • **1**—Successful. • **2**—Failed.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

TelemetryFlowTrace/TimestampEnable

This table contains information about timestamp status.

XML structure

```
<TelemetryFlowTrace>
  <TimestampEnable>
    <Enable></Enable>
  </TimestampEnable>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	TimestampEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable timestamp	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

TelemetryFlowTrace/GroupReasonMaps

This table contains information about reason-group mapping.

XML structure

```
<TelemetryFlowTrace>
  <GroupReasonMaps>
    <GroupReasonMap>
      <Reason></Reason>
      <GroupID></GroupID>
    </GroupReasonMap>
  </GroupReasonMaps>
</TelemetryFlowTrace>
```

Table description

Item	Description
Feature name	TelemetryFlowTrace
Table name	GroupReasonMaps
Table type	Multi-instance table
Row name	GroupReasonMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reason	reason code.	Index	Unsigned integer.	N/A
GroupID	Group ID	N/A	Enumeration: • **0**—drop-precedence-drop. • **1**—invalid-queue-drop. • **2**—multicase-replication-fail	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—voq-ram-drop • **4**—tail-or-wred-drop • **5**—pfc-fc-drop • **6**—traffic-management-fail • **7**—user-defined	

Contents

TelemetryFlowTrace 2
TelemetryFlowTrace/FlowGroups 2
TelemetryFlowTrace/FlowGroupApplys 2
TelemetryFlowTrace/FlowGroupNameApplys 2

TelemetryFlowTrace

TelemetryFlowTrace/FlowGroups

Message	Explanation
Can't delete the flow group because it has been applied. 该Flow Group已经被应用，不能删除。	The flow group to be deleted has been applied.
The name is already used by another flow group. 配置时指定的名字已经被其他Flow Group使用。	The name is already used by another flow group.
Can't rename an existing flow group. 不允许对已经存在的Flow Group重命名。	Can't rename an existing flow group.
A flow group can reference only one ACL. 一个Flow Group仅支持引用一个ACL。	A flow group can reference only one ACL.

TelemetryFlowTrace/FlowGroupApplys

Message	Explanation
The flow group doesn’t exist. Flow Group不存在。	The flow group does not exist.

TelemetryFlowTrace/FlowGroupNameApplys

Message	Explanation
The flow group doesn’t exist. Flow Group不存在。	The flow group does not exist.

Contents

TelemetryFlowTrace event stream 1
GenEvent event 1
XML structure for event subscription 1
XML structure for event report 2

TelemetryFlowTrace event stream

GenEvent event

This event is used to report reaction status information.

XML structure for event subscription

```
<GenEvent>
  <EventType></EventType>
</GenEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TelemetryFTrace</stream>
    <filter type="subtree">
      <GenEvent xmlns="http://www.h3c.com/netconf/event:1.0/TelemetryFTrace:1.0">
      </GenEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TelemetryFTrace
Event name	GenEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/TelemetryFTrace:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Remarks
EventType	Event type.	Unsigned integer.	The value of each statistics type is as follows: • **1**—MOD event. • **2**—Elephant event. To specify both statistics types, enter the sum of their values.

XML structure for event report

```
<GenEvent>
  <system_id></system_id>
  <component_id></component_id>
  <sub_component_id></sub_component_id>
  <EventPair>
    <Event>
      <timestamp></timestamp>
      <mod_event>
        <mod_state></mode_state>
      </mod_event>
      <elephant_event>
        <elephant_state></elephant_state>
      </elephant_event>
      <flow_event>
        <fl_state></fl_state>
      </flow_event>
      <rcd_event>
        <dummy></dummy>
      </rcd_event>
      <nlm_event>
        <dummy></dummy>
      </nlm_event>
    </Event>
    <Flow>
      <proto></proto>
      <sip></sip>
      <dip></dip>
      <l4_sport></l4_sport>
      <l4_dport></l4_dport>
      <vnid></vnid>
      <inner_proto></inner_proto>
      <inner_sip></inner_sip>
      <inner_dip></inner_dip>
      <inner_l4_sport></inner_l4_sport>
      <inner_l4_dport></inner_l4_dport>
      <custom_key></custom_key>
      <group_id></group_id>
      <packet></packet>
      <packet_count></packet_count>
      <byte_count></byte_count>
      <drop_reason_1></drop_reason_1>
      <drop_reason_2></drop_reason_2>
      <roce_dst_qpair></roce_dst_qpair>
      <roce_src_qpair></roce_src_qpair>
      <roce_opcode></roce_opcode>
    </Flow>
```

```
  </EventPair>
  <hostName></hostName>
</GenEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-07-03T14:03:44</eventTime>
  <GenEvent xmlns="http://www.h3c.com/netconf/event:1.0/TelemetryFTrace:1.0">
    <system_id>192.168.56.3</system_id>
    <component_id>200</component_id>
    <sub_component_id>300</sub_component_id>
    <EventPair>
      <Event>
        <timestamp>60</timestamp>
        <mod_event>
          <mod_state>2</mode_state>
        </mod_event>
      </Event>
      <Flow>
        <proto>102</proto>
        <sip>100</sip>
        <dip>200</dip>
        <l4_sport>89</l4_soprt>
        <l4_dport>98</l4_dport>
        <vnid>4096</vnid>
        <inner_proto>802</inner_proto>
        <inner_sip>192</inner_sip>
        <inner_dip>197</inner_dip>
        <inner_l4_sport>65535</inner_l4_sport>
        <inner_l4_dport>65530</inner_l4_dport>
        <custom_key>111</custom_key>
        <group_id>15</group_id>
        <packet>16</packet>
        <packet_count>17</packet_count>
        <byte_count>18</byte_count>
        <drop_reason_1>10</drop_reason_1>
        <drop_reason_2>18</drop_reason_2>
        <roce_dst_qpair>1</roce_dst_qpair>
        <roce_src_qpair>2</roce_src_qpair>
        <roce_opcode>2</roce_opcode>
      </Flow>
    </EventPair>
    <hostname>MOD_test_D044</hostname>
  </GenEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Remarks
system_id	System ID.	String, dotted decimal notation. Length: 1 to 16 characters.	N/A
Component_id	Component ID.	Unsigned integer.	N/A
sub_component_id	Subroutine component ID.	Unsigned integer.	N/A
timestamp	Timestamp.	64-bit Unsigned integer.	N/A
mod_state	Mirror on drop state.	Enumeration: • **0**—drop invalid. • **1**—drop start. • **2**—drop active. • **3**—drop stop.	N/A
elephant_state	Elephant state.	Enumeration: • **0**—elephant start. • **1**—elephant stop.	N/A
fl_state	Flow learning state.	Enumeration: • **0**—flow learning invalid. • **1**—flow learning learn. • **2**—flow learning aging. • **3**—flow learning export. • **4**—flow learning table full.	N/A
rcddummy	Route change detection dummy.	Unsigned integer.	N/A
nlmdummy	Network latency monitoring dummy.	Unsigned integer.	N/A
proto	Protocol.	Unsigned integer.	N/A
sip	Source IP.	Unsigned integer.	N/A
dip	Destination IP.	Unsigned integer.	N/A
l4_sport	Source port.	Unsigned integer.	N/A
l4_dport	Destination port.	Unsigned integer.	N/A
vnid	VXLAN ID.	Unsigned integer.	N/A
inner_proto	Inner protocol.	Unsigned integer.	N/A
inner_sip	Inner source IP.	Unsigned integer.	N/A
inner_dip	Inner destination IP.	Unsigned integer.	N/A
inner_l4_sport	Inner source port.	Unsigned integer.	N/A
inner_l4_dport	Inner destination port.	Unsigned integer.	N/A
custom_key	Custom key.	Unsigned integer.	N/A
group_id	Group ID.	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
packet	Packet.	Unsigned integer.	N/A
packet_count	Packet count.	64-bit Unsigned integer.	N/A
byte_count	Byte count.	64-bit Unsigned integer.	N/A
drop_reason_1	Drop reason.	Enumeration: • **2**—ipv4-dip-miss. • **4**—ipv4-multicase-error. • **5**—unknown-vlan • **6**—ipv4-l3-header-error. • **9**—tunnel-header-error. • **10**—parity-error. • **12**—higig-header-error. • **30**—invalid-tpid.	N/A
drop_reason_2	Drop reason.	Same as above.	N/A
roce_dst_qpair	Destination QP in the BTH of RoCEv2 packets	Unsigned integer.	N/A
roce_src_qpair	Source QP in the DETH of RoCEv2 packets	Unsigned integer.	N/A
roce_opcode	Operation code in the BTH of RoCEv2 packers	Unsigned integer.	N/A
hostname	Hostname.	String, case-insensitive. Length: 1 to 128 characters.	N/A

Contents

TelemetryPBSR 1
TelemetryPBSR/PBSRConfiguration 1
XML structure 1
Table description 1
Columns 1
TelemetryPBSR/PortPbsrConfigurations 2
XML structure 2
Table description 2
Columns 3

TelemetryPBSR

TelemetryPBSR/PBSRConfiguration

This table is used to configure the global configurations for the protobuf buffer status report (PBSR) function.

Caution: The columns ”SourceIpv4Address”, ”SourcePort”, ”DestIpv4Address”, and ”DestPort" must be created or deleted together.

XML structure

```
<TelemetryPBSR>
  <PBSRConfiguration>
    <PortCount></PortCount>
    <Interval></Interval>
    <SourceIpv4Address></SourceIpv4Address>
    <SourcePort></SourcePort>
    <DestIpv4Address></DestIpv4Address>
    <DestPort></DestPort>
    <VlanID></VlanID>
  </PBSRConfiguration>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PBSRConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortCount	Number of ports	N/A	Unsigned integer.	N/A
Interval	Interval for sending the PBSR to the server	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIpv4Address	Source IP address	N/A	String. IPv4 address string or IPv6 address string.	N/A
SourcePort	Source port number	N/A	Unsigned integer.	N/A
DestIpv4Address	Destination IP address	N/A	String. IPv4 address string or IPv6 address string.	N/A
DestPort	Destination port number	N/A	Unsigned integer.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

TelemetryPBSR/PortPbsrConfigurations

This table is used to configure the interface for the PBSR function.

XML structure

```
<TelemetryPBSR>
  <PortPbsrConfigurations>
    <PortPbsrConfiguration>
      <IfIndex></IfIndex>
      <State></State>
    </PortPbsrConfiguration>
  </PortPbsrConfigurations>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PortPbsrConfigurations
Table type	Multi-instance table
Row name	PortPbsrConfiguration
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
State	Active PBSR function	N/A	Boolean: • true. • false.	N/A

Contents

TelemetryPBSR 1
TelemetryPBSR/PBSRConfiguration 1
XML structure 1
Table description 1
Columns 1
TelemetryPBSR/PortPbsrConfigurations 2
XML structure 2
Table description 2
Columns 2

TelemetryPBSR

TelemetryPBSR/PBSRConfiguration

This table is used to get the global telemetry PBSR configuration.

XML structure

```
<TelemetryPBSR>
  <PBSRConfiguration>
    <PortCount></PortCount>
    <Interval></Interval>
    <SourceIpv4Address></SourceIpv4Address>
    <SourcePort></SourcePort>
    <DestIpv4Address></DestIpv4Address>
    <DestPort></DestPort>
    <VlanID></VlanID>
  </PBSRConfiguration>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PBSRConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortCount	Number of ports	N/A	Unsigned integer.	N/A
Interval	Interval for sending the PBSR to the server	N/A	Unsigned integer.	Interval of the sending timer.
SourceIpv4Address	Source IP address	N/A	String. IPv4 address string or IPv6 address string.	Example: 1.1.1.1
SourcePort	Source port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestIpv4Address	Destination IP address	N/A	String. IPv4 address string or IPv6 address string.	Example: 1.1.1.1
DestPort	Destination port	N/A	Unsigned integer.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

TelemetryPBSR/PortPbsrConfigurations

This table is used to configure the interface for the telemetry PBSR function.

XML structure

```
<TelemetryPBSR>
  <PortPbsrConfigurations>
    <PortPbsrConfiguration>
      <IfIndex></IfIndex>
      <State></State>
    </PortPbsrConfiguration>
  </PortPbsrConfigurations>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PortPbsrConfigurations
Table type	Multi-instance table
Row name	PortPbsrConfiguration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
State	Active PBSR function	N/A	Boolean: • true. • false.	N/A

Contents

TELNET 1
TELNET/Server 1
XML structure 1
Table description 1
Columns 1

TELNET

TELNET/Server

This table contains global Telnet server information.

XML structure

```
<TELNET>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4ACLVersion></Ipv4ACLVersion>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLVersion></Ipv6ACLVersion>
    <Ipv6ACLName></Ipv6ACLName>
    <Ipv4Port></Ipv4Port>
    <Ipv6Port></Ipv6Port>
  </Server>
</TELNET>
```

Table description

Item	Description
Feature name	TELNET
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global Telnet server features.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Telnet server state	N/A	EnableState: • **enable**—The Telnet server is enabled. • **disable**—The Telnet server is disabled (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4DSCP	IPv4 DSCP value for outgoing Telnet packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 48.	N/A
Ipv6DSCP	IPv6 DSCP value for outgoing Telnet packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 48.	N/A
Ipv4ACLNum	Number of the IPv4 ACL used to control Telnet logins	N/A	Unsigned integer. Value range: 2000 to 4999.	N/A
Ipv6ACLNum	Number of the IPv6 ACL used to control Telnet logins	N/A	Unsigned integer. Value range: 2000 to 4999.	N/A
Ipv4ACLVersion	IPv4 ACL type	N/A	Enumeration: • **1**—IPv4 ACL • **3**—Layer 2 ACL.	When the value for this parameter is 1, the name of an IPv4 ACL must be specified. When the value for this parameter is 3, the name of a Layer 2 ACL must be specified.
Ipv4ACLName	Name of the ACL used to control Telnet logins when the Ipv4ACLVersion parameter is specified	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Ipv6ACLVersion	IPv6 ACL type	N/A	Enumeration: • **2**—IPv6 ACL. • **3**—Layer 2 ACL.	When the value for this parameter is 2, the name of an IPv6 ACL must be specified. When the value for this parameter is 3, the name of a Layer 2 ACL must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6ACLName	Name of the ACL used to control Telnet logins when the Ipv6ACLVersion parameter is specified	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Ipv4Port	IPv4 Telnet service port number	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default: 23	N/A
Ipv6Port	IPv6 Telnet service port number	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default: 23.	N/A

Contents

TELNET 1
TELNET/Capabilities 1
XML structure 1
Table description 1
Columns 1
TELNET/Server 1
XML structure 1
Table description 2
Columns 2

TELNET

TELNET/Capabilities

This table contains Telnet server capability information.

XML structure

```
<TELNET>
  <Capabilities>
    <TelnetServerSupport></TelnetServerSupport>
  </Capabilities>
</TELNET>
```

Table description

Item	Description
Feature name	TELNET
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TelnetServerSupport	Whether Telnet server is supported	N/A	Boolean: • true • false

TELNET/Server

This table contains global Telnet server information.

XML structure

```
<TELNET>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
```

```
    <Ipv4ACLVersion></Ipv4ACLVersion>
    <Ipv4ACLName></Ipv4ACLName>
    <Ipv6ACLVersion></Ipv6ACLVersion>
    <Ipv6ACLName></Ipv6ACLName>
    <Ipv4Port></Ipv4Port>
    <Ipv6Port></Ipv6Port>
  </Server>
</TELNET>
```

Table description

Item	Description
Feature name	TELNET
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global Telnet server features.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Telnet server state	N/A	EnableState: • **enable**—The Telnet server is enabled. • **disable**—The Telnet server is disabled (default).	N/A
Ipv4DSCP	IPv4 DSCP value for outgoing Telnet packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 48.	N/A
Ipv6DSCP	IPv6 DSCP value for outgoing Telnet packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 48.	N/A
Ipv4ACLNum	Number of the IPv4 ACL used to control Telnet logins	N/A	Unsigned integer. Value range: 2000 to 4999.	N/A
Ipv6ACLNum	Number of the IPv6 ACL used to control Telnet logins	N/A	Unsigned integer. Value range: 2000 to 4999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4ACLVersion	IPv4 ACL type	N/A	Enumeration: • **1**—IPv4 ACL • **3**—Layer 2 ACL.	When the value for this parameter is 1, the name of an IPv4 ACL must be specified. When the value for this parameter is 3, the name of a Layer 2 ACL must be specified.
Ipv4ACLName	Name of the ACL used to control Telnet logins when the Ipv4ACLVersion parameter is specified	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Ipv6ACLVersion	IPv6 ACL type	N/A	Enumeration: • **2**—IPv6 ACL. • **3**—Layer 2 ACL.	When the value for this parameter is 2, the name of an IPv6 ACL must be specified. When the value for this parameter is 3, the name of a Layer 2 ACL must be specified.
Ipv6ACLName	Name of the ACL used to control Telnet logins when the Ipv6ACLVersion parameter is specified	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with a letter. To avoid confusion, the ACL name cannot be **all**.
Ipv4Port	IPv4 Telnet service port number	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default: 23.	N/A
Ipv6Port	IPv6 Telnet service port number	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default: 23.	N/A

Contents

TELNET 1
TELNET/Server 1

TELNET

TELNET/Server

Message	Explanation
Failed to enable the Telnet server. 使能TELNET server失败.	When the Telnet service port number has been used by other services, enabling the Telnet server is not supported.
Failed to specify the ACL. 配置ACL失败.	If the ACL configuration cannot be processed by the daemon of Telnet, the specified ACL configuration will fail.
Failed to specify the DSCP. 配置DSCP失败.	If the DSCP configuration cannot be processed by the daemon of Telnet, the specified DSCP configuration will fail.
Failed to specify the port. 配置端口失败.	The port number used by any other service cannot be specified.
You cannot specify both an ACL number and an ACL name in one operation. ACL名称和ACL编号不能一起下发。	You cannot specify both an ACL number and an ACL name in one operation.
You must specify the ACL type and ACL name in pairs and make sure the type of the specified ACL is consistent with the specified type. ACL名称和ACL类型必须一起下发。	To specify an ACL by its name, you must specify both Ipv4ACLName and Ipv4ACLVersion, or both Ipv6ACLName and Ipv6ACLVersion.

Contents

TimeRange 1
TimeRange/TimeRanges 1
XML structure 1
Table description 1
Columns 1
TimeRange/AbsRanges 1
XML structure 1
Table description 2
Columns 2
TimeRange/PerRanges 3
XML structure 3
Table description 4
Columns 4
O06/time_object 6
XML structure 7
Table description 7
Columns 7

TimeRange

TimeRange/TimeRanges

This table contains time range information.

XML structure

```
<TimeRange>
  <TimeRanges>
    <Range>
      <Name></Name>
    </Range>
  </TimeRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	TimeRanges
Table type	Multi-instance table
Row name	Range
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	The time range name cannot be **all**.

TimeRange/AbsRanges

This table contains information about absolute time range statements.

XML structure

```
<TimeRange>
```

```
  <AbsRanges>
    <AbsRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <Start>
        <StartTime></StartTime>
        <StartDate></StartDate>
      </Start>
      <End>
        <EndTime></EndTime>
        <EndDate></EndDate>
      </End>
    </AbsRange>
  </AbsRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	AbsRanges
Table type	Multi-instance table
Row name	AbsRange
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	You must create a time range before you create, merge, or replace statements for it.
ID	Absolute statement ID	Index	Unsigned integer. Value range: 1 to 12.	If you set this column to 0, the system automatically assigns a new statement ID. This statement ID is the smallest available integer in the range of 1 to 12.

Column name	Column description	Column type	Data type and restrictions	Remarks
Start	Start time and date of an absolute statement	Data structure	Members include: • StartTime. • StartDate.	• You cannot specify a start time and date when you remove or delete a statement. • You must specify a start time and date when you create, merge, or replace a statement.
StartTime	Start time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 23:59:59.	N/A
StartDate	Start date of an absolute statement	N/A	String. Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
End	End time and date of an absolute statement	Data structure	Members include: • EndTime. • EndDate.	• You cannot specify an end time and date when you remove or delete a statement. • You must specify an end time and date when you create, merge, or replace a statement.
EndTime	End time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	N/A
EndDate	End date of an absolute statement	N/A	String. Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

TimeRange/PerRanges

This table contains information about periodic time range statements.

XML structure

```
<TimeRange>
  <PerRanges>
    <PerRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <StartTime></StartTime>
```

```
      <EndTime></EndTime>
      <StartDay></StartDay>
      <EndDay></EndDay>
      <PeriodStartTime></PeriodStartTime>
      <PeriodEndTime></PeriodEndTime>
      <PeriodType></PeriodType>
      <DayOfWeek>
        <Sun></Sun>
        <Mon></Mon>
        <Tue></Tue>
        <Wed></Wed>
        <Thu></Thu>
        <Fri></Fri>
        <Sat></Sat>
      </DayOfWeek>
    </PerRange>
  </PerRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	PerRanges
Table type	Multi-instance table
Row name	PerRange
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	You must create a time range before you create, merge, or replace statements for it.
ID	Periodic statement ID	Index	Unsigned integer. Value range: 1 to 32.	If you set this column to 0, the system automatically assigns a new statement ID. This statement ID is the smallest available integer in the range of 1 to 32.

Column name	Column description	Column type	Data type and restrictions	Remark
StartTime	Start time of a periodic statement	N/A	String. Format: hh:mm or hh:mm:ss. Value range: 00:00 to 24:00 or 00:00:00 to 24:00:00.	• You cannot specify a start time when you remove or delete a statement. • You must specify a start time when you create, merge, or replace a statement. • Start time must be smaller than end time. • The value of this column is valid if PeriodType is not specifed.
EndTime	End time of a periodic statement	N/A	String. Format: hh:mm or hh:mm:ss. Value range: 00:00 to 24:00 or 00:00:00 to 24:00:00.	• You cannot specify an end time when you remove or delete a statement. • You must specify an end time when you create, merge, or replace a statement. • End time must be greater than start time. • The value of this column is valid if PeriodType is not specifed.
StartDay	Start day of a periodic statement	N/A	Unsigned integer. Value range: If **PeriodType** is week, the value range is 0 (0 is Sunday) to 6; if **PeriodType** is month, the value range is 1 to 31.	• The value of this column is valid if PeriodType is specifed.
EndDay	End day of a periodic statement	N/A	Unsigned integer. Value range: If **PeriodType** is week, the value range is 0 (0 is Sunday) to 6; if **PeriodType** is month, the value range is 1 to 31.	• The value of this column is valid if PeriodType is specifed.
PeriodStartTime	Start time of a periodic statement configured by week or month.	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	• The value of this column is valid if PeriodType is specifed.
PeriodEndTime	End time of a periodic statement configured by week or month.	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	• The value of this column is valid if PeriodType is specifed.

Column name	Column description	Column type	Data type and restrictions	Remark
PeriodType	Periodic time range type	N/A	Enumeration: • **1**—week. • **2**—month.	• If this column is not specifed, the periodic time type is day.
DayOfWeek	Day of the week	Data structure	Members include: • Sun. • Mon. • Tue. • Wed. • Thu. • Fri. • Sat.	• You cannot specify any day of the week when you remove or delete a statement. • You must specify at least one day of the week when you create, merge, or replace a statement. • The value of this column is valid if PeriodType is not specifed.
Sun	Sunday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Mon	Monday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Tue	Tuesday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Wed	Wednesday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Thu	Thursday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Fri	Friday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A
Sat	Saturday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).	N/A

O06/time_object

This table contains information about yundi O06.

XML structure

```
<O06>
  <time_object>
    <data>
      <time_object_id></time_object_id>
      <tenant_id></tenant_id>
      <start_time></start_time>
      <end_time></end_time>
      <period_type></period_type>
      <period_start_time></period_start_time>
      <period_end_time></period_end_time>
      <name></name>
      <description></description>
    </data>
  </time_object>
</O06>
```

Table description

Item	Description
Feature name	O06
Table name	time_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
time_object_id	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
tenant_id	Tenant ID	N/A	String, case-insensitive. Length: 1 to 63 characters.
start_time	Start time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.

Column name	Column description	Column type	Data type and restrictions
end_time	End time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.
period_type	Periodic time range type	N/A	Members include: • day. • week. • month.
period_start_time	Start time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.
period_end_time	End time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.
name	Name of a time range	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description of a time range	N/A	String, case-insensitive. Length: 1 to 127 characters.

Contents

TimeRange 1

TimeRange/TimeRanges 1
XML structure 1
Table description 1
Columns 1
TimeRange/AbsRanges 2
XML structure 2
Table description 2
Columns 2
TimeRange/PerRanges 3
XML structure 3
Table description 4
Columns 4
O06/time_object 6
XML structure 6
Table description 6
Columns 7
O06/time_objects 8
XML structure 8
Table description 9
Columns 9

TimeRange

TimeRange/TimeRanges

This table contains time range information.

XML structure

```
<TimeRange>
  <TimeRanges>
    <Range>
      <Name></Name>
      <Status></Status>
      <Inuse></Inuse>
    </Range>
  </TimeRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	TimeRanges
Table type	Multi-instance table
Row name	Range
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
Status	Time range status	N/A	Enumeration: • **1**—Active. • **2**—Inactive.
Inuse	Application status	N/A	Boolean: • **true**—In use. • **false**—Not in use.

TimeRange/AbsRanges

This table contains information about absolute time range statements.

XML structure

```
<TimeRange>
  <AbsRanges>
    <AbsRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <Start>
        <StartTime></StartTime>
        <StartDate></StartDate>
      </Start>
      <End>
        <EndTime></EndTime>
        <EndDate></EndDate>
      </End>
    </AbsRange>
  </AbsRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	AbsRanges
Table type	Multi-instance table
Row name	AbsRange
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	N/A
ID	Absolute statement ID	Index	Unsigned integer. Value range: 1 to 12.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Start	Start time and date of an absolute statement	Data structure	Members include: • StartTime. • StartDate.	The two members must both be specified.
StartTime	Start time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 23:59:59.	N/A
StartDate	Start date of an absolute statement.	N/A	String. Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
End	End time and date of an absolute statement	Data structure	Members include: • EndTime. • EndDate.	The two members must both be specified.
EndTime	End time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	N/A
EndDate	End date of an absolute statement	N/A	String. Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

TimeRange/PerRanges

This table contains information about periodic time range statements.

XML structure

```
<TimeRange>
  <PerRanges>
    <PerRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <StartDay></StartDay>
      <EndDay></EndDay>
      <PeriodStartTime></PeriodStartTime>
      <PeriodEndTime></PeriodEndTime>
      <PeriodType></PeriodType>
      <DayOfWeek>
        <Sun></Sun>
        <Mon></Mon>
```

```
        <Tue></Tue>
        <Wed></Wed>
        <Thu></Thu>
        <Fri></Fri>
        <Sat></Sat>
      </DayOfWeek>
    </PerRange>
  </PerRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	PerRanges
Table type	Multi-instance table
Row name	PerRange
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
ID	Periodic statement ID	Index	Unsigned integer. Value range: 1 to 32.
StartTime	Start time of a periodic statement	N/A	String. Format: hh:mm or hh:mm:ss. Value range: 00:00 to 24:00 or 00:00:00 to 24:00:00.
EndTime	End time of a periodic statement	N/A	String. Format: hh:mm or hh:mm:ss. Value range: 00:00 to 24:00 or 00:00:00 to 24:00:00.
StartDay	Start day of a periodic statement	N/A	Unsigned integer. Value range: If **PeriodType** is week, the value range is 0 (0 is Sunday) to 6; if **PeriodType** is month, the value range is 1 to 31. The value of this column is valid if **PeriodType** is specifed.

Column name	Column description	Column type	Data type and restrictions
EndDay	End day of a periodic statement	N/A	Unsigned integer. Value range: If **PeriodType** is week, the value range is 0 (0 is Sunday) to 6; if **PeriodType** is month, the value range is 1 to 31. The value of this column is valid if **PeriodType** is specifed.
PeriodStartTime	Start time of a periodic statement configured by week or month.	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00. The value of this column is valid if **PeriodType** is specifed.
PeriodEndTime	End time of a periodic statement configured by week or month.	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00. The value of this column is valid if **PeriodType** is specifed.
PeriodType	Periodic time range type	N/A	Enumeration: • **1**—week. • **2**—month. If this column is not specifed, the periodic time type is day.
DayOfWeek	Day of the week	Data structure	Members include: • Sun. • Mon. • Tue. • Wed. • Thu. • Fri. • Sat. The value of this column is valid if **PeriodType** is not specifed.
Sun	Sunday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).
Mon	Monday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).
Tue	Tuesday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).
Wed	Wednesday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).

Column name	Column description	Column type	Data type and restrictions
Thu	Thursday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).
Fri	Friday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).
Sat	Saturday	N/A	Boolean: • **true**—Specified. • **false**—Not specified (default).

O06/time_object

This table contains information about yundi O06.

XML structure

```
<O06>
  <time_object>
    <data>
      <time_object_id></time_object_id>
      <tenant_id></tenant_id>
      <start_time></start_time>
      <end_time></end_time>
      <period_type></period_type>
      <period_start_time></period_start_time>
      <period_end_time></period_end_time>
      <name></name>
      <description></description>
    </data>
  </time_object>
</O06>
```

Table description

Item	Description
Feature name	O06
Table name	time_object
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
time_object_id	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
tenant_id	Tenant ID	N/A	String, case-insensitive. Length: 1 to 63 characters.
start_time	Start time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.
end_time	End time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.
period_type	Periodic time range type	N/A	Members include: • day. • week. • month.
period_start_time	Start time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.

Column name	Column description	Column type	Data type and restrictions
period_end_time	End time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.
name	Name of a time range	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description of a time range	N/A	String, case-insensitive. Length: 1 to 127 characters.

O06/time_objects

This table contains information about yundi O06 for getbulk.

XML structure

```
<O06>
  <time_objects>
    <data>
      <result>
        <time_object_id></time_object_id>
        <tenant_id></tenant_id>
        <start_time></start_time>
        <end_time></end_time>
        <period_type></period_type>
        <period_start_time></period_start_time>
        <period_end_time></period_end_time>
        <name></name>
        <description></description>
      </result>
    </data>
  </time_objects>
</O06>
```

Table description

Item	Description
Feature name	O06
Table name	time_objects
Table type	Multi-instance table
Row name	data
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
time_object_id	Time range name	Index	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.
tenant_id	Tenant ID	N/A	String, case-insensitive. Length: 1 to 63 characters.
start_time	Start time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.
end_time	End time of an absolute statement (Unix time, a string of seconds from 1970/1/1 0:0)	N/A	String. Value range: 0 to 4134067200.
period_type	Periodic time range type	N/A	Members include: • day. • week. • month.
period_start_time	Start time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.

Column name	Column description	Column type	Data type and restrictions
period_end_time	End time of a periodic statement	N/A	String. Format: if period_type is day, the format is hh:mm:ss; if period_type is week, the format is day,hh:mm:ss, where the day can be a number or a day of the week; if period_type is month, the format is day, hh:mm:ss. Value range: if period_type is day,the value range is 00:00:00 to 24:00:00;if period_type is week, the value range is 0(or Sunday),00:00:00 to 6(or Saturday),24:00:00;if period_type is month, the value range is 1,00:00:00 to 31,24:00:00.
name	Name of a time range	N/A	String, case-insensitive. Length: 1 to 63 characters.
description	Description of a time range	N/A	String, case-insensitive. Length: 1 to 127 characters.

Contents

TimeRange 1
TimeRange 1

TimeRange

TimeRange

Message	Explanation
Invalid date or time settings. 配置中包含无效的日期和时间的设置。	The date or time entered is illegal. 输入的日期或时间是非法的。
The end time must be greater than the start time. 结束时间必须大于开始时间。	The end time entered is less than or equal to the start time. 输入的结束时间小于等于开始时间。
Maximum number of absolute statements already reached. 绝对时间段配置数达到上限。	The absolute number of configured times has reached the upper limit. 指配置的绝对时间数已经达到上限。
Maximum number of periodic statements already reached. 周期时间段配置数达到上限。	The periodic number of configured times has reached the upper limit. 配置的周期时间数已经达到上限。
Maximum number of time ranges already reached. 时间段配置数达到上限。	The configured number of time range names has reached the upper limit. 配置的时间段名称数已经达到上限。
At least one day of the week should be set for a periodic time range. 配置周期时间段时应至少指定一周中的一天。	The configured periodic time does not specify which day of the week. 配置周期时间时没有指定一周中哪天。
A time range with the same statements already exists. 相同的时间段配置已存在。	The same time range content has been configured. 已经配置了相同的时间段内容。

Contents

tnlm 1

tnlm/tunnelPolicys 1
XML structure 1
Table description 2
Columns 3
tnlm/tunnelPolicys/tunnelPolicy/PreferredPaths 3
Table description 4
Columns 4
tnlm/tunnelPolicys/tunnelPolicy/PreferredSRPolicys 4
Table description 4
Columns 5
tnlm/tunnelPolicys/tunnelPolicy/PreferredSRv6Policys 5
Table description 5
Columns 5
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops 5
Table description 6
Columns 6
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels 6
Table description 7
Columns 7
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6Nexthops 7
Table description 7
Columns 7
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopNames 8
Table description 8
Columns 8
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopColors 9
Table description 9
Columns 9
tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs 10
Table description 10
Columns 10

tnlm

tnlm/tunnelPolicys

This table contains information about tunnel policies.

XML structure

```
<tnlm>
  <tunnelPolicys>
    <tunnelPolicy>
      <tnlPolicyName></tnlPolicyName>
      <PreferredPaths>
        <PreferredPath>
          <PrePathType></PrePathType>
          <PrePathName></PrePathName>
          <PriorityLevel></PriorityLevel>
        </PreferredPath>
      </PreferredPaths>
      <PreferredSRPolicys>
        <PreferredSRPolicy>
          <EndPoint></EndPoint>
          <Color></Color>
          <PriorityLevel></PriorityLevel>
        </PreferredSRPolicy>
      </PreferredSRPolicys>
      <PreferredSRv6Policys>
        <PreferredSRv6Policy>
          <IPv6EndPoint></IPv6EndPoint>
          <Color></Color>
          <PriorityLevel></PriorityLevel>
        </PreferredSRv6Policy>
      </PreferredSRv6Policys>
      <tpNexthops>
        <tpNexthop>
          <nexthopIPaddr></nexthopIPaddr>
          <SRPolicyGroupID></SRPolicyGroupID>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
          <tpTunnels>
            <tpTunnel>
              <tunnelName></tunnelName>
            </tpTunnel>
          </tpTunnels>
        </tpNexthop>
      </tpNexthops>
```

```
      <tpIPv6Nexthops>
        <tpIPv6Nexthop>
          <nexthopIPv6addr></nexthopIPv6addr>
          <SRv6PolicyGroupID></SRv6PolicyGroupID>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6Nexthop>
      </tpIPv6Nexthops>
      <tpIPv6NexthopNames>
        <tpIPv6NexthopName>
          <nexthopIPv6addr></nexthopIPv6addr>
           <SRv6PolicyName ></SRv6PolicyName>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6NexthopName>
      </tpIPv6NexthopNames>
      <tpIPv6NexthopColors>
        <tpIPv6NexthopColor>
          <nexthopIPv6addr></nexthopIPv6addr>
          <IPv6EndPoint></IPv6EndPoint>
          <Color></Color>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6NexthopColor>
      </tpIPv6NexthopColors>
      <tnlSelSeqs>
        <tnlSelSeq>
          <loadBalanceNum></loadBalanceNum>
          <selTnlType1></selTnlType1>
          <selTnlType2></selTnlType2>
          <selTnlType3></selTnlType3>
          <selTnlType4></selTnlType4>
          <selTnlType5></selTnlType5>
          <selTnlType6></selTnlType6>
          <selTnlType7></selTnlType7>
          <selTnlType8></selTnlType8>
          <unmix></unmix>
        </tnlSelSeq>
      </tnlSelSeqs>
    </tunnelPolicy>
  </tunnelPolicys>
</tnlm>
```


Table description

Item	Description
Feature name	tnlm

Item	Description
Table name	tunnelPolicys
Table type	Multi-instance table
Row name	tunnelPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tnlPolicyName	Name of a tunnel policy	index	String, case-sensitive Length: 1 to 19 characters.	some product 1 to 126 characters.
PreferredPaths	List of preferred tunnel path	Sublist	N/A	N/A
PreferredSRPolicys	List of preferred sr policys	Sublist	N/A	N/A
PreferredSRv6Policys	List of preferred srv6 policys	Sublist	N/A	N/A
tpNexthops	List of tunnel binding destinations	Sublist	N/A	N/A
`tpIPv6Nexthops`	List of tunnel binding IPv6 destinations	Sublist	N/A	N/A
`tpIPv6NexthopNames`	List of tunnel binding SRv6 policy names	Sublist	N/A	N/A
`tpIPv6NexthopColors`	List of tunnel binding IPv6 end-point and colors	Sublist	N/A	N/A
tnlSelSeqs	Tunnel selection sequence	Subtable	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/PreferredPaths

This table contains preferred tunnel information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredPaths
Table type	Multi-instance table
Row name	PreferredPath
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrePathType	Preferred tunnel type.	Index	Enumeration: • 0—TUNNEL. • 1—TUNNEL-BUNDLE. • 2—SR-POLICY. • 3—SRV6-POLICY.	NA
PrePathName	Preferred path name.	index	String. Length: 1 to 59 characters.	When the tunnel type is TUNNEL or TUNNEL-BUNDLE, the PrePathName has to be a number
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/PreferredSRPolicys

This table contains preferred SR Policy information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredSRPolicys
Table type	Multi-instance table
Row name	PreferredSRPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EndPoint	IP address	Index	String,dotted decimal notation.	Example: 1.1.1.1.
Color	Color value	Index	Unsigned integer. Value range:0 to 4294967295.	N/A
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/PreferredSRv6Policys

This table contains preferred SRv6 Policy information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredSRv6Policys
Table type	Multi-instance table
Row name	PreferredSRv6Policy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6EndPoint	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1::1.
Color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpNexthops
Table type	Multi-instance table
Row name	tpNexthop
Restrictions	NA
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPaddr	Destination IP address	index	String,dotted decimal notation	N/A
`SRPolicyGroupID`	SR-TE policy group ID	index	Unsigned integer. Value range: 0 to 4294967295.	When the SRPolicyGroupID is 0 and the operation is create or merge or replace, tpTunnels list-table is necessary.
downSwitch	Enable tunnel switching	N/A	Boolean • true. • false (default)	After tunnel switching is enabled, if the bound TE tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the TE tunnel matches the bound destination address specified	N/A	Boolean • true • false (default)	
tpTunnels	List of tunnels bound to the specified destination IP address	Sublist	N/A	When the SRPolicyGroupID is 0 and the operation is create or merge or replace,this table is necessary.

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels

This table contains information about the tunnels bound to a destination address. The table is a subtable of tpNexthop.

Table description

Item	Description
Feature name	tnlm
Table name	tpTunnels
Table type	Multi-instance table
Row name	tpTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	Name of the tunnel	index	String. Length: 2 to 47 characters.	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6Nexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6Nexthops
Table type	Multi-instance table
Row name	tpIPv6Nexthop
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
`SRv6PolicyGroupID`	SRv6-TE policy group ID	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4294967295.	
downSwitch	Enable tunnel switching	N/A	Boolean • true. • false (default)	After tunnel switching is enabled, if the bound SRv6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false(default)	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopNames

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6NexthopNames
Table type	Multi-instance table
Row name	tpIPv6NexthopName
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
SRv6PolicyName	Srv6 policy name	Index	String. Length: 1 to 59 characters.	
downSwitch	Enable tunnel switching	N/A	Boolean	After tunnel switching

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true. • false(default)	is enabled, if the bound SRV6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false(default)	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopColors

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6NexthopColors
Table type	Multi-instance table
Row name	tpIPv6NexthopColor
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
IPv6EndPoint	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
downSwitch	Enable tunnel switching	N/A	Boolean • true. • false (default)	After tunnel switching is enabled, if the bound SRv6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false(default)	N/A

tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs

This table contains tunnel selection sequence information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tnlSelSeqs
Table type	Multi-instance table
Row name	tnlSelSeq
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
loadBalanceNum	Number of tunnels for load sharing	N/A	Unsigned integer. The value range varies by device model.	N/A
selTnlType1	Sequence in which different types of tunnels are selected	N/A	String	• invalid • lsp • cr-lsp • gre
selTnlType2				
selTnlType3				
selTnlType4				

Column name	Column description	Column type	Data type and restrictions	Remarks
selTnlType5				• srbe-lsp • srpolicy • srv6policy • srv6policygroup • flexalgolsp
selTnlType6				
selTnlType7				
selTnlType8				
unmix	Use the same type of tunnels for load balancing	N/A	Boolean • true • false (default)	N/A

Contents

tnlm 1

tnlm/tunnelPolicys 1
XML structure 1
Table description 2
Columns 3
tnlm/tunnelPolicys/tunnelPolicy/PreferredPaths 3
Table description 4
Columns 4
tnlm/tunnelPolicys/tunnelPolicy/PreferredSRPolicys 4
Table description 4
Columns 5
tnlm/tunnelPolicys/tunnelPolicy/PreferredSRv6Policys 5
Table description 5
Columns 5
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops 5
Table description 6
Columns 6
tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels 6
Table description 7
Columns 7
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6Nexthops 7
Table description 7
Columns 7
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopNames 8
Table description 8
Columns 8
tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopColors 9
Table description 9
Columns 9
tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs 10
Table description 10
Columns 10
tnlm/namedTunnelInfos 11
XML structure 11
Table description 11
Columns 11

tnlm

tnlm/tunnelPolicys

This table contains information about tunnel policies.

XML structure

```
<tnlm>
  <tunnelPolicys>
    <tunnelPolicy>
      <tnlPolicyName></tnlPolicyName>
      <PreferredPaths>
        <PreferredPath>
          <PrePathType></PrePathType>
          <PrePathName></PrePathName>
          <PriorityLevel></PriorityLevel>
        </PreferredPath>
      </PreferredPaths>
      <PreferredSRPolicys>
        <PreferredSRPolicy>
          <EndPoint></EndPoint>
          <Color></Color>
          <PriorityLevel></PriorityLevel>
        </PreferredSRPolicy>
      </PreferredSRPolicys>
      <PreferredSRv6Policys>
        <PreferredSRv6Policy>
          <IPv6EndPoint></IPv6EndPoint>
          <Color></Color>
          <PriorityLevel></PriorityLevel>
        </PreferredSRv6Policy>
      </PreferredSRv6Policys>
      <tpNexthops>
        <tpNexthop>
          <nexthopIPaddr></nexthopIPaddr>
          <SRPolicyGroupID></SRPolicyGroupID>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
          <tpTunnels>
            <tpTunnel>
              <tunnelName></tunnelName>
            </tpTunnel>
          </tpTunnels>
        </tpNexthop>
      </tpNexthops>
```

```
      <tpIPv6Nexthops>
        <tpIPv6Nexthop>
          <nexthopIPv6addr></nexthopIPv6addr>
          <SRv6PolicyGroupID></SRv6PolicyGroupID>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6Nexthop>
      </tpIPv6Nexthops>
      <tpIPv6NexthopNames>
        <tpIPv6NexthopName>
          <nexthopIPv6addr></nexthopIPv6addr>
          <SRv6PolicyName></SRv6PolicyName>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6NexthopName>
      </tpIPv6NexthopNames>
      <tpIPv6NexthopColors>
        <tpIPv6NexthopColor>
          <nexthopIPv6addr></nexthopIPv6addr>
          <IPv6EndPoint></IPv6EndPoint>
          <Color></Color>
          <downSwitch></downSwitch>
          <ignoreDestCheck></ignoreDestCheck>
        </tpIPv6NexthopColor>
      </tpIPv6NexthopColors>
      <tnlSelSeqs>
        <tnlSelSeq>
          <loadBalanceNum></loadBalanceNum>
          <selTnlType1></selTnlType1>
          <selTnlType2></selTnlType2>
          <selTnlType3></selTnlType3>
          <selTnlType4></selTnlType4>
          <selTnlType5></selTnlType5>
          <selTnlType6></selTnlType6>
         <selTnlType7></selTnlType7>
         <selTnlType8></selTnlType8>
          <unmix></unmix>
        </tnlSelSeq>
      </tnlSelSeqs>
    </tunnelPolicy>
  </tunnelPolicys>
</tnlm>
```


Table description

Item	Description
Feature name	tnlm

Item	Description
Table name	tunnelPolicys
Table type	Multi-instance table
Row name	tunnelPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tnlPolicyName	Name of a tunnel policy	index	String, case-sensitive Length: 1 to 19 characters.	Some products 1-126 characters.
PreferredPaths	List of preferred tunnel path	Sublist	N/A	N/A
PreferredSRPolicys	List of preferred sr policys	Sublist	N/A	N/A
PreferredSRv6Policys	List of preferred srv6 policys	Sublist	N/A	N/A
tpNexthops	List of tunnel binding destinations	Sublist	N/A	N/A
`tpIPv6Nexthops`	List of tunnel binding IPv6 destinations	Sublist	N/A	N/A
`tpIPv6NexthopNames`	List of tunnel binding SRv6 policy names	Sublist	N/A	N/A
`tpIPv6NexthopColors`	List of tunnel binding IPv6 end-point and colors	Sublist	N/A	N/A
tnlSelSeqs	Tunnel selection sequence	Subtable	N/A	N/A

tnlm/tunnelPolicys/tunnelPolicy/PreferredPaths

This table contains preferred tunnel information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredPaths
Table type	Multi-instance table
Row name	PreferredPath
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrePathType	Preferred tunnel type.	Index	Enumeration: • 0—TUNNEL. • 1—TUNNEL-BUNDLE. • 2—SR-POLICY. • 3—SRV6-POLICY.	NA
PrePathName	Preferred path name.	index	String. Length: 1 to 59 characters.	When the tunnel type is TUNNEL or TUNNEL-BUNDLE, the PrePathName has to be a number
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/PreferredSRPolicys

This table contains preferred SR Policy information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredSRPolicys
Table type	Multi-instance table
Row name	PreferredSRPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EndPoint	IP address	Index	String,dotted decimal notation.	Example: 1.1.1.1.
Color	Color value	Index	Unsigned integer. Value range:0 to 4294967295.	N/A
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/PreferredSRv6Policys

This table contains preferred SRv6 Policy information in a tunnel policy.

Table description

Item	Description
Feature name	TNLM
Table name	PreferredSRv6Policys
Table type	Multi-instance table
Row name	PreferredSRv6Policy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6EndPoint	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1::1.
Color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer. Value range: 0~65534	A smaller number has a higher priority.

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpNexthops
Table type	Multi-instance table
Row name	tpNexthop
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPaddr	Destination IP address	index	String,dotted decimal notation	N/A
`SRPolicyGroupID`	SR-TE policy group ID	index	Unsigned integer. Value range: 0 to 4294967295.	When the SRPolicyGroupID is 0 and the operation is create or merge or replace, tpTunnels list-table is necessary.
downSwitch	Enable tunnel switching	N/A	Boolean • true. • false	After tunnel switching is enabled, if the bound TE tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the TE tunnel matches the bound destination address specified	N/A	Boolean • true • false	N/A
tpTunnels	List of tunnels bound to the specified destination IP address	Sublist	N/A	When the SRPolicyGroupID is 0 and the operation is create or merge or replace,this table is necessary.

tnlm/tunnelPolicys/tunnelPolicy/tpNexthops/tpNexthop/tpTunnels

This table contains information about the tunnels bound to a destination address. The table is a subtable of tpNexthop.

Table description

Item	Description
Feature name	tnlm
Table name	tpTunnels
Table type	Multi-instance table
Row name	tpTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelName	Name of the tunnel	index	String. Length: 2 to 47 characters.	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6Nexthops

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6Nexthops
Table type	Multi-instance table
Row name	tpIPv6Nexthop
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
`SRv6PolicyGroupID`	SRv6-TE policy group ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
downSwitch	Enable tunnel switching	N/A	Boolean • true. • false	After tunnel switching is enabled, if the bound SRv6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopNames

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6NexthopNames
Table type	Multi-instance table
Row name	tpIPv6NexthopName
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
SRv6PolicyName	Srv6 policy name	Index	String. Length: 1 to 59 characters.	
downSwitch	Enable tunnel switching	N/A	Boolean • true.	After tunnel switching is enabled, if the

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false	bound SRV6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false	N/A

tnlm/tunnelPolicys/tunnelPolicy/tpIPv6NexthopColors

This table contains destination-to-tunnels binding information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tpIPv6NexthopColors
Table type	Multi-instance table
Row name	tpIPv6NexthopColor
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
nexthopIPv6addr	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
IPv6EndPoint	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Color	Color value	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
downSwitch	Enable tunnel switching	N/A	Boolean	After tunnel switching

Column name	Column description	Column type	Data type and restrictions	Remarks
			• true. • false	is enabled, if the bound SRv6 policy tunnels are unavailable, the system will switch to an available tunnel using another tunnel selection method of the tunnel policy.
ignoreDestCheck	Do not check whether the destination address of the SRv6 policy tunnel matches the bound destination address specified	N/A	Boolean • true • false	N/A

tnlm/tunnelPolicys/tunnelPolicy/tnlSelSeqs

This table contains tunnel selection sequence information of a tunnel policy. The table is a subtable of tunnelPolicy.

Table description

Item	Description
Feature name	tnlm
Table name	tnlSelSeqs
Table type	Multi-instance table
Row name	tnlSelSeq
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
loadBalanceNum	Number of tunnels for load sharing	N/A	Unsigned integer. The value range varies by device model.	N/A
selTnlType1	Sequence in which different types of tunnels are selected	N/A	String	• invalid • lsp • cr-lsp • gre • srbe-lsp • srpolicy
selTnlType2				
selTnlType3				
selTnlType4				
selTnlType5				
selTnlType6				

Column name	Column description	Column type	Data type and restrictions	Remarks
selTnlType7				• srv6policy • srv6policygroup • flexalgolsp
selTnlType8				
unmix	Use the same type of tunnels for load balancing	N/A	Boolean • true • false	N/A

tnlm/namedTunnelInfos

This table contains information about tunnels that have a tunnel name.

XML structure

```
<tnlm>
  <namedTunnelInfos>
    <namedTunnelInfo>
      <tunnelType></tunnelType>
      <tunnelName></tunnelName>
      <ipv4Destination></ipv4Destination>
      <referedByPolicy></referedByPolicy>
    </namedTunnelInfo>
  </namedTunnelInfos>
</tnlm>
```

Table description

Item	Description
Feature name	tnlm
Table name	namedTunnelInfos
Table type	Multi-instance table
Row name	namedTunnelInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
tunnelType	Tunnel type	Index	Enumeration: • 0—TUNNEL.	NA

tunnelName	Tunnel name	Index	String. Length: 1 to 59 characters.	When the tunnel type is TUNNEL or TUNNEL, the tunnelName must be a number.
ipv4Destination	IPv4 destination address of the tunnel	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
referedByPolicy	The tunnel is used in at least one tunnel policy	N/A	Boolean: • true • false	N/A

Contents

Tracert 1
Tracert/IPv4Tracert 1
XML structure 1
Responsed XML structure 1
Table description 2
Columns 2
Responsed columns 3
Tracert/IPv4TracertDisable 5
XML structure 5
Table description 5
Columns 5

Tracert

Tracert/IPv4Tracert

This table contains tracert information. Tracert traces the path that the IPv4 packets traverse from source to destination.

XML structure

```
<Tracert>
  <IPv4Tracert>
    <TracertTest>
      <Host></Host>
      <VRF></VRF>
      <OutputInterface></OutputInterface>
      <SourceIpAddress></SourceIpAddress>
      <ReplyTimeOut></ReplyTimeOut>
      <SendPacketsNum></SendPacketsNum>
      <MaxTTLValue></MaxTTLValue>
      <FirstTTLValue></FirstTTLValue>
      <DestPort></DestPort>
      <DestPortFixed></DestPortFixed>
    </TracertTest>
  </IPv4Tracert>
</Tracert>
```

Responsed XML structure

```
<Tracert>
  <IPv4Tracert>
    <TracertTest>
      <Host></Host>
      <PayloadLength></PayloadLength>
      <Hops></Hops>
      <TracertReply>
        <IcmpSequence></IcmpSequence>
        <PassthroughRouter></PassthroughRouter>
        <ReplyTime></ReplyTime>
        <UnreachableReason></UnreachableReason>
      </TracertReply>
      <MPLS>
        <Label></Label>
        <Exp></Exp>
        <TTLValue></TTLValue>
        <Sign></Sign>
      </MPLS>
```

```
      <TestResult></TestResult>
    </TracertTest>
  </IPv4Tracert>
</Tracert>
```

Table description

Item	Description
Feature name	Tracert
Table name	IPv4Tracert
Table type	Multi-instance table
Row name	TracertTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address or host name of a remote system	Index	String. Length: 1 to 253 characters.	Example: 1.1.1.1 or host name.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OutputInterface	Name of the outgoing interface	N/A	String. Length: 0 to 46 characters.	An empty string indicates that no outgoing interface is specified.
SourceIpAddress	Source Ip address	N/A	String IPv4 address	Example: 1.1.1.1
ReplyTimeOut	Wait time for each reply	N/A	Unsigned integer. Value range: 1 to 65535 milliseconds. Default is 5000 milliseconds.	N/A
SendPacketsNum	Number of probe packets sent each time	N/A	Unsigned integer. Value range: 1 to 65535. Default is 3.	If the value is too big, the system might fail to return the probe result because of packet timeout or fail to perform the ping operation. As a best practice, use a value that does not exceed 1009.
MaxTTLValue	Maximum TTL value	N/A	Unsigned integer. Value range: 1 to 255. Default is 30.	Maximum TTL value must greater than or equal to TTL value for the first packet.
FirstTTLValu	TTL value for the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
e	first packet		Value range: 1 to 255. Default is 1.	
DestPort	Destination UDP port number	N/A	Unsigned integer. Value range: 1 to 65535. Default is 33434.	Destination UDP port must be greater or equal to 33434 when the destination is EID address of remote LISP site.
DestPortFixed	Whether to use a fixed destination port number	N/A	EnableState: • **true**—The destination port number is fixed. • **false**—The destination port number is not fixed.	Firewall evasion mode. Use fixed destination ports for UDP, UDP-Lite, TCP and SCTP probes. The destination port does not increment with each packet sent.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address of the remote system	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Hops	Maximum hop limit	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PayloadLength	Payload length	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TracertReply	Tracert reply information	Data structure	Members include: • Sequence. • PassthroughRouter. • ReplyTime.	N/A
IcmpSequence	Reply sequence	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PassthroughRouter	Path that the packets pass through	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
ReplyTime	Response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If the value is 4294967295, the reply has timed out.
UnreachableReason	Reasons for destination unreachable	N/A	String. Length: 1 to 16 characters	An empty string indicates that the test result is normal. **!**N—Network unreachable. !H—Destination host unreachable. !**P**—Protocol

Column name	Column description	Column type	Data type and restrictions	Remarks
				unreachable. The protocol number is unknown. **!F**—Fragmentation needed. !W—Destination host unknown. !Q—Network unreachable for ToS. !T—Host unreachable for ToS. !X—Communication administratively prohibited by filtering policies. !V—Host precedence violation. !C—Precedence cutoff in effect. !S—Source route failed. !U—Unknown net. !I—Source host isolated. !A—Prohibited access net. !Z—Prohibited access host. !*Code*—Other reason. !—Port unreachable but ttl is bad
TestResult	Test result	N/A	Boolean: • **true**—Successful. • **false**—Failed.	If the tracert operator does not receive a reply within 25 seconds, the tracert operation fails. If the value is false, the destination is not reachable after the maximum number of hops has reached.
MPLS	MPLS information	Data structure	Members include: • Label. • Exp. • TTLValue. • Sign.	If the probe packets do not pass through an MPLS network, this structure is not available. If the MPLS network that the probe packets pass through supports multiple levels of labels, this structure will display information about each label.
Label	Label value that	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	is used to identify a forwarding equivalence class (FEC)		Value range: 0 to 1048575.	
Exp	Class of service (CoS)	N/A	Unsigned char.	N/A
TTLValue	TTL value	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Sign	Sign for the bottom label	N/A	Boolean: • **true**—The label is at the bottom of the label stack. • **false**—The label is not at the bottom of the label stack.	N/A

Tracert/IPv4TracertDisable

Use this table to stop IPv4 tracert operations.

XML structure

```
<Tracert>
  <IPv4TracertDisable>
    <TracertDisable>
      <Name></Name>
      <Sequence></Sequence>
    </TracertDisable>
  </IPv4TracertDisable>
</Tracert>
```

Table description

Item	Description
Feature name	Tracert
Table name	IPv4TracertDisable
Table type	Multi-instance table
Row name	TracertDisable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the NETCONF client	Index	String.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 64 characters.
Sequence	Sequence of the NETCONF client	Index	Unsigned integer. Value range: 1 to 4294967295.

Contents

Tracert 1
Tracert/IPv4Tracert 1
Tracert/TracertDisable 1
Tracert/TracertEvent 1

Tracert

Tracert/IPv4Tracert

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
Invalid destination address. 非法的目的地址。	The specified destination address cannot be a multicast address or a broadcast address or all 0s.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
Unknown source host. 未知源主机。	The specified source host must exist.
First TTL limit can’t be greater than the max TTL limit. 最大TTL的值应大于或等于初始TTL。	First TTL limit can’t be greater than the max TTL limit.
The destination was not found after the maximum number of hops was reached. 最大跳数内目标不可达。	The destination was not found after the maximum number of hops was reached.

Tracert/TracertDisable

Message	Explanation
The specified object doesn’t exist. 指定的对象不存在。	The specified object deing deleted is not exist.

Tracert/TracertEvent

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
Invalid destination address. 非法的目的地址。	The specified destination address cannot be a multicast address or a broadcast address or all 0s.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.

Unknown source host. 未知源主机。	The specified source host must exist.
First TTL limit can’t be greater than the max TTL limit. 最大TTL的值应大于或等于初始TTL。	First TTL limit can’t be greater than the max TTL limit.
The destination was not found after the maximum number of hops was reached. 最大跳数内目标不可达。	The destination was not found after the maximum number of hops was reached.
The specified object already exists. 指定的对象已存在。	The specified object already exists.
Destination was not found possibly because the operation was disabled. 目标不可达可能是因为操作被终止。	Destination was not found possibly because the operation was disabled.

Contents

Tracert 1
Tracert event 1
XML structure for event subscription 1
XML structure for event report 4

Tracert

Tracert event

This table is used to tracert traces the path that the IPv4 packets traverse from source to destination.

XML structure for event subscription

```
<TracertEvent>
  <TracertInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <VRF></VRF>
    <OutputInterface></OutputInterface>
    <SourceIpAddress></SourceIpAddress>
    <ReplyTimeOut></ReplyTimeOut>
    <SendPacketsNum></SendPacketsNum>
    <MaxTTLValue></MaxTTLValue>
    <FirstTTLValue></FirstTTLValue>
    <DestPort></DestPort>
    <DestPortFixed></DestPortFixed>
  </TracertInfo>
</TracertEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TRACERT</stream>
    <filter type="subtree">
      <TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/tracert:1.0">
        <TracertInfo>
          <Name>aaa</Name>
          <Sequence>1</Sequence>
          <Host>1.1.1.1</Host>
          <VRF>vpn1</VRF>
          <OutputInterface>GigabitEthernet0/0/1</OutputInterface>
          <SourceIpAddress>1.1.1.2</SourceIpAddress>
          <ReplyTimeOut>200</ReplyTimeOut>
          <SendPacketsNum>100</SendPacketsNum>
          <MaxTTLValue>100</MaxTTLValue>
          <FirstTTLValue>10</FirstTTLValue>
          <DestPort>2222</DestPort>
```

```
      </TracertInfo>
    </TracertEvent>
  </filter>
 </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TRACERT
Event name	TracertEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/tracert:1.0
Support for extended query	No

Columns

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
Name	The name of Netconf Client	String. Length: 1 to 64 characters.	No
Sequence	The Sequence of Netconf Client	Unsigned integer. Value range: 1 to 4294967295	No
Host	IPv4 address or hostname of a remote system	String. Length: 1 to 253 characters.	No
VRF	VPN instance name	String. Length: 0 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
SourceIpAddress	Source IPv4 address of echo requests	IPv4: String, dotted decimal notation.	No
ReplyTimeOut	Wait time for each reply	Unsigned integer. Value range: 1 to 65535 milliseconds. Default is 5000 milliseconds.	No
SendPacketsNum	Number of probe packets sent each time	Unsigned integer. Value range: 1 to 65535. Default is 3.	No
MaxTTLValue	Maximum TTL value	Unsigned integer. Value range: 1 to 255. Default is 30.	No
FirstTTLValue	TTL value for the first packet	Unsigned integer. Value range: 1 to 255. Default is 1.	No
DestPort	Destination UDP port number	Unsigned integer. Value range: 1 to 65535. Default is 33434.	No

Column name	**Column description**	**Data type and restrictions**	**Support for extended queries**
DestPortFixed	Whether to use a fixed destination port number	EnableState: • **true**—The destination port number is fixed. • **false**—The destination port number is not fixed.	Firewall evasion mode. Use fixed destination ports for UDP, UDP-Lite, TCP and SCTP probes. The destination port does not increment with each packet sent.

XML structure for event report

```
<TracertEvent>
  <TracertInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <IcmpSequence></IcmpSequence>
    <PassthroughRouter></PassthroughRouter>
    <ReplyTime></ReplyTime>
    <UnreachableReason></UnreachableReason>
    <MPLS>
      <Label></Label>
      <Exp></Exp>
      <TTLValue></TTLValue>
      <Sign></Sign>
    </MPLS>
  </TracertInfo>
</TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/Tracert:1.0">
    <TracertInfo>
      <Name>aaa</Name>
      <Sequence>1</Sequence>
      <Host>1.2.3.4</Host>
      <PayloadLength>40</PayloadLength>
      <IcmpSequence>33</IcmpSequence>
      <PassthroughRouter>2.2.2.2</PassthroughRouter>
      <ReplyTime>2000</ReplyTime>
      <MPLS>
        <Label>1</Label>
        <Exp>0</Exp>
        <TTLValue>253</TTLValue>
        <Sign>true</Sign>
      </MPLS>
    </TracertInfo>
  </TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	The name of Netconf Client	String. Length: 1 to 64 characters.	No
Sequence	The Sequence of Netconf Client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address of the remote system	String. Length: 1 to 253 characters.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 8100 bytes.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 1 to 4294967295.	No
PassthroughRouter	Path that the packets pass through	IPv4: String, dotted decimal notation.	No
ReplyTime	Response time	Unsigned integer. Value range: 0 to 4294967295 microseconds.	No
UnreachableReason	Reasons for destination unreachable	String. Length: 1 to 16 characters	No
TestResult	Test result	Boolean: • **true**—Successful. • **false**—Failed.	No
MPLS	MPLS information	Members include: • Label. • Exp. • TTLValue. • Sign.	No
Label	Label for FEC	Unsigned integer. • Value range: 0 to 1048575.	No
Exp	grade of service	Unsigned char.	No
TTLValue	TTL value	Unsigned integer. Value range: 1 to 255.	No
Sign	Sign for the bottom label	Boolean: • **true**—The label is at the bottom of the label stack. • **false**—The label is not at the bottom of the label stack.	No

```
<TracertEvent>
  <TracertInfo>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <Hops></Hops>
    <TestResult></TestResult>
    <ExecutionState></ExecutionState>
  </TracertInfo>
</TracertEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TracertEvent xmlns="http://www.h3c.com/netconf/event:1.0/tracert:1.0">
    <TracertInfo>
      <Name>aaa</Name>
      <Sequence>1</Sequence>
      <Host>1.1.1.1</Host>
      <PayloadLength>56</PayloadLength>
      <Hops>30</Hops>
      <TestResult>1</TestResult>
      <ExecutionState>true</ExecutionState>
      <ErrorReason></ErrorReason>
    </TracertInfo>
  </TracertEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	The name of Netconf Client	String. Length: 1 to 64 characters.	No
Sequence	The Sequence of Netconf Client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv4 address of the remote system	String. Length: 1 to 253 characters.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 8100 bytes.	No
Hops	Maximum hop limit	Unsigned integer. Value range: 1 to 255.	No

Column name	Column description	Data type and restrictions	Support for extended queries
TestResult	Test result	Boolean: • **true**—Successful. • **false**—Failed.	No
ExecutionState	The of execution state of this operation	Boolean: • **true**—Successful. • **false**—Failed.	No
ErrorReason	Explan the reason of some unnormal states	String	No

Contents

Tracert6 1
Tracert6/IPv6Tracert 1
XML structure 1
Responsed XML structure 1
Table description 2
Columns 2
Responsed columns 3
Tracert6/IPv6TracertDisable 4
XML structure 4
Table description 4
Columns 4

Tracert6

Tracert6/IPv6Tracert

This table contains tracert6 information. Tracert6 traces the path that the IPv6 packets traverse from source to destination.

XML structure

```
<Tracert6>
  <IPv6Tracert>
    <TracertTest>
      <Host></Host>
      <VRF></VRF>
      <OutputInterface></OutputInterface>
      <SourceIpv6Address></SourceIpv6Address>
      <ReplyTimeOut></ReplyTimeOut>
      <SendPacketsNum></SendPacketsNum>
      <MaxHops></MaxHops>
      <FirstHop></FirstHop>
      <DestPort></DestPort>
      <DestPortFixed></DestPortFixed>
   </TracertTest>
  </IPv6Tracert>
</Tracert6>
```

Responsed XML structure

```
<Tracert6>
  <IPv6Tracert>
    <TracertTest>
      <Host></Host>
      <SrcAddr></SrcAddr>
      <PayloadLength></PayloadLength>
      <Hops></Hops>
      <TracertReply>
        <IcmpSequence></IcmpSequence>
        <PassthroughRouter></PassthroughRouter>
        <ReplyTime></ReplyTime>
        <UnreachableReason></UnreachableReason>
      </TracertReply>
      <TestResult></TestResult>
    </TracertTest>
  </IPv6Tracert>
</Tracert6>
```

Table description

Item	Description
Feature name	Tracert6
Table name	IPv6Tracert
Table type	Multi-instance table
Row name	TracertTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address or host name of a remote system	Index	String. Length: 1 to 253 characters.	Example: 1::1 or host name.
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OutputInterface	Name of the outgoing interface	N/A	String. Length: 0 to 46 characters.	An empty string indicates that no outgoing interface is specified.
SourceIpv6Address	Source IPv6 address of echo requests	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
ReplyTimeOut	Timeout time of the reply packet to a probe packet	N/A	Unsigned integer. Value range: 1 to 65535 milliseconds.	Default: 5000 milliseconds.
SendPacketsNum	Number of probe packets to send per hop	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3. If the value is too big, the system might fail to return the probe result because of packet timeout or fail to perform the ping operation. As a best practice, use a value that does not exceed 817.
MaxHops	Maximum number of hops allowed for a probe packet	N/A	Unsigned integer. Value range: 1 to 255.	Default: 30. MaxHops must be greater than or equal to FirstHop.
FirstHop	TTL value of the first probe packet	N/A	Unsigned integer. Value range: 1 to 255.	Default: 1.
DestPort	Destination UDP port number	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 33434.

Column name	Column description	Column type	Data type and restrictions	Remarks
DestPortFixed	Whether to use a fixed destination port number	N/A	Boolean: • **true**—The destination port number is fixed. • **false**—The destination port number is not fixed.	Firewall evasion mode. Use fixed destination ports for UDP probes. The destination port does not increment with each packet sent.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address of the remote system	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
SrcAddr	IPv6 source address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
Hops	Maximum hop limit	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PayloadLength	Payload length	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TracertReply	Tracert6 reply information	Data structure	Members include: • Sequence. • PassthroughRouter. • ReplyTime.	N/A
IcmpSequence	Reply sequence	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PassthroughRouter	Path that the packets pass through	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 1::1.
ReplyTime	Response time	N/A	Unsigned integer. Value range: 0 to 4294967295 microseconds.	If the value is 4294967295, the reply has timed out.
UnreachableReason	Reasons for destination unreachable	N/A	String. Length: 1 to 16 characters	An empty string indicates that the test result is normal. **!**N—Network unreachable. !**P**—Protocol unreachable. The protocol number is unknown. !S—Beyond scope of source address. !A—Address unreachable.
TestResult	Test result	N/A	Boolean: • **true**—Successful.	If the tracert operator does not receive any reply within 25

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Failed.	seconds, the tracert operation fails. If the value is false, the destination is not reachable after the maximum number of hops has reached.

Tracert6/IPv6TracertDisable

This table is used to stop to trace the path that the IPv6 packets traverse from source to destination.

XML structure

```
<Tracert6>
  <IPv6TracertDisable>
    <TracertDisable>
      <Name></Name>
      <Sequence></Sequence>
    </TracertDisable>
  </IPv6TracertDisable>
</Tracert6>
```

Table description

Item	Description
Feature name	Tracert6
Table name	IPv6TracertDisable
Table type	Multi-instance table
Row name	TracertDisable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of Netconf Client	Index	String. Length: 1 to 64 characters.	N/A
Sequence	The Sequence of Netconf Client	Index	Unsigned integer. Value range: 1 to 4294967295	N/A

Contents

Tracert6 1
Tracert6/IPv6Tracert 1
Tracert6/Tracert6Disable 1
Tracert6/Tracert6Event 2

Tracert6

Tracert6/IPv6Tracert

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The destination address can't be an IPv6 multicast address. 不支持IPv6组播地址。	The specified destination address cannot be an ipv6 multicast address.
The destination address can't be an IPv6 link local address. 不支持IPv6链路本地地址。	The specified destination address cannot be an ipv6 link local address.
The destination IPv6 address can't be all 0s. IPv6目的地址不能为全零。	The specified destination address cannot be all 0s.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
The destination was not found after the maximum number of hops was reached. 最大跳数内目标不可达。	The destination was not found after the maximum number of hops was reached.
First hop limit can’t be greater than the max hop limit. 报文的最大跳数必须大于或等于第一个报文的最大条数。	First hop limit can’t be greater than the max hop limit.
The source IPv6 address is invalid. 非法的IPv6地址。	The source IPv6 address is invalid.
The source IPv6 address does not exist. 源地址不存在。	The source IPv6 address does not exist.

Tracert6/Tracert6Disable

Message	Explanation
The specified object doesn't exist. 指定的对象不存在。	The specified object deing deleted is not exist.

Tracert6/Tracert6Event

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The destination address can't be an IPv6 multicast address. 不支持IPv6组播地址。	The specified destination address cannot be an ipv6 multicast address.
The destination address can't be an IPv6 link local address. 不支持IPv6链路本地地址。	The specified destination address cannot be an ipv6 link local address.
The destination IPv6 address can't be all 0s. IPv6目的地址不能为全零。	The specified destination address cannot be all 0s.
The outgoing interface is invalid. 出接口不合法。	The specified outgoing interface must be valid.
First hop limit can’t be greater than the max hop limit. 报文的最大跳数必须大于或等于第一个报文的最大条数。	First hop limit can’t be greater than the max hop limit.
The specified object already exists. 指定的对象已存在。	The specified object already exists.
Destination was not found possibly because the operation was disabled. 目标不可达可能是因为操作被终止。	Destination was not found possibly because the operation was disabled.
The source IPv6 address is invalid. 非法的IPv6地址。	The source IPv6 address is invalid.

Contents

Tracert6 1
Tracert6 event 1
XML structure for event subscription 1
XML structure for event report 3

Tracert6

Tracert6 event

This table is used to report tracert information for an IPv6 tracert operation.

XML structure for event subscription

```
<Tracert6Event>
  <Tracert6Info>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <VRF></VRF>
    <OutputInterface></OutputInterface>
    <SourceIpv6Address></SourceIpv6Address>
    <ReplyTimeOut></ReplyTimeOut>
    <SendPacketsNum></SendPacketsNum>
    <MaxHops></MaxHops>
    <FirstHop></FirstHop>
    <DestPort></DestPort>
    <DestPortFixed></DestPortFixed>
  </Tracert6Info>
</Tracert6Event>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TRACERT6</stream>
    <filter type="subtree">
      <Tracert6Event xmlns="http://www.h3c.com/netconf/event:1.0/tracert6:1.0">
        <Tracert6Info>
          <Name></Name>
          <Sequence></Sequence>
          <Host></Host>
          <VRF></VRF>
          <OutputInterface></OutputInterface>
          <SourceIpv6Address></SourceIpv6Address>
          <ReplyTimeOut></ReplyTimeOut>
          <SendPacketsNum></SendPacketsNum>
          <MaxHops></MaxHops>
          <FirstHop></FirstHop>
          <DestPort></DestPort>
        </Tracert6Info>
      </Tracert6Event>
```

```
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TRACERT6
Event name	Tracert6Event
Event namespace	http://www.h3c.com/netconf/event:1.0/tracert6:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295	No
Host	IPv6 address or host name of a remote system	String. Length: 1 to 253 characters.	No
VRF	VPN instance name	String. Length: 0 to 31 characters.	No
OutputInterface	Name of the outgoing interface	String. Length: 0 to 46 characters.	No
SourceIpv6Address	Source IPv6 address of echo requests	IPv6: Hexadecimal string, colon-separated.	No
ReplyTimeOut	Wait time for each reply	Unsigned integer. Value range: 1 to 65535 milliseconds. Default is 5000 milliseconds.	No
SendPacketsNum	Number of probe packets send each time	Unsigned integer. Value range: 1 to 65535. Default is 3.	No
MaxHops	Maximum number of hops allowed for a probe packet	Unsigned integer. Value range: 1 to 255.	No
FirstHop	TTL value of the first probe packet	Unsigned integer. Value range: 1 to 255.	No
DestPort	Destination UDP port number	Unsigned integer. Value range: 1 to 65535.	No
DestPortFixed	Whether to use a fixed destination port number	Boolean: • **true**—The destination port number is fixed. • **false**—The destination port number is not fixed.	Firewall evasion mode. Use fixed destination ports for UDP probes. The destination port does not increment with

Column name	Column description	Data type and restrictions	Support for extended queries
			each packet sent.

XML structure for event report

```
<Tracert6Event>
  <Tracert6Info>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <PayloadLength></PayloadLength>
    <IcmpSequence></IcmpSequence>
    <PassthroughRouter></PassthroughRouter>
    <ReplyTime></ReplyTime>
    <UnreachableReason></UnreachableReason>
  </Tracert6Info>
</Tracert6Event>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Tracert6Event xmlns="http://www.h3c.com/netconf/event:1.0/Tracert6:1.0">
    <Tracert6Info>
      <Name>a</Name>
      <Sequence>1</Sequence>
      <Host>3::2</Host>
      <PayloadLength>60</PayloadLength>
      <IcmpSequence>33</IcmpSequence>
      <PassthroughRouter>3::2</PassthroughRouter>
      <ReplyTime>1000</ReplyTime>
    </Tracert6Info>
  </Tracert6Event>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv6 address or host name of a remote system	String. Length: 1 to 253 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
PayloadLength	Payload length	Unsigned integer. Value range: 1 to 4294967295.	No
IcmpSequence	Sequence of an echo reply	Unsigned integer. Value range: 1 to 4294967295.	No
PassthroughRouter	Path that the packets pass through	IPv6: Hexadecimal string, colon-separated.	No
ReplyTime	Response time	Unsigned integer. Value range: 1 to 4294967295.	No
UnreachableReason	Reasons for destination unreachable	String. Length: 1 to 16 characters	No

```
<Tracert6Event>
  <Tracert6Info>
    <Name></Name>
    <Sequence></Sequence>
    <Host></Host>
    <SrcAddr></SrcAddr>
    <PayloadLength></PayloadLength>
    <Hops></Hops>
    <TestResult></TestResult>
    <ExecutionState></ExecutionState>
  </Tracert6Info>
</Tracert6Event>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <Tracert6Event xmlns="http://www.h3c.com/netconf/event:1.0/tracert6:1.0">
    <TracertInfo>
      <Name></Name>
      <Sequence></Sequence>
      <Host></Host>
      <SrcAddr></SrcAddr>
      <PayloadLength></PayloadLength>
      <Hops></Hops>
      <TestResult></TestResult>
      <ExecutionState>true</ExecutionState>
    </Tracert6Info>
  </Tracert6Event>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Name of the NETCONF client	String. Length: 1 to 64 characters.	No
Sequence	Sequence of the NETCONF client	Unsigned integer. Value range: 1 to 4294967295.	No
Host	IPv6 address of the remote system	String. Length: 1 to 253 characters.	No
SrcAddr	IPv6 source address	IPv6: Hexadecimal string, colon-separated.	No
PayloadLength	Payload length	Unsigned integer. Value range: 20 to 8100 bytes.	No
Hops	Maximum hop limit	Unsigned integer. Value range: 1 to 255.	No
TestResult	Test result	Boolean: • **true**—Successful. • **false**—Failed.	No
ExecutionState	Execution result of this operation	Boolean: • **true**—Successful. • **false**—Failed.	No

Contents

TRACK 1
TRACK/TrackEntries 1
XML structure 1
Table description 2
Columns 2
TRACK/ObjectList 5
XML structure 5
Table description 5
Columns 6
TRACK/TrackOper 6
XML structure 6
Table description 7
Columns 7

TRACK

TRACK/TrackEntries

This table contains information about track entries.

XML structure

```
<TRACK>
  <TrackEntries>
    <TrackEntry>
      <TrackIndex></TrackIndex>
      <TypeInterface>
        <IfIndex></IfIndex>
        <IfStateType></IfStateType>
      </TypeInterface>
      <TypeBfd>
        <EchoIfIndex></EchoIfIndex>
        <RemoteIp></RemoteIp>
        <LocalIp></LocalIp>
        <StaticBfd></StaticBfd>
        <IgnoreRxIf></IgnoreRxIf>
      </TypeBfd>
      <TypeCfd>
        <ServiceInstance></ServiceInstance>
        <MepId></MepId>
      </TypeCfd>
      <TypeRoute>
        <VRF></VRF>
        <IpAddress></IpAddress>
        <MaskLength></MaskLength>
      </TypeRoute>
      <TypeIPv6Route>
        <Ipv6VRF></Ipv6VRF>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </TypeIPv6Route>
      <TypeNqa>
        <AdminName></AdminName>
        <OperationTag></OperationTag>
        <ReactionNum></ReactionNum>
      </TypeNqa>
      <TypeVrrp>
        <IfIndex></IfIndex>
        <AddressType></AddressType>
        <VrID></VrID>
```

```
      </TypeVrrp>
      <TypeList>
        <ListType></ListType>
      </TypeList>
      <TypeLldp>
        <IfIndex></IfIndex>
      </TypeLldp>
      <TypeDrniMadStatus></TypeDrniMadStatus>
      <TypeMlagMadStatus></TypeMlagMadStatus>
      <NatInstance></NatInstance>
    </TrackEntry>
  </TrackEntries>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackEntries
Table type	Multi-instance table
Row name	TrackEntry
Restrictions	Only one tracked object type can be specified for a track entry. You cannot modify the settings of the track entry after creating it in this table. If you need do this, you must delete the track entry and then create it again.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TypeInterface	Associates the track entry with an interface.	Data structure	Members include: • IfIndex. • IfStateType.	All the members must be specified.
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfStateType	Type of the interface state.	N/A	Enumeration: • **1**—Link state (default).	N/A

			• **2**—Physical state. • **3**—IPv4 protocol state. • **4**—IPv6 protocol state.	
TypeBfd	Associates the track entry with a BFD session.	Data structure	Members include: • EchoIfIndex. • RemoteIp. • LocalIp. • StaticBfd.	All the members must be specified. You cannot configure the StaticBfd column together with the EchoIfIndex, RemoteIp, or LocalIp column.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
RemoteIp	Specifies the destination IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
LocalIp	Specifies the source IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
StaticBfd	Static BFD session name	N/A	String Value range: 1 to 64.	Static session name, case sensitive
IgnoreRxIf	Whether to check the receiving interface for echo response packets	N/A	Boolean: • true false(default)	N/A
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: • ServiceInstance. • MepId.	All the members must be specified.
ServiceInstance	Specifies a service instance ID.	N/A	Unsigned integer. Value range: 1 to 32767.	N/A
MepId	Specifies a MEP ID.	N/A	Unsigned integer. Value range: 1 to 8191.	N/A
TypeRoute	Associates the track entry with a route entry.	Data structure	Members include: • VRF. • IpAddress. • MaskLength.	The IpAddress member and MaskLength member must be specified.
VRF	VRF instance name.	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the route entry.	N/A	IPv4: String, dotted decimal notation.	N/A
MaskLength	Mask length of the	N/A	Unsigned integer.	N/A

	route entry.		Value range: 0 to 32.	
Ipv6VRF	VPN instance name.	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Address	IPv6 address of the route entry.	N/A	• IPv6: String, dotted decimal notation.	N/A
Ipv6PrefixLength	IPv6 prefix length of the route entry.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
TypeNqa	Associates the track entry with an NQA operation.	Data structure	Members include: • AdminName. • OperationTag. • ReactionNum.	All the members must be specified.
AdminName	Administrator name of the NQA operation.	N/A	String, case insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag of the NQA operation.	N/A	String, case insensitive. Length: 1 to 32 characters.	N/A
ReactionNum	Reaction entry associated with the NQA entry.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
TypeVrrp	Create a track entry associated with an IPv4 VRRP backup group.	Data structure	Members include: • IfIndex. • AddressType. • VrID.	All the members must be specified.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AddressType	Address type	N/A	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
VrID	Virtual router ID	N/A	Unsigned integer. Value range: 1 to 255.	VRRP backup group number.
TypeList	Associates the track entry with a tracked list.	Data structure	Members include: • ListType.	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: • **1**—Boolean AND list. • **2**—Boolean OR list. • **3**—Percentage threshold list. • **4**—Weight threshold list.	N/A
TypeLldp	Associates the track entry with an	Data structure	Members include: • IfIndex.	The IfIndex member must be specified.

	LLDP neighbour.			
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TypeDrniMad Status	Associates the track entry with a tracked DRNI_MAD_STATUS event	N/A	Boolean: • **true** • **false(default)**	N/A
TypeMlagMad Status	Associates the track entry with a tracked MLAG_MAD_STATUS event	N/A	Boolean: • **true** • **false(default)**	N/A
NatInstance	Associates the track entry with a NAT instance	N/A	• String, case-sensitive. Length: 1 to 31 characters.	You can specify a NAT instance by its name, a case-sensitive string of 1 to 31 characters.

TRACK/ObjectList

This table contains information about objects in tracked lists.

XML structure

```
<TRACK>
  <ObjectList>
    <Object>
      <TrackIndex></TrackIndex>
      <ObjectIndex></ObjectIndex>
      <ObjectSign></ObjectSign>
      <ObjectWeight></ObjectWeight>
    </Object>
  </ObjectList>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	ObjectList
Table type	Multi-instance table

Row name	Object
Restrictions	You can configure objects for a track entry only when the track entry exists in the TRACKEntries table and has TrackType set to TypeList.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectIndex	Object index.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectSign	Whether or not to negate the state of the object.	N/A	Boolean: • true—Negates the state of the object. • false—Does not negate the state of the object (default).	This column can be specified only when the track entry is associated with a Boolean list.
ObjectWeight	Weight of the object.	N/A	Unsigned integer. Value range: 1 to 255. Default: 10.	This column can be specified only when the track entry is associated with a weight threshold list.

TRACK/TrackOper

This table contains operation information about track entries.

XML structure

```
<TRACK>
  <TrackOper>
    <Operation>
      <TrackIndex></TrackIndex>
      <PositiveDelay></PositiveDelay>
      <NegativeDelay></NegativeDelay>
      <PositiveThresholdPercent></PositiveThresholdPercent>
      <NegativeThresholdPercent></NegativeThresholdPercent>
      <PositiveThresholdWeight></PositiveThresholdWeight>
      <NegativeThresholdWeight></NegativeThresholdWeight>
    </Operation>
  </TrackOper>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackOper
Table type	Multi-instance table
Row name	Operation
Restrictions	You can configure the operation information for a track entry only when the track entry exists in the TRACKEntries table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
PositiveDelay	Specifies the positive state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 6000. Default: 0.	N/A
NegativeDelay	Specifies the negative state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 6000. Default: 0.	N/A
PositiveThresholdPercent	Specifies the positive state threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100. Default: 1.	This column can be specified only when the track entry is associated with a percentage threshold list.
NegativeThresholdPercent	Specifies the negative state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 99. Default: 0.	This column can be specified only when the track entry is associated with a percentage threshold list.
PositiveThresholdWeight	Specifies the positive state threshold in weight.	N/A	Unsigned integer. Value range: 1 to 255. Default: 1.	This column can be specified only when the track entry is associated with a weight threshold list.
NegativeThresholdWeight	Specifies the negative state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 254. Default: 0.	This column can be specified only when the track entry is associated with a weight threshold list.

Contents

TRACK 1
TRACK/TrackEntries 1
XML structure 1
Table description 2
Columns 2
TRACK/ObjectList 5
XML structure 5
Table description 6
Columns 6
TRACK/TrackOper 6
XML structure 6
Table description 7
Columns 7

TRACK

TRACK/TrackEntries

This table contains information about track entries.

XML structure

```
<TRACK>
  <TrackEntries>
    <TrackEntry>
      <TrackIndex></TrackIndex>
      <TypeInterface>
        <IfIndex></IfIndex>
        <IfStateType></IfStateType>
      </TypeInterface>
      <TypeBfd>
        <EchoIfIndex></EchoIfIndex>
        <RemoteIp></RemoteIp>
        <LocalIp></LocalIp>
        <StaticBfd></StaticBfd>
        <IgnoreRxIf></IgnoreRxIf>
      </TypeBfd>
      <TypeCfd>
        <ServiceInstance></ServiceInstance>
        <MepId></MepId>
      </TypeCfd>
      <TypeRoute>
        <VRF></VRF>
        <IpAddress></IpAddress>
        <MaskLength></MaskLength>
      </TypeRoute>
      <TypeIPv6Route>
        <Ipv6VRF></Ipv6VRF>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </TypeIPv6Route>
      <TypeNqa>
        <AdminName></AdminName>
        <OperationTag></OperationTag>
        <ReactionNum></ReactionNum>
      </TypeNqa>
      <TypeVrrp>
        <IfIndex></IfIndex>
        <AddressType></AddressType>
        <VrID></VrID>
```

```
      </TypeVrrp>
      <TypeList>
        <ListType></ListType>
      </TypeList>
      <TypeLldp>
        <IfIndex></IfIndex>
      </TypeLldp>
      <TypeDrniMadStatus></TypeDrniMadStatus>
      <TypeMlagMadStatus></TypeMlagMadStatus>
      <NatInstance></NatInstance>
    </TrackEntry>
  </TrackEntries>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackEntries
Table type	Multi-instance table
Row name	TrackEntry
Restrictions	Only one tracked object type can be specified for a track entry. You cannot modify the settings of the track entry after creating it in this table. If you need do this, you must delete the track entry and then create it again.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TypeInterface	Associates the track entry with an interface.	Data structure	Members include: • IfIndex. • IfStateType.	All the members must be specified.
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfStateType	Type of the interface state.	N/A	Enumeration: • 1—Link state. • 2—Physical state. • 3—IPv4 protocol state.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—IPv6 protocol state.	
TypeBfd	Associates the track entry with a BFD session.	Data structure	Members include: • EchoIfIndex. • RemoteIp. • LocalIp. • StaticBfd.	All the members must be specified. You cannot configure the StaticBfd column together with the EchoIfIndex, RemoteIp, or LocalIp column.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
RemoteIp	Specifies the destination IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
LocalIp	Specifies the source IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
StaticBfd	Static BFD session name	N/A	String Value range: 1 to 64.	Static session name, case sensitive
IgnoreRxIf	Whether to check the receiving interface for echo response packets	N/A	Boolean: • true false	N/A
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: • ServiceInstance. • MepId.	All the members must be specified.
ServiceInstance	Specifies a service instance ID.	N/A	Unsigned integer. Value range: 1 to 32767.	N/A
MepId	Specifies a MEP ID	N/A	Unsigned integer. Value range: 1 to 8191.	N/A
TypeRoute	Associates the track entry with a route entry.	Data structure	Members include: • VRF. • IpAddress. • MaskLength.	The IpAddress member and MaskLength member must be specified.
VRF	VRF instance name.	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the	N/A	IPv4: String, dotted decimal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	route entry.		notation.	
MaskLength	Mask length of the route entry.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6VRF	VPN instance name.	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Address	IPv6 address of the route entry.	N/A	• IPv6: String, dotted decimal notation.	N/A
Ipv6PrefixLength	IPv6 prefix length of the route entry.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
TypeNqa	Associates the track entry with an NQA operation.	Data structure	Members include: • AdminName. • OperationTag. • ReactionNum.	All the members must be specified.
AdminName	Administrator name of the NQA operation.	N/A	String, case insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag of the NQA operation.	N/A	String, case insensitive. Length: 1 to 32 characters.	N/A
ReactionNum	Reaction entry associated with the NQA entry.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
TypeVrrp	Create a track entry associated with an IPv4 VRRP backup group.	Data structure	Members include: • IfIndex. • AddressType. • VrID.	All the members must be specified.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AddressType	Address type	N/A	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
VrID	Virtual router ID	N/A	Unsigned integer. Value range: 1 to 255.	VRRP backup group number.
TypeList	Associates the track entry with a tracked list.	Data structure	Members include: • ListType.	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: • 1—Boolean AND list. • 2—Boolean OR list.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—Percentage threshold list. • 4—Weight threshold list.	
TypeLldp	Associates the track entry with an LLDP neighbour.	Data structure	Members include: • IfIndex.	The IfIndex member must be specified.
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TypeDrniMadStatus	Associates the track entry with a tracked DRNI_MAD_STATUS event	N/A	Boolean: • **true** • **false(default)**	N/A
TypeMlagMadStatus	Associates the track entry with a tracked MLAG_MAD_STATUS event	N/A	Boolean: • **true** • **false(default)**	N/A
NatInstance	Associates the track entry with a NAT instance	N/A	• String, case-sensitive. Length: 1 to 31 characters.	You can specify a NAT instance by its name, a case-sensitive string of 1 to 31 characters.

TRACK/ObjectList

This table contains information about objects in tracked lists.

XML structure

```
<TRACK>
  <ObjectList>
    <Object>
      <TrackIndex></TrackIndex>
      <ObjectIndex></ObjectIndex>
      <ObjectSign></ObjectSign>
      <ObjectWeight></ObjectWeight>
    </Object>
  </ObjectList>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	ObjectList
Table type	Multi-instance table
Row name	Object
Restrictions	You can configure objects for a track entry only when the track entry exists in the TRACKEntries table and has TrackType set to TypeList.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectIndex	Object index.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectSign	Whether or not to negate the state of the object.	N/A	Boolean: • true—Negates the state of the object. • false—Does not negate the state of the object.	This column can be specified only when the track entry is associated with a Boolean list.
ObjectWeight	Weight of the object.	N/A	Unsigned integer. Value range: 1 to 255.	This column can be specified only when the track entry is associated with a weight threshold list.

TRACK/TrackOper

This table contains operation information about track entries.

XML structure

```
<TRACK>
  <TrackOper>
    <Operation>
      <TrackIndex></TrackIndex>
      <TrackState></TrackState>
      <PositiveDelay></PositiveDelay>
      <NegativeDelay></NegativeDelay>
      <NotifyDelay></NotifyDelay>
      <PositiveThresholdPercent></PositiveThresholdPercent>
      <NegativeThresholdPercent></NegativeThresholdPercent>
```

```
      <PositivePercent></PositivePercent>
      <PositiveThresholdWeight></PositiveThresholdWeight>
      <NegativeThresholdWeight></NegativeThresholdWeight>
      <PositiveWeight></PositiveWeight>
    </Operation>
  </TrackOper>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackOper
Table type	Multi-instance table
Row name	Operation
Restrictions	You can configure the operation information for a track entry only when the track entry exists in the TRACKEntries table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackState	State of the track entry.	N/A	Enumeration: • **1**—NotReady. • **2**—Positive. • **3**—Negative.	N/A
PositiveDelay	Specifies the positive state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 6000.	N/A
NegativeDelay	Specifies the negative state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 6000.	N/A
NotifyDelay	Remaining time of notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300.	N/A
PositiveThresholdPercent	Specifies the positive state threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100.	This column can be specified only when the track entry is associated with a percentage threshold list.
NegativeThresholdPercent	Specifies the negative state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 99.	This column can be specified only when the track entry is associated with a

Column name	Column description	Column type	Data type and restrictions	Remarks
				percentage threshold list.
PositivePercent	Percentage of positive objects in the tracked list.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
PositiveThresholdWeight	Specifies the positive state threshold in weight.	N/A	Unsigned integer. Value range: 1 to 255.	This column can be specified only when the track entry is associated with a weight threshold list.
NegativeThresholdWeight	Specifies the negative state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 254.	This column can be specified only when the track entry is associated with a weight threshold list.
PositiveWeight	Weight of positive objects in the tracked list.	N/A	Unsigned integer. Value range: 0 to 4080.	N/A

Contents

TRACK 1
TRACK/TrackEntries 1
TRACK/ObjectList 2
TRACK/TrackOper 2

TRACK

TRACK/TrackEntries

Message	Explanation
Some required non-index columns are missing for the track entry of the specified type. Track类型中的非索引列不完整。	All the members of tracked object type must be specified
Only one tracked object type can be specified for a track entry. 只能为一个Track项指定一种类型。	Only one tracked object type can be specified for a track entry.
The tracked object type must be specified. 必须为一个Track项指定类型。	The tracked object type must be specified.
The interface doesn't exist or it doesn't support the configuration. 接口不存在或者接口不支持该配置。	The interface doesn't exist or it doesn't support the configuration.
The specified VPN instance doesn't exist. 指定的VRF不存在。	Please create the VPN instance first.
Invalid IP address. 无效的地址。	Only class A, class B, and class C addresses are available.
The specified track entry already exists." 指定的Track项已存在。	The specified track entry already exists.
The specified track entry doesn't exist. 指定的Track项不存在。	The specified track entry doesn't exist.
Failed to apply the configuration. 配置执行失败。	You cannot modify the settings of the track entry after creating it in this table. To do this, you must delete the track entry and then create it again.
Track is not configured. 未配置TRACK。	Track service has not been started.
Do not specify the non-index columns. 不能配置非索引列。	Do not specify the non-index columns when deleting it.
IPv4 and IPv6 route can't be issued at the same time. 不能同时下发IPv4和IPv6 route。	IPv4 and IPv6 route can't be issued at the same time.
Conflicting track entries exist. 存在相冲突的TRACK项	The ignore-rx-interface parameter settings must be consistent for one session in different track entries.
The specified Nat instance name cannot start with Sub. 指定的Nat实例名称不能以Sub开头。	The specified Nat instance name cannot start with Sub.
Not support Nat instance。 不支持Nat实例。	Not support Nat instance.

TRACK/ObjectList

Message	Explanation
Failed to apply the configuration. 配置执行失败。	Please create the track entry first.

TRACK/TrackOper

Message	Explanation
A minimum of one non-index column is required. 至少需配置一条非索引列。	Please specify at least one of non-index column.
Failed to apply the configuration. 配置执行失败。	Please create the track entry first.

Contents

TroubleShoot 1

TroubleShoot/WebDiagnose 1
XML structure 1
Response XML structure 1
Table description 1
Columns 2
Response columns 2
TroubleShoot/StartPktTrace 2
XML structure 2
Table description 3
Columns 3
TroubleShoot/StopPktTrace 4
XML structure 4
Table description 4
Columns 4
TroubleShoot/ExportCapture 4
XML structure 4
Table description 5
Columns 5

TroubleShoot

TroubleShoot/WebDiagnose

This table is used for starting Web diagnosis. All the columns are diagnosis arguments.

XML structure

```
<TroubleShoot>
  <WebDiagnose>
    <WebDiagnoseItem>
      <ClientIP></ClientIP>
      <WebUrl></WebUrl>
    </WebDiagnoseItem>
  </WebDiagnose>
</TroubleShoot>
```

Response XML structure

```
<TroubleShoot>
  <WebDiagnose>
    <WebDiagnoseItem>
      <ItemID></ItemID>
      <ItemName></ItemName>
      <Result></Result>
      <Information></Information>
    </WebDiagnoseItem>
  </WebDiagnose>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	WebDiagnose
Table type	Multi-instance table
Row name	WebDiagnoseItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientIP	IP address of client	Index	IP address.	Example: 1.1.1.1.
WebUrl	URL of the Web server	Index	String. Length: 1 to 253 characters.	Example: http://www.example.com/index.html.

Response columns

Column name	Column description	Column type	Data type and restrictions
ItemID	Diagnosis item ID	Index	Unsigned integer.
ItemName	Diagnosis item name	N/A	String. Length: 1 to 63 characters.
Result	Diagnosis result	N/A	Boolean: • **true**—Succeeded. • **false**—Failed.
Information	Detailed diagnosis information	N/A	String. • Length: 1 to 1023 characters.

TroubleShoot/StartPktTrace

This table is used for starting packet trace diagnosis. All the columns are diagnosis arguments.

XML structure

```
<TroubleShoot>
  <StartPktTrace>
    <Type></Type>
    <IfIndex></IfIndex>
    <Protocol></Protocol>
    <IPAddrVer></IPAddrVer>
    <SrcIP></SrcIP>
    <DstIP></DstIP>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <SrcMAC></SrcMAC>
    <DstMAC></DstMAC>
    <VlanID></VlanID>
    <FileName></FileName>
    <RealFlowDiagTime></RealFlowDiagTime>
```

```
  </StartPktTrace>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	StartPktTrace
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Diagnosis type.	N/A	Enumeration: • 1—Construct packet diagnosis. • 2—Real flow diagnosis. • 3—Import packet diagnosis.	Required.
IfIndex	Interface index	N/A	Unsigned integer.	Required when diagnosis type is 1 or 3.
Protocol	Packet protocol type	N/A	Unsigned integer. Value range: 0 to 255.	Required when diagnosis type is 1.
IPAddrVer	IP version	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	Required.
SrcIP	Source IP address	N/A	IPv4 address or IPv6 address.	Required when diagnosis type is 1.
DstIP	Destination IP address	N/A	IPv4 address or IPv6 address.	Required when diagnosis type is 1.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	Required when diagnosis type is 1.
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	Required when diagnosis type is 1.
SrcMAC	Source MAC address	N/A	MAC address.	N/A
DstMAC	Destination MAC address	N/A	MAC address.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
FileName	Selects a .pcap or .cap file to import	N/A	String. Length: 1 to 253 characters.	Required when diagnosis type is 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
RealFlowDiagTime	Duration for service diagnosis based on real traffic (seconds)	N/A	Unsigned integer. Value range: 5 to 600.	Default value: 10 seconds.

TroubleShoot/StopPktTrace

This table is used to stop packet trace diagnosis.

XML structure

```
<TroubleShoot>
  <StopPktTrace>
    <Stop></Stop>
  </StopPktTrace>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	StopPktTrace
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stop	Stop packet trace diagnosis	N/A	N/A	This column must be empty.

TroubleShoot/ExportCapture

This table is used to export the captured packet to a file.

XML structure

```
<TroubleShoot>
  <ExportCapture>
    <Export/>
```

```
  </ExportCapture>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	ExportCapture
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Export	Export the captured packet to a file.	N/A	N/A	This column must be empty.

Contents

TroubleShoot 1
TroubleShoot/PktTraceInfos 1
XML structure 1
Table description 1
Columns 1
TroubleShoot/PktTraceState 2
XML structure 2
Table description 2
Columns 2

TroubleShoot

TroubleShoot/PktTraceInfos

This table contains packet trace diagnosis information.

XML structure

```
<TroubleShoot>
  <PktTraceInfos>
    <PktTraceInfo>
      <FlowID></FlowID>
      <PacketID></PacketID>
      <ItemID></ItemID>
      <FlowDescription></FlowDescription>
      <PktDescription></PktDescription>
      <Time></Time>
      <ItemName></ItemName>
      <Result></Result>
      <ResultStr></ResultStr>
    </PktTraceInfo>
  </PktTraceInfos>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	PktTraceInfos
Table type	Multi-instance table
Row name	PktTraceInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer.
PacketID	Packet ID	Index	Unsigned integer.
ItemID	Item ID	Index	Unsigned integer.
FlowDescription	Flow description	N/A	String. Length: 1 to 1023 characters.

Column name	Column description	Column type	Data type and restrictions
PktDescription	Packet description	N/A	String. Length: 1 to 1023 characters.
Time	Time when the diagnosis point is added.	N/A	String. Length: 1 to 31 characters.
ItemName	Diagnosis item name	N/A	String. Length: 1 to 63 characters.
Result	Diagnosis result	N/A	Boolean: • **true**—Succeeded. • **false**—Failed.
ResultStr	Diagnosis result description	N/A	String. Length: 1 to 1023 characters.

TroubleShoot/PktTraceState

This table contains packet trace diagnosis status information.

XML structure

```
<TroubleShoot>
  <PktTraceState>
    <State></State>
  </PktTraceState>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	PktTraceState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Diagnosis status	N/A	Boolean: • **true**—Diagnosis is not finished yet. • **false**—Diagnosis is finished.

Contents

TroubleShoot 1
TroubleShoot/StartPktTrace 1
TroubleShoot/StopPktTrace 2
TroubleShoot/ExportCapture 2

TroubleShoot

TroubleShoot/StartPktTrace

Message	Explanation
Failed to get data from kernel. 从内核获取数据失败。	Failed to get data from kernel after diagnosis. 示踪完成之后，从内核获取数据失败。
Failed to read file. 读文件失败。	Failed to read cap or pcap file during importing packet diagnosis. 导入报文诊断时，读取cap或者pcap文件失败。
Failed to open file. 打开文件失败。	Failed to open cap or pcap file during importing packet diagnosis. 导入报文诊断时，打开cap或者pcap文件失败。
Invalid file. 文件不可用。	Invalid file to be imported. 导入报文诊断时，导入的文件无效。
Invalid diagnosis type. 无效的诊断类型。	Invalid diagnosis type for packet diagnosis. 报文示踪时，输入的诊断类型无效。
Invalid interface index. 无效的接口索引。	Invalid interface index for packet diagnosis. 报文示踪时，输入的接口索引无效。
Invalid protocol type. 无效的协议类型。	Invalid protocol type for packet diagnosis. 报文示踪时，输入的协议类型无效。
Invalid IP address version. 无效的IP地址版本。	Invalid IP address version for packet diagnosis. 报文示踪时，输入的IP地址版本无效。
Invalid IP address version. 无效的IP地址	Invalid IP address version for packet diagnosis. 报文示踪时，输入的IP地址无效。
Invalid VLAN ID. 输入的值不在指定范围内。	Invalid VLAN ID for packet diagnosis. 报文示踪时，输入的VLAN ID无效。
Invalid MAC address. 无效的MAC地址。	Invalid MAC address for packet diagnosis. 报文示踪时，输入的MAC地址无效。
Invalid file name. 无效的文件名。	Invalid file name for packet diagnosis. 报文示踪时，输入的文件名无效。
A packet trace task is in progress, Please wait. 已有用户正在报文示踪中，请稍后。	Two or more users are performing packet diagnosis at the same time. 两个或者多个用户同时执行报文示踪诊断。
No enough resources. 系统资源不足。	Insufficient memory for packet diagnosis. 报文示踪时，系统资源不足。
Invalid disgnosis time. 输入值不在指定范围内。	Invalid diagnosis time for real flow diagnosis. 真实流量诊断时，输入的诊断时间无效。
A packet export task is in progress, Please wait. 已有用户正在报文示踪中，请稍后。	Two or more users are exporting packets at the same time. 两个或者多个用户同时执行导出报文操作。

TroubleShoot/StopPktTrace

Message	Explanation
Failed to get data from kernel. 从内核获取数据失败。	Failed to get data from kernel after diagnosis. 示踪完成之后，从内核获取数据失败。

TroubleShoot/ExportCapture

Message	Explanation
Failed to get data from kernel. 从内核获取数据失败。	Failed to get data from kernel after diagnosis. 示踪完成之后，从内核获取数据失败。
No enough resources. 系统资源不足。	Insufficient memory for export packet. 报文示踪时，系统资源不足。

Contents

Ttymgr 1
Ttymgr/LineTypes 1
XML structure 1
Table description 1
Columns 1

Ttymgr

Ttymgr/LineTypes

This table contains Ttymgr information.

XML structure

```
<Ttymgr>
  <LineTypes>
    <LineType>
      <LineTypeNum></LineTypeNum>
      <TimeoutMinutes></TimeoutMinutes>
      <TimeoutSeconds></TimeoutSeconds>
    </LineType>
  </LineTypes>
</Ttymgr>
```

Table description

Item	Description
Feature name	Ttymgr
Table name	LineTypes
Table type	Single-instance table
Row name	LineType
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineTypeNum	Number of the line type	Index	Enumeration: • **1**—CON • **2**—TTY. • **3**—AUX. • **4**—VTY. • **5**—USB.	N/A
TimeoutMinutes	Number of minutes for the connection idle timeout	N/A	Unsigned integer. Value range: 0 to 35791.	The default value is 10. If the sub table fields are all 0, it indicates that the application line will never

				timeout.
TimeoutSeconds	Number of seconds for the connection idle timeout	N/A	Unsigned integer. Value range: 0 to 59.	The default value is 0. If the sub table fields are all 0, it indicates that the application line will never timeout.

Contents

Ttymgr 1
Ttymgr/LineTypes 1
XML structure 1
Table description 1
Columns 1

Ttymgr

Ttymgr/LineTypes

This table contains Ttymgr information.

XML structure

```
<Ttymgr>
  <LineTypes>
    <LineType>
      <LineTypeNum></LineTypeNum>
      <TimeoutMinutes></TimeoutMinutes>
      <TimeoutSeconds></TimeoutSeconds>
    </LineType>
  </LineTypes>
</Ttymgr>
```

Table description

Item	Description
Feature name	Ttymgr
Table name	LineTypes
Table type	Single-instance table
Row name	LineType
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineTypeNum	Number of the line type	Index	Enumeration: • **1**—CON • 2—TTY. • **3**—AUX. • **4**—VTY. • **5**—USB.	N/A
TimeoutMinutes	Number of minutes for the connection idle timeout	N/A	Unsigned integer. Value range: 0 to 35791.	The default value is 10. If the sub table fields are all 0, it indicates that the application line will never

Column name	Column description	Column type	Data type and restrictions	Remarks
				timeout.
TimeoutSeconds	Number of seconds for the connection idle timeout	N/A	Unsigned integer. Value range: 0 to 59.	The default value is 0. If the sub table fields are all 0, it indicates that the application line will never timeout.

Contents

Tunnel 1
Tunnel/Detect 1
XML structure 1
Table description 1
Columns 1
Tunnel/ClearAllP2MPTables 1
XML structure 1
Table description 2
Columns 2
Tunnel/ClearP2MPTables 2
XML structure 2
Table description 2
Columns 3

Tunnel

Tunnel/Detect

This table is used to detect if vxlan tunnel is connected.

XML structure

```
<TUNNEL>
  <Detect>
    <StartDetect>
       <ID></ID>
       <RetryCount></RetryCount>
    </StartDetect>
  </Detect>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	Detect
Table type	Multi-instance table
Row name	StartDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Tunnel ID	Index	N/A
RetryCount	Retry count	N/A	• Unsigned integer. Value range: 1 to 5. Default: 3

Tunnel/ClearAllP2MPTables

This table is used to clear all P2MP dynamic tunnel entries.

XML structure

```
<TUNNEL>
  <ClearAllP2MPTables>
```

```
    <Clear></Clear>
  </ClearAllP2MPTables>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	ClearAllP2MPTables
Table type	Single-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all P2MP dynamic tunnel entries	N/A	N/A	This column must be empty.

Tunnel/ClearP2MPTables

This table is used to clear specified P2MP dynamic tunnel entries.

XML structure

```
<TUNNEL>
  <ClearP2MPTables>
    <ClearP2MPTable>
      <ID></ID>
      <DestIPv4Addr></DestIPv4Addr>
      <DestIPv6Addr></DestIPv6Addr>
      <TunnelDestIPv4Addr></TunnelDestIPv4Addr>
      <TunnelDestIPv6Addr></TunnelDestIPv6Addr>
      <Clear></Clear>
    </ClearP2MPTable>
  </ClearP2MPTables>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	ClearP2MPTables

Table type	Multi-instance table
Row name	ClearP2MPTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID	Index	Unsigned integer.	N/A
DestIPv4Addr	Branch network IPv4 address for a tunnel entry.	N/A	String, dotted decimal notation.	This column is available when the DestIPv6Addr column is empty.
DestIPv6Addr	Branch network IPv6 address for a tunnel entry.	N/A	Hexadecimal string, colon-separated.	This column is available when the DestIPv4Addr column is empty.
TunnelDestIPAddr	Tunnel destination IPv4 address for a tunnel entry	N/A	String, dotted decimal notation.	This column is available when the TunnelDestIPv6Addr column is empty.
TunnelDestIPv6Addr	Tunnel destination IPv6 address for a tunnel entry	N/A	Hexadecimal string, colon-separated.	This column is available when the TunnelDestIPAddr column is empty.
Clear	Clear all P2MP dynamic tunnel entries	N/A	N/A	This column must be empty.

Contents

TUNNEL 1

TUNNEL/Tunnels 1
XML structure 1
Table description 2
Columns 2
TUNNEL/GlobalConfig 10
XML structure 10
Table description 11
Columns 11
TUNNEL/GREP2MPTemplates 11
XML structure 11
Table description 12
Columns 12
TUNNEL/GREP2MPTemplateMaps 12
XML structure 12
Table description 12
Columns 13
TUNNEL/IP6GREP2MPTemplates 13
XML structure 13
Table description 14
Columns 14
TUNNEL/IP6GREP2MPTemplateMaps 14
XML structure 14
Table description 15
Columns 15
TUNNEL/VXLANBFDs 15
XML structure 15
Table description 16
Columns 16
TUNNEL/SRv6SIDLists 16
XML structure 16
Table description 17
Columns 17
TUNNEL/SRv6TunnelIngressBfds 17
XML structure 17
Table description 18
Columns 18
TUNNEL/VXLANDefaultDecap 18
XML structure 18
Table description 19
Columns 19
EOGRE/EoGRE 19
XML structure 19
Table description 20
Columns 20
EOGRE/ServiceTemplatesMap 21
XML structure 21
Table description 22
Columns 22
FLEXSRV6/FlexSRV6Templates 22
XML structure 22
Table description 23
Columns 23
FLEXSRV6/FlexSRv6TemplatesMap 24
XML structure 24
Table description 24
Columns 24

TUNNEL/TunnelGlobalConfig 24
XML structure 24
Table description 25
Columns 25

TUNNEL

TUNNEL/Tunnels

This table contains basic Tunnel information.

XML structure

```
<TUNNEL>
  <Tunnels>
    <Tunnel>
      <ID></ID>
      <Mode></Mode>
      <IPv4Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <IPv6Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv6Addr>
      <Tos></Tos>
      <CopyInnerTos></CopyInnerTos>
      <Dfbit></Dfbit>
      <Ttl></Ttl>
      <OutIfIndex></OutIfIndex>
      <Keepalive>
        <ReplyCheckOnly></ReplyCheckOnly>
        <Interval></Interval>
        <Times></Times>
      </Keepalive>
      <EncapLimit></EncapLimit>
      <VRF></VRF>
      <GRE>
        <Key></Key>
        <Checksum></Checksum>
        <VpcEnable></VpcEnable>
        <P2MPTemplate></P2MPTemplate>
      </GRE>
      <ServiceClass></ServiceClass>
      <P2MP>
        <AgingTime></AgingTime>
        <BackupTunnel></BackupTunnel>
        <BranchIPv4NetMaskLength></BranchIPv4NetMaskLength>
```

```
      <BranchIPv6NetMaskLength></BranchIPv6NetMaskLength>
    </P2MP>
    <StaticRoute>
      <Enable></Enable>
      <Preference></Preference>
    </StaticRoute>
    <SRV6>
      <SRv6SIDListName></SRv6SIDListName>
      <SRv6BackupSIDListName></SRv6BackupSIDListName>
    </SRV6>
    <QosIncludeEncap></QosIncludeEncap>
    <PathMtu></PathMtu>
    <EoGRE>
      <MapVEName></MapVEName>
      <EoGREPortNum></EoGREPortNum>
      <NetworkPolicyID></NetworkPolicyID>
      <APMac></APMac>
    </EoGRE>
    <BFD>
      <BFDEnable></BFDEnable>
      <Template></Template>
    </BFD>
  </Tunnel>
 </Tunnels>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID.	Index	Unsigned integer.	N/A
Mode	Tunnel mode.	N/A	Enumeration: • **1**—GRE tunnel with the transport protocol being IPv4. • **2**—GRE tunnel with the	Mode must be set when creating a tunnel, and cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
			transport protocol being IPv6. • **3**—IPv4 over IPv4 tunnel. • **4**—IPv6 over IPv4 manually configured tunnel. • **5**—IPv6 over IPv4 automatic tunnel. • **6**—IPv6 over IPv4 6to4 tunnel. • **7**—IPv6 over IPv4 ISATAP tunnel. • **8**—IPv6 tunnel. Encapsulates IPv6 or IPv4 packets in IPv6. • **9**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **10**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **11**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **12**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **13**—CRLSP tunnel. • **14**—Multicast GRE tunnel with the transport protocol being IPv4. • **15**—Multicast GRE tunnel with the transport protocol being IPv6. • **16**—IPsec tunnel with the transport protocol being IPv4. • **17**—IPsec tunnel with the transport protocol being IPv6. • **18**—EVI tunnel with the transport protocol being IPv4. • **19**—EVI tunnel with the transport protocol being IPv6. • **20**—EVI link with the transport protocol being IPv4. • **21**—EVI link with the transport protocol being IPv6. • **22**—DS-Lite AFTR tunnel.	modified after creating.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **23**—CRLSP automatic tunnel. • **24**—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **25**—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **26**—NVE tunnel with the transport protocol being IPv4. • **27**—NVE tunnel with the transport protocol being IPv6. • **28**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **29**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **30**—IPv6 over IPv6 tunnel. • **31**—IPv4 over IPv6 tunnel. • **32**—IPv6 over IPv4 6rd tunnel. • **33**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **34**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **35**—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **36**—IPv4 GRE P2MP tunnel. • **37**—IPv6 GRE P2MP tunnel. • **38**—TE P2MP tunnel. • **39**—IPv6 SRLSP tunnel. • **40**—EoGRE tunnel. • **41**—EoGRE in UDP tunnel. • **42**—SDWAN tunnel with the passenger protocol	

Column name	Column description	Column type	Data type and restrictions	Remarks
			being UDP and the transport protocol being IPv4. • **43**—SDWAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **44**—SDWAN extension tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **45**—SDWAN extension tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **46**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv4. • **47**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv6.	
IPv4Addr	IPv4 source and destination address of tunnel.	Data structure	Members include: • SrcAddr • SrcIfIndex • DstAddr	This column is available only for tunnels with the transport protocol being IPv4.
SrcAddr	Tunnel source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
IPv6Addr	IPv6 source and destination address of tunnel.	Data structure	Members include: • SrcAddr • SrcIfIndex • DstAddr	This column is available only for tunnels with the transport protocol being IPv6.
SrcAddr	Tunnel source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SrcIfIndex	Tunnel source	N/A	Unsigned integer.	This column

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface index.			is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
Tos	ToS value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The value 0 indicates that it is copied from the IP header of the inner layer. The value for the ToS column takes precedence over the value for the CopyInnerTos column.
CopyInnerTos	Whether to configure VXLAN tunneled packets to use the ToS of the original packets	N/A	Boolean: • **true**—VXLAN tunneled packets use the ToS of the original packets. • **false**—VXLAN tunneled packets do not use the ToS of the original packets.	The value for the ToS column takes precedence over the value for the CopyInnerTos column.
Dfbit	Indicates whether to set the DF bit in the IP header of the tunneled packet.	N/A	Boolean: • true—sets DF bit • false—does not set DF bit(default).	N/A
Ttl	TTL(Time to live) value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	N/A
OutIfIndex	Tunnel outbound interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in I*fmgr NETCONF*

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML API Configuration Reference.
Keepalive	Enable keepalive function of tunnel	Data structure	Members include: • interval. • times. • ReplyCheckOnly.	Currently, only GRE tunnel and EVI tunnel support this function.
ReplyCheckOnly	Response mode of keepalive	N/A	Boolean: • **true**—The keepalive mode is response mode, which detects only response packets for keepalive. • **false**—The keepalive mode is normal mode.	N/A
Interval	Interval of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767(second). For GRE tunnel, default value is 10, for EVI tunnel, default value is 5.	N/A
Times	Maximum times of retransmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 255. For GRE tunnel, default value is 3, for EVI tunnel, default value is 2.	N/A
EncapLimit	Maximum number of nested encapsulations of a packet allowed on a tunnel interface	N/A	Unsigned integer. Value range: 0 to 10. Default: no limit to the nested encapsulations of a packet	N/A
VRF	VRF to which the tunnel destination belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
GRE	Parameters of GRE tunnel	Data structure	Members include: • key. • checksum.	Only GRE tunnel support these parameters.
Key	Key to check for the validity of packets received on a GRE tunnel interface.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: no key is set.	N/A
Checksum	Whether to check GRE checksum	N/A	Boolean: • true—check GRE checksum. • false—does not check GRE checksum(default).	N/A
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: • true—Carry. • false—Not carry.	N/A
P2MPTemplate	GRE P2MP tunnel template.	N/A	String. Length: 1 to 31 characters.	N/A
ServiceClass	Service class for a tunnel.	N/A	Unsigned integer. The value range varies by device model.	N/A
P2MP	GRE P2MP tunnel parameters	Data structure	Members include: • AgingTime. • BackupTunnel. • BrachIPv4NetMaskLength. • BrachIPv6NetMaskLength.	Only GRE P2MP tunnel support these parameters.
AgingTime	The aging time of the GRE P2MP tunnel	N/A	Unsigned integer. Value range: 1 to 86400. Default: 5s.	N/A
BackupTunnel	The backup tunnel interface for a GRE P2MP tunnel	N/A	Unsigned integer.	N/A
BrachIPv4NetMaskLength	GRE P2MP branch IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32. Default: 32.	N/A
BrachIPv6NetMaskLength	GRE P2MP branch IPv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128. Default: 128.	N/A
StaticRoute	Static routing parameters of tunnel	Data structure	Members include: • enabel. • preference.	Only TE and P2MP tunnel support these parameters.
Enable	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	enable automatic configuration of a static route on the tunnel		• true—Enable. • false—Disable(default).	
Preference	Preference of the static route	N/A	Unsigned integer. Value range: 1 to 255.	The default value of preference is 60. This column is configurable only if the enable column has a value of true.
SRV6	IPv6 SR tunnel parameters	Data structure	Members include: • SRv6SIDListName. • SRv6BackupSIDListName.	Only IPv6 SR tunnel support these parameters.
SRv6SIDListName	SID list name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SRv6BackupSIDListName	Backup SID list name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QosIncludeEncap	Apply QoS policy to encapsulated packets	N/A	Boolean: • true—Apply QoS policy to encapsulated packets false—Apply QoS policy to original packets	The default value is false. Only IPsec, IPsec-P2MP, IPsec IPv6, and IPsec-P2MP IPv6 tunnels support this feature.
PathMtu	Indicates whether to enable Path Mtu discovery for GRE tunnel or VXLAN tunnel.	N/A	Boolean: • true—enable pathmtu discovery false—disable pathmtu discovery.	The default value is false. Only GRE, GRE-P2MP, VXLAN IPv4, and ,VXLAN IPv6，IPSEC tunnels support this feature
EoGRE	EoGRE tunnel information	Data structure	Members include: • MapVEName. • EoGREPortNum. • NetworkPolicyID. APMAC.	N/A
MapVEName	Name of the virtual Ethernet bridge (VEB)	N/A	String, case-sensitive. Length: 1 to 47 characters.	Support interface name.

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface mapped to the tunnel interface			
EoGREPortNum	Destination UDP port number in EoGRE tunneled packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 4754.	N/A
NetworkPolicyID	ID of the network policy used by the tunnel to forward user traffic	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
APMAC	AP MAC address carried in EoGRE tunneled packets	N/A	Enumeration: • **1**—Uses the bridge MAC address as the AP MAC address. **2—**Uses the BSSID as the AP MAC address.	N/A
BFD	BFD parameters	Data structure	Members include: • BFDEnable • **Template**	N/A
BFDEnable	BFD enable	N/A	Boolean: • **true**—BFD Enable • **false—BFD Disable**	N/A
Template	Template name	N/A	String, case sensitive. Length: 1 to 63 characters.	Default: NULL.

TUNNEL/GlobalConfig

This table contains global configuration information.

XML structure

```
<TUNNEL>
  <GlobalConfig>
    <VxlanUdpPort></VxlanUdpPort>
    <DropInvalidChksumPkt></DropInvalidChksumPkt>
    <DropInvalidVlanTagPkt></DropInvalidVlanTagPkt>
    <VxlanIpForward></VxlanIpForward>
    <VxlanMappingECNEnable></VxlanMappingECNEnable>
  </GlobalConfig>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanUdpPort	UDP port on which tunnel receives VXLAN packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 4789.	N/A
DropInvalidChksumPkt	Whether to drop VXLAN packets with invalid UDP checksum	N/A	Boolean: • true—drop • false—not drop (default)	N/A
DropInvalidVlanTagPkt	Whether to drop VXLAN packets with invalid VLAN tag after tunnel de-encapsulation	N/A	Boolean: • true—drop • false—not drop (default)	N/A
VxlanIpForward	Whether to use the L3 forwarding mode	N/A	Boolean: • true—Use L3 forwarding mode (default) • false—Use L2 forwarding mode	N/A
VxlanMappingECNEnable	Whether to enable VXLAN ECN Overlay	N/A	Boolean: • true—enable • false—disable	N/A

TUNNEL/GREP2MPTemplates

This table contains GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplates>
    <GREP2MPTemplate>
      <TemplateName></TemplateName>
    </GREP2MPTemplate>
  </GREP2MPTemplates>
```

```
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplates
Table type	Multi-instance table
Row name	GREP2MPTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/GREP2MPTemplateMaps

This table contains map information about tunnel mapping entries in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplateMaps>
    <GREP2MPTemplateMap>
      <TemplateName></TemplateName>
      <VrfIndex></VrfIndex>
      <VpcId></VpcId>
      <BranchNetworkIPAddr></BranchNetworkIPAddr>
      <BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
      <TunnelDestIPAddr></TunnelDestIPAddr>
      <ChecksumFill></ChecksumFill>
    </GREP2MPTemplateMap>
  </GREP2MPTemplateMaps>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL

Item	Description
Table name	GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	GREP2MPTemplateMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel mapping.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
VpcId	VPC ID for a tunnel mapping	N/A	Unsigned integer.	Example: 123.
BranchNetworkIPAddr	Branch network IP address for a tunnel mapping.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IP address.	Index	String, dotted decimal notation.	The member of BranchNetworkIPAddr must also be specified.
TunnelDestIPAddr	Tunnel destination IP address for a tunnel mapping.	Index	String, dotted decimal notation.	Example: 2.2.2.2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

TUNNEL/IP6GREP2MPTemplates

This table contains information about IPv6 GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <IP6GREP2MPTemplates>
    <IP6GREP2MPTemplate>
```

```
      <TemplateName></TemplateName>
    </IP6GREP2MPTemplate>
  </IP6GREP2MPTemplates>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	IP6GREP2MPTemplates
Table type	Multi-instance table
Row name	IP6GREP2MPTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	IPv6 GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/IP6GREP2MPTemplateMaps

This table contains information about IPv6 tunnel mapping entries in IPv6 GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <IP6GREP2MPTemplateMaps>
    <IP6GREP2MPTemplateMap>
      <TemplateName></TemplateName>
      <VrfIndex></VrfIndex>
      <BranchNetworkIPAddr></BranchNetworkIPAddr>
      <BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
      <TunnelDestIPv6Addr></TunnelDestIPv6Addr>
      <ChecksumFill></ChecksumFill>
    </IP6GREP2MPTemplateMap>
  </IP6GREP2MPTemplateMaps>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	IP6GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	IP6GREP2MPTemplateMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	IPv6 GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel mapping.	Index	Unsigned integer.	Some versions support VRF name (VPN instance name). For more information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
BranchNetworkIPAddr	Branch network IPv4 address for a tunnel mapping.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IPv4 address.	Index	String, dotted decimal notation.	BranchNetworkIPAddr must also be specified.
TunnelDestIPv6Addr	Tunnel destination IPv6 address for a tunnel mapping.	Index	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

TUNNEL/VXLANBFDs

This table contains VXLAN tunnel BFD information.

XML structure

```
<TUNNEL>
  <VXLANBFDs>
```

```
    <VXLANBFD>
      <ID></ID>
      <Enable></Enable>
      <DMAC></DMAC>
      <MinRx></MinRx>
      <MinTx></MinTx>
    </VXLANBFD>
  </VXLANBFDs>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	VXLANBFDs
Table type	Multi-instance table
Row name	VXLANBFD
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID	Index	Unsigned integer.	N/A
Enable	Whether BFD is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
DMAC	Destination MAC address	N/A	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	N/A
MinRx	The minimum receiving interval of BFD	N/A	Unsigned integer. Unit: ms	Depend on device.
MinTx	The minimum sending interval of BFD	N/A	Unsigned integer. Unit: ms	Depend on device.

TUNNEL/SRv6SIDLists

This table contains information about IPv6 tunnel mapping entries in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
```

```
  <SRv6SIDLists>
    <SRv6SIDList>
      <SIDListName></SIDListName>
      <SIDAttribute>
        <Index></Index>
        <Sid></Sid>
      </SIDAttribute>
    </SRv6SIDList>
  </SRv6SIDLists>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	SRv6SIDLists
Table type	Multi-instance table
Row name	SRv6SIDList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SIDListName	IPv6 GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
SIDAttribute	IPv6 SR SID attribute.	Data structure	Members include: • Index. • Sid.	N/A
Index	The index of the noe in the IPv6 SR SID list.	N/A	Unsigned integer.	N/A
Sid	IPv6 address of the node.	N/A	Hexadecimal string, colon-separated.	Example: 1::1.

TUNNEL/SRv6TunnelIngressBfds

This table contains information about IPv6 tunnel mapping entries in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <SRv6TunnelIngressBfds>
    <SRv6TunnelIngressBfd>
```

```
      <TunnelID></TunnelID>
      <SRv6BfdWorkMode></SRv6BfdWorkMode>
    </SRv6TunnelIngressBfd>
  </SRv6TunnelIngressBfds>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	SRv6TunnelIngressBfds
Table type	Multi-instance table
Row name	SRv6TunnelIngressBfd
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IPv6 SR tunnel template name.	Index	Unsigned integer.	N/A
SRv6BfdWorkMode	IPv6 SR tunnel work mode.	N/A	Unsigned integer. Value range: 1 to 2.	2-turn on the BFD detection feature.

TUNNEL/VXLANDefaultDecap

This table contains information about VXLAN tunnel default decap interface.

XML structure

```
<TUNNEL>
  <VXLANDefaultDecap>
    <SourceInterface></SourceInterface>
    <SourceInterfaceIPv6></SourceInterfaceIPv6>
    <DefaultDecapEnable></DefaultDecapEnable>
    <DefaultDecapEnableIPv6></DefaultDecapEnableIPv6>
  </VXLANDefaultDecap>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	VXLANDefaultDecap
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceInterface	Interface index.	N/A	Unsigned integer.	N/A
SourceInterfaceIPv6	Interface index for IPv6.	N/A	Unsigned integer.	N/A
DefaultDecapEnable	Whether default IPv4 VXLAN decapsulation is enabled	N/A	Boolean: • true—Enabled. • false—Disabled. (default)	N/A
DefaultDecapEnableIPv6	Whether default IPv6 VXLAN decapsulation is enabled	N/A	Boolean: • true—Enabled. • false—Disabled. (default)	N/A

EOGRE/EoGRE

This table contains EoGRE template information.

XML structure

```
<EOGRE>
  <EoGRE>
    <Eogre>
      <EoGREName></EoGREName>
      <Mode></Mode>
      <IPv4Addr>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <Tos></Tos>
      <Keepalive>
        <Interval></Interval>
        <Times></Times>
      </Keepalive>
```

```
      <PathMtu></PathMtu>
      <EoGREPortNum></EoGREPortNum>
      <Carry>
        <NetworkPolicyID></NetworkPolicyID>
        <APMac></APMac>
      </Carry>
      <Mtu></Mtu>
    </Eogre>
  </EoGRE>
</EOGRE>
```

Table description

Item	Description
Feature name	EOGRE
Table name	EoGRE
Table type	Multi-instance table
Row name	Eogre
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EoGREName	EoGRE template name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A.
Mode	Tunnel mode	N/A	Enumeration: • **1**—EoGRE tunnel mode. • **2**—EoGRE in UDP tunnel mode. Default: 2.	N/A.
IPv4Addr	IPv4 address information of the EoGRE tunnel	Data structure	Members include: • DstAddr.	This column is available only for tunnels with the transport protocol being IPv4.
DstAddr	Tunnel destination IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
Tos	ToS value in the IP header of tunneled packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The value 0 indicates that it is copied from the IP header of the inner layer.
Keepalive	Keepalive parameters of the tunnel	Data structure	Members include: • Interval. • Times.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval for transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767, in seconds. Default: 10.	N/A
Times	Maximum times of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 255. Default: 3.	N/A
PathMtu	Whether to enable path MTU discovery for the EoGRE tunnel	N/A	Boolean: • **true**—Enables path MTU discovery. • **false**—Disables path MTU discovery.	The default value is false.
EoGREPortNum	Destination UDP port number in EoGRE tunneled packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 4754.	N/A
Carry	Extension fields carried in EoGRE tunneled packets	Data structure	Members include: • NetworkPolicyID. • APMAC.	N/A
NetworkPolicyID	ID of the network policy used by the tunnel to forward user traffic	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
APMAC	AP MAC address carried in EoGRE tunneled packets	N/A	Enumeration: • **1**—Uses the bridge MAC address as the AP MAC address. • **2**—Uses the BSSID as the AP MAC address.	N/A
Mtu	Maximum transmission unit	N/A	Unsigned integer. Value range: 100 to 64000 in bytes. Default: 64000.	N/A

EOGRE/ServiceTemplatesMap

This table contains mappings between service templates and EoGRE templates.

XML structure

```
<EOGRE>
  <ServiceTemplatesMap>
    <TemplatesMap>
      <TemplateName></TemplateName>
      <EoGREName></EoGREName>
    </TemplatesMap>
```

```
  </ServiceTemplatesMap>
</EOGRE>
```

Table description

Item	Description
Feature name	EOGRE
Table name	ServiceTemplatesMap
Table type	Multi-instance table
Row name	TemplatesMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
TemplateName	Service template name	Index	String, case-sensitive. Length: 1 to 63 characters.
EoGREName	EoGRE template name	N/A.	String, case-sensitive. Length: 1 to 63 characters.

FLEXSRV6/FlexSRV6Templates

This table contains flex-srv6 tunnel information.

XML structure

```
<FLEXSRV6>
  <FlexSRV6Templates>
    <Templates>
      <TemplateName></TemplateName>
      <LocalLocator>
        <LocalIP6Addr></LocalIP6Addr>
        <CommonLen></CommonLen>
      </LocalLocator>
      <RemoteLocator>
        <RemoteIP6Addr></RemoteIP6Addr>
        <CommonLen></CommonLen>
      </RemoteLocator>
      <DstAddr></DstAddr>
      <Tos></Tos>
      <Mtu></Mtu>
      <TCPMss></TCPMss>
```

```
    </Templates>
  </FlexSRV6Templates>
</FLEXSRV6>
```

Table description

Item	Description
Feature name	FLEXSRV6
Table name	FlexSRV6Templates
Table type	Multi-instance table
Row name	Templates
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	Flex-SRv6 template name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A.
LocalLocator	Information of the local locator	Data structure	Members include: • LocatorIP6Addr. • CommonLen	N/A
LocatorIP6Addr	Local locator IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 2000::.
CommonLen	The srv6 common length	N/A	Unsigned integer. Value range: 32 to 90	N/A
RemoteLocator	Information of the remote locator	Data structure	Members include: • RemoteIP6Addr. • CommonLen	N/A
RemoteIP6Addr	Remote locator IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 3000::.
CommonLen	The srv6 common length	N/A	Unsigned integer. Value range: 32 to 90	N/A
DstAddr	Destination IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
Tos	ToS value in the IPV6 header of tunneled packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Mtu	Maximum transmission unit	N/A	Unsigned integer. Value range: 100 to 64000 in bytes. Default: 64000.	N/A
TCPMss	TCP max segment size	N/A	Unsigned integer. Value range: 128 to 63960	N/A

FLEXSRV6/FlexSRv6TemplatesMap

This table contains mappings between wlan ap and flex-srv6 templates.

XML structure

```
<FLEXSRV6>
  <FlexSRv6TemplatesMap>
    <TemplatesMap>
      <WlanAPName></WlanAPName>
      <TemplateName></TemplateName>
    </TemplatesMap>
  </FlexSRv6TemplatesMap>
</FLEXSRV6>
```

Table description

Item	Description
Feature name	FLEXSRV6
Table name	FlexSRv6TemplatesMap
Table type	Multi-instance table
Row name	TemplatesMap
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanAPNam e	Wlan ap name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
TemplateNa me	Flex-SRv6 template name	N/A.	String, case-sensitive. Length: 1 to 63 characters.	N/A

TUNNEL/TunnelGlobalConfig

This table contains tunnel global configuration information.

XML structure

```
<TUNNEL>
  <TunnelGlobalConfig>
    <TunnelStatics>
      <TunnelMode></TunnelMode>
```

```
    </TunnelStatics>
  </TunnelGlobalConfig>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	TunnelGlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelStatics	The information of tunnel statistics	Data structure	Members include: • TunnelMode	N/A
TunnelMode	Tunnel statistics mode.	N/A	Boolean: • **true**—encapsulation mode**.** • **false**—Payload mode.	N/A

Contents

TUNNEL 1

TUNNEL/Tunnels 1
XML structure 1
Table description 2
Columns 2
TUNNEL/AvailableTunnelID 10
XML structure 11
Table description 11
Columns 11
TUNNEL/GlobalConfig 11
XML structure 11
Table description 12
Columns 12
TUNNEL/TotalNums 13
XML structure 13
Table description 13
Columns 13
TUNNEL/AvailableSrcIfTypes 16
XML structure 16
Table description 16
Columns 16
TUNNEL/GREP2MPTemplates 16
XML structure 16
Table description 17
Columns 17
TUNNEL/GREP2MPTemplateMaps 17
XML structure 17
Table description 18
Columns 18
TUNNEL/IP6GREP2MPTemplates 18
XML structure 18
Table description 19
Columns 19
TUNNEL/IP6GREP2MPTemplateMaps 19
XML structure 19
Table description 19
Columns 20
TUNNEL/VXLANBFDs 20
XML structure 20
Table description 21
Columns 21
TUNNEL/SRv6SIDLists 21
XML structure 21
Table description 22
Columns 22
TUNNEL/SRv6TunnelIngressBfds 22
XML structure 22
Table description 23
Columns 23
TUNNEL/Statistics 23
XML structure 23
Table description 23
Columns 24
TUNNEL/VXLANDefaultDecap 24
XML structure 24
Table description 24
Columns 25

EOGRE/EoGRE 25
XML structure 25
Table description 26
Columns 26
EOGRE/ServiceTemplatesMap 27
XML structure 27
Table description 28
Columns 28
FLEXSRV6/FlexSRV6Templates 28
XML structure 28
Table description 29
Columns 29
FLEXSRV6/FlexSRv6TemplatesMap 30
XML structure 30
Table description 30
Columns 30
TUNNEL/TunnelGlobalConfig 30
XML structure 31
Table description 31
Columns 31

TUNNEL

TUNNEL/Tunnels

This table contains basic Tunnel information.

XML structure

```
<TUNNEL>
  <Tunnels>
    <Tunnel>
      <ID></ID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <IPv4Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <SrcIfName></SrcIfName>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <IPv6Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <SrcIfName></SrcIfName>
        <DstAddr></DstAddr>
      </IPv6Addr>
      <Connectivity></Connectivity>
      <Tos></Tos>
      <CopyInnerTos></CopyInnerTos>
      <Dfbit></Dfbit>
      <Ttl></Ttl>
      <OutIfIndex></OutIfIndex>
      <OutIfName></OutIfName>
      <Keepalive>
        <ReplyCheckOnly></ReplyCheckOnly>
        <Interval></Interval>
        <Times></Times>
      </Keepalive>
      <EncapLimit></EncapLimit>
      <VRF></VRF>
      <GRE>
        <Key></Key>
        <Checksum></Checksum>
        <VpcEnable></VpcEnable>
        <P2MPTemplate></P2MPTemplate>
      </GRE>
```

```
      <ServiceClass></ServiceClass>
      <P2MP>
        <AgingTime></AgingTime>
        <BackupTunnel></BackupTunnel>
        <BranchIPv4NetMaskLength></BranchIPv4NetMaskLength>
        <BranchIPv6NetMaskLength></BranchIPv6NetMaskLength>
      </P2MP>
      <StaticRoute>
        <Enable></Enable>
        <Preference></Preference>
      </StaticRoute>
      <SRV6>
        <SRv6SIDListName></SRv6SIDListName>
        <SRv6BackupSIDListName></SRv6BackupSIDListName>
      </SRV6>
      <QosIncludeEncap></QosIncludeEncap>
      <PathMtu></PathMtu>
      <EoGRE>
        <MapVEName></MapVEName>
        <EoGREPortNum></EoGREPortNum>
        <NetworkPolicyID></NetworkPolicyID>
        <APMac></APMac>
      </EoGRE>
      <BFD>
        <BFDEnable></BFDEnable>
        <Template></Template>
      </BFD>
    </Tunnel>
  </Tunnels>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID.	Index	Unsigned integer.	ID

Mode	Tunnel mode.	N/A	Enumeration: • **1**—GRE tunnel with the transport protocol being IPv4. • **2**—GRE tunnel with the transport protocol being IPv6. • **3**—IPv4 over IPv4 tunnel. • **4**—IPv6 over IPv4 manually configured tunnel. • **5**—IPv6 over IPv4 automatic tunnel. • **6**—IPv6 over IPv4 6to4 tunnel. • **7**—IPv6 over IPv4 ISATAP tunnel. • **8**—IPv6 tunnel. Encapsulates IPv6 or IPv4 packets in IPv6. • **9**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **10**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **11**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **12**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **13**—CRLSP tunnel. • **14**—Multicast GRE tunnel with the transport protocol being IPv4. • **15**—Multicast GRE tunnel with the transport protocol being IPv6. • **16**—IPsec tunnel with the transport protocol being IPv4. • **17**—IPsec tunnel with the transport protocol being IPv6. • **18**—EVI tunnel with the transport protocol being IPv4. • **19**—EVI tunnel with the transport protocol being IPv6. • **20**—EVI link with the transport protocol being IPv4. • **21**—EVI link with the transport protocol being	Mode

			IPv6. • **22**—DS-Lite AFTR tunnel. • **23**—CRLSP automatic tunnel. • **24**—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **25**—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **26**—NVE tunnel with the transport protocol being IPv4. • **27**—NVE tunnel with the transport protocol being IPv6. • **28**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **29**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **30**—IPv6 over IPv6 tunnel. • **31**—IPv4 over IPv6 tunnel. • **32**—IPv6 over IPv4 6rd tunnel. • **33**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **34**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **35**—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **36**—IPv4 GRE P2MP tunnel. • **37**—IPv6 GRE P2MP tunnel. • **38**—TE P2MP tunnel. • **39**—IPv6 SRLSP tunnel. • **40**—EoGRE tunnel. • **41**—EoGRE in UDP tunnel. • **42**—SDWAN tunnel with the passenger protocol being UDP and the	

			transport protocol being IPv4. • **43**—SDWAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **44**—SDWAN extension tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **45**—SDWAN extension tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **46**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv4. • **47**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv6.	
IfIndex	Interface index of tunnel	N/A	Unsigned integer.	N/A
IPv4Addr	IPv4 source and destination address of tunnel.	Data structure	Members include: • SrcAddr • SrcIfIndex • DstAddr	This column is available only for tunnels with the transport protocol being IPv4.
SrcAddr	Tunnel source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
SrcIfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
IPv6Addr	IPv6 source and destination address of tunnel.	Data structure	Members include: • SrcAddr • SrcIfIndex • DstAddr	This column is available only for tunnels with the transport protocol

				being IPv6.
SrcAddr	Tunnel source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
SrcIfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
Connectivity	Tunnel connectivity	N/A	Enumeration: • 1—Connected. • 2—Disconnected. • 3—Detecting. • 4—Unknown.	Use “ping” to detect if tunnel remote is connected.
Tos	Tos value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 0 to 255.	The value 0 indicates that it is copied from the IP header of the inner layer. The value for the ToS column takes precedence over the value for the CopyInnerTo s column.
CopyInnerTos	Whether to configure VXLAN tunneled packets to use the ToS of the original packets	N/A	Boolean: • **true**—VXLAN tunneled packets use the ToS of the original packets. • **false**—VXLAN tunneled packets do not use the ToS of the original packets.	The value for the ToS column takes precedence over the value for the CopyInnerTo s column.
Dfbit	Indicates whether to set the DF bit in the IP header of the tunneled packet.	N/A	Boolean: • true—sets DF bit • false—does not set DF bit.	N/A
Ttl	TTL(Time to live) value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

OutIfIndex	Tunnel outbound interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in I*fmgr NETCONF XML API Configuration Reference*.
OutIfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in I*fmgr NETCONF XML API Configuration Reference*.
Keepalive	Enable keepalive function of tunnel	Data structure	Members include: • interval. • times. • ReplyCheckOnly.	Currently, only GRE tunnel and EVI tunnel support this function.
ReplyCheckOnly	Response mode of keepalive	N/A	Boolean: • **true**—The keepalive mode is response mode, which detects only response packets for keepalive. • **false**—The keepalive mode is normal mode.	N/A
Interval	Interval of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767(second).	N/A
Times	Maximum times of retransmitting keepalive	N/A	Unsigned integer. Value range: 1 to 255.	N/A

	packets			
EncapLimit	Maximum number of nested encapsulations of a packet allowed on a tunnel interface	N/A	Unsigned integer. Value range: 0 to 10.	N/A
VRF	VRF to which the tunnel destination belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
GRE	Parameters of GRE tunnel	Data structure	Members include: • key. • checksum.	Only GRE tunnel support these parameters.
Key	Key to check for the validity of packets received on a GRE tunnel interface.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Checksum	Whether to check GRE checksum	N/A	Boolean: • true—check GRE checksum. • false—does not check GRE checksum.	N/A
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: • true—Carry. • false—Not carry.	N/A
P2MPTemplate	GRE P2MP tunnel template.	N/A	String. Length: 1 to 31 characters.	N/A
ServiceClass	Service class for a tunnel.	N/A	Unsigned integer. The value range varies by device model.	N/A
P2MP	GRE P2MP tunnel parameters	Data structure	Members include: • AgingTime. • BackupTunnel.	Only GRE P2MP tunnel support these parameters.

			• BrachIPv4NetMaskLength. • BrachIPv6NetMaskLength.	
AgingTime	The aging time of the GRE P2MP tunnel	N/A	Unsigned integer. Value range: 1 to 86400. Default: 5s.	N/A
BackupTunnel	The backup tunnel interface for a GRE P2MP tunnel	N/A	Unsigned integer.	N/A
BrachIPv4NetMaskLength	GRE P2MP branch IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32. Default: 32.	N/A
BrachIPv6NetMaskLength	GRE P2MP branch IPv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128. Default: 128.	N/A
StaticRoute	Static routing parameters of tunnel	Data structure	Members include: • Enable. • Preference.	Only TE and P2MP tunnel support these parameters.
Enable	Whether to enable automatic configuration of a static route on the tunnel	N/A	Boolean: • true—Enable. • false—Disable.	N/A
Preference	Preference of the static route	N/A	Unsigned integer. Value range: 1 to 255.	The default value of preference is 60. This column is configurable only if the enable column has a value of true.
SRV6	IPv6 SR tunnel parameters	Data structure	Members include: • SRv6SIDListName. • SRv6BackupSIDListName.	Only IPv6 SR tunnel support these parameters.
SRv6SIDListName	SID list name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SRv6BackupSIDListName	SID list Backup name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QosIncludeEncap	Apply QoS policy to encapsulated packets	N/A	Boolean: • true—Apply QoS policy to encapsulated packets false—Apply QoS policy to original packets	Only IPsec, IPsec-P2MP, IPsec IPv6, and IPsec-P2MP IPv6 tunnels support this

				feature.
PathMtu	Indicates whether to enable Path Mtu discovery for GRE tunnel or VXLAN tunnel.	N/A	Boolean: • true—enable pathmtu discovery false—disable pathmtu discovery.	Only GRE, GRE-P2MP, VXLAN IPv4, and ,VXLAN IPv6，IPSEC tunnels support this feature
EoGRE	EoGRE tunnel information	Data structure	Members include: • MapVEName. EoGREPortNum.	N/A
MapVEName	Name of the virtual Ethernet bridge (VEB) interface bound to the tunnel interface	N/A	String, case-sensitive. Length: 1 to 47 characters.	Support interface name.
EoGREPortNum	Destination UDP port number in EoGRE tunneled packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 4754.	N/A
NetworkPolicyID	ID of the network policy used by the tunnel to forward user traffic	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
APMAC	AP MAC address carried in EoGRE tunneled packets	N/A	Enumeration: • **1**—Uses the bridge MAC address as the AP MAC address. **2—**Uses the BSSID as the AP MAC address.	N/A
BFD	BFD parameters	Data structure	Members include: • BFDEnable • **Template**	N/A
BFDEnable	BFD enable	N/A	Boolean: • **true**—BFD Enable • **false—BFD Disable**	N/A
Template	Template name	N/A	String, case sensitive. Length: 1 to 63 characters.	Default: NULL.

TUNNEL/AvailableTunnelID

This table contains the available tunnel ID.

XML structure

```
<TUNNEL>
  <AvailableTunnelID>
    <ID></ID>
  </AvailableTunnelID>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	AvailableTunnelID
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Available tunnel ID	N/A	Unsigned integer.	N/A

TUNNEL/GlobalConfig

This table contains global configuration information.

XML structure

```
<TUNNEL>
  <GlobalConfig>
    <VxlanUdpPort></VxlanUdpPort>
    <DropInvalidChksumPkt></DropInvalidChksumPkt>
    <DropInvalidVlanTagPkt></DropInvalidVlanTagPkt>
    <VxlanIpForwarding></VxlanIpForwarding>
    <SupportSRv6></SupportSRv6>
    <SRv6MaxSidDepth></SRv6MaxSidDepth>
    <VxlanMappingECNEnable></VxlanMappingECNEnable>
  </GlobalConfig>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanUdpPort	Specifies the UDP port on which tunnel receive VXLAN packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DropInvalidChksumPkt	Specifies the action of whether or not to drop VXLAN packets with invalid UDP checksum.	N/A	Boolean: • true—drop • false—not drop	N/A
DropInvalidVlanTagPkt	Specifies the action of whether or not to drop VXLAN packets with invalid VLAN tag after tunnel de-encapsulation.	N/A	Boolean: • true—drop • false—not drop	N/A
VxlanIpForwarding	Specifies the action of whether or not to use the L3 forwarding mode.	N/A	Boolean: • true—using L3 forwarding mode • false—using L2 forwarding mode	N/A
SupportSRv6	Whether the IPv6 SR is supported.	N/A	Boolean: • true • false	N/A
SRv6MaxSidDepth	IPv6 SR SID list max index.	N/A	Unsigned integer.	N/A
VxlanMappingECNEnable	Whether to enable VXLAN ECN Overlay	N/A	Boolean: • true—enable • false—disable	N/A

TUNNEL/TotalNums

This table contains total number of tunnels.

XML structure

```
<TUNNEL>
  <TotalNums>
    <TotalNum>
      <Mode></Mode>
      <Num></Num>
    </TotalNum>
  </TotalNums>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	TotalNums
Table type	Multi-instance table
Row name	TotalNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Tunnel mode.	Index	Enumeration: • **1**—GRE tunnel with the transport protocol being IPv4. • **2**—GRE tunnel with the transport protocol being IPv6. • **3**—IPv4 over IPv4 tunnel. • **4**—IPv6 over IPv4 manually configured tunnel. • **5**—IPv6 over IPv4 automatic tunnel. • **6**—IPv6 over IPv4 6to4 tunnel. • **7**—IPv6 over IPv4 ISATAP tunnel. • **8**—IPv6 tunnel. Encapsulates IPv6 or	N/A

			IPv4 packets in IPv6. • **9**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **10**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **11**—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **12**—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **13**—CRLSP tunnel. • **14**—Multicast GRE tunnel with the transport protocol being IPv4. • **15**—Multicast GRE tunnel with the transport protocol being IPv6. • **16**—IPsec tunnel with the transport protocol being IPv4. • **17**—IPsec tunnel with the transport protocol being IPv6. • **18**—EVI tunnel with the transport protocol being IPv4. • **19**—EVI tunnel with the transport protocol being IPv6. • **20**—EVI link with the transport protocol being IPv4. • **21**—EVI link with the transport protocol being IPv6. • **22**—DS-Lite AFTR tunnel. • **23**—CRLSP automatic tunnel. • **24**—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **25**—VXLAN tunnel with the passenger protocol being UDP and the transport	

			protocol being IPv6. • **26**—NVE tunnel with the transport protocol being IPv4. • **27**—NVE tunnel with the transport protocol being IPv6. • **28**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **29**—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • **30**—IPv6 over IPv6 tunnel. • **31**—IPv4 over IPv6 tunnel. • **32**—IPv6 over IPv4 6rd tunnel. • **33**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • **34**—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • **35**—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • **36**—IPv4 GRE P2MP tunnel. • **37**—IPv6 GRE P2MP tunnel. • **38**—TE P2MP tunnel. • **39**—IPv6 SRLSP tunnel. • **46**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv4. • **47**—SDWAN tunnel with the passenger protocol being SRv6 and the transport protocol being IPv6.	
Num	Number of tunnels.	N/A	Unsigned integer.	N/A

TUNNEL/AvailableSrcIfTypes

This table contains source interface types of tunnel.

XML structure

```
<TUNNEL>
  <AvailableSrcIfTypes>
    <AvailableSrcIfType>
      <IfIndex></IfIndex>
      <Name></Name>
      <AbbreviatedName></AbbreviatedName>
    </AvailableSrcIfType>
  </AvailableSrcIfTypes>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	AvailableSrcIfTypes
Table type	Multi-instance table
Row name	AvailableSrcIfType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Abbreviated Name	Abbreviated name of an interface	N/A	String. Length: 2 to 47 characters.	N/A

TUNNEL/GREP2MPTemplates

This table contains GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplates>
    <GREP2MPTemplate>
```

```
      <TemplateName></TemplateName>
    </GREP2MPTemplate>
  </GREP2MPTemplates>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplates
Table type	Multi-instance table
Row name	GREP2MPTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/GREP2MPTemplateMaps

This table contains map information about tunnel mapping entries in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplateMaps>
    <GREP2MPTemplateMap>
      <TemplateName></TemplateName>
      <VrfIndex></VrfIndex>
      <VpcId></VpcId>
      <BranchNetworkIPAddr></BranchNetworkIPAddr>
      <BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
      <TunnelDestIPAddr></TunnelDestIPAddr>
      <ChecksumFill></ChecksumFill>
    </GREP2MPTemplateMap>
  </GREP2MPTemplateMaps>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	GREP2MPTemplateMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel map.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
VpcId	VPC ID for a tunnel mapping	N/A	Unsigned integer.	Example: 123.
BranchNetworkIPAddr	Branch network IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IP address.	Index	String, dotted decimal notation.	The member of BranchNetworkIPAddr must also be specified.
TunnelDestIPAddr	Tunnel destination IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 2.2.2.2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

TUNNEL/IP6GREP2MPTemplates

This table contains information about IPv6 GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <IP6GREP2MPTemplates>
    <IP6GREP2MPTemplate>
      <TemplateName></TemplateName>
```

```
    </IP6GREP2MPTemplate>
  </IP6GREP2MPTemplates>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	IP6GREP2MPTemplates
Table type	Multi-instance table
Row name	IP6GREP2MPTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	IPv6 GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/IP6GREP2MPTemplateMaps

This table contains information about IPv6 tunnel mapping entries in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <IP6GREP2MPTemplateMaps>
    <IP6GREP2MPTemplateMap>
      <TemplateName></TemplateName>
      <VrfIndex></VrfIndex>
      <BranchNetworkIPAddr></BranchNetworkIPAddr>
      <BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
      <TunnelDestIPv6Addr></TunnelDestIPv6Addr>
      <ChecksumFill></ChecksumFill>
    </IP6GREP2MPTemplateMap>
  </IP6GREP2MPTemplateMaps>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL

Table name	IP6GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	IP6GREP2MPTemplateMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	IPv6 GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel mapping.	Index	Unsigned integer.	Some versions support VRF name (VPN instance name). For more information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in *L3vpn NETCONF XML API Data Reference*.
BranchNetworkIPAddr	Branch network IPv4 address for a tunnel mapping.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IPv4 address.	Index	String, dotted decimal notation.	The member of BranchNetworkIPAddr must also be specified.
TunnelDestIPv6Addr	Tunnel destination IPv6 address for a tunnel mapping.	Index	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

TUNNEL/VXLANBFDs

This table contains VXLAN tunnel BFD information.

XML structure

```
<TUNNEL>
  <VXLANBFDs>
    <VXLANBFD>
      <ID></ID>
      <Enable></Enable>
      <DMAC></DMAC>
      <MinRx></MinRx>
      <MinTx></MinTx>
    </VXLANBFD>
```

```
  </VXLANBFDs>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	VXLANBFDs
Table type	Multi-instance table
Row name	VXLANBFD
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID	Index	Unsigned integer.	N/A
Enable	Whether BFD is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
DMAC	Destination MAC address	N/A	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	N/A
MinRx	The minimum receiving interval of BFD	N/A	Unsigned integer. Unit: ms	Depend on device.
MinTx	The minimum sending interval of BFD	N/A	Unsigned integer. Unit: ms	Depend on device.

TUNNEL/SRv6SIDLists

This table contains SID list node information of IPv6 SR tunnel.

XML structure

```
<TUNNEL>
  <SRv6SIDLists>
    <SRv6SIDList>
      <SIDListName></SIDListName>
      <SIDAttribute>
        <Index></Index>
        <Sid></Sid>
      </SIDAttribute>
    </SRv6SIDList>
```

```
  </SRv6SIDLists>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	SRv6SIDLists
Table type	Multi-instance table
Row name	SRv6SIDList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SIDListName	IPv6 SR SID list name.	Index	String. Length: 1 to 31 characters.	N/A
SIDAttribute	IPv6 SR SID attribute.	Data structure	Members include: • Index. • Sid.	N/A
Index	The index of the noe in the IPv6 SR SID list.	N/A	Unsigned integer.	N/A
Sid	IPv6 address of the node.	N/A	Hexadecimal string, colon-separated.	Example: 1::1.

TUNNEL/SRv6TunnelIngressBfds

This table contains ingress information of the IPv6 SR tunnel.

XML structure

```
<TUNNEL>
  <SRv6TunnelIngressBfds>
    <SRv6TunnelIngressBfd>
      <TunnelID></TunnelID>
      <SRv6BfdWorkMode></SRv6BfdWorkMode>
    </SRv6TunnelIngressBfd>
  </SRv6TunnelIngressBfds>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	SRv6TunnelIngressBfds
Table type	Multi-instance table
Row name	SRv6TunnelIngressBfd
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IPv6 SR tunnel template name.	Index	Unsigned integer.	N/A
SRv6BfdWorkMode	IPv6 SR tunnel work mode.	N/A	Unsigned integer. Value range: 1 to 2.	2-turn on the BFD detection feature.

TUNNEL/Statistics

This table contains flow rate statistics for tunnels.

XML structure

```
<TUNNEL>
  <Statistics>
    <FlowStatistics>
      <FlowId></FlowId>
      <TunnelId></TunnelId>
      <Speedstatistics></Speedstatistics>
    </FlowStatistics>
  </Statistics>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	Statistics
Table type	Multi-instance table
Row name	FlowStatistics

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowId	Flow ID	Index	Unsigned integer.	N/A
TunnelId	Tunnel ID	Index	Unsigned integer.	N/A
Speedstatistics	Flow rate statistics for the tunnel	N/A	Base64 string.	It can include multiple items. Each Item include the following information: • Flow ID, UnsignedInteger32, 4 characters. • Interface name, string, 48 characters. • Output packets per second, UnsignedInteger64, 8 characters. • Output octets per second, UnsignedInteger64, 8 characters.

TUNNEL/VXLANDefaultDecap

This table contains information about VXLAN tunnel default decap interface.

XML structure

```
<TUNNEL>
  <VXLANDefaultDecap>
    <SourceInterface></SourceInterface>
    <SourceInterfaceIPv6></SourceInterfaceIPv6>
    <SourceInterfaceName></SourceInterfaceName>
    <SourceInterfaceNameIPv6></SourceInterfaceNameIPv6>
    <DefaultDecapEnable></DefaultDecapEnable>
    <DefaultDecapEnableIPv6></DefaultDecapEnableIPv6>
  </VXLANDefaultDecap>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL

Item	Description
Table name	VXLANDefaultDecap
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceInterface	Interface index.	N/A	Unsigned integer.	N/A
SourceInterfaceIPv6	Interface index for IPv6.	N/A	Unsigned integer.	N/A
SourceInterfaceName	Source interface name	N/A	String. Length: 2 to 47 characters.	N/A
SourceInterfaceNameIPv6	Source interface name for IPv6	N/A	String. Length: 2 to 47 characters.	N/A
DefaultDecapEnable	Whether default IPv4 VXLAN decapsulation is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
DefaultDecapEnableIPv6	Whether default IPv6 VXLAN decapsulation is enabled	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

EOGRE/EoGRE

This table contains EoGRE template information.

XML structure

```
<EOGRE>
  <EoGRE>
    <Eogre>
      <EoGREName></EoGREName>
      <Mode></Mode>
      <IPv4Addr>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <Tos></Tos>
      <Keepalive>
        <Interval></Interval>
```

```
      <Times></Times>
    </Keepalive>
    <PathMtu></PathMtu>
    <EoGREPortNum></EoGREPortNum>
    <Carry>
      <NetworkPolicyID></NetworkPolicyID>
      <APMac></APMac>
    </Carry>
    <Mtu></Mtu>
  </Eogre>
 </EoGRE>
</EOGRE>
```

Table description

Item	Description
Feature name	EOGRE
Table name	EoGRE
Table type	Multi-instance table
Row name	Eogre
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EoGREName	EoGRE template name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A.
Mode	Tunnel mode	N/A	Enumeration: • **1**—EoGRE tunnel mode. • **2**—EoGRE in UDP tunnel mode. Default: 2.	N/A.
IPv4Addr	IPv4 address information of the EoGRE tunnel	Data structure	Members include: • DstAddr.	This column is available only for tunnels with the transport protocol being IPv4.
DstAddr	Tunnel destination IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
Tos	ToS value in the IP header of tunneled packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The value 0 indicates that it is copied from the IP header of the inner layer.
Keepalive	Keepalive	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parameters of the tunnel	structure	• Interval. • Times.	
Interval	Interval for transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767, in seconds. Default: 10.	N/A
Times	Maximum times of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 255. Default: 3.	N/A
PathMtu	Whether the path MTU discovery feature is enabled for the EoGRE tunnel	N/A	Boolean: • **true**—The path MTU discovery feature is enabled. • **false**—The path MTU discovery feature is disabled.	The default value is false.
EoGREPortNum	Destination UDP port number in EoGRE tunneled packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 4754.	N/A
Carry	Extension fields carried in EoGRE tunneled packets	Data structure	Members include: • NetworkPolicyID. • APMAC.	N/A
NetworkPolicyID	ID of the network policy used by the tunnel to forward user traffic	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
APMAC	AP MAC address carried in EoGRE tunneled packets	N/A	Enumeration: • **1**—Uses the bridge MAC address as the AP MAC address. • **2**—Uses the BSSID as the AP MAC address.	N/A
Mtu	Maximum transmission unit	N/A	Unsigned integer. Value range: 100 to 64000 in bytes. Default: 64000.	N/A

EOGRE/ServiceTemplatesMap

This table contains mappings between service templates and EoGRE templates.

XML structure

```
<EOGRE>
  <ServiceTemplatesMap>
```

```
    <TemplatesMap>
      <TemplateName></TemplateName>
      <EoGREName></EoGREName>
    </TemplatesMap>
  </ServiceTemplatesMap>
</EOGRE>
```

Table description

Item	Description
Feature name	EOGRE
Table name	ServiceTemplatesMap
Table type	Multi-instance table
Row name	TemplatesMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
TemplateName	Service template name	Index	String, case-sensitive. Length: 1 to 63 characters.
EoGREName	EoGRE template name	N/A.	String, case-sensitive. Length: 1 to 63 characters.

FLEXSRV6/FlexSRV6Templates

This table contains flex-srv6 tunnel information.

XML structure

```
<FLEXSRV6>
  <FlexSRV6Templates>
    <Templates>
      <TemplateName></TemplateName>
      <LocalLocator>
        <LocalIP6Addr></LocalIP6Addr>
        <CommonLen></CommonLen>
      </LocalLocator>
      <RemoteLocator>
        <RemoteIP6Addr></RemoteIP6Addr>
        <CommonLen></CommonLen>
      </RemoteLocator>
```

```
      <DstAddr></DstAddr>
      <Tos></Tos>
      <Mtu></Mtu>
      <TCPMss></TCPMss>
    </Templates>
  </FlexSRV6Templates>
</FLEXSRV6>
```

Table description

Item	Description
Feature name	FLEXSRV6
Table name	FlexSRV6Templates
Table type	Multi-instance table
Row name	Templates
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	Flex-SRv6 template name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A.
LocalLocator	Information of the local locator	Data structure	Members include: • LocatorIP6Addr. • CommonLen	N/A
LocatorIP6Addr	Local locator IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 2000::.
CommonLen	The srv6 common length	N/A	Unsigned integer. Value range: 32 to 90	N/A
RemoteLocator	Information of the remote locator	Data structure	Members include: • RemoteIP6Addr. • CommonLen	N/A
RemoteIP6Addr	Remote locator IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 3000::.
CommonLen	The srv6 common length	N/A	Unsigned integer. Value range: 32 to 90	N/A
DstAddr	Destination IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
Tos	ToS value in the IPV6 header of tunneled packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Mtu	Maximum transmission unit	N/A	Unsigned integer. Value range: 100 to 64000 in bytes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPMss	TCP max segment size	N/A	Unsigned integer. Value range: 128 to 63960	N/A

FLEXSRV6/FlexSRv6TemplatesMap

This table contains mappings between wlan ap and flex-srv6 templates.

XML structure

```
<FLEXSRV6>
  <FlexSRv6TemplatesMap>
    <TemplatesMap>
      <WlanAPName></WlanAPName>
      <TemplateName></TemplateName>
    </TemplatesMap>
  </FlexSRv6TemplatesMap>
</FLEXSRV6>
```

Table description

Item	Description
Feature name	FLEXSRV6
Table name	FlexSRv6TemplatesMap
Table type	Multi-instance table
Row name	TemplatesMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanAPNam e	Wlan ap name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
TemplateNa me	Flex-SRv6 template name	N/A.	String, case-sensitive. Length: 1 to 63 characters.	N/A

TUNNEL/TunnelGlobalConfig

This table contains tunnel global configuration information.

XML structure

```
<TUNNEL>
  <TunnelGlobalConfig>
    <TunnelStatics>
      <TunnelMode></TunnelMode>
    </TunnelStatics>
  </TunnelGlobalConfig>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	TunnelGlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelStatics	The information of tunnel statistics	Data structure	Members include: • TunnelMode	N/A
TunnelMode	Tunnel statistics mode.	N/A	Boolean: • **true**—encapsulation mode**.** • **false**—Payload mode.	N/A

Contents

Comware 7 TUNNEL NETCONF XML API Error Message Reference 1
TUNNEL/Tunnels 1

Comware 7 TUNNEL NETCONF XML API Error Message Reference

TUNNEL/Tunnels

Message	Explanation
Please first install the license for the SDWAN feature. 请先安装SDWAN功能的许可证。	This feature is only available if a license for the SDWAN feature is installed first. 只有先安装SDWAN的许可证，此功能才可用。

Contents

TunnelDown event ····· 1
XML structure for event subscription ····· 1
XML structure for event report ····· 2
TunnelUp event ····· 2
XML structure for event subscription ····· 2
XML structure for event report ····· 3

TunnelDown event

This table is used to report information about a tunnel when the tunnel goes down.

XML structure for event subscription

```
<TunnelDown>
  <Tunnel>
    <ID></ID>
    <Mode></Mode>
  </Tunnel>
</TunnelDown>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TUNNEL</stream>
    <filter type="subtree">
      <TunnelDown xmlns="http://www.h3c.com/netconf/event:1.0/tunnel:1.0">
        <Tunnel>
          <ID>1</ID>
          <Mode>40</Mode>
        </Tunnel>
      </TunnelDown>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TUNNEL
Event name	TunnelDownEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/tunnel:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ID	Tunnel ID	Unsigned integer.	No
Mode	Tunnel mode	Enumeration: • **40**—EoGRE tunnel. • **41**—EoGRE-in-UDP tunnel.	Only EoGRE and EoGRE-in-UDP tunnels are supported.

XML structure for event report

```
<TunnelDown>
  <Tunnel>
    <ID></ID>
    <Mode></Mode>
    <DownReason></DownReason>
  </Tunnel>
</TunnelDown>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2020-09-30T09:10:51</eventTime>
  <TunnelDown xmlns="http://www.h3c.com/netconf/event:1.0/tunnel:1.0">
    <Tunnel>
      <ID>1</ID>
      <Mode>40</Mode>
      <DownReason>2</DownReason>
    </Tunnel>
  </TunnelDown>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No
Mode	Tunnel mode	Enumeration: • **40**—EoGRE tunnel. • **41**—EoGRE-in-UDP tunnel.	Only EoGRE and EoGRE-in-UDP tunnels are supported.
DownReason	Tunnel down reason	Enumeration: • **1**—The tunnel went down. • **2**—The tunnel was deleted.	No

TunnelUp event

This table is used to report information about a tunnel when the tunnel comes up.

XML structure for event subscription

```
<TunnelUp>
  <Tunnel>
    <ID></ID>
    <Mode></Mode>
  </Tunnel>
```

```
</TunnelUp>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>TUNNEL</stream>
    <filter type="subtree">
      <TunnelUp xmlns="http://www.h3c.com/netconf/event:1.0/tunnel:1.0">
        <Tunnel>
          <ID>1</ID>
          <Mode>40</Mode>
        </Tunnel>
      </TunnelUp>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	TUNNEL
Event name	TunnelUp
Event namespace	http://www.h3c.com/netconf/event:1.0/tunnel:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ID	Tunnel ID	Unsigned integer.	No
Mode	Tunnel mode	Enumeration: • **40**—EoGRE tunnel. • **41**—EoGRE-in-UDP tunnel.	Only EoGRE and EoGRE-in-UDP tunnels are supported.

XML structure for event report

```
<TunnelUp>
  <Tunnel>
    <ID></ID>
    <Mode></Mode>
  </Tunnel>
</TunnelUp>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TunnelUp xmlns="http://www.h3c.com/netconf/event:1.0/tunnel:1.0">
```

```
    <Tunnel>
      <ID>1</ID>
      <Mode>40</Mode>
    </Tunnel>
  </TunnelUp>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ID	Tunnel ID	Unsigned integer. Value range: 0 to 1023.	No
Mode	Tunnel mode	Enumeration: • **40**—EoGRE tunnel. • **41**—EoGRE-in-UDP tunnel.	Only EoGRE and EoGRE-in-UDP tunnels are supported.

Contents

UCC 1
UCC/RefreshSkypeEntries 1
XML structure 1
Table description 1
Columns 1

UCC

UCC/RefreshSkypeEntries

This table is used to refresh ucc table of skype entries.

XML structure

```
<UCC>
  <RefreshSkypeEntries>
    <RefreshSkypeEntry>
      <OpType></OpType>
      <EntryType></EntryType>
      <Entry>
        <CallID></CallID>
        <Ipv4Address></Ipv4Address>
        <Port></Port>
        <Proto></Proto>
      </Entry>
    </RefreshSkypeEntry>
  </RefreshSkypeEntries>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	RefreshSkypeEntries
Table type	Multi-instance table
Row name	RefreshSkypeEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OpType	Operation type	N/A	Enumeration: • 0—Add • 1—Delete	N/A
EntryType	The type of Skype4B Media	N/A	Enumeration: • 0—Audio • 1—Video • 2—App Share	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Entry	The info of Skype4B Media	Data structure	Members include: • CallID • Ipv4Address • Port • Proto	N/A
CallID	Callid of the Skype4B Media	N/A	String . Length:1 to 63 characters	N/A
Ipv4Address	The IP address of the Client	N/A	IPv4 address.	Example: 192.168.254.24
Port	The Port of the Client	N/A	Unsigned integer.. Value range: 1 to 65535	N/A
Proto	The type of the protocol used by the Skype4B Media	N/A	Enumeration: • 6—TCP • 17—UDP	This column is affirmatively chosen item

Contents

UCC 1
UCC/UccProfiles 1
XML structure 1
Table description 1
Columns 2
UCC/WlanUccProfiles 3
XML structure 3
Table description 4
Columns 4
UCC/WhiteListAPs 4
XML structure 4
Table description 4
Columns 5
UCC/WhiteListAPGroups 5
XML structure 5
Table description 5
Columns 6
UCC/UccPolicies 6
XML structure 6
Table description 6
Columns 6

UCC

UCC/UccProfiles

This table contains the UCC profile information.

XML structure

```
<UCC>
  <UccProfiles>
    <UccProfile>
      <ProfileName></ProfileName>
      <SipEnable></SipEnable>
      <SkypeEnable></SkypeEnable>
      <SkypeApp>
        <VideoRemarkDscp></VideoRemarkDscp>
        <VideoRemarkDot1p></VideoRemarkDot1p>
        <VoiceRemarkDscp></VoiceRemarkDscp>
        <VoiceRemarkDot1p></VoiceRemarkDot1p>
        <AppShareRemarkDscp></AppShareRemarkDscp>
        <AppShareRemarkDot1p></AppShareRemarkDot1p>
      </SkypeApp>
      <AppEnableList>
        <AppType></AppType>
      </AppEnableList>
      <AppFlowMarkList>
        <AppType></AppType>
      </AppFlowMarkList>
    </UccProfile>
  </UccProfiles>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	UccProfiles
Table type	Multi-instance table
Row name	UccProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a UCC profile	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
SipEnable	Enabling status of UCC for Sip	N/A	Boolean: • true. • false(default).	N/A
SkypeEnable	Enabling status of UCC for Skype4B	N/A	Boolean: • true. • false(default).	N/A
SkypeApp	The info of Skype4B App	Data structure	Members include: • VideoRemarkDscp • VideoRemarkDot1p • VoiceRemarkDscp • VoiceRemarkDot1p • AppShareRemarkDscp • AppShareRemarkDot1p	N/A
VideoRemarkDscp	Dscp priority of Skype4B video Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
VideoRemarkDot1p	Dot1p priority of Skype4B video Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
VoiceRemarkDscp	Dscp priority of Skype4B voice Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
VoiceRemarkDot1p	Dot1p priority of Skype4B voice Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
AppShareRemarkDscp	Dscp priority of Skype4B app share Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
AppShareRemarkDot1p	Dot1p priority of Skype4B app share Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
AppEnableList	Application type list of UCC Function enable.	Data structure	Members include: AppType.	N/A
AppFlowMarkList	Application type list of traffic identification.	Data structure	Members include: AppType.	N/A
AppType	Application name represented by a number.	N/A	Enumeration: · 0: TencentMeeting. · 1: DingTalkVoIP. · 2: DingTalk. · 3: Zoom.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4 :WeChatVoIP. • 5: WeChat. • 6: QQVoIP. • 7: QQ. • 8: EnterpriseWechat. • 9: SkypeVoIP. • 10: Skype. • 11: HUAWEICloudWeLinkVoIP. • 12: HUAWEICloudWeLink. • 13: CiscoWebex. • 14: XiaoYuYiLian. • 15: ZhuMuMeeting. • 16: SOMO. • 17: MindLinker. • 18: FeiShu. • 19: HaoShiTong. • 20: QuanShiYunHuiYi. • 21: CiscoWebexMeetings. • 22: Skype4B • 23: Skype4BVoip • 24: JDJoyMeeting • 25: JDIntelligentProjection • 26: AirPlay • 27: LeboMirror • 28: citrixclient • 29: GameForpeace • 30: WangZheRongYao • 31: BaiduInfoflow • 32: GoogleMeet	

UCC/WlanUccProfiles

This table contains information about UCC profiles applied to service templates.

XML structure

```
<UCC>
  <WlanUccProfiles>
    <WlanUccProfile>
      <WlanServiceTemp></WlanServiceTemp>
      <UccProfileName></UccProfileName>
```

```
    </WlanUccProfile>
  </WlanUccProfiles>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	WlanUccProfiles
Table type	Multi-instance table
Row name	WlanUccProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanServiceTemp	Name of a service template	Index	String, case-insensitive Length: 1 to 63 characters.	N/A
UccProfileName	Name of the UCC profile applied to the service template	N/A	String, case-insensitive Length: 1 to 31 characters. Default: No UCC profile is applied to a service template.	N/A

UCC/WhiteListAPs

This table contains UCC white list information of APs.

XML structure

```
<UCC>
  <WhiteListAPs>
    <AP>
      <APName></APName>
    </AP>
  </WhiteListAPs>
</UCC>
```

Table description

Item	Description
Feature name	UCC

Item	Description
Table name	WhiteListAPs
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String. Length: 1 to 64 characters.	N/A

UCC/WhiteListAPGroups

This table contains UCC white list information of APGroups.

XML structure

```
<UCC>
  <WhiteListAPGroups>
    <APGroup>
      <APGroupName></APGroupName>
    </APGroup>
  </WhiteListAPGroups>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	WhiteListAPGroups
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP group name	Index	String. Length: 1 to 31 characters.	N/A

UCC/UccPolicies

This table contains the UCC policy information.

XML structure

```
<UCC>
  <UccPolicies>
    <UccPolicy>
      <ProfileName></ProfileName>
      <AppSubcateName></AppSubcateName>
      <AppName></AppName>
      <Drop></Drop>
      <Ratelimit></Ratelimit>
      <Remark>
        <Dscp></Dscp>
        <Dot1p></Dot1p>
      <Remark>
    </UccPolicy>
  </UccPolicies>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	UccPolicies
Table type	Multi-instance table
Row name	UccPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a UCC	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile		Length: 1 to 31 characters.	
AppSubcateName	Predefined application Subcate name	Index	String, case-insensitive. Length: 1 to 63 characters.	The application subcate name must be standard and can be identified by the equipment.
AppName	Predefined application name which is added to the application subcate	Index	String, case-insensitive. Length: 1 to 63 characters.	The application name must be standard and can be identified by the equipment. When AppName is "AllApplications", it indicates all applications in the specified AppSubcate.
Drop	Drop application packets	N/A	Boolean: • true. • false(default).	N/A
Ratelimit	Rate limit application traffic	N/A	Unsigned integer. Value range: 64 to 10000000	the default unit is kbps.
Remark	Specify marking function	Data structure	Members include: • Dscp • Dot1p	N/A
Dscp	Remark DSCP	N/A	Unsigned integer. Value range: 0 to 63	N/A
Dot1p	Remark 802.1p priority	N/A	Unsigned integer. Value range: 0 to 7	N/A

Contents

UCC 1
UCC/UccProfiles 1
XML structure 1
Table description 1
Columns 2
UCC/WlanUccProfiles 3
XML structure 3
Table description 4
Columns 4
UCC/WhiteListAPs 4
XML structure 4
Table description 4
Columns 5
UCC/WhiteListAPGroups 5
XML structure 5
Table description 5
Columns 6
UCC/Capability 6
XML structure 6
Table description 6
Columns 6
UCC/UccPolicies 6
XML structure 7
Table description 7
Columns 7

UCC

UCC/UccProfiles

This table contains the UCC profile information.

XML structure

```
<UCC>
  <UccProfiles>
    <UccProfile>
      <ProfileName></ProfileName>
      <SipEnable></SipEnable>
      <SkypeEnable></SkypeEnable>
      <SkypeApp>
        <VideoRemarkDscp></VideoRemarkDscp>
        <VideoRemarkDot1p></VideoRemarkDot1p>
        <VoiceRemarkDscp></VoiceRemarkDscp>
        <VoiceRemarkDot1p></VoiceRemarkDot1p>
        <AppShareRemarkDscp></AppShareRemarkDscp>
        <AppShareRemarkDot1p></AppShareRemarkDot1p>
      </SkypeApp>
      <AppEnableList>
        <AppType></AppType>
      </AppEnableList>
      <AppFlowMarkList>
        <AppType></AppType>
      </AppFlowMarkList>
    </UccProfile>
  </UccProfiles>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	UccProfiles
Table type	Multi-instance table
Row name	UccProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a UCC profile	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
SipEnable	Enabling status of UCC for Sip.	N/A	Boolean: • true. • false.	N/A
SkypeEnable	Enabling status of UCC for Skype4B	N/A	Boolean: • true. • false.	N/A
SkypeApp	The info of Skype4B App	Data structure	Members include: • VideoRemarkDscp • VideoRemarkDot1p • VoiceRemarkDscp • VoiceRemarkDot1p • AppShareRemarkDscp • AppShareRemarkDot1p	N/A
VideoRemarkDscp	Dscp priority of Skype4B video Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
VideoRemarkDot1p	Dot1p priority of Skype4B video Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
VoiceRemarkDscp	Dscp priority of Skype4B voice Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
VoiceRemarkDot1p	Dot1p priority of Skype4B voice Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
AppShareRemarkDscp	Dscp priority of Skype4B app share Remark	N/A	Unsigned integer. Value range: 0 to 63	N/A
AppShareRemarkDot1p	Dot1p priority of Skype4B app share Remark	N/A	Unsigned integer. Value range: 0 to 7	N/A
AppEnableList	Application type list of UCC Function enable.	Data structure	Members include: AppType.	N/A
AppFlowMarkList	Application type list of traffic identification.	Data structure	Members include: AppType.	N/A
AppType	Application name represented by a number.	N/A	Enumeration: · 0: TencentMeeting. · 1: DingTalkVoIP. · 2: DingTalk. · 3: Zoom.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4 :WeChatVoIP. • 5: WeChat. • 6: QQVoIP. • 7: QQ. • 8: EnterpriseWechat. • 9: SkypeVoIP. • 10: Skype. • 11: HUAWEICloudWeLinkVoIP. • 12: HUAWEICloudWeLink. • 13: CiscoWebex. • 14: XiaoYuYiLian. • 15: ZhuMuMeeting. • 16: SOMO. • 17: MindLinker. • 18: FeiShu. • 19: HaoShiTong. • 20: QuanShiYunHuiYi. • 21: CiscoWebexMeetings. • 22: Skype4B • 23: Skype4BVoip • 24: JDJoyMeeting • 25: JDIntelligentProjection • 26: AirPlay • 27: LeboMirror • 28: citrixclient • 29: GameForpeace • 30: WangZheRongYao • 31: BaiduInfoflow • 32: GoogleMeet	

UCC/WlanUccProfiles

This table contains information about UCC profiles applied to service templates.

XML structure

```
<UCC>
  <WlanUccProfiles>
    <WlanUccProfile>
      <WlanServiceTemp></WlanServiceTemp>
      <UccProfileName></UccProfileName>
```

```
    </WlanUccProfile>
  </WlanUccProfiles>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	WlanUccProfiles
Table type	Multi-instance table
Row name	WlanUccProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanServiceTemp	Name of a service template	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
UccProfileName	Name of the UCC profile applied to the service template	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

UCC/WhiteListAPs

This table contains UCC white list information of APs.

XML structure

```
<UCC>
  <WhiteListAPs>
    <AP>
      <APName></APName>
    </AP>
  </WhiteListAPs>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	WhiteListAPs

Item	Description
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String. Length: 1 to 64 characters.	N/A

UCC/WhiteListAPGroups

This table contains UCC white list information of APGroups.

XML structure

```
<UCC>
  <WhiteListAPGroups>
    <APGroup>
      <APGroupName></APGroupName>
    </APGroup>
  </WhiteListAPGroups>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	WhiteListAPGroups
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP group name	Index	String. Length: 1 to 31 characters.	N/A

UCC/Capability

This table contains UCC capability information, and it is used to obtain custom UCC parameters.

XML structure

```
<UCC>
  <Capability>
    <SupportAppList>
      <AppType></AppType>
    </SupportAppList>
  </Capability>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportAppList	Customized application list.	Data structure	Members include: AppType.	The AppType refer to the above UCC/UccProfiles

UCC/UccPolicies

This table contains the UCC policy information.

XML structure

```
<UCC>
  <UccPolicies>
    <UccPolicy>
      <ProfileName></ProfileName>
      <AppSubcateName></AppSubcateName>
      <AppName></AppName>
      <Drop></Drop>
      <Ratelimit></Ratelimit>
      <Remark>
        <Dscp></Dscp>
        <Dot1p></Dot1p>
      <Remark>
    </UccPolicy>
  </UccPolicies>
</UCC>
```

Table description

Item	Description
Feature name	UCC
Table name	UccPolicies
Table type	Multi-instance table
Row name	UccPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of a UCC profile	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
AppSubcateName	Predefined application Subcate name	Index	String, case-insensitive. Length: 1 to 63 characters.	The application subcate name must be standard and can be identified by the equipment.
AppName	Predefined application name which is added to the application subcate	Index	String, case-insensitive. Length: 1 to 63 characters.	The application name must be standard and can be identified by the equipment. When AppName is "AllApplications", it indicates all applications in the specified AppSubcate.

Column name	Column description	Column type	Data type and restrictions	Remarks
Drop	Drop application packets	N/A	Boolean: • true. • false.	N/A
Ratelimit	Rate limit application traffic	N/A	Unsigned integer. Value range: 64 to 10000000	the default unit is kbps.
Remark	Specify marking function	Data structure	Members include: • Dscp • Dot1p	N/A
Dscp	Remark DSCP	N/A	Unsigned integer. Value range: 0 to 63	N/A
Dot1p	Remark 802.1p priority	N/A	Unsigned integer. Value range: 0 to 7	N/A

Contents

UCC 2
UCC/UccProfiles 2
UCC/UccProfiles/UccProfile 2
UCC/UccProfiles/UccProfile/AppEnableList/AppType 2
UCC/UccProfiles/UccProfile/AppFlowMarkList/AppType 2
UCC/WlanUccProfiles 2
UCC/UccPolicies 3

UCC

UCC/UccProfiles

Message	Explanation
Maximum number of UCC profiles already reached. UCC配置文件的个数已达到最大值	Maximum number of UCC profiles already reached. UCC配置文件的个数已达到最大值

UCC/UccProfiles/UccProfile

Message	Explanation
The device does not support the UCC application function. 当前设备不支持音视频应用的UCC功能。	The device does not support the UCC based function for audio and video applications. 这个提示说明当前设备不支持音视频应用的UCC功能。

UCC/UccProfiles/UccProfile/AppEnableList/AppType

Message	Explanation
The UCC-based function on the device does not support this application. 当前设备音视频应用流量的UCC功能不支持该应用。	The UCC-based function for audio and video applications on the device does not support this application. 这个提示说明当前设备音视频应用流量的UCC功能不支持该应用。

UCC/UccProfiles/UccProfile/AppFlowMarkList/AppType

Message	Explanation
The device does not support marking traffic of this application. 当前设备不支持标识该应用的流量。	The UCC-based function for audio and video applications on the device does not support marking traffic of this application. 这个提示说明当前设备不支持标识该应用的流量。

UCC/WlanUccProfiles

Message	Explanation
The UCC profile doesn't exist. 该UCC配置文件不存在	The UCC profile doesn't exist. 该UCC配置文件不存在
The service template has been bound to another UCC profile..	An service template could not bind two UCC profiles at the same time.

该无线服务模板已绑定其他的UCC配置文件。	一个无线服务模板不能同时绑定两个UCC配置文件
Failed to create temporary Ucc profile. 创建临时配置文件失败	Failed to create temporary Ucc profile. 创建临时配置文件失败

UCC/UccPolicies

Message	Explanation
The device does not support this application-subcate. 当前设备不支持此应用程序子类别	The device does not support this application-subcate. 当前设备不支持此应用程序子类别
The device does not support this application-protocol. 当前该设备不支持此应用程序协议	The device does not support this application-protocol. 当前该设备不支持此应用程序协议
The current configuration policy conflicts with other configuration policies. 当前配置策略与其他配置策略冲突	The current configuration policy conflicts with other configuration policies. 当前配置策略与其他配置策略冲突

Contents

UCM 1
UCM/CutUserByType 1
XML structure 1
Table description 1
Columns 1
UCM/CutUserByUP 1
XML structure 1
Table description 2
Columns 2
UCM/CutUserByIfIndex 2
XML structure 2
Table description 2
Columns 3

UCM

UCM/CutUserByType

This table is used to clear UCM entries according to access user type.

XML structure

```
<UCM>
  <CutUserByType>
    <Type></Type>
  </CutUserByType>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	CutUserByType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Access user type	N/A	Enumeration: • 0—All.

UCM/CutUserByUP

This table is used to clear UCM entries according to UP id.

XML structure

```
<UCM>
  <CutUserByUP>
    <CutByUP>
      <UPid></UPid>
    </CutByUP>
  </CutUserByUP>
```

```
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	CutUserByUP
Table type	Multi-instance table
Row name	CutByUP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UPid	UP id	Index	Unsigned integer.

UCM/CutUserByIfIndex

This table is used to clear UCM entries according to interface index.

XML structure

```
<UCM>
  <CutUserByIfIndex>
    <CutByIfIndex>
      <IfIndex></IfIndex>
    </CutByIfIndex>
  </CutUserByIfIndex>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	CutUserByIfIndex
Table type	Multi-instance table
Row name	CutByIfIndex
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.

Contents

UCM 1

UCM/UCMWorkMode 1
XML structure 1
Table description 1
Columns 1
UCM/IPoEIfEnable 1
XML structure 1
Table description 2
Columns 2
UCM/IPoETrustOption 3
XML structure 4
Table description 4
Columns 4
UCM/IPoETrust6Option 5
XML structure 5
Table description 5
Columns 6
UCM/IPoENASPortID 6
XML structure 6
Table description 7
Columns 7
UCM/IPoEDhcpAuthDomain 7
XML structure 7
Table description 8
Columns 8
UCM/IPoEUnclassifiedIPAuthDomain 8
XML structure 8
Table description 9
Columns 9
UCM/IPoEPassword 9
XML structure 9
Table description 10
Columns 10
UCM/IPoEDhcpPassword 11
XML structure 11
Table description 11
Columns 12
UCM/IPoEDhcp6Password 12
XML structure 12
Table description 13
Columns 13
UCM/PppoesAccessLineId 13
XML structure 13
Table description 14
Columns 14
UCM/InterfaceDownPolicy 15
XML structure 15
Table description 15
Columns 16
UCM/IPoEWebPreAuthDomain 16
XML structure 16
Table description 16
Columns 17
UCM/IPoEWebMacAuthDomain 17
XML structure 17
Table description 17
Columns 18

UCM/IPoEWebAuthDomain 18
XML structure 18
Table description 18
Columns 19
UCM/IPoEStaticUser 19
XML structure 19
Table description 20
Columns 20
UCM/IPoEv6StaticUser 21
XML structure 21
Table description 22
Columns 22
UCM/IPoEDualStackStaticUser 23
XML structure 23
Table description 24
Columns 24

UCM

UCM/UCMWorkMode

This table contains the information about using the UCM working mode.

XML structure

```
<UCM>
  <UCMWorkMode>
    <UPEnable></UPEnable>
  </UCMWorkMode>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	UCMWorkMode
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPEnable	Whether the UP working mode is enabled	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEIfEnable

This table contains the information about configuring IPoE on an interface.

XML structure

```
<UCM>
  <IPoEIfEnable>
    <IfEnable>
      <IfIndex></IfIndex>
```

```
      <AccessMode></AccessMode>
      <AuthMethod></AuthMethod>
      <ARPInitiatorEnable></ARPInitiatorEnable>
      <IPInitiatorEnable></IPInitiatorEnable>
      <IPv6InitiatorEnable></IPv6InitiatorEnable>
      <NSNAInitiatorEnable></NSNAInitiatorEnable>
      <NDRSInitiatorEnable></NDRSInitiatorEnable>
      <BasicServiceType></BasicServiceType>
      <Dot1XAuthEnable></Dot1XAuthEnable>
      <WebAuthorVpnEnable></WebAuthorVpnEnable>
    </IfEnable>
  </IPoEIfEnable>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEIfEnable
Table type	Multi-instance table
Row name	IfEnable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AccessMode	Access mode.	N/A	Enumeration: • 1—L2-connected-All. • 2—L2-connected-IPv4. • 3—L2-connected-IPv6. • 4—Routed-All. • 5—Routed-IPv4. • 6—Routed-IPv6. • 7—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMethod	Authentication method.	N/A	Enumeration: • 1—Bind authentication (default). • 2—Web authentication. • 3—MAC authentication. • 4—Bind re-authentication.	N/A
ARPInitiatorEnable	Enable the ARP-based static individual user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
IPInitiatorEnable	Enable the unclassified-IP user.	N/A	Enumeration: • 1—Enable all users. • 2—Enable static and abnormally offline users only. • 3—Disable (default).	N/A
IPv6InitiatorEnable	Enable the unclassified-IPv6 user.	N/A	Enumeration: • 1—Enable all users. • 2—Enable static and abnormally offline users only. • 3—Disable (default).	N/A
NSNAInitiatorEnable	Enable the IPv6 NS NA user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
NDRSInitiatorEnable	Enable the IPv6 ND RS user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
BasicServiceType	Basic service type	N/A	Enumeration: • 1—Default. (default) • 2—Basic service ipv4 type.	N/A
Dot1XAuthEnable	Enable the dot1x authentication.	N/A	Enumeration: • 1—Enable. • 2—Enable dot1x authentication with priority. • 3—Disable (default).	N/A
WebAuthorVpnEnable	Enable the web authorize vpn	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoETrustOption

This table contains the information about configuring IPoE trusted options.

XML structure

```
<UCM>
  <IPoETrustOption>
    <TrustOption>
      <IfIndex></IfIndex>
      <TrustDhcpOption12></TrustDhcpOption12>
      <TrustDhcpOption60></TrustDhcpOption60>
      <TrustDhcpOption77></TrustDhcpOption77>
      <TrustDhcpOption82></TrustDhcpOption82>
    </TrustOption>
  </IPoETrustOption>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoETrustOption
Table type	Multi-instance table
Row name	TrustOption
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
TrustDhcpOption12	Trust DHCP option12.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
TrustDhcpOption60	Trust DHCP option60.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TrustDhcpOption77	Trust DHCP option77	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
TrustDhcpOption82	Trust DHCP option82.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A

UCM/IPoETrust6Option

This table contains the information about configuring IPoEv6 trusted options.

XML structure

```
<UCM>
  <IPoETrust6Option>
    <Trust6Option>
      <IfIndex></IfIndex>
      <TrustDhcp6Option16></TrustDhcp6Option16>
      <TrustDhcp6Option17></TrustDhcp6Option17>
      <TrustDhcp6Option18></TrustDhcp6Option18>
      <TrustDhcp6Option37></TrustDhcp6Option37>
      <UntrustDhcp6Option79></UntrustDhcp6Option79>
    </Trust6Option>
  </IPoETrust6Option>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoETrust6Option
Table type	Multi-instance table
Row name	Trust6Option
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
TrustDhcp6 Option16	Trust DHCPv6 option16.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
TrustDhcp6 Option17	Trust DHCPv6 option17.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
TrustDhcp6 Option18	Trust DHCPv6 option18.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
TrustDhcp6 Option37	Trust DHCPv6 option37.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
UntrustDhcp 6Option79	Untrust DHCPv6 option79	N/A	Enumeration: • 1—Untrusted. • 2—Trusted.(default).	N/A

UCM/IPoENASPortID

This table contains the information about configuring the IPoE NAS-Port-ID.

XML structure

```
<UCM>
  <IPoENASPortID>
    <NASPortID>
      <IfIndex></IfIndex>
      <InsertNasInfo></InsertNasInfo>
      <NASPortIDFormat></NASPortIDFormat>
    </NASPortID>
  </IPoENASPortID>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoENASPortID
Table type	Multi-instance table
Row name	NASPortID
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
InsertNasInfo	Insert NAS information to NAS-PORT-ID.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
NASPortIDFormat	Format of NAS-PORT-ID.	N/A	Enumeration: • 1—Version1.0 (default). • 2—Version2.0. • 3—Version3.0. • 4—Version4.0.	N/A

UCM/IPoEDhcpAuthDomain

This table contains the information about configuring the IPoE DHCP authentication domain.

XML structure

```
<UCM>
  <IPoEDhcpAuthDomain>
    <DhcpAuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
      <Force></Force>
    </DhcpAuthDomain>
```

```
  </IPoEDhcpAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcpAuthDomain
Table type	Multi-instance table
Row name	DhcpAuthDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Force	Forced domain	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEUnclassifiedIPAuthDomain

This table contains the information about configuring the IPoE unclassified-IP authentication domain.

XML structure

```
<UCM>
  <IPoEUnclassifiedIPAuthDomain>
    <UnclassifiedIPAuthDomain>
      <IfIndex></IfIndex>
```

```
      <DomainName></DomainName>
    </UnclassifiedIPAuthDomain>
  </IPoEUnclassifiedIPAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEUnclassifiedIPAuthDomain
Table type	Multi-instance table
Row name	UnclassifiedIPAuthDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEPassword

This table contains the information about configuring IPoE password.

XML structure

```
<UCM>
  <IPoEPassword>
    <Password>
      <IfIndex></IfIndex>
      <PswContext></PswContext>
```

```
      <MacSeparator></MacSeparator>
      <MacIsLowcase></MacIsLowcase>
      <IsCipherText></IsCipherText>
      <PswText></PswText>
    </Password>
  </IPoEPassword>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEPassword
Table type	Multi-instance table
Row name	Password
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PswContext	Context of password.	N/A	Enumeration: • 1—Use default string “vlan” as password (default). • 2—Use user’s MAC address as password. • 3—Use string as password.	
MacSeparator	Separator of MAC address.	N/A	Char.	Used when the “PswContext” column is 2.
MacIsLowcase	The MAC address is lowercase	N/A	Enumeration: • 1—True (default). • 2—False. • 3—Undefined.	Used when the “PswContext” column is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
IsCipherText	The string is cipher text.	N/A	Enumeration: • 1—True (default). • 2—False.	Used when the “PswContext” column is 3.
PswText	Password text.	N/A	String.	Used when the “PswContext” column is 3.

UCM/IPoEDhcpPassword

This table contains the information about configuring IPoE Dhcp password.

XML structure

```
<UCM>
  <IPoEDhcpPassword>
    <DhcpPassword>
      <IfIndex></IfIndex>
      <PswContext></PswContext>
      <Option60Offset></Option60Offset>
      <Option60Length></Option60Length>
      <Option60Original></Option60Original>
    </DhcpPassword>
  </IPoEDhcpPassword>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcpPassword
Table type	Multi-instance table
Row name	DhcpPassword
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PswContext	Context of password.	N/A	Enumeration: • 1—Default (default). • 2—Option60. • 3—MAC in Circuit-id option. • 4—User-class option.	
Option60Offset	Offset in DHCP option60.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option60Length	Length of password.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option60Original	Original mode of password.	N/A	Enumeration: • No (default). • Yes.	Used when the “PswContext” column is 2.

UCM/IPoEDhcp6Password

This table contains the information about configuring IPoE Dhcp v6 password.

XML structure

```
<UCM>
  <IPoEDhcp6Password>
    <Dhcp6Password>
      <IfIndex></IfIndex>
      <PswContext></PswContext>
      <Option16Offset></Option16Offset>
      <Option16Length></Option16Length>
      <Option16Original></Option16Original>
    </Dhcp6Password>
  </IPoEDhcp6Password>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcp6Password
Table type	Multi-instance table
Row name	Dhcp6Password
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PswContext	Context of password.	N/A	Enumeration: • 1—Default (default). • 2—Option16.	
Option16Offset	Offset in DHCP v6 option16.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option16Length	Length of password.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option16Original	Original mode of password.	N/A	Enumeration: • No (default). Yes.	Used when the “PswContext” column is 2.

UCM/PppoesAccessLineId

This table contains the information about Configure the NAS-PORT-ID attribute related parameters of the PPPoE session..

XML structure

```
<UCM>
  <PppoesAccessLineId>
    <AccessLineId>
```

```
      <IfIndex></IfIndex>
      <InsertBasInfo></InsertBasInfo>
      <CircuitIdParseMode></CircuitIdParseMode>
      <CircuitIdTransFormat></CircuitIdTransFormat>
      <IncludeContent></IncludeContent>
      <IncludeContentSeparator></IncludeContentSeparator>
      <RemoteIdTransFormat></RemoteIdTransFormat>
      <TrustAccessLineId></TrustAccessLineId>
      <InsertVxlanId></InsertVxlanId>
    </AccessLineId>
  </PppoesAccessLineId>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	PppoesAccessLineId
Table type	Multi-instance table
Row name	AccessLineId
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
InsertBasInfo	Insert BAS information.	N/A	Enumeration: • 1—Not insert (default). • 2—Insert cn-163 format infotmation. • 3—Insert cn-telecom format information.	N/A
CircuitIdParseMode	Parse mode of Circuit-id.	N/A	Enumeration: • 1—cn-telecom. • 2—tr-101 (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CircuitIdTransFormat	Transfer format of Circuit-id.	N/A	Enumeration: • 1—ASCII (default). • 2—HEX.	N/A
IncludeContent	Include content in access line id.	N/A	Enumeration: • 1—Include Circuit-id only (default). • 2—Include Remote-id only. • 3—Include Circuit-id and Remote-id.	N/A
IncludeContentSeparator	The separator between circuit-id and remote-id	N/A	Char	N/A
RemoteIdTransFormat	Transfer format of Remote-id.	N/A	Enumeration: • 1—ASCII (default). • 2—HEX.	N/A
TrustAccessLineId	Trust access line id in packets.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted (default).	N/A
InsertVxlanId	Insert Vxlan information to access line id.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/InterfaceDownPolicy

This table contains the information about using the InterfaceDownPolicy.

XML structure

```
<UCM>
  <InterfaceDownPolicy>
    <DownPolicy>
      <IfIndex></IfIndex>
      <Policy></Policy>
    </DownPolicy>
  </InterfaceDownPolicy>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	InterfaceDownPolicy
Table type	Multi-instance table

Row name	DownPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Policy	Policy of interface down.	N/A	Enumeration: • 1—Offline (default). • 2—Online with user detection. • 3—Online without user detection.	N/A

UCM/IPoEWebPreAuthDomain

This table contains the information about using the IPoEWebPreAuthDomain.

XML structure

```
<UCM>
  <IPoEWebPreAuthDomain>
    <WebPreAuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </WebPreAuthDomain>
  </IPoEWebPreAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebPreAuthDomain
Table type	Multi-instance table
Row name	WebPreAuthDomain

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEWebMacAuthDomain

This table contains the information about using the IPoEWebMacAuthDomain.

XML structure

```
<UCM>
  <IPoEWebMacAuthDomain>
    <MacAuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </MacAuthDomain>
  </IPoEWebMacAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebMacAuthDomain
Table type	Multi-instance table
Row name	MacAuthDomain
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEWebAuthDomain

This table contains the information about using the IPoEWebAuthDomain.

XML structure

```
<UCM>
  <IPoEWebAuthDomain>
    <WebAuthDomain>
      <IfIndex></IfIndex>
      <DomainName></DomainName>
    </WebAuthDomain>
  </IPoEWebAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebAuthDomain
Table type	Multi-instance table
Row name	WebAuthDomain
Restrictions	None
Support for row creation and	No

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEStaticUser

This table contains the information about configuring IPoE statistics User.

XML structure

```
<UCM>
  <IPoEStaticUser>
    <StaticUser>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <VpnInstance></VpnInstance>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIP></GatewayIP>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <SupportDS></SupportDS>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEStaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEStaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPAddr	Start IP address.	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIP	Gateway IP address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
SupportDS	Support dual stack for dynamic IPoE sessions.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEv6StaticUser

This table contains the information about configuring IPoEv6 statistics User.

XML structure

```
<UCM>
  <IPoEv6StaticUser>
    <StaticUser>
      <StartIPv6Addr></StartIPv6Addr>
      <EndIPv6Addr></EndIPv6Addr>
      <VpnInstance></VpnInstance >
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIPv6></GatewayIPv6>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <SupportDS></SupportDS>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEv6StaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEv6StaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPv6Addr	Start IPv6 address.	Index	String, dotted decimal notation.	N/A
EndIPv6Addr	End IPv6 address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIPv6	Gateway IPv6 address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
SupportDS	Support dual stack for dynamic IPoE sessions.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEDualStackStaticUser

This table contains the information about configuring IPoE DualStack statistics User.

XML structure

```
<UCM>
  <IPoEDualStackStaticUser>
    <StaticUser>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <StartIPv6Addr></StartIPv6Addr>
      <EndIPv6Addr></EndIPv6Addr>
      <VpnInstance></VpnInstance >
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIP></GatewayIP>
      <GatewayIPv6></GatewayIPv6>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEDualStackStaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDualStackStaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPAddr	Start IP address.	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address.	Index	String, dotted decimal notation.	N/A
StartIPv6Addr	Start IPv6 address.	Index	String, dotted decimal notation.	N/A
EndIPv6Addr	End IPv6 address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIP	Gateway IP address.	N/A	String, dotted decimal notation.	N/A
GatewayIPv6	Gateway IPv6 address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Disable (default). • 2—IPV4 . • 3—IPV6.	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

Contents

UCM 1

UCM/UCMWorkMode 1
XML structure 1
Table description 1
Columns 1
UCM/IPoEIfEnable 1
XML structure 1
Table description 2
Columns 2
UCM/IPoETrustOption 3
XML structure 4
Table description 4
Columns 4
UCM/IPoETrust6Option 5
XML structure 5
Table description 5
Columns 6
UCM/IPoENASPortID 6
XML structure 6
Table description 7
Columns 7
UCM/IPoEDhcpAuthDomain 7
XML structure 7
Table description 8
Columns 8
UCM/IPoEUnclassifiedIPAuthDomain 8
XML structure 8
Table description 9
Columns 9
UCM/IPoEPassword 9
XML structure 9
Table description 10
Columns 10
UCM/IPoEDhcpPassword 11
XML structure 11
Table description 11
Columns 12
UCM/IPoEDhcp6Password 12
XML structure 12
Table description 13
Columns 13
UCM/PppoesAccessLineId 13
XML structure 13
Table description 14
Columns 14
UCM/InterfaceDownPolicy 15
XML structure 15
Table description 15
Columns 16
UCM/TotalUserStatistics 16
XML structure 16
Table description 17
Columns 17
UCM/UPUserStatistics 17
XML structure 17
Table description 18
Columns 18

UCM/UPUserStatistics/SlotUserStatistics 19
Table description 19
Columns 19
UCM/IfUserStatistics 20
XML structure 20
Table description 20
Columns 20
UCM/CPIfUserNum 21
XML structure 21
Table description 22
Columns 22
UCM/IPoEWebPreAuthDomain 22
XML structure 22
Table description 23
Columns 23
UCM/IPoEWebMacAuthDomain 23
XML structure 23
Table description 24
Columns 24
UCM/IPoEWebAuthDomain 24
XML structure 24
Table description 25
Columns 25
UCM/IPoEStaticUser 25
XML structure 25
Table description 26
Columns 26
UCM/IPoEv6StaticUser 27
XML structure 27
Table description 28
Columns 28
UCM/IPoEDualStackStaticUser 29
XML structure 30
Table description 30
Columns 30

UCM

UCM/UCMWorkMode

This table contains the information about using the UCM WorkMode.

XML structure

```
<UCM>
  <UCMWorkMode>
    <UPEnable></UPEnable>
  </UCMWorkMode>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	UCMWorkMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPEnable	Whether the UP work mode is enabled	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A

UCM/IPoEIfEnable

This table contains the information about configuring IPoE on an interface.

XML structure

```
<UCM>
  <IPoEIfEnable>
    <IfEnable>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <AccessMode></AccessMode>
```

```
      <AuthMethod></AuthMethod>
      <ARPInitiatorEnable></ARPInitiatorEnable>
      <IPInitiatorEnable></IPInitiatorEnable>
      <IPv6InitiatorEnable></IPv6InitiatorEnable>
      <NSNAInitiatorEnable></NSNAInitiatorEnable>
      <NDRSInitiatorEnable></NDRSInitiatorEnable>
      <BasicServiceType></BasicServiceType>
      <Dot1XAuthEnable></Dot1XAuthEnable>
      <WebAuthorVpnEnable></WebAuthorVpnEnable>
    </IfEnable>
  </IPoEIfEnable>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEIfEnable
Table type	Multi-instance table
Row name	IfEnable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
AccessMode	Access mode.	N/A	Enumeration: • 1—L2-connected-All. • 2—L2-connected-IPv4. • 3—L2-connected-IPv6. • 4—Routed-All. • 5—Routed-IPv4. • 6—Routed-IPv6. • 7—Disable. (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMethod	Authentication method.	N/A	Enumeration: • 1—Bind authentication. (default) • 2—Web authentication. • 3—MAC authentication. • 4—Bind re-authentication.	N/A
ARPInitiatorEnable	Enable the ARP-based static individual user.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
IPInitiatorEnable	Enable the unclassified-IP user.	N/A	Enumeration: • 1—Enable all users. • 2—Enable static and abnormally offline users only. • 3—Disable. (default)	N/A
IPv6InitiatorEnable	Enable the unclassified-IPv6 user.	N/A	Enumeration: • 1—Enable all users. • 2—Enable static and abnormally offline users only. • 3—Disable. (default)	N/A
NSNAInitiatorEnable	Enable the IPv6 NS NA user.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
NDRSInitiatorEnable	Enable the IPv6 ND RS user.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
BasicServiceType	Basic service type	N/A	Enumeration: • 1—Default. (default) • 2—Basic service ipv4 type.	N/A
Dot1XAuthEnable	Enable the dot1x authentication.	N/A	Enumeration: • 1—Enable. • 2—Enable dot1x authentication with priority. • 3—Disable (default).	N/A
WebAuthorVpnEnable	Enable the web authorize vpn	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A

UCM/IPoETrustOption

This table contains the information about using the IPoE TrustOption.

XML structure

```
<UCM>
  <IPoETrustOption>
    <TrustOption>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <TrustDhcpOption12></TrustDhcpOption12>
      <TrustDhcpOption60></TrustDhcpOption60>
      <TrustDhcpOption77></TrustDhcpOption77>
      <TrustDhcpOption82></TrustDhcpOption82>
    </TrustOption>
  </IPoETrustOption>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoETrustOption
Table type	Multi-instance table
Row name	TrustOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
TrustDhcpOption12	Trust DHCP option12.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
TrustDhcpOption60	Trust DHCP option60.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TrustDhcpOption77	Trust DHCP option77	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
TrustDhcpOption82	Trust DHCP option82.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A

UCM/IPoETrust6Option

This table contains the information about configuring IPoEv6 trusted options.

XML structure

```
<UCM>
  <IPoETrust6Option>
    <Trust6Option>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <TrustDhcp6Option16></TrustDhcp6Option16>
      <TrustDhcp6Option17></TrustDhcp6Option17>
      <TrustDhcp6Option18></TrustDhcp6Option18>
      <TrustDhcp6Option37></TrustDhcp6Option37>
      <UntrustDhcp6Option79></UntrustDhcp6Option79>
    </Trust6Option>
  </IPoETrust6Option>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoETrust6Option
Table type	Multi-instance table
Row name	Trust6Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
TrustDhcp6 Option16	Trust DHCPv6 option16.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
TrustDhcp6 Option17	Trust DHCPv6 option17.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
TrustDhcp6 Option18	Trust DHCPv6 option18.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
TrustDhcp6 Option37	Trust DHCPv6 option37.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted. (default)	N/A
UntrustDhcp 6Option79	Untrust DHCPv6 option79	N/A	Enumeration: • 1—Untrusted. • 2—Trusted.	N/A

UCM/IPoENASPortID

This table contains the information about using the IPoE NASPortID.

XML structure

```
<UCM>
  <IPoENASPortID>
    <NASPortID>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <InsertNasInfo></InsertNasInfo>
      <NASPortIDFormat></NASPortIDFormat>
    </NASPortID>
  </IPoENASPortID>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoENASPortID
Table type	Multi-instance table
Row name	NASPortID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
InsertNasInfo	Insert NAS information to NAS-PORT-ID.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
NASPortIDFormat	Format of NAS-PORT-ID.	N/A	Enumeration: • 1—Version1.0. (default) • 2—Version2.0. • 3—Version3.0. • 4—Version4.0.	N/A

UCM/IPoEDhcpAuthDomain

This table contains the information about using IPoE Dhcp Authentication Domain.

XML structure

```
<UCM>
  <IPoEDhcpAuthDomain>
    <DhcpAuthDomain>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <DomainName></DomainName>
      <Force></Force>
```

```
    </DhcpAuthDomain>
  </IPoEDhcpAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcpAuthDomain
Table type	Multi-instance table
Row name	DhcpAuthDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Force	Force domain	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A

UCM/IPoEUnclassifiedIPAuthDomain

This table contains the information about using the IPoE Unclassified IP Auth Domain .

XML structure

```
<UCM>
  <IPoEUnclassifiedIPAuthDomain>
    <UnclassifiedIPAuthDomain>
      <IfIndex></IfIndex>
```

```
      <IfName></IfName>
      <DomainName></DomainName>
    </UnclassifiedIPAuthDomain>
  </IPoEUnclassifiedIPAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEUnclassifiedIPAuthDomain
Table type	Multi-instance table
Row name	UnclassifiedIPAuthDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
DomainName	Domain name	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEPassword

This table contains the information about configuring IPoE password.

XML structure

```
<UCM>
  <IPoEPassword>
    <Password>
      <IfIndex></IfIndex>
```

```
      <IfName></IfName>
      <PswContext></PswContext>
      <MacSeparator></MacSeparator>
      <MacIsLowcase></MacIsLowcase>
      <IsCipherText></IsCipherText>
      <PswText></PswText>
    </Password>
  </IPoEPassword>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEPassword
Table type	Multi-instance table
Row name	Password
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
PswContext	Context of password.	N/A	Enumeration: • 1—Use default string “vlan” as password. (default) • 2—Use user’s MAC address as password. • 3—Use string as password.	
MacSeparator	Separator of MAC address.	N/A	Char.	Used when the “PswContext” column is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
MacIsLowcase	The MAC address is lowercase	N/A	Enumeration: • 1—True. • 2—False. • 3—Undefined. (default)	Used when the “PswContext” column is 2.
IsCipherText	The string is cipher text.	N/A	Enumeration: • 1—True. • 2—False. (default)	Used when the “PswContext” column is 3.
PswText	Password text.	N/A	String.	Used when the “PswContext” column is 3.

UCM/IPoEDhcpPassword

This table contains the information about configuring IPoE Dhcp password.

XML structure

```
<UCM>
  <IPoEDhcpPassword>
    <DhcpPassword>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PswContext></PswContext>
      <Option60Offset></Option60Offset>
      <Option60Length></Option60Length>
      <Option60Original></Option60Original>
    </DhcpPassword>
  </IPoEDhcpPassword>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcpPassword
Table type	Multi-instance table
Row name	DhcpPassword
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
PswContext	Context of password.	N/A	Enumeration: • 1—Default. (default) • 2—Option60. • 3—MAC in Circuit-id option. • 4—User-class option.	
Option60Offset	Offset in DHCP option60.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option60Length	Length of password.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option60Original	Original mode of password.	N/A	Enumeration: • No. (default) • Yes.	Used when the “PswContext” column is 2.

UCM/IPoEDhcp6Password

This table contains the information about configuring IPoE Dhcp v6 password.

XML structure

```
<UCM>
  <IPoEDhcp6Password>
    <Dhcp6Password>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <PswContext></PswContext>
      <Option16Offset></Option16Offset>
      <Option16Length></Option16Length>
      <Option16Original></Option16Original>
    </Dhcp6Password>
  </IPoEDhcp6Password>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDhcp6Password
Table type	Multi-instance table
Row name	Dhcp6Password
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
PswContext	Context of password.	N/A	Enumeration: • 1—Default. (default) • 2—Option16.	N/A
Option16Offset	Offset in DHCP v6 option16.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option16Length	Length of password.	N/A	Unsigned integer.	Used when the “PswContext” column is 2.
Option16Original	Original mode of password.	N/A	Enumeration: • No. (default) Yes.	Used when the “PswContext” column is 2.

UCM/PppoesAccessLineId

This table contains the information about configuring the NAS-PORT-ID attribute related parameters of the PPPoE session.

XML structure

```
<UCM>
  <PppoesAccessLineId>
    <AccessLineId>
```

```
      <IfIndex></IfIndex>
      <IfName></IfName>
      <InsertBasInfo></InsertBasInfo>
      <CircuitIdParseMode></CircuitIdParseMode>
      <CircuitIdTransFormat></CircuitIdTransFormat>
      <IncludeContent></IncludeContent>
      <IncludeContentSeparator></IncludeContentSeparator>
      <RemoteIdTransFormat></RemoteIdTransFormat>
      <TrustAccessLineId></TrustAccessLineId>
      <InsertVxlanId></InsertVxlanId>
    </AccessLineId>
  </PppoesAccessLineId>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	PppoesAccessLineId
Table type	Multi-instance table
Row name	AccessLineId
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
InsertBasInfo	Insert BAS information.	N/A	Enumeration: • 1—Not insert.(default) • 2—Insert cn-163 format infotmation. • 3—Insert cn-telecom format information.	N/A
CircuitIdParseMode	Parse mode of Circuit-id.	N/A	Enumeration: • 1—cn-telecom.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—tr-101.(default)	
CircuitIdTransFormat	Transfer format of Circuit-id.	N/A	Enumeration: • 1—ASCII.(default) • 2—HEX.	N/A
IncludeContent	Include content in access line id.	N/A	Enumeration: • 1—Include Circuit-id only.(default) • 2—Include Remote-id only. • 3—Include Circuit-id and Remote-id.	N/A
IncludeContentSeparator	The separator between circuit-id and remote-id	N/A	Char	N/A
RemoteIdTransFormat	Transfer format of Remote-id.	N/A	Enumeration: • 1—ASCII.(default) • 2—HEX.	N/A
TrustAccessLineId	Trust access line id in packets.	N/A	Enumeration: • 1—Trusted. • 2—Untrusted.(default)	N/A
InsertVxlanId	Insert Vxlan information to access line id.	N/A	Enumeration: • 1—Enable. • 2—Disable.(default)	N/A

UCM/InterfaceDownPolicy

This table contains the information about using the InterfaceDownPolicy.

XML structure

```
<UCM>
  <InterfaceDownPolicy>
    <DownPolicy>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Policy></Policy>
    </DownPolicy>
  </InterfaceDownPolicy>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	InterfaceDownPolicy

Table type	Multi-instance table
Row name	DownPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
Policy	Policy of interface down.	N/A	Enumeration: • 1—Offline(default). • 2—Online with user detection. • 3—Online without user detection.	N/A

UCM/TotalUserStatistics

This table contains the information about using the UCM total user statistics.

XML structure

```
<UCM>
  <TotalUserStatistics>
    <TotalUserCount></TotalUserCount>
    <IPoEUserCount></IPoEUserCount>
    <L2TPLNSUserCount></L2TPLNSUserCount>
    <PPPoEUserCount></PPPoEUserCount>
    <L2TPLACUserCount></L2TPLACUserCount>
    <IPv4UserCount></IPv4UserCount>
    <IPv6UserCount></IPv6UserCount>
    <DualStackUserCount></DualStackUserCount>
  </TotalUserStatistics>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	TotalUserStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalUserCount	Total User Count.	N/A	Unsigned integer.	N/A
IPoEUserCount	IPoE user Count.	N/A	Unsigned integer.	N/A
L2TPLNSUserCount	L2TP LNS user count.	N/A	Unsigned integer.	N/A
PPPoEUserCount	PPPoE user count.	N/A	Unsigned integer.	N/A
L2TPLACUserCount	L2TP LAC user count.	N/A	Unsigned integer.	N/A
IPv4UserCount	IPv4 user count	N/A	Unsigned integer.	N/A
IPv6UserCount	IPv6 user count	N/A	Unsigned integer.	N/A
DualStackUserCount	Dual Stack user count	N/A	Unsigned integer.	N/A

UCM/UPUserStatistics

This table contains the information about using UCM up user statistics.

XML structure

```
<UCM>
  <UPUserStatistics>
    <UserStatistics>
      <UPid></UPid>
      <TotalUserCount></TotalUserCount>
      <IPoEUserCount></IPoEUserCount>
      <L2TPLNSUserCount></L2TPLNSUserCount>
      <PPPoEUserCount></PPPoEUserCount>
      <L2TPLACUserCount></L2TPLACUserCount>
```

```
      <IPv4UserCount></IPv4UserCount>
      <IPv6UserCount></IPv6UserCount>
      <DualStackUserCount></DualStackUserCount>
      <SlotUserStatistics>
        <UserStatistics>
          <SlotId></SlotId>
          <TotalUserCount></TotalUserCount>
          <IPoEUserCount></IPoEUserCount>
          <L2TPLNSUserCount></L2TPLNSUserCount>
          <PPPoEUserCount></PPPoEUserCount>
          <L2TPLACUserCount></L2TPLACUserCount>
          <IPv4UserCount></IPv4UserCount>
          <IPv6UserCount></IPv6UserCount>
          <DualStackUserCount></DualStackUserCount>
        </UserStatistics>
      </SlotUserStatistics>
    </UserStatistics>
  </UPUserStatistics>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	TotalUserStatistics
Table type	Multi-instance table
Row name	UserStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UPid	UP id	Index	Unsigned integer.	N/A
TotalUserCount	Total user count	N/A	Unsigned integer.	N/A
IPoEUserCount	IPoE user count.	N/A	Unsigned integer.	N/A
L2TPLNSUserCount	L2TP LNS user count.	N/A	Unsigned integer.	N/A
PPPoEUserCount	PPPoE user count.	N/A	Unsigned integer.	N/A
L2TPLACUserCount	L2TP LAC user count	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4UserCount	IPv4 user count.	N/A	Unsigned integer.	N/A
IPv6UserCount	IPv6 user count.	N/A	Unsigned integer.	N/A
DualStackUserCount	Dual Stack user count.	N/A	Unsigned integer.	N/A
SlotUserStatistics	up slot user statistics.	Sublist	N/A	N/A

UCM/UPUserStatistics/SlotUserStatistics

This table contains the information about using UCM up slot user statistics.

Table description

Item	Description
Feature name	UCM
Table name	SlotUserStatistics
Table type	Multi-instance table
Row name	UserStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotId	Slot ID.	N/A	Unsigned integer.	N/A
TotalUserCount	Total user count on	N/A	Unsigned integer.	N/A
IPoEUserCount	IPoE user count.	N/A	Unsigned integer.	N/A
L2TPLNSUserCount	L2TP LNS user count.	N/A	Unsigned integer.	N/A
PPPoEUserCount	PPPoE user count.	N/A	Unsigned integer.	N/A
L2TPLACUserCount	L2TP LAC user count.	N/A	Unsigned integer.	N/A
IPv4UserCount	IPv4 user count.	N/A	Unsigned integer.	N/A
IPv6UserCount	IPv6 user count.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DualStackUserCount	Dual Stack user count.	N/A	Unsigned integer.	N/A

UCM/IfUserStatistics

This table contains the information about using UCM IF user statistics.

XML structure

```
<UCM>
  <IfUserStatistics>
    <UserStatistics>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <TotalUserCount></TotalUserCount>
      <IPoEUserCount></IPoEUserCount>
      <L2TPLNSUserCount></L2TPLNSUserCount>
      <PPPoEUserCount></PPPoEUserCount>
      <L2TPLACUserCount></L2TPLACUserCount>
      <IPv4UserCount></IPv4UserCount>
      <IPv6UserCount></IPv6UserCount>
      <DualStackUserCount></DualStackUserCount>
    </UserStatistics>
  </IfUserStatistics>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IfUserStatistics
Table type	Multi-instance table
Row name	UserStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
TotalUserCount	Total user count	N/A	Unsigned integer.	N/A
IPoEUserCount	IPoE user count.	N/A	Unsigned integer.	N/A
L2TPLNSUserCount	L2TP LNS user count.	N/A	Unsigned integer.	N/A
PPPoEUserCount	PPPoE user count.	N/A	Unsigned integer.	N/A
L2TPLACUserCount	L2TP LAC user count.	N/A	Unsigned integer.	N/A
IPv4UserCount	IPv4 user count	N/A	Unsigned integer.	N/A
IPv6UserCount	IPv6 user count	N/A	Unsigned integer.	N/A
DualStackUserCount	Dual Stack user count	N/A	Unsigned integer.	N/A

UCM/CPIfUserNum

This table contains the information about using the CPIfUserNum.

XML structure

```
<UCM>
  <CPIfUserNum>
    <IfUserNum>
      <IfIndex></IfIndex>
      <WithAllSubIf></WithAllSubIf>
      <UserNum></UserNum>
    </IfUserNum>
  </CPIfUserNum>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	CPIfUserNum
Table type	Multi-instance table
Row name	IfUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
WithAllSubIf	Calculate all sub ifindex	N/A	Enumeration: • **1**—Enable. • **2**—Disable (default).	N/A
UserNum	User number	N/A	UnsignedInteger	N/A

UCM/IPoEWebPreAuthDomain

This table contains the information about using the IPoEWebPreAuthDomain.

XML structure

```
<UCM>
  <IPoEWebPreAuthDomain>
    <WebPreAuthDomain>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <DomainName></DomainName>
    </WebPreAuthDomain>
  </IPoEWebPreAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebPreAuthDomain
Table type	Multi-instance table
Row name	WebPreAuthDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
DomainName	Domain name.	N/A	String. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEWebMacAuthDomain

This table contains the information about using the IPoEWebMacAuthDomain.

XML structure

```
<UCM>
  <IPoEWebMacAuthDomain>
    <MacAuthDomain>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <DomainName></DomainName>
    </MacAuthDomain>
  </IPoEWebMacAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebMacAuthDomain
Table type	Multi-instance table
Row name	MacAuthDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
DomainName	Domain name.	N/A	String. Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEWebAuthDomain

This table contains the information about using the IPoEWebAuthDomain.

XML structure

```
<UCM>
  <IPoEWebAuthDomain>
    <WebAuthDomain>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <DomainName></DomainName>
    </WebAuthDomain>
  </IPoEWebAuthDomain>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEWebAuthDomain
Table type	Multi-instance table
Row name	WebAuthDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
DomainName	Domain name.	N/A	String length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

UCM/IPoEStaticUser

This table contains the information about configuring IPoE statistics User.

XML structure

```
<UCM>
  <IPoEStaticUser>
    <StaticUser>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <VpnInstance></VpnInstance>
      <UPid></UPid>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <IfName></IfName>
```

```
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIP></GatewayIP>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <NumInUse></NumInUse>
      <SupportDS></SupportDS>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEStaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEStaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPAddr	Start IP address.	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
UPid	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIP	Gateway IP address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
NumInUse	Static user num in use.	N/A	Unsigned integer.	N/A
SupportDS	Support dual stack for dynamic IPoE sessions.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEv6StaticUser

This table contains the information about configuring IPoEv6 statistics User.

XML structure

```
<UCM>
  <IPoEv6StaticUser>
    <StaticUser>
      <StartIPv6Addr></StartIPv6Addr>
      <EndIPv6Addr></EndIPv6Addr>
```

```
      <VpnInstance></VpnInstance>
      <UPid></UPid>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIPv6></GatewayIPv6>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <NumInUse></NumInUse>
      <SupportDS></SupportDS>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEv6StaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEv6StaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPv6Addr	Start IPv6 address.	Index	String, dotted decimal notation.	N/A
EndIPv6Addr	End IPv6 address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
UPid	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIPv6	Gateway IPv6 address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
NumInUse	Static user num in use.	N/A	Unsigned integer.	N/A
SupportDS	Support dual stack for dynamic IPoE sessions.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

UCM/IPoEDualStackStaticUser

This table contains the information about configuring IPoE DualStack statistics User.

XML structure

```
<UCM>
  <IPoEDualStackStaticUser>
    <StaticUser>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <StartIPv6Addr></StartIPv6Addr>
      <EndIPv6Addr></EndIPv6Addr>
      <VpnInstance></VpnInstance>
      <UPid></UPid>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <VlanId></VlanId>
      <SecondVlanId></SecondVlanId>
      <GatewayIP></GatewayIP>
      <GatewayIPv6></GatewayIPv6>
      <PswUseMac></PswUseMac>
      <RequestOnline></RequestOnline>
      <KeepOnline></KeepOnline>
      <DomainName></DomainName>
      <Description></Description>
      <NumInUse></NumInUse>
      <StaticType></StaticType>
    </StaticUser>
  </IPoEDualStackStaticUser>
</UCM>
```

Table description

Item	Description
Feature name	UCM
Table name	IPoEDualStackStaticUser
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPAddr	Start IP address.	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address.	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIPv6Addr	Start IPv6 address.	Index	String, dotted decimal notation.	N/A
EndIPv6Addr	End IPv6 address.	Index	String, dotted decimal notation.	N/A
VpnInstance	VPN instance name.	Index	String,Length: 1 to 31 characters.	N/A
UPid	UP ID.	Index	Unsigned integer. Value range: 1024 to 8192	N/A
MacAddr	MAC address.	N/A	String, form:H-H-H	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IfName	Interface name.	N/A	String length: 1 to 47 characters.	The IfName column is read-only.
VlanId	VLAN id.	N/A	Unsigned integer. 1-4094	N/A
SecondVlanId	Secondary VLAN id.	N/A	Unsigned integer. 1-4094	N/A
GatewayIP	Gateway IP address.	N/A	String, dotted decimal notation.	N/A
GatewayIPv6	Gateway IPv6 address.	N/A	String, dotted decimal notation.	N/A
PswUseMac	Use MAC address to password.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
RequestOnline	Request users logon.	N/A	Enumeration: • 1—Disable. (default) • 2—IPV4 . • 3—IPV6.	N/A
KeepOnline	Keep Online status.	N/A	Enumeration: • 1—Enable. • 2—Disable. (default)	N/A
DomainName	Domain name.	N/A	String, Length: 1 to 255 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A
Description	Description of static user.	N/A	String, Length: 1 to 31 characters. The domain name can't contain the following characters: \ | / : * ? " < > @	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NumInUse	Static user num in use.	N/A	Unsigned integer.	N/A
StaticType	Support static leased user.	N/A	Enumeration: • 1—Enable. • 2—Disable (default).	N/A

Contents

UCM 1

UCM/IPoEDhcpAuthDomain&IPoEUnclassifiedIPAuthDomain&IPoEWebPreAuthDomain&IPoEWebMacAuthDomain&IPoEWebAuthDomain 1
UCM/IPoEIfEnable 1
UCM/IPoEPassword 1
UCM/PppoesAccessLineId 2
UCM/IPoETrust6Option 2
UCM/IPoEDhcpPassword&IPoEDhcp6Password 2
UCM/IPoEStaticUser&IPoEDualStackStaticUser 2
UCM/IPoEv6StaticUser&IPoEDualStackStaticUser 3
UCM/IPoEDualStackStaticUser 3
UCM/IPoEv6StaticUser&IPoEDualStackStaticUser&IPoEStaticUser 3
UCM/IPoEIfEnable&IPoETrustOption&IPoETrust6Option&IPoENASPortID&IPoEDhcpAuthDomain&IPoEUnclassifiedIPAuthDomain&IPoEPassword&IPoEDhcpPassword&IPoEDhcp6Password&PppoesAccessLineId&InterfaceDownPolicy&IPoEWebPreAuthDomain&IPoEWebMacAuthDomain& IPoEWebAuthDomain 4

UCM

UCM/IPoEDhcpAuthDomain&IPoEUnclassifiedIPAuthDomain&IPoEWebPreAuthDomain&IPoEWebMacAuthDomain&IPoEWebAuthDomain

Message	Explanation
Domain name can't include \, |, /, :, *, ?, ", <, > or @. 域名不能包含\，|，/，:，*，?，“，<，>，@。	The <DomainName> column can’t include \, |, /, :, *, ?, ", <, > or @. <DomainName>列一定不能包含\，|，/，:，*，?，”，<，>，@。

UCM/IPoEIfEnable

Message	Explanation
Please disable the current IP subscriber access mode first. 请先删除当前IP subscriber access mode。	Please disable the current IP subscriber access mode first. 不能通过重复执行**ip subscriber** { **l2-connected** | **routed** } **enable** 命令修改IPoE的接入模式和协议栈类型。如需修改IPoE的接入模式或协议栈类型，请先通过**undo ip subscriber enable**命令关闭IPoE功能，再执行**ip subscriber enable**命令。

UCM/IPoEPassword

Message	Explanation
Used for MAC config when the PswContext column is 2.	当PswContext 值为2 时只能下发MAC相关属性列。
Used for STRING config when the PswContext column is 3.	当PswContext 值为3 时只能下发STRING相关属性列。
Failed when convert plain text to cipher text.	明文转密文失败。
Failed when check the cipher text.	密文检查失败。
Could not set related columns when the PswContext column is default.	当PswContext 值为缺省值时不能下发相关属性列。
Must set IsCipherText and PswText columns simultaneously when the PswContext column is 3.	当PswContext 值为3 时须同时下发IsCipherText 和PswText。
Could not set colums after PswContext when delete or remove.	当delete 或remove 操作时不能下发PswContext后面四个属性列。
Could not set offset or length colums when delete or remove and PswContext is 3 or 4.	当delete 或remove 操作且PswContext为3或4时不能下发Offset和Length列。

UCM/PppoesAccessLineId

Message	Explanation
Failed when the IncludeContent value is not 3. 在IncludeContent值为3时才能下发。	Failed when the IncludeContent value is not 3. 在IncludeContent值为3时才能下发。

UCM/IPoETrust6Option

Message	Explanation
Please remove the option17 first. 请先删除对OPTION17的配置。 Please remove the option16 first. 请先删除对OPTION16的配置。 option16 and option17 connot issue attribute columns at the same time. OPTION16和OPTION17不能同时下发属性列。	Please remove the option17 first. Option16和option17不能同时下发属性列，如果已经下了option17的属性列，还想下option16属性列，则必须先删除对option17的配置。 Please remove the option16 first. Option16和option17不能同时下发属性列，如果已经下了option16的属性列，还想下option17属性列，则必须先删除对option16的配置。 option16 and option17 connot issue attribute columns at the same time. Option16和option17不能同时下发属性列，由于netconf可以同时配置两个属性列，会显示不能同时配置option16 和option17

UCM/IPoEDhcpPassword&IPoEDhcp6Password

Message	Explanation
Set offset or length columns when the PswContext column is set and it's value is 2. 只有下发PswContext 列且值为2 时才能下发Offset或Length属性列。	Set offset or length columns when the PswContext column is set and it's value is 2. 只有下发<PswContext>列且值为2 时才能下发<Option16Length>或<Option16Offset>属性列。

UCM/IPoEStaticUser&IPoEDualStackStaticUser

Message	Explanation
The start IP address should be less than or equal to the end IP address. 起始IP地址应小于或等于结束IP地址。	The start IP address should be less than or equal to the end IP address. <StartIPAddr>地址应小于或等于<EndIPAddr>地址。

UCM/IPoEv6StaticUser&IPoEDualStackStaticUser

Message	Explanation
The start IPv6 address should be less than or equal to the end IPv6 address. 起始IPv6地址应小于或等于结束IPv6地址。 IPv6 is not support L3VE. IPv6不支持L3VE	The start IPv6 address should be less than or equal to the end IPv6 address. <StartIPv6Addr>地址应小于或等于<EndIPv6Addr>地址。 IPv6 is not support L3VE. IPv6不支持L3VE

UCM/IPoEDualStackStaticUser

Message	Explanation
The number of IPv4 is different from that of IPv6. IPv4的数量与IPv6的数量不同。	The number of IPv4 is different from that of IPv6. 配置IPv4的数量与配置IPv6的数量不同。

UCM/IPoEv6StaticUser&IPoEDualStackStaticUser&IPoEStaticUser

Message	Explanation
The total number of IP addresses in the specified IP address range cannot exceed 256. 指定IP地址范围内的IP地址总数不能超过256。 VPN-Instance does not exist. VPN-Instance不存在。 The IP address range contains an existing IP. IP地址范围包含现有IP。 operation failed. Please configure the VLAN first. 操作失败。请先下VLAN配置。 Please remove the static session configuration first. 操作失败。请先下子接口配置。 Please remove the subnet-leased configuration from the specified interface first. 如果指定了VLAN，则接口必须是子接口。 Please remove the static session configuration first. 请先删除静态会话配置。 Please remove the subnet-leased configuration first. 请先删除子网租用配置。 Please remove the interface-leased configuration from the specified interface first.	The total number of IP addresses in the specified IP address range cannot exceed 256. <StartIPAddr>和<EndIPv6Addr>所包含的IP地址不能超过256，IPoEv6StaticUser表同样如此。 VPN-Instance does not exist. 如果你输入的<VpnInstance>接口不是你配置的VPN-Instance，则会显示VPN-Instance不存在。 The IP address range contains an existing IP. IP地址范围包含现有IP。 operation failed. Please configure the VLAN first. 操作失败。请先下VLAN配置。 Please remove the static session configuration first. 操作失败。请先下子接口配置。 Please remove the subnet-leased configuration from the specified interface first. 如果指定了VLAN，则接口必须是子接口。 Please remove the static session configuration first. 请先删除静态会话配置。 Please remove the subnet-leased configuration first. 请先删除子网租用配置。 Please remove the interface-leased configuration from the specified interface first. 请先从指定接口删除子网租用配置。

请先从指定接口删除子网租用配置。 Please remove the interface-leased configuration first. 请先删除接口租用的配置。 Please remove the l2vpn-leased configuration from the specified interface first. 请先从指定接口删除l2vpn租用配置。 Please remove the l2vpn-leased configuration first. 请先删除l2vpn租用的配置。 Please remove the initiator unclassified-ip configuration first. 请先删除发起程序unclassified-ip配置。 Please remove the initiator unclassified-ipv6 configuration first. 请先删除发起程序unclassified-ipv6配置。 The sessions configured for an interface cannot contain sessions that already exist on the interface. 为接口配置的会话不能包含接口上已存在的会话。 Operation failed.Can't undo static config as Ucm thread is using! 操作失败。无法撤消静态配置，因为Ucm线程正在使用！ Operation failed. The static config failed to apply for IP address from the AM! 操作失败。静态配置无法从AM申请IP地址！ Operation failed. Please enable DHCP first. 操作失败。请先启用DHCP。 Operation failed.This configuration is supported only when IPoE works in dual-stack mode. 操作失败。仅当IPoE在双栈模式下工作时，才支持此配置。 Operation failed. 操作失败。 VPN name conflict when undo operation. undo操作时VPN名称冲突。 Operation failed.Please first forbid the IP addresses specified in the static session in AM. 操作失败。请先禁止AM中静态会话中指定的IP地址。 operation failed. Please configure the interface first. 操作失败。请先下接口配置。	Please remove the interface-leased configuration first. 请先删除接口租用的配置。 Please remove the l2vpn-leased configuration from the specified interface first. 请先从指定接口删除l2vpn租用配置。 Please remove the l2vpn-leased configuration first. 请先删除l2vpn租用的配置。 Please remove the initiator unclassified-ip configuration first. 请先删除发起程序unclassified-ip配置。 Please remove the initiator unclassified-ipv6 configuration first. 请先删除发起程序unclassified-ipv6配置。 The sessions configured for an interface cannot contain sessions that already exist on the interface. 为接口配置的会话不能包含接口上已存在的会话。 Operation failed.Can't undo static config as Ucm thread is using! 操作失败。无法撤消静态配置，因为Ucm线程正在使用！ Operation failed. The static config failed to apply for IP address from the AM! 操作失败。静态配置无法从AM申请IP地址！ Operation failed. Please enable DHCP first. 操作失败。请先启用DHCP。 Operation failed.This configuration is supported only when IPoE works in dual-stack mode. 操作失败。仅当IPoE在双栈模式下工作时，才支持此配置。 Operation failed. 操作失败。 VPN name conflict when undo operation. undo操作时VPN名称冲突。 Operation failed.Please first forbid the IP addresses specified in the static session in AM. 操作失败。请先禁止AM中静态会话中指定的IP地址。 operation failed. Please configure the interface first. 操作失败。请先下接口配置。

UCM/IPoEIfEnable&IPoETrustOption&IPoETrust6Option&IPoENASPortID&IPoEDhcpAuthDomain&IPoEUnclassifiedIPAuthDomain&IPoEPassword

&IPoEDhcpPassword&IPoEDhcp6Password&PppoesAccessLineId&InterfaceDownPolicy&IPoEWebPreAuthDomain&IPoEWebMacAuthDomain&IPoEWebAuthDomain

Message	Explanation
Could not set config on L2 interface. 二层接口下无法下发配置。	Could not set config on L2 interface. 二层接口无法配置命令，netconf也应无法下发。

Contents

UDP 1

UDP/UDPIntfEntryClearByType 1
XML structure 1
Table description 1
Columns 1
UDP/UDPIntfEntryClearByIfIndex 2
XML structure 2
Table description 3
Columns 3
UDP/UDPIpv4FlowEntryClearByIP 3
XML structure 4
Table description 4
Columns 4
UDP/UDPIpv4FlowEntryClearByVpn 5
XML structure 5
Table description 5
Columns 6
UDP/UDPIpv4FlowEntryClearByType 6
XML structure 6
Table description 7
Columns 7
UDP/UDPIpv4FlowEntryClearByPort 7
XML structure 8
Table description 8
Columns 8
UDP/UDPIpv6FlowEntryClearByIP 9
XML structure 9
Table description 9
Columns 10
UDP/UDPIpv6FlowEntryClearByVpn 10
XML structure 10
Table description 11
Columns 11
UDP/UDPIpv6FlowEntryClearByType 11
XML structure 12
Table description 12
Columns 12
UDP/UDPIpv6FlowEntryClearByPort 13
XML structure 13
Table description 13
Columns 14

UDP

UDP/UDPIntfEntryClearByType

This table is used to clear UDP interface entries according to entry types.

XML structure

```
<UDP>
  <UDPIntfEntryClearByType>
    <ClearByType>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <EntryType></EntryType>
      <ResetType></ResetType>
    </ClearByType>
  </UDPIntfEntryClearByType>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIntfEntryClearByType
Table type	Multi-instance table
Row name	ClearByType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis

Column name	Column description	Column type	Data type and restrictions
			• Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
EntryType	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIntfEntryClearByIfIndex

This table is used to clear UDP interface entries according to interface indexes.

XML structure

```
<UDP>
  <UDPIntfEntryClearByIfIndex>
    <ClearByIfIndex>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IfIndex></IfIndex>
      <ResetType></ResetType>
    </ClearByIfIndex>
  </UDPIntfEntryClearByIfIndex>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIntfEntryClearByIfIndex
Table type	Multi-instance table
Row name	ClearByIfIndex
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
IfIndex	Interface Index	Index	Unsigned integer.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv4FlowEntryClearByIP

This table is used to clear IPv4 UDP flow entries according to source IPv4 addresses.

XML structure

```
<UDP>
  <UDPIpv4FlowEntryClearByIP>
    <ClearByIP>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <Ipv4Address></Ipv4Address>
     <ResetType></ResetType>
    </ClearByIP>
  </UDPIpv4FlowEntryClearByIP>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv4FlowEntryClearByIP
Table type	Multi-instance table
Row name	ClearByIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv4FlowEntryClearByVpn

This table is used to clear IPv4 UDP flow entries according to VPN instances.

XML structure

```
<UDP>
  <UDPIpv4FlowEntryClearByVpn>
    <ClearByVpn>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <Vpnname></Vpnname>
      <ResetType></ResetType>
    </ClearByVpn>
  </UDPIpv4FlowEntryClearByVpn>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv4FlowEntryClearByVpn
Table type	Multi-instance table
Row name	ClearByVpn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Vpnname	VPN instance name	Index	String,Length: 1 to 31 characters.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv4FlowEntryClearByType

This table is used to clear IPv4 UDP flow entries according to entry types.

XML structure

```
<UDP>
  <UDPIpv4FlowEntryClearByType>
    <ClearByType>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <EntryType></EntryType>
      <ResetType></ResetType>
    </ClearByType>
  </UDPIpv4FlowEntryClearByType>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv4FlowEntryClearByType
Table type	Multi-instance table
Row name	ClearByType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
EntryType	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv4FlowEntryClearByPort

This table is used to clear IPv4 UDP flow entries according to destination ports.

XML structure

```
<UDP>
  <UDPIpv4FlowEntryClearByPort>
    <ClearByPort>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <PortNum></PortNum>
     <ResetType></ResetType>
    </ClearByPort>
  </UDPIpv4FlowEntryClearByPort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv4FlowEntryClearByPort
Table type	Multi-instance table
Row name	ClearByPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv6FlowEntryClearByIP

This table is used to clear IPv6 UDP flow entries according to source IPv6 addresses.

XML structure

```
<UDP>
  <UDPIpv6FlowEntryClearByIP>
    <ClearByIP>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <Ipv6Address></Ipv6Address>
      <ResetType></ResetType>
    </ClearByIP>
  </UDPIpv6FlowEntryClearByIP>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv6FlowEntryClearByIP
Table type	Multi-instance table
Row name	ClearByIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv6FlowEntryClearByVpn

This table is used to clear IPv6 UDP flow entries according to VPN instances.

XML structure

```
<UDP>
  <UDPIpv6FlowEntryClearByVpn>
    <ClearByVpn>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <Vpnname></Vpnname>
      <ResetType></ResetType>
    </ClearByVpn>
  </UDPIpv6FlowEntryClearByVpn>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv6FlowEntryClearByVpn
Table type	Multi-instance table
Row name	ClearByVpn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Vpnname	Name of the vpn	Index	String,Length: 1 to 31 characters.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv6FlowEntryClearByType

This table is used to clear IPv6 UDP flow entries according to entry types.

XML structure

```
<UDP>
  <UDPIpv6FlowEntryClearByType>
    <ClearByType>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <EntryType></EntryType>
     <ResetType></ResetType>
    </ClearByType>
  </UDPIpv6FlowEntryClearByType>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv6FlowEntryClearByType
Table type	Multi-instance table
Row name	ClearByType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
EntryType	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

UDP/UDPIpv6FlowEntryClearByPort

This table is used to clear IPv6 UDP flow entries according to destination ports.

XML structure

```
<UDP>
  <UDPIpv6FlowEntryClearByPort>
    <ClearByPort>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <PortNum></PortNum>
     <ResetType></ResetType>
    </ClearByPort>
  </UDPIpv6FlowEntryClearByPort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv6FlowEntryClearByPort
Table type	Multi-instance table
Row name	ClearByPort

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Device node information	Data structure	Members include: • Chassis • Slot • CPUID
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.
ResetType	Cleared object	Index	Enumeration: • **0**—Entries. • **1**—Statistics.

Contents

UDP 1
UDP/UDPAntiFloodConfig 1
XML structure 1
Table description 1
Columns 2
UDP/UDPExcludePort 3
XML structure 3
Table description 3
Columns 3
UDP/UDPDestPort 4
XML structure 4
Table description 4
Columns 4

UDP

UDP/UDPAntiFloodConfig

This table contains udp flow anti-flood global configuration information.

XML structure

```
<UDP>
  <UDPAntiFloodConfig>
    <FlowEnable></FlowEnable>
    <FlowDuration></FlowDuration>
    <FlowThreshold></FlowThreshold>
    <FlowInterval></FlowInterval>
    <InterfaceEnable></InterfaceEnable>
    <InterfaceDuration></InterfaceDuration>
    <InterfaceThreshold></InterfaceThreshold>
    <InterfaceInterval></InterfaceInterval>
    <LogEnable></LogEnable>
  </UDPAntiFloodConfig>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPAntiFloodConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowEnable	Enable flow anti-flood	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
FlowDuration	Flow anti-flood duration	N/A	Unsigned integer. Value range: 1 to 3600 min. Default: 5.	N/A
FlowThreshold	Flow anti-flood threshold	N/A	Unsigned integer. Value range: 1 to 1000000. Default: 100.	N/A
FlowInterval	Flow anti-flood interval	N/A	Unsigned integer. Value range: 1 to 60s. Default: 1.	N/A
InterfaceEnable	Enable interface anti-flood	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
InterfaceDuration	Interface anti-flood duration	N/A	Unsigned integer. Value range: 1 to 3600 min. Default: 5.	N/A
InterfaceThreshold	Interface anti-flood threshold	N/A	Unsigned integer. Value range: 1 to 1000000. Default: 100.	N/A
InterfaceInterval	Interface anti-flood interval	N/A	Unsigned integer. Value range: 1 to 60s. Default: 1.	N/A
LogEnable	Enable anti-flood log	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

UDP/UDPExcludePort

This table contains udp exclude port configuration information.

XML structure

```
<UDP>
  <UDPExcludePort>
    <ExcludePort>
      <IpType></IpType>
      <PortNum></PortNum>
     </ExcludePort>
  </UDPExcludePort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPExcludePort
Table type	Multi-instance table
Row name	ExcludePort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

UDP/UDPDestPort

This table contains udp destination port configuration information.

XML structure

```
<UDP>
  <UDPDestPort>
    <DestPort>
      <IpType></IpType>
      <PortNum></PortNum>
      <CheckInterval></CheckInterval>
      <Threshold></Threshold>
     </DestPort>
  </UDPDestPort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPDestPort
Table type	Multi-instance table
Row name	DestPort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CheckInterval	Check interval time	N/A	Unsigned integer. Value range: 1 to 60s.	N/A
Threshold	Check threshold	N/A	Unsigned integer. Value range: 1 to 1000000.	N/A

Contents

UDP 1

UDP/UDPAntiFloodConfig 1
XML structure 1
Table description 1
Columns 2
UDP/UDPExcludePort 2
XML structure 2
Table description 3
Columns 3
UDP/UDPDestPort 3
XML structure 3
Table description 4
Columns 4
UDP/UDPIpv4FlowEntry 4
XML structure 4
Table description 5
Columns 5
UDP/UDPIpv6FlowEntry 6
XML structure 6
Table description 7
Columns 7
UDP/UDPInterfaceEntry 8
XML structure 8
Table description 9
Columns 9

UDP

UDP/UDPAntiFloodConfig

This table contains udp flow anti-flood global configuration information.

XML structure

```
<UDP>
  <UDPAntiFloodConfig>
    <FlowEnable></FlowEnable>
    <FlowDuration></FlowDuration>
    <FlowThreshold></FlowThreshold>
    <FlowInterval></FlowInterval>
    <InterfaceEnable></InterfaceEnable>
    <InterfaceDuration></InterfaceDuration>
    <InterfaceThreshold></InterfaceThreshold>
    <InterfaceInterval></InterfaceInterval>
    <LogEnable></LogEnable>
  </UDPAntiFloodConfig>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPAntiFloodConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowEnable	Enable flow anti-flood	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
FlowDuration	Flow anti-flood duration	N/A	Unsigned integer. Value range: 1 to 3600 min.	N/A
FlowThreshold	Flow anti-flood threshold	N/A	Unsigned integer. Value range: 1 to 1000000.	N/A
FlowInterval	Flow anti-flood interval	N/A	Unsigned integer. Value range: 1 to 60s.	N/A
InterfaceEnable	Enable interface anti-flood	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
InterfaceDuration	Interface anti-flood duration	N/A	Unsigned integer. Value range: 1 to 3600 min.	N/A
InterfaceThreshold	Interface anti-flood threshold	N/A	Unsigned integer. Value range: 1 to 1000000.	N/A
InterfaceInterval	Interface anti-flood interval	N/A	Unsigned integer. Value range: 1 to 60s.	N/A
LogEnable	Enable anti-flood log	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A

UDP/UDPExcludePort

This table contains udp exclude port configuration information.

XML structure

```
<UDP>
  <UDPExcludePort>
    <ExcludePort>
```

```
      <IpType></IpType>
      <PortNum></PortNum>
     </ExcludePort>
  </UDPExcludePort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPExcludePort
Table type	Multi-instance table
Row name	ExcludePort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

UDP/UDPDestPort

This table contains udp destination port configuration information.

XML structure

```
<UDP>
  <UDPDestPort>
    <DestPort>
      <IpType></IpType>
      <PortNum></PortNum>
      <CheckInterval></CheckInterval>
```

```
    <Threshold></Threshold>
   </DestPort>
  </UDPDestPort>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPDestPort
Table type	Multi-instance table
Row name	DestPort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP type	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CheckInterval	Check interval time	N/A	Unsigned integer. Value range: 1 to 60s.	N/A
Threshold	Check threshold	N/A	Unsigned integer. Value range: 1 to 1000000.	N/A

UDP/UDPIpv4FlowEntry

This table contains ipv4 udp flow entry information.

XML structure

```
<UDP>
```

```
  <UDPIpv4FlowEntry>
    <Ipv4FlowEntry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <SrcIPv4Address></SrcIPv4Address>
      <PortNum></PortNum>
      <Vpnname></Vpnname>
      <EntryType></EntryType>
      <Status></Status>
      <AgingTime></AgingTime>
      <AttackTime></AttackTime>
      <PacketDrop></PacketDrop>
     </Ipv4FlowEntry>
  </UDPIpv4FlowEntry>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv4FlowEntry
Table type	Multi-instance table
Row name	Ipv4FlowEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SrcIPv4Address	Source Ipv4 address	Index	String, dotted decimal notation.	N/A
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Vpnname	Name of the vpn	Index	String,Length: 1 to 31 characters.	N/A
EntryType	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.	N/A
Status	Hardware status	N/A	String, dotted decimal notation.	N/A
AgingTime	Aging time	N/A	Unsigned integer.	N/A
AttackTime	Attack time	N/A	String, dotted decimal notation.	N/A
PacketDrop	Packets dropped count	N/A	Unsigned integer	N/A

UDP/UDPIpv6FlowEntry

This table contains ipv6 udp flow entry information.

XML structure

```
<UDP>
  <UDPIpv6FlowEntry>
    <Ipv6FlowEntry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <SrcIPv6Address></SrcIPv6Address>
```

```
      <PortNum></PortNum>
      <Vpnname></Vpnname>
      <EntryType></EntryType>
      <Status></Status>
      <AgingTime></AgingTime>
      <AttackTime></AttackTime>
      <PacketDrop></PacketDrop>
     </Ipv6FlowEntry>
  </UDPIpv6FlowEntry>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPIpv6FlowEntry
Table type	Multi-instance table
Row name	Ipv6FlowEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SrcIPv6Address	Source Ipv6 address	Index	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNum	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Vpnname	Name of the vpn	Index	String,Length: 1 to 31 characters.	N/A
EntryTppe	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.	N/A
Status	Hardware status	N/A	String, dotted decimal notation.	N/A
AgingTime	Aging time	N/A	Unsigned integer.	N/A
AttackTime	Attack time	N/A	String, dotted decimal notation.	N/A
PacketDrop	Packets dropped count	N/A	Unsigned integer	N/A

UDP/UDPInterfaceEntry

This table contains udp interface entry information.

XML structure

```
<UDP>
  <UDPInterfaceEntry>
    <InterfaceEntry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IfIndex></IfIndex>
      <EntryType></EntryType>
      <Status></Status>
      <AgingTime></AgingTime>
      <AttackTime></AttackTime>
      <PacketRecv></PacketRecv>
      <PacketSend></PacketSend>
     </InterfaceEntry>
  </UDPInterfaceEntry>
</UDP>
```

Table description

Item	Description
Feature name	UDP
Table name	UDPInterfaceEntry
Table type	Multi-instance table
Row name	InterfaceEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: • Chassis • Slot • CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A
EntryType	Entry type	Index	Enumeration: • **0**—mpls. • **1**—ip.	N/A
Status	Hardware status	N/A	String, dotted decimal notation.	N/A
AgingTime	Aging time	N/A	Unsigned integer.	N/A
AttackTime	Attack time	N/A	String, dotted decimal notation.	N/A
PacketRecv	Packets totally	N/A	Unsigned integer	N/A

	received			
PacketSend	Packets sent to CPU	N/A	Unsigned integer	N/A

Contents

Up 1
Up/Switchover 1
XML structure 1
Table description 1
Columns 1

Up

Up/Switchover

This table contains UP device and Track association information.

XML structure

```
<Up>
  <Switchover>
    <TrackEntryID></TrackEntryID>
  </Switchover>
</Up>
```

Table description

Item	Description
Feature name	Up
Table name	Switchover
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

Contents

Up 1
Up/Switchover 1
XML structure 1
Table description 1
Columns 1

Up

Up/Switchover

This table contains UP device and Track association information.

XML structure

```
<Up>
  <Switchover>
    <TrackEntryID></TrackEntryID>
  </Switchover>
</Up>
```

Table description

Item	Description
Feature name	Up
Table name	Switchover
Table type	Single-instance table
Row name	NA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

Contents

Up 1
Up/Switchover 1

Up

Up/Switchover

Message	Explanation
Failed to associate the track entry. Track绑定失败。	Invalid configuration, please modify configuration under the guidance.
Failed to get DBM handle. 获取UpBackup模块的配置数据库失败。	Invalid configuration, please modify configuration under the guidance.
Failed to remove association with the track entry. Track去绑定失败。	Invalid configuration, please modify configuration under the guidance.
Failed to notify CP device that the UP device and Track association had been removed. UP上去绑定Track后，上送消息给CP失败。	Invalid configuration, please modify configuration under the guidance.
This command only applies to the UP device. 在CP上进行绑定Track操作。	Invalid configuration, please modify configuration under the guidance.

Contents

UpBackup 1

UpBackup/Service 1
XML structure 1
Table description 1
Columns 1
UpBackup/Profiles 1
XML structure 2
Table description 2
Columns 3
UpBackup/Profiles/Interfaces 4
XML structure 4
Table description 4
Columns 4
UpBackup/Profiles/BackupRouteAdvertises 5
XML structure 5
Table description 5
Columns 5
UpBackup/Profiles/UPs 6
XML structure 6
Table description 6
Columns 6
UpBackup/Switchover 7
XML structure 7
Table description 7
Columns 8
UpBackup/TrackSwitchs 8
XML structure 8
Table description 8
Columns 9
UpBackup/TrackUpPeers 9
XML structure 9
Table description 9
Columns 10

UpBackup

UpBackup/Service

This table contains UP backup log information.

XML structure

```
<UpBackup>
  <Service>
    <Log></Log>
  </Service>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Service
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Log	Whether or not to enable logging	N/A	Boolean: • true(default) • false	N/A

UpBackup/Profiles

This table contains UP backup profile information.

XML structure

```
<UpBackup>
  <Profiles>
    <Profile>
      <Id></Id>
      <Mode></Mode>
      <IfBackupMode></IfBackupMode>
      <LoadBalanceMode></LoadBalanceMode>
      <WarmStandbyIf></WarmStandbyIf>
      <Interfaces>
        <Interface>
          <Master></Master>
          <Standby></Standby>
          <VRID></VRID>
          <ResourceID></ResourceID>
        </Interface>
      </Interfaces>
      <BackupRouteAdvertise>
        <Enable></Enable>
        <MasterCost></MasterCost>
        <BackupCost></BackupCost>
      </BackupRouteAdvertise>
      <NasLogicPort></NasLogicPort>
      <FailureRecoverySwitch></FailureRecoverySwitch>
      <FailureRecoverySwitchDelay></FailureRecoverySwitchDelay>
      <UPs>
        <UP>
          <UpId></UpId>
          <UpLinkName></UpLinkName>
          <CuspSwitch></CuspSwitch>
          <CuspSwitchDelay></CuspSwitchDelay>
          <UpPeerId></UpPeerId>
          <UpPeerName></UpPeerName>
        </UP>
      </UPs>
    </Profile>
  </Profiles>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Profiles

Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Profile ID	Index	Unsigned integer. Value range: 1 to 16384.	N/A
Mode	Profile mode	N/A	Enumeration: String, case-insensitive. • hot-standby • warm-standby • load-balance	N/A
IfBackupMode	Interface backup mode	N/A	Enumeration: String, case-insensitive. • inherit-main(default) • no-inherit	N/A
LoadBalanceMode	Load balancing mode	N/A	Enumeration: String, case-insensitive. • device • slot • interface	N/A
WarmStandbyIf	Backup interface in warm-standby mode	N/A	String. Length: 2 to 47 characters.	N/A
Interfaces	Interface configuration	Sublist	N/A	For more information, see the Interfaces table.
BackupRouteAdvertise	Route advertisement configuration	Subtable	N/A	For more information, see the BackupRouteAdvertise table.

NasLogicPort	NAS logical interface name	N/A	String. Length: 2 to 47 characters.	N/A
FailureRecoverySwitch	Interface state switchover upon failure recovery	N/A	Boolean: • true(default) • false	N/A
FailureRecoverySwitchDelay	Switchover delay time	N/A	Unsigned integer. Value range:1 to 1800 seconds	N/A
UPs	UP peer Track and CUSP configuration	Sublist	N/A	For more information, see the UPs table.

UpBackup/Profiles/Interfaces

This table contains interface information about a UP backup profile.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Master	Master interface name	N/A	String. Length: 2 to 47 characters.	N/A
Standby	Backup interface	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 2 to 47 characters.	
VRID	Virtual router ID	N/A	Unsigned integer. Value range:1 to 255.	N/A
ResourceID	Resource ID	N/A	Unsigned integer. Value range:1 to 65535.	N/A

UpBackup/Profiles/BackupRouteAdvertises

This table contains route advertisement information about a UP backup profile.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup
Table name	BackupRouteAdvertise
Table type	Multi-instance table
Row name	BackupRouteAdvertise
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable backup route advertisement	N/A	Boolean: • true • false	N/A
MasterCost	Route cost for the master interface	N/A	Unsigned integer. Value range: 0 to 4261412863	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupCost	Route cost for the backup interface	N/A	Unsigned integer. Value range: 1 to 4261412864	N/A

UpBackup/Profiles/UPs

This table contains Control-Tunnel and peer UP Track association information.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup
Table name	UPs
Table type	Multi-instance table
Row name	UP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID	Index	Unsigned integer.	N/A
UpLinkName	The name of UP link group	N/A	String. Length: 1 to 31 characters.	N/A
CuspSwitch	Interface state switchover upon CUSP connection failure	N/A	Boolean: • true(default) • false	N/A
CuspSwitchD	Switchover delay time	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
elay			Value range: 1 to 1800 seconds.	
UpPeerId	UP peer ID	Index	Unsigned integer.	N/A
UpPeerName	The name of UP peer	N/A	String. Length: 1 to 31 characters.	N/A

UpBackup/Switchover

This table contains Control-Tunnel and Track association information.

XML structure

```
<UpBackup>
  <Switchover>
    <ControlDownSwitchTrackID></ControlDownSwitchTrackID>
  </Switchover>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Switchover
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlDownSwitchTrackID	ID of the track entry used to determine whether or not to perform interface state switchover upon CUSP connection failure	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

UpBackup/TrackSwitchs

This table contains UP device and Track association information.

XML structure

```
<UpBackup>
  <TrackSwitchs>
    <TrackSwitch>
      <TrackEntryID></TrackEntryID>
      <TrackEntryName></TrackEntryName>
    </TrackSwitch>
  </TrackSwitchs>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	TrackSwitchs
Table type	Multi-instance table
Row name	TrackSwitch

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackEntryName	The Group Name of Track entry ID	N/A	String. Length: 1 to 31 characters.	N/A

UpBackup/TrackUpPeers

This table contains UP device and peer UP Track association information.

XML structure

```
<UpBackup>
  <TrackUpPeers>
    <TrackUpPeer>
      <TrackEntryID></TrackEntryID>
      <UpPeerName></UpPeerName>
    </TrackUpPeer>
  </TrackUpPeers>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	TrackUpPeers
Table type	Multi-instance table
Row name	TrackUpPeer
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
UpPeerName	Name of peer UP	N/A	String. Length: 1 to 31 characters.	N/A

Contents

UpBackup 1

UpBackup/Service 1
XML structure 1
Table description 1
Columns 1
UpBackup/Profiles 1
XML structure 2
Table description 3
Columns 3
UpBackup/Profiles/Interfaces 4
XML structure 4
Table description 4
Columns 5
UpBackup/Profiles/BackupRouteAdvertises 5
XML structure 5
Table description 6
Columns 6
UpBackup/Profiles/UPs 6
XML structure 6
Table description 7
Columns 7
UpBackup/Switchover 7
XML structure 8
Table description 8
Columns 8
UpBackup/TrackSwitchs 8
XML structure 9
Table description 9
Columns 9
UpBackup/TrackUpPeers 9
XML structure 10
Table description 10
Columns 10

UpBackup

UpBackup/Service

This table contains UP backup log information.

XML structure

```
<UpBackup>
  <Service>
    <Log></Log>
  </Service>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Service
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Log	Whether or not to enable logging	N/A	Boolean: • true • false	N/A

UpBackup/Profiles

This table contains UP backup profile information.

XML structure

```
<UpBackup>
  <Profiles>
    <Profile>
      <Id></Id>
      <Mode></Mode>
      <IfBackupMode></IfBackupMode>
      <LoadBalanceMode></LoadBalanceMode>
      <WarmStandbyIf></WarmStandbyIf>
      <WarmStandbyIfState></WarmStandbyIfState>
      <Interfaces>
        <Interface>
          <Master></Master>
          <MasterState></MasterState>
          <Standby></Standby>
          <StandbyState></StandbyState>
          <VRID></VRID>
          <ResourceID></ResourceID>
        </Interface>
      </Interfaces>
      <BackupRouteAdvertise>
        <Enable></Enable>
        <MasterCost></MasterCost>
        <BackupCost></BackupCost>
      </BackupRouteAdvertise>
      <NasLogicPort></NasLogicPort>
      <FailureRecoverySwitch></FailureRecoverySwitch>
      <FailureRecoverySwitchDelay></FailureRecoverySwitchDelay>
      <UPs>
        <UP>
          <UpId></UpId>
          <UpLinkName></UpLinkName>
          <CuspSwitch></CuspSwitch>
          <CuspSwitchDelay></CuspSwitchDelay>
          <UpPeerId></UpPeerId>
          <UpPeerName></UpPeerName>
        </UP>
      </UPs>
    </Profile>
  </Profiles>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Profile ID	Index	Unsigned integer. Value range: 1 to 16384.	N/A
Mode	Profile mode	N/A	Enumeration: String, case-insensitive. Values include: • hot-standby • warm-standby • load-balance	N/A
IfBackupMode	Interface backup mode	N/A	Enumeration: String, case-insensitive. • inherit-main • no-inherit	N/A
LoadBalanceMode	Load balancing mode	N/A	Enumeration: String, case-insensitive. • device • slot • interface	N/A
WarmStandbyIf	Backup interface in warm-standby mode	N/A	String. Length: 2 to 47 characters.	N/A

WarmStandbyIfState	Backup interface state	N/A	Enumeration: • 0—master • 1—backup • 2—failed	N/A
Interfaces	Interface configuration	Sublist	N/A	For more information, see the Interfaces table.
BackupRouteAdvertise	Route advertisement configuration	Subtable	N/A	For more information, see the BackupRouteAdvertise table.
NasLogicPort	NAS logical interface name	N/A	String. Length: 2 to 47 characters.	N/A
FailureRecoverySwitch	Interface state switchover upon failure recovery	N/A	Boolean: • true • false	N/A
FailureRecoverySwitchDelay	Switchover delay time	N/A	Unsigned integer. Value range:1 to 1800 seconds	N/A
UPs	UP peer Track and CUSP configuration	Sublist	N/A	For more information, see the UPs table.

UpBackup/Profiles/Interfaces

This table contains interface information about a UP backup profile.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup

Item	Description
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Master	Master interface name	N/A	String. Length: 2 to 47 characters.	N/A
MasterState	Master interface state	N/A	Enumeration: • 0—master • 1—backup	N/A
Standby	Backup interface name	N/A	String. Length: 2 to 47 characters.	N/A
StandbyState	Backup interface state	N/A	Enumeration: • 0—master • 1—backup	N/A
VRID	Virtual router ID	N/A	Unsigned integer. Value range: 1 to 255.	N/A
ResourceID	Resource ID	N/A	Unsigned integer. Value range:1 to 65535.	N/A

UpBackup/Profiles/BackupRouteAdvertises

This table contains route advertisement information about a UP backup profile.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup
Table name	BackupRouteAdvertise
Table type	Multi-instance table
Row name	BackupRouteAdvertise
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable backup route advertisement	N/A	Boolean: • True • false	N/A
MasterCost	Route cost for the master interface	N/A	Unsigned integer. Value range: 0 to 4261412863	N/A
BackupCost	Route cost for the backup interface	N/A	Unsigned integer. Value range: 1 to 4261412864	N/A

UpBackup/Profiles/UPs

This table contains Control-Tunnel and peer UP Track association information.

XML structure

Please refer to the XML structure of UpBackup/Profiles.

Table description

Item	Description
Feature name	UpBackup
Table name	UPs
Table type	Multi-instance table
Row name	UP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpId	UP ID	Index	Unsigned integer.	N/A
UpLinkName	The name of UP link group	N/A	String. Length: 1 to 31 characters.	N/A
CuspSwitch	Interface state switchover upon CUSP connection failure	N/A	Boolean: • true • false	N/A
CuspSwitchDelay	Switchover delay time	N/A	Unsigned integer. Value range: 1 to 1800 seconds.	N/A
UpPeerId	UP peer ID	Index	Unsigned integer.	N/A
UpPeerName	The name of UP peer	N/A	String. Length: 1 to 31 characters.	N/A

UpBackup/Switchover

This table contains Control-Tunnel and Track association information.

XML structure

```
<UpBackup>
  <Switchover>
    <ControlDownSwitchTrackID></ControlDownSwitchTrackID>
  </Switchover>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	Switchover
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlDownSwitchTrackID	ID of the track entry used to determine whether or not to perform interface state switchover upon CUSP connection failure	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

UpBackup/TrackSwitchs

This table contains UP device and Track association information.

XML structure

```
<UpBackup>
  <TrackSwitchs>
    <TrackSwitch>
      <TrackEntryID></TrackEntryID>
      <TrackEntryName></TrackEntryName>
    </TrackSwitch>
  </TrackSwitchs>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	TrackSwitchs
Table type	Multi-instance table
Row name	TrackSwitch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackEntryName	The Group Name of Track entry ID	N/A	String. Length: 1 to 31 characters.	N/A

UpBackup/TrackUpPeers

This table contains UP device and peer UP Track association information.

XML structure

```
<UpBackup>
  <TrackUpPeers>
    <TrackUpPeer>
      <TrackEntryID></TrackEntryID>
      <UpPeerName></UpPeerName>
    </TrackUpPeer>
  </TrackUpPeers>
</UpBackup>
```

Table description

Item	Description
Feature name	UpBackup
Table name	TrackUpPeers
Table type	Multi-instance table
Row name	TrackUpPeer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackEntryID	Track entry ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
UpPeerName	Name of peer UP	N/A	String. Length: 1 to 31 characters.	N/A

Contents

UpBackup 1
UpBackup/Service 1
UpBackup/Profiles 1
UpBackup/Profiles/Interfaces 2
UpBackup/Profiles/BackupRouteAdvertises 4
UpBackup/Profiles/UPs 4
UpBackup/TrackSwitchs 5
UpBackup/TrackUpPeers 5

UpBackup

UpBackup/Service

Message	Explanation
Service failed to start. UpBackup进程未启动失败。	Invalid configuration, please modify configuration under the guidance.
Incorrect length of received data. 接受数据长度不正确。	Invalid configuration, please modify configuration under the guidance.

UpBackup/Profiles

Message	Explanation
When creating a profile, you must specify the backup mode. 创建Profile时没有携带Mode参数（Mode为创建Profile必须配置参数）。	Invalid configuration, please modify configuration under the guidance.
Modifying backup mode is not allowed. 不允许修改UP备份Profile的备份模式。	Invalid configuration, please modify configuration under the guidance.
Cannot delete a UP backup profile that has online users.删除有上线用户的Profile。	Invalid configuration, please modify configuration under the guidance.
Failed to create the profile. 创建Profile失败。	Invalid configuration, please modify configuration under the guidance.
Cannot set ControlDownSwitchDelay column when ControlDownSwitch column is false.当ControlDownSwitch属性列值为false时不能设置ControlDownSwitchDelay属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set FailureRecoverySwitchDelay column when FailureRecoverySwitch column is false. 当FailureRecoverySwitch属性列值为false时不能设置FailureRecoverySwitchDelay属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set IfBackupMode column when the profile isn't hot standby mode. 非热备模式不能设置IfBackupMode属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set LoadBalanceMode column when the profile is hot standby mode. 热备模式不能设置LoadBalanceMode属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set WarmStandbyIf column when the profile isn't warm standby mode. 非温备模式下不能设置WarmStandbyIf属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set FailureRecoverySwitch and FailureRecoverySwitchDelay columns when the profile is load balancing mode.	Invalid configuration, please modify configuration under the guidance.

负载分担模式下不能设置FailureRecoverySwitch和FailureRecoverySwitchDelay属性列。	
Cannot set NasLogicPort column when the profile is load balancing mode. 负载分担模式下不能设置NasLogicPort属性列。	Invalid configuration, please modify configuration under the guidance.
Invalid NAS logical interface. 无效的NAS逻辑接口。	Invalid configuration, please modify configuration under the guidance.
Cannot set ControlDownSwitch and ControlDownSwitchDelay columns when the profile is load balancing mode. 负载分担模式下不能设置ControlDownSwitch和ControlDownSwitchDelay。	Invalid configuration, please modify configuration under the guidance.
The VRID cannot be changed. VRID不能改变。	Invalid configuration, please modify configuration under the guidance.

UpBackup/Profiles/Interfaces

Message	Explanation
Cannot create or delete an interface that has online users.删除有上线用户的备份关系。	Invalid configuration, please modify configuration under the guidance.
The specified remote interface is not ready.远程接口还未就绪。	Invalid configuration, please modify configuration under the guidance.
The master interface cannot be on the same UP device as the backup interface. 不能在同一个UP上配置备份关系。	Invalid configuration, please modify configuration under the guidance.
The backup interface cannot be modified. 不能修改备接口配置。	Invalid configuration, please modify configuration under the guidance.
The VRID must be unique for each master interface in a UP backup profile in warm-standby mode. 同一温备profile下，VRID不能相同。	Invalid configuration, please modify configuration under the guidance.
All master or backup interfaces in a profile must be on the same UP device. 所有主接口或备接口必须在同一个UP上。	Invalid configuration, please modify configuration under the guidance.
Please configure the backup interface first. 温备模式必须先配置备接口。	Invalid configuration, please modify configuration under the guidance.
Backup interface configuration is not supported in a UP backup profile with load-balance mode. 负载分担模式不支持配置备接口。	Invalid configuration, please modify configuration under the guidance.
Cannot configure VRID in a UP backup profile with load-balance mode. 负载分担模式不支持配置VRID。	Invalid configuration, please modify configuration under the guidance.
Cannot delete the backup interface because the master interface has already been configured. 温备模式下配置主接口后不能删除备接口。	Invalid configuration, please modify configuration under the guidance.
The master and backup interfaces must be both	Invalid configuration, please modify configuration under the

main interfaces or subinterfaces. 主备接口必须全是主接口或者子接口。	guidance.
Cannot specify subinterfaces in inherit-main interface backup mode. inherit-main接口模式下不能配置子接口。	Invalid configuration, please modify configuration under the guidance.
The VRID of interface pair and its subinterface pairs must be same. 主接口和子接口的VRID必须相同。	Invalid configuration, please modify configuration under the guidance.
The master and backup interfaces cannot be on the same UP device. 主备接口不能在同一个up上。	Invalid configuration, please modify configuration under the guidance.
The interface is in use。 接口已被使用。	Invalid configuration, please modify configuration under the guidance.
The master or backup subinterfaces must belong to the same main interface. 主接口之间的主备关系和其子接口之间的主备关系需保持一致。	Invalid configuration, please modify configuration under the guidance.
Cannot change interface backup mode when master and backup interfaces configuration exist. 当主备接口配置已存在时不能改变接口模式。	Invalid configuration, please modify configuration under the guidance.
Cannot delete the master interface that has been taken over by a backup interface. 不能删除被备接口接管工作的主接口。	Invalid configuration, please modify configuration under the guidance.
You must set the Standby column when the profile is hot standby mode. 热备模式必须设置Standby属性列。	Invalid configuration, please modify configuration under the guidance.
You must set the VRID column when the profile is hot or warm standby mode. 热备或者温备模式下必须设置VRID属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set the Standby column when the profile isn't hot standby mode. 非热备模式下不能设置Standby属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set the VRID column when the profile is load balancing mode. 负载分担模式下不能设置VRID属性列。	Invalid configuration, please modify configuration under the guidance.
All interfaces in a UP backup profile must be in the same UP backup group. 主备接口必须在同一个UP备份组中。	Invalid configuration, please modify configuration under the guidance.
The backup interface is not in a UP backup group. 备接口不再UP备份组中。	Invalid configuration, please modify configuration under the guidance.
The master interface is not in a UP backup group. 主接口不再UP备份组中	Invalid configuration, please modify configuration under the guidance.
Only main interfaces are supported. 只支持主接口。	Invalid configuration, please modify configuration under the guidance.
Cannot set the ResourceID column when the	Invalid configuration, please modify configuration under the

profile isn't hot standby mode. 非热备模式下不能设置ResourceID属性列。	guidance.
The resource ID cannot be changed. resource ID不能改变。	Invalid configuration, please modify configuration under the guidance.
The resource ID must be unique for each pair of master and backup interfaces. resource ID不能相同。	Invalid configuration, please modify configuration under the guidance.
The subinterface of the main interface has already been specified for another profile in no-inherit mode. 接口的子接口已经被配置在其他profile中。	Invalid configuration, please modify configuration under the guidance.
The main interface of the subinterface has already been specified for another profile in inherit-main mode. 子接口的主接口已经被配置在其他profile中。	Invalid configuration, please modify configuration under the guidance.

UpBackup/Profiles/BackupRouteAdvertises

Message	Explanation
Master's route cost must be lower than the backup's route cost. 主接口路由cost值必须低于备接口路由cost值。	Invalid configuration, please modify configuration under the guidance.
Cannot set the BackupRouteAdvertise column when the profile is load balancing mode. 负载分担模式下不能设置BackupRouteAdvertise属性列。	Invalid configuration, please modify configuration under the guidance.
Cannot set the MasterCost and BackupCost columns when the Enable column is false. 当Enable属性列值为false时，不能设置MasterCost和BackupCost属性列。	Invalid configuration, please modify configuration under the guidance.

UpBackup/Profiles/UPs

Message	Explanation
The specified UPs must belong to the same UP backup group. Up-id和监控的up-id，必须在同一个备份组下面，否则提示错误。	Invalid configuration, please modify configuration under the guidance.
Duplicate IDs for the UPs. 配置中两个up-id不能重复。	Invalid configuration, please modify configuration under the guidance.
The UP has not been added to any UP backup group. up-id未加入备份组。	Invalid configuration, please modify configuration under the guidance.
The peer UP or peer name has already been specified.	Invalid configuration, please modify configuration under the guidance.

对端UP或对端track名已被使用。	

UpBackup/TrackSwitchs

Message	Explanation
The number of track entries associated with the UP device has reached the upper limit. UP设备关联的TRACK项达到上限。	Invalid configuration, please modify configuration under the guidance.

UpBackup/TrackUpPeers

Message	Explanation
The number of track entries associated with the UP device has reached the upper limit. UP设备关联的TRACK项达到上限。	Invalid configuration, please modify configuration under the guidance.

Contents

Upmgr 1

Upmgr/UPs 1
XML structure 1
Table description 1
Columns 2
Upmgr/UPs/RemoteInterfaces 2
XML structure 2
Table description 2
Columns 3
Upmgr/UPs/CPProtocolTunnels 3
XML structure 3
Table description 3
Columns 3
Upmgr/UPs/UPProtocolTunnels 4
XML structure 4
Table description 4
Columns 4
Upmgr/BrasScale 5
XML structure 5
Table description 5
Columns 5
Upmgr/DelayTime 5
XML structure 5
Table description 6
Columns 6
Upmgr/UPCountThreshold 6
XML structure 6
Table description 6
Columns 7
Upmgr/UserCountThreshold 7
XML structure 7
Table description 7
Columns 8
Upmgr/UPBackupGroups 8
XML structure 8
Table description 8
Columns 9
Upmgr/UPBackupGroups/UPs 9
XML structure 9
Table description 9
Columns 10

Upmgr

Upmgr/UPs

This table contains and protocol tunnel information in CP and UP.

XML structure

```
<Upmgr>
  <UPs>
    <UP>
      <ID></ID>
      <Capacity></Capacity>
      <Description></Description>
      <SlotID></SlotID>
      <RemoteInterfaces>
         <RemoteInterface>
           <RemoteIfName></RemoteIfName>
         </RemoteInterface>
      </RemoteInterfaces>
      <CPProtocolTunnels>
        <CPProtocolTunnel>
          <VxlanID></VxlanID>
          <SourceIpAddress></SourceIpAddress>
          <DestIpAddress></DestIpAddress>
          <VpnName></VpnName>
        </CPProtocolTunnel>
      </CPProtocolTunnels>
      <UPProtocolTunnels>
        <UPProtocolTunnel>
          <VxlanID></VxlanID>
          <SourceIpAddress></SourceIpAddress>
          <DestIpAddress></DestIpAddress>
          <VpnName></VpnName>
        </UPProtocolTunnel>
      </UPProtocolTunnels>
    </UP>
  </UPs>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPs

Item	Description
Table type	Multi-instance table
Row name	UP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	UP ID.	Index	Unsigned integer. Value range: 1024 to 1279.	N/A
Capacity	UP capacity.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of UP.	N/A	String, Length: 1 to 255 characters. Not configured by default.	N/A
SlotID	UP slot ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RemoteInterfaces	Remote interface list of UP.	Sublist	N/A	See the table Upmgr/UPs/RemoteInterfaces
CPProtocolTunnels	Protocol tunnel list of CP.	Sublist	N/A	See the table Upmgr/UPs/CPProtocolTunnels
UPProtocolTunnels	Protocol tunnel list of UP.	Sublist	N/A	See the table Upmgr/UPs/UPProtocolTunnels

Upmgr/UPs/RemoteInterfaces

This table contains the remote interface list of a UP ID in a CP.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	RemoteInterfaces
Table type	Multi-instance table
Row name	RemoteInterface

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RemoteIfName	Remote interface name	Index	String, Length: 1 to 47 characters. Not configured by default.

Upmgr/UPs/CPProtocolTunnels

This table contains configuration of CUPS vBNG CP interfaces.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	CPProtocolTunnels
Table type	Multi-instance table
Row name	CPProtocolTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID of the VM's protocol tunnel.	Index	Unsigned integer. Value range: 1 to 16777215.	
SourceIpAddress	Source address of the VM's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::

DestIpAddress	Destination address of the VM's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
VpnName	Configured VPN name of the VM's protocol tunnel.	N/A	String, Length: 1 to 31 characters. Not configured by default.	

Upmgr/UPs/UPProtocolTunnels

This table contains configuration of CUPS vBNG UP interfaces.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPProtocolTunnels
Table type	Multi-instance table
Row name	UPProtocolTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID of the UP's protocol tunnel.	Index	Unsigned integer. Value range: 1 to 16777215.	
SourceIpAddres s	Source address of the UP's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
DestIpAddress	Destination address of the UP's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::

VpnName	Configured VPN name of the UP's protocol tunnel.	N/A	String, Length: 1 to 31 characters. Not configured by default.	

Upmgr/BrasScale

This table contains BRAS scaling information.

XML structure

```
<Upmgr>
  <BrasScale>
    <Enable></Enable>
  </BrasScale>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	BrasScale
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Automatic expansion and reduction of BRAS VM users.	N/A	Boolean: • true • false	N/A

Upmgr/DelayTime

This table contains BRAS scaling delay time information.

XML structure

```
<Upmgr>
  <DelayTime>
    <Interval></Interval>
```

```
  </DelayTime>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	DelayTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Delay time interval for automatic expansion and reduction of BRAS VM users.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UPCountThreshold

This table contains the UP count threshold information.

XML structure

```
<Upmgr>
  <UPCountThreshold>
    <HighThreshold></HighThreshold>
  </UPCountThreshold>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPCountThreshold
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThreshold	UP count upper threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UserCountThreshold

This table contains the user count threshold information.

XML structure

```
<Upmgr>
  <UserCountThreshold>
    <HighThreshold></HighThreshold>
    <LowThreshold></LowThreshold>
    <AlertThreshold></AlertThreshold>
  </UserCountThreshold>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UserCountThreshold
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThreshold	UP user count upper threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
LowThreshold	UP user count lower threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AlertThreshold	UP user count alert threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UPBackupGroups

This table contains UP backup group information.

XML structure

```
<Upmgr>
  <UPBackupGroups>
    <UPBackupGroup>
      <GroupName></GroupName>
      <VsrpPort></VsrpPort>
      <UPs>
        <UP>
          <ID></ID>
          <IpAddress></IpAddress>
        </UP>
      </UPs>
    </UPBackupGroup>
  </UPBackupGroups>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPBackupGroups
Table type	Multi-instance table

Item	Description
Row name	UPBackupGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	UP backup group name.	Index	String. Length: 1 to 32 characters.	N/A
VsrpPort	VSRP port of the UP backup group.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UPs	UP information.	Sublist	N/A	See the table Upmgr/UPBackupGroups/UPs

Upmgr/UPBackupGroups/UPs

This table contains UP information.

XML structure

```
<Upmgr>
  <UPBackupGroups>
    <UPBackupGroup>
      <UPs>
        <UP>
          <ID></ID>
          <IpAddress></IpAddress>
        </UP>
      </UPs>
    </UPBackupGroup>
  </UPBackupGroups>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPBackupGroups/UPs
Table type	Multi-instance table

Item	Description
Row name	UP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	UP ID.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IpAddress	Address of the UP.	N/A	String, dotted decimal notation.	N/A

Contents

Upmgr 1

Upmgr/UPs 1
XML structure 1
Table description 1
Columns 2
Upmgr/UPs/RemoteInterfaces 2
XML structure 2
Table description 2
Columns 3
Upmgr/UPs/CPProtocolTunnels 3
XML structure 3
Table description 3
Columns 3
Upmgr/UPs/UPProtocolTunnels 4
XML structure 4
Table description 4
Columns 4
Upmgr/BrasScale 5
XML structure 5
Table description 5
Columns 5
Upmgr/DelayTime 5
XML structure 6
Table description 6
Columns 6
Upmgr/UPCountThreshold 6
XML structure 6
Table description 7
Columns 7
Upmgr/UserCountThreshold 7
XML structure 7
Table description 7
Columns 8
Upmgr/UPBackupGroups 8
XML structure 8
Table description 9
Columns 9
Upmgr/UPBackupGroups/UPs 9
XML structure 9
Table description 10
Columns 10
Upmgr/UpAssociateInfos 10
XML structure 10
Table description 10
Columns 11

Upmgr

Upmgr/UPs

This table contains and protocol tunnel information in CP and UP.

XML structure

```
<Upmgr>
  <UPs>
    <UP>
      <ID></ID>
      <Capacity></Capacity>
      <Description></Description>
      <SlotID></SlotID>
      <RemoteInterfaces>
         <RemoteInterface>
           <RemoteIfName></RemoteIfName>
           <IfName></IfName>
         </RemoteInterface>
      </RemoteInterfaces>
      <CPProtocolTunnels>
        <CPProtocolTunnel>
          <VxlanID></VxlanID>
          <SourceIpAddress></SourceIpAddress>
          <DestIpAddress></DestIpAddress>
          <VpnName></VpnName>
          <State></State>
        </CPProtocolTunnel>
      </CPProtocolTunnels>
      <UPProtocolTunnels>
        <UPProtocolTunnel>
          <VxlanID></VxlanID>
          <SourceIpAddress></SourceIpAddress>
          <DestIpAddress></DestIpAddress>
          <VpnName></VpnName>
        </UPProtocolTunnel>
      </UPProtocolTunnels>   </UP>
  </UPs>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr

Item	Description
Table name	UPs
Table type	Multi-instance table
Row name	UP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	UP ID.	Index	Unsigned integer. Value range: 1024 to 1279.	N/A
Capacity	UP capacity.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of UP.	N/A	String, Length: 1 to 255 characters. Not configured by default	N/A
SlotID	UP slot ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPProtocolTunnels	Protocol tunnel list of CP.	Sublist	N/A	See the table Upmgr/UPs/CPProtocolTunnels
UPProtocolTunnels	Protocol tunnel list of UP.	Sublist	N/A	See the table Upmgr/UPs/UPProtocolTunnels
RemoteInterfaces	Remote interface list of UP.	Sublist	N/A	See the table Upmgr/UPs/RemoteInterfaces

Upmgr/UPs/RemoteInterfaces

This table contains the remote interface list of a UP ID in a CP.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	RemoteInterfaces
Table type	Multi-instance table
Row name	RemoteInterface

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RemoteIfName	Remote interface name.	Index	String, Length: 1 to 47 characters. Not configured by default.
IfName	Local interface name.	N/A	String, Length: 1 to 47 characters. Not configured by default.

Upmgr/UPs/CPProtocolTunnels

This table contains configuration of CUPS vBNG CP interfaces.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	CPProtocolTunnels
Table type	Multi-instance table
Row name	CPProtocolTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID of the VM's protocol tunnel.	Index	Unsigned integer. Value range: 1 to 16777215.	
SourceIpAddress	Source IP address of the VM's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::

DestIpAddress	Destination IP address of the VM's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
VpnName	Configured VPN name of the VM's protocol tunnel.	N/A	String, Length: 1 to 31 characters. Not configured by default.	
State	State of VM's protocol tunnel.	N/A	String, Length: 1 to 31 characters.	Example: Up,or Down

Upmgr/UPs/UPProtocolTunnels

This table contains configuration of CUPS vBNG UP interfaces.

XML structure

```
Please refer to the XML structure of Upmgr/UPs.
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPProtocolTunnels
Table type	Multi-instance table
Row name	UPProtocolTunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID of the UP's protocol tunnel.	Index	Unsigned integer. Value range: 1 to 16777215.	
SourceIpAddres s	Source address of the UP's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::

DestIpAddress	Destination address of the UP's protocol tunnel.	Index	String, dotted decimal notation if afType is ipv4unicast, or colon-separated hexadecimal string if afType is ipv6unicast.	Example: 17.0.0.0, or 123:1::
VpnName	Configured VPN name of the UP's protocol tunnel.	N/A	String, Length: 1 to 31 characters. Not configured by default.	

Upmgr/BrasScale

This table contains BRAS scaling information.

XML structure

```
<Upmgr>
  <BrasScale>
    <Enable></Enable>
  </BrasScale>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	BrasScale
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Automatic expansion and reduction of BRAS VM users.	N/A	Boolean: • true • false	N/A

Upmgr/DelayTime

This table contains BRAS scaling delay time information.

XML structure

```
<Upmgr>
  <DelayTime>
    <Interval></Interval>
  </DelayTime>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	DelayTime
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Delay time interval for automatic expansion and reduction of BRAS VM users.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UPCountThreshold

This table contains the UP count threshold information.

XML structure

```
<Upmgr>
  <UPCountThreshold>
    <HighThreshold></HighThreshold>
  </UPCountThreshold>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPCountThreshold
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThreshold	UP count upper threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UserCountThreshold

This table contains the user count threshold information.

XML structure

```
<Upmgr>
  <UserCountThreshold>
    <HighThreshold></HighThreshold>
    <LowThreshold></LowThreshold>
    <AlertThreshold></AlertThreshold>
  </UserCountThreshold>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UserCountThreshold
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThreshold	UP user count upper threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
LowThreshold	UP user count lower threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AlertThreshold	UP user count alert threshold for automatic expansion and reduction.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Upmgr/UPBackupGroups

This table contains UP backup group information.

XML structure

```
<Upmgr>
  <UPBackupGroups>
    <UPBackupGroup>
      <GroupName></GroupName>
      <VsrpPort></VsrpPort>
      <UPs>
        <UP>
          <ID></ID>
          <IpAddress></IpAddress>
        </UP>
      </UPs>
    </UPBackupGroup>
  </UPBackupGroups>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPBackupGroups
Table type	Multi-instance table
Row name	UPBackupGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	UP backup group name.	N/A	String. Length: 1 to 32 characters.	N/A
VsrpPort	VSRP port of the UP backup group.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UPs	UP information.	Sublist	N/A	See the table Upmgr/UPBackupGroups/UPs

Upmgr/UPBackupGroups/UPs

This table contains UP information.

XML structure

```
<Upmgr>
  <UPBackupGroups>
    <UPBackupGroup>
      <UPs>
        <UP>
          <ID></ID>
          <IpAddress></IpAddress>
        </UP>
      </UPs>
    </UPBackupGroup>
  </UPBackupGroups>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UPBackupGroups/UPs
Table type	Multi-instance table
Row name	UP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	UP ID.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IpAddress	Address of the UP.	N/A	String, dotted decimal notation.	N/A

Upmgr/UpAssociateInfos

This table contains information about associated UPs.

XML structure

```
<Upmgr>
  <UpAssociateInfos>
    <UpAssociateInfo>
      <SlotID></SlotID>
      <UpList></UpList>
    </UpAssociateInfos>
  </UpAssociateInfos>
</Upmgr>
```

Table description

Item	Description
Feature name	Upmgr
Table name	UpAssociateInfos
Table type	Multi-instance table
Row name	UpAssociateInfo
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Main slot number of a BRAS-VM.	Index	Unsigned integer. Value range: 0 to 65535.	Example: 97
UpList	Specify UP devices by their IDs.	N/A	String. Length: 0 to 511 characters.	Example: 2000, 2002, 2009

Contents

UFLT 1
UFLT/SignatureManualUpgrading 1
XML structure 1
Table description 1
Columns 1
UFLT/SignatureRollback 2
XML structure 2
Table description 2
Columns 2
UFLT/PolicyCopy 2
XML structure 2
Table description 3
Columns 3
UFLT/PolicyRename 3
XML structure 3
Table description 3
Columns 4
UFLT/CategoryRename 4
XML structure 4
Table description 4
Columns 5
UFLT/StatisticReset 5
XML structure 5
Table description 5
Columns 5
UFLT/SignatureAutoUpgradeNow 5
XML structure 6
Table description 6
Columns 6

UFLT

UFLT/SignatureManualUpgrading

This table is used to update signature manually.

XML structure

```
<UFLT>
  <SignatureManualUpgrading>
    <URL></URL>
    <Location></Location>
    <Sort></Sort>
  </SignatureManualUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file when the signature library update is completed.
Sort	Sort of the update signature	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/SignatureRollback

This table is used to rollback signature file.

XML structure

```
<UFLT>
  <SignatureRollback>
    <Rollback></Rollback>
    <Sort></Sort>
  </SignatureRollback>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback flag	N/A	Enumeration: • 0—Roll back to the original version • 1—Roll back to the last version	N/A
Sort	Sort of the rollback	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/PolicyCopy

This table is used to copy a policy to create a new policy

XML structure

```
<UFLT>
  <PolicyCopy>
    <Policy>
```

```
      <SrcPolicy></SrcPolicy>
      <DstPolicy></DstPolicy>
    </Policy>
  </PolicyCopy>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyCopy
Table type	Single-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPolicy	Source policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstPolicy	Destination policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

UFLT/PolicyRename

This table is used to rename a policy.

XML structure

```
<UFLT>
  <PolicyRename>
    <Policy>
      <PolicyOldName></PolicyOldName>
      <PolicyNewName></PolicyNewName>
    </Policy>
  </PolicyRename>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT

Table name	PolicyRename
Table type	Single-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyOldName	Old name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PolicyNewName	New name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

UFLT/CategoryRename

This table is used to rename a category.

XML structure

```
<UFLT>
  <CategoryRename>
    <Category>
      <CategoryOldName></CategoryOldName>
      <CategoryNewName></CategoryNewName>
    </Category>
  </CategoryRename>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CategoryRename
Table type	Single-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryOldName	Old name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CategoryNewName	New name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

UFLT/StatisticReset

This table is used to reset URL filter statistics

XML structure

```
<UFLT>
  <StatisticReset>
    <Reset/>
  </StatisticReset>
</UFLT>
```

Table description

Item	Description
Feature name	URL
Table name	StatisticReset
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Reset statistics information	N/A	This column must be empty.	N/A

UFLT/SignatureAutoUpgradeNow

This table is used to update signature automatically now.

XML structure

```
<UFLT>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
    <Sort></Sort>
  </SignatureAutoUpgradeNow>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgradeNow	Immediate auto upgrade	N/A	This column must be empty.	N/A
Sort	Sort of the auto update	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

Contents

UFLT 1

UFLT/Policies 1
XML structure 1
Table description 1
Columns 1
UFLT/PolicyFilter 2
XML structure 2
Table description 3
Columns 3
UFLT/PolicyInProfile 3
XML structure 3
Table description 4
Columns 4
UFLT/Categories 4
XML structure 4
Table description 5
Columns 5
UFLT/RuleInCategory 5
XML structure 5
Table description 6
Columns 6
UFLT/BlackWhiteList 6
XML structure 7
Table description 7
Columns 7
UFLT/SignatureAutoUpgrading 8
XML structure 8
Table description 8
Columns 8
UFLT/CacheConfig 9
XML structure 9
Table description 9
Columns 10
UFLT/ActionInstance 10
XML structure 10
Table description 10
Columns 10
UFLT/CloudQueryConfig 11
XML structure 11
Table description 11
Columns 11
UFLT/Status 11
XML structure 11
Table description 12
Columns 12
UFLT/AttackCategory 12
XML structure 12
Table description 13
Columns 13

UFLT

UFLT/Policies

This table contains URL filter policy information

XML structure

```
<UFLT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <DefaultAction></DefaultAction>
      <DefaultActInstance></DefaultActInstance>
      <DefaultActLoggingEnable></DefaultActLoggingEnable>
      <DefaultActLogging></DefaultActLogging>
      <CloudQuery></CloudQuery>
      <HttpsFilter></HttpsFilter>
      <RefererWhitelist></RefererWhitelist>
      <WhitelistOnly></WhitelistOnly>
    </Policy>
  </Policies>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String: case-insensitive Length: 1 to 31 characters	N/A
DefaultAction	Default action	N/A	Enumeration: • **0**—Permit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Drop • **2**—Reset • **3**—Redirect • **4**—Block	
DefaultActInstance	Default action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
DefaultActLoggingEnable	Default action logging switch	N/A	Enumeration: • **0**—Disable • **1**—Enable	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
CloudQuery	CloudQuering	N/A	Enumeration: • **1**—Enable • **2**—Disable	N/A
HttpsFilter	Enabling status of HTTPS filter	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 0
RefererWhitelist	Enabling status of RefererWhite	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 1
WhitelistOnly	Enabling status of WhiteOnly	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 0

UFLT/PolicyFilter

This table contains information about URL filter category in a policy

XML structure

```
<UFLT>
  <PolicyFilter>
    <Filter>
      <PolicyName></PolicyName>
      <CategoryName></CategoryName>
      <Action></Action>
      <Instance></Instance>
      <LoggingEnable></LoggingEnable>
      <Logging></Logging>
    </Filter>
  </PolicyFilter>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyFilter
Table type	Multi-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Action type	N/A	Enumeration: • **0**—Permit • **1**—Drop • **2**—Reset • **3**—Redirect • **4**—Block	N/A
Instance	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
LoggingEnable	Whether logging is enabled or disabled	N/A	Enumeration: • **0**—Disable • **1**—Enable	N/A
Logging	Logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/PolicyInProfile

This table contains information about a URL filter policy used by an APP profile.

XML structure

```
<UFLT>
  <PolicyInProfile>
    <Policy>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
```

```
    </Policy>
  </PolicyInProfile>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyInProfile
Table type	Single-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 63 characters	N/A
PolicyName	Name of the URL filter policy	N/A	String, case-insensitive Length: 1 to 31 characters	N/A

UFLT/Categories

This table contains information about the URL filter category.

XML structure

```
<UFLT>
  <Categories>
    <Category>
      <CategoryName></CategoryName>
      <Critical></Critical>
      <CategoryType></CategoryType>
      <Description></Description>
      <PreCategoryReferred></PreCategoryReferred>
      <PreCategoryID></PreCategoryID>
    </Category>
  </Categories>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Categories
Table type	Multi-instance table
Row name	Category
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Critical	Critical	N/A	UnsignedShort	N/A
CategoryType	Category type	N/A	Enumeration: • **0**—Pre-define • **1**—User-define	N/A
Description	Description	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PreCategoryReferred	Referenced previous defined category	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
PreCategoryID	Previous defined category ID	N/A	UnsignedShort	N/A

UFLT/RuleInCategory

This table contains information about the URL filter rule in a category.

XML structure

```
<UFLT>
  <RuleInCategory>
    <Rule>
      <CategoryName></CategoryName>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIString></URIString>
```

```
    </Rule>
  </RuleInCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	RuleInCategory
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
RuleID	RuleID	Index	Unsigned Integer Value range: 1 to 65535	N/A
HostType	Host type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
HostName	Host name	N/A	If host type is text: • String, case-insensitive • Length: 3 to 224 characters If host type is regex: • OctectString • Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
URIString	URI string	N/A	If URI type is text: • String, case-insensitive • Length: 3 to 255 characters If URI type is regex: • OctectString • Length: 3 to 253 characters	N/A

UFLT/BlackWhiteList

This table contains information about blacklist and whitelist.

XML structure

```
<UFLT>
  <BlackWhiteList>
    <PolicyRule>
      <PolicyName></PolicyName>
      <BlackOrWhite></BlackOrWhite>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIString></URIString>
    </PolicyRule>
  </BlackWhiteList>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	BlackWhiteList
Table type	Multi-instance table
Row name	PolicyRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive Length: 1 to 31 characters	Case insensitive
BlackOrWhite	Blacklist or whitelist	Index	Enumeration: • **1**—Whitelist • **2**—Blacklist	N/A
RuleID	Rule ID	Index	Unsigned Integer: 1-65535	N/A
HostType	Host type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
HostName	Host name	N/A	If host type is text: • String, case-insensitive • Length: 3 to 224 characters If URI type is regex: • OctectString	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• Length: 3 to 224 characters	
URIType	URI type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
URI String	URI string	N/A	If URI type is text: • String, case-insensitive • Length: 3 to 245 characters If URI type is regex: • OctectString • Length: 3 to 245 characters	N/A

UFLT/SignatureAutoUpgrading

This table contains information about auto upgrading of URL filter signatures.

XML structure

```
<UFLT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
    <Sort></Sort>
  </SignatureAutoUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true	Default is false

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false	
StartTime	Time when the system performs auto upgrading	N/A	Time. Format: HH:MM:SS	Default: 02:00:00.
Type	Type of the system auto upgrading	N/A	Enumeration: • **0**—Week • **1**—Periodic	Default is 1.
Day	Days	N/A	Unsigned integer Value range: 0 to 6	When Type is **0**, the value range is 0 to 6. Otherwise, the value is invalid.
Sort	Sort of the system auto upgrading	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/CacheConfig

This table contains information about the cache configuration.

XML structure

```
<UFLT>
  <CacheConfig>
    <DomainName></DomainName>
  </CacheConfig>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CacheConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case-insensitive Length: 1 to 255 characters	N/A

UFLT/ActionInstance

This table contains action instance information.

XML structure

```
<UFLT>
  <ActionInstance>
    <InstanceConfig>
      <ActionType></ActionType>
      <InstanceName></InstanceName>
    </InstanceConfig>
  </ActionInstance>
</UFLT >
```

Table description

Item	Description
Feature name	UFLT
Table name	ActionInstance
Table type	Multi -instance table
Row name	InstanceConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionType	Action	Index	Enumeration: • **1**—Logging • **2**—Redirect • **3**—Block	N/A
InstanceName	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/CloudQueryConfig

This table contains cloud query configure information.

XML structure

```
<UFLT>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryConfig
Table type	Single -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Cache size	N/A	Unsigned Integer. Value range: 8192 to 65535.	Default is 16384.
CacheTime	Aging time of cache entries	N/A	Unsigned Integer. Value range: 10 to 720 minutes.	Default is 10 minutes.

UFLT/Status

This table contains URL reputation status information.

XML structure

```
<UFLT>
  <Status>
    <ServiceEnable></ServiceEnable>
    <StatisticsEnable></StatisticsEnable>
```

```
  </Status>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Status
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceEnable	Enabling status of the URL reputation feature	Index	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StatisticsEnable	Enabling status of the statistic collection feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

UFLT/AttackCategory

This table contains attack category information.

XML structure

```
<UFLT>
  <AttackCategory>
    <AttackConfig>
      <PolicyName></PolicyName>
      <AttackID></AttackID>
      <AttackName></AttackName>
      <Action></Action>
      <Logging></Logging>
      <Instance></Instance>
    </AttackConfig>
  </AttackCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	AttackCategory
Table type	Multi-instance table
Row name	AttackConfig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Instance	Action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

Contents

UFLT 1

UFLT/Policies 1
XML structure 1
Table description 1
Columns 1
UFLT/PolicyFilter 2
XML structure 2
Table description 3
Columns 3
UFLT/PolicyInProfile 3
XML structure 3
Table description 4
Columns 4
UFLT/Categories 4
XML structure 4
Table description 4
Columns 5
UFLT/RuleInCategory 5
XML structure 5
Table description 6
Columns 6
UFLT/Statistic 6
XML structure 6
Table description 7
Columns 7
UFLT/BlackWhiteList 8
XML structure 8
Table description 8
Columns 9
UFLT/CacheConfig 9
XML structure 9
Table description 9
Columns 10
UFLT/SignatureAutoUpgrading 10
XML structure 10
Table description 10
Columns 11
UFLT/UpdatePercentage 11
XML structure 11
Table description 11
Columns 12
UFLT/SignatureFileInfos 12
XML structure 12
Table description 12
Columns 13
UFLT/ActionInstance 13
XML structure 13
Table description 13
Columns 14
UFLT/CloudQueryConfig 14
XML structure 14
Table description 14
Columns 14
UFLT/CloudQueryState 15
XML structure 15
Table description 15
Columns 15

UFLT/ParentCategories 16
XML structure 16
Table description 16
Columns 16
UFLT/Status 16
XML structure 16
Table description 17
Columns 17
UFLT/AttackCategory 17
XML structure 17
Table description 18
Columns 18

UFLT

UFLT/Policies

This table contains URL filter policy information

XML structure

```
<UFLT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <DefaultAction></DefaultAction>
      <DefaultActInstance></DefaultActInstance>
      <DefaultActLoggingEnable></DefaultActLoggingEnable>
      <DefaultActLogging></DefaultActLogging>
      <CloudQuery></CloudQuery>
      <HttpsFilter></HttpsFilter>
      <RefererWhitelist></RefererWhitelist>
      <WhitelistOnly></WhitelistOnly>
    </Policy>
  </Policies>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String: case-insensitive Length: 1 to 31 characters	N/A
DefaultAction	Default action	N/A	Enumeration: • **0**—Permit • **1**—Drop	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Reset • **3**—Redirect • 4—Block	
DefaultActInstance	Default action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
DefaultActLoggingEnable	Default action logging switch	N/A	Enumeration: • **0**—Disable • **1**—Enable	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
CloudQuery	CloudQuering	N/A	Enumeration: • **1**—Enable • **2**—Disable	N/A
HttpsFilter	Enabling status of the HTTPS filter	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 0
RefererWhitelist	Enabling status of RefererWhite	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 1
WhitelistOnly	Enabling status of WhiteOnly	N/A	Enumeration: • **0**—Disable • **1**—Enable	Default is 0

UFLT/PolicyFilter

This table contains information about URL filter category in a policy

XML structure

```
<UFLT>
  <PolicyFilter>
    <Filter>
      <PolicyName></PolicyName>
      <CategoryName></CategoryName>
      <Action></Action>
      <Instance></Instance>
      <LoggingEnable></LoggingEnable>
      <Logging></Logging>
    </Filter>
  </PolicyFilter>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyFilter
Table type	Multi-instance table
Row name	Filter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Action type	N/A	Enumeration: • **0**—Permit • **1**—Drop • **2**—Reset • **3**—Redirect • **4**—Block	N/A
Instance	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
LoggingEnable	Whether logging is enabled or disabled	N/A	Enumeration: • **0**—Disable • **1**—Enable	N/A
Logging	Logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/PolicyInProfile

This table contains information about a URL filter policy used by an APP profile.

XML structure

```
<UFLT>
  <PolicyInProfile>
    <Policy>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Policy>
  </PolicyInProfile>
```

```
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyInProfile
Table type	Single-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 63 characters	N/A
PolicyName	Name of the URL filter policy	N/A	String, case-insensitive Length: 1 to 31 characters	N/A

UFLT/Categories

This table contains information about the URL filter category.

XML structure

```
<UFLT>
  <Categories>
    <Category>
      <CategoryName></CategoryName>
      <Critical></Critical>
      <CategoryType></CategoryType>
      <Description></Description>
      <PreCategoryReferred></PreCategoryReferred>
      <PreCategoryID></PreCategoryID>
    </Category>
  </Categories>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT

Table name	Categories
Table type	Multi-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Critical	Critical	N/A	UnsignedShort	N/A
CategoryType	Category type	N/A	Enumeration: • **0**—Pre-define • **1**—User-define	N/A
Description	Description	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PreCategoryReferred	Referenced previous defined category	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
PreCategoryID	Previous defined category ID	N/A	UnsignedShort	N/A

UFLT/RuleInCategory

This table contains information about the URL filter rule in a category.

XML structure

```
<UFLT>
  <RuleInCategory>
    <Rule>
      <CategoryName></CategoryName>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIString></URIString>
    </Rule>
  </RuleInCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	RuleInCategory
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
RuleID	RuleID	Index	Unsigned Integer Value range: 1 to 65535	N/A
HostType	Host type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
HostName	Host name	N/A	If host type is text: • String, case-insensitive • Length: 3 to 224 characters If host type is regex: • OctectString • Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
URIString	URI string	N/A	If URI type is text: • String, case-insensitive • Length: 3 to 255 characters If URI type is regex: • OctectString • Length: 3 to 253 characters	N/A

UFLT/Statistic

This table contains the information about URL filter statistic.

XML structure

```
<UFLT>
  <Statistic>
```

```
    <TotalRequests></TotalRequests>
    <PermittedRequests></PermittedRequests>
    <DeniedRequests></DeniedRequests>
    <MatchedBlacklist></MatchedBlacklist>
    <MatchedWhitelist></MatchedWhitelist>
    <MatchedUDEFCategory></MatchedUDEFCategory>
    <MatchedPDEFCategory></MatchedPDEFCategory>
    <MatchedCacheAction></MatchedCacheAction>
    <MatchedDefaultAction></MatchedDefaultAction>
    <MatchedURLReputation></MatchedURLReputation>
    <PDEFURLNumbers></PDEFURLNumbers>
  </Statistic>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Statistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalRequests	Total HTTP Requests	N/A	Unisgned integer64	N/A
PermittedRequests	Total Permitted Requests	N/A	Unsigned integer64	N/A
DeniedRequests	Total Denied Requests	N/A	Unsigned integer64	N/A
MatchedBlacklist	Total Matched Blacklist	N/A	Unsigned integer64	N/A
MatchedWhitelist	Total Matched Whitelist	N/A	Unsigned integer64	N/A
MatchedUDEFCategory	Matched User-defined Category	N/A	Unsigned integer64	N/A
MatchedPDEFCategory	Matched Pre-defined Category	N/A	Unsigned integer64	N/A
MatchedPDEFCategory	Matched Pre-defined Category	N/A	Unsigned integer64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchedCacheAction	Matched Cache Action	N/A	Unsigned integer64	N/A
MatchedDefaultAction	Matched Default Action	N/A	Unsigned integer64	N/A
MatchedURLReputation	Matched URLReputation Category	N/A	Unsigned integer64	N/A
PDEFURLNumbers	Pre-defined URL Rule Numbers	N/A	Unsigned integer64	N/A

UFLT/BlackWhiteList

This table contains information about blacklist and whitelist.

XML structure

```
<UFLT>
  <BlackWhiteList>
    <PolicyRule>
      <PolicyName></PolicyName>
      <BlackOrWhite></BlackOrWhite>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIString></URIString>
    </PolicyRule>
  </BlackWhiteList>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	BlackWhiteList
Table type	Multi-instance table
Row name	PolicyRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive Length: 1 to 31 characters	Case insensitive
BlackOrWhite	Blacklist or whitelist	Index	Enumeration: • **1**—Whitelist • **2**—Blacklist	N/A
RuleID	Rule ID	Index	Unsigned Integer: 1-65535	N/A
HostType	Host type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
HostName	Host name	N/A	If host type is text: • String, case-insensitive • Length: 3 to 224 characters If URI type is regex: • OctectString • Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: • **1**—Text • **2**—Regex	N/A
URI String	URI string	N/A	If URI type is text: • String, case-insensitive • Length: 3 to 245 characters If URI type is regex: • OctectString • Length: 3 to 245 characters	N/A

UFLT/CacheConfig

This table contains information about the cache configuration.

XML structure

```
<UFLT>
  <CacheConfig>
    <DomainName></DomainName>
  </CacheConfig>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT

Table name	CacheConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case-insensitive Length: 1 to 255 characters	N/A

UFLT/SignatureAutoUpgrading

This table contains information about auto upgrading of URL filter signatures.

XML structure

```
<UFLT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
    <Sort></Sort>
  </SignatureAutoUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	Time when the system performs auto upgrading	N/A	Time. Format: HH:MM:SS	Default is 02:00:00.
Type	Type of the system auto upgrading	N/A	Enumeration: • **0**—Week • **1**—Periodic	Default is 1.
Day	Days	N/A	Unsigned integer Value range: 0 to 6	When Type is **0**, the value range is 0 to 6. Otherwise, the value is invalid.
Sort	Sort of the system auto upgrading	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/UpdatePercentage

This table contains the information of the percent of upgrading.

XML structure

```
<UFLT>
  <UpdatePercentage>
    <Percentage></Percentage>
    <ErrorCode></ErrorCode>
    <Sort></Sort>
  </UpdatePercentage>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	UpdatePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	The percentage of updating	N/A	Unsigned integer Value range: 0~100	When the value range is 0 to 100,it means in upgrading, Otherwise, means error
ErrorCode	Error of update	N/A	Enumeration: • **0**—Success • **1**—License check error • **2**—SigFile check error • **3**—Server connect error	N/A
Sort	Sort of the update percentage	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<UFLT>
  <SignatureFileInfos>
    <FileInfo>
      <Version></Version>
      <FileName></FileName>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
      <Sort></Sort>
    </FileInfo>
  </SignatureFileInfos>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	SignatureFileInfos
Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	Version	Index	Enumeration: • **1**—current • **2**—last • **3**—factory	N/A
FileName	File Name	N/A	String: case-insensitive Length: 1 to 255 characters	N/A
PublishedTime	Published Time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
Updates	Update information	N/A	String: case-insensitive Length: 1 to 255 characters	N/A
Sort	Sort of the signature file information	N/A	Enumeration: • **0**—UFLT • **1**—Url Reputation	N/A

UFLT/ActionInstance

This table contains URL filter action instance information.

XML structure

```
<UFLT>
  <ActionInstance>
    <InstanceConfig>
      <ActionType></ActionType>
      <InstanceName></InstanceName>
    </InstanceConfig>
  </ActionInstance>
</UFLT >
```

Table description

Item	Description
Feature name	UFLT
Table name	ActionInstance
Table type	Multi -instance table
Row name	InstanceConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionType	Action	Index	Enumeration: • **1**—Logging • **2**—Redirect • **3**—Block	N/A
InstanceName	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/CloudQueryConfig

This table contains cloud query configure information.

XML structure

```
<UFLT>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryConfig
Table type	Single -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
CacheSize	Cache size	N/A	Unsigned Integer Value range: 8192 to 65535.	Default is 16384.
CacheTime	Aging time of the cache	N/A	Unsigned Integer Value range: 10 to 720 minutes.	Default is 10 minutes.

Column name	Column description	Column type	Data type and restrictions	Remarks
	entreis			

UFLT/CloudQueryState

This table contains cloud query state information.

XML structure

```
<UFLT>
  <CloudQueryState>
    <HostName></HostName>
    <HostState></HostState>
    <HostStateErrCode></HostStateErrCode>
    <VersionState></VersionState>
  </CloudQueryState>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
HostState	State of the host	N/A	Enumeration: • **0**—Available. • **1**—Unavailable.	N/A
HostStateErrCode	Error code of cloud query result	N/A	Unsigned integer. Value range: 0 to 3.	N/A
VersionState	Comparison of between local and cloud versions	N/A	Boolean: • **0**—Ture. • **1**—False.	N/A

UFLT/ParentCategories

This table contains information about the URL filter parent category.

XML structure

```
<UFLT>
  <ParentCategories>
    <ParentCategory>
      <ParentCategoryName></ParentCategoryName>
      <PreCategoryIDs>
        <PreCategoryID></PreCategoryID>
      </PreCategoryIDs>
    </ParentCategory>
  </ParentCategories>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	ParentCategories
Table type	Multi instance table
Row name	ParentCategory
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParentCategoryName	Name of the parent category	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
PreCategoryIDs	PreCategoryID list	Data structure	Members include: • PreCategoryID.	N/A
PreCategoryID	PreCategoryID	N/A	UnsignedShort.	N/A

UFLT/Status

This table contains URL reputation status information.

XML structure

```
<UFLT>
  <Status>
```

```
    <ServiceEnable></ServiceEnable>
    <StatisticsEnable></StatisticsEnable>
  </Status>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Status
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceEnable	Enabling status of the URL reputation feature	Index	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
StatisticsEnable	Enabling status of the statistics collection function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

UFLT/AttackCategory

This table contains attack category information.

XML structure

```
<UFLT>
  <AttackCategory>
    <AttackConfig>
      <PolicyName></PolicyName>
      <AttackID></AttackID>
      <AttackName></AttackName>
      <Action></Action>
      <Logging></Logging>
      <Instance></Instance>
    </AttackConfig>
  </AttackCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	AttackCategory
Table type	Multi-instance table
Row name	AttackConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
AttackID	ID of the attack category	Index	Unassigned integer. Value range: 0 to 65535.	N/A
AttackName	Name of the attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the attack category	N/A	Enumeration: • **1**—Permit. • **2**—Deny.	N/A
Logging	Enabling status of the logging feature	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
Instance	Action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

Contents

URPF4 1
URPF4/ClearInterfaceStatistics 1
XML structure 1
Table description 1
Columns 1
URPF4/ClearZoneStatistics 2
XML structure 2
Table description 2
Columns 2

URPF4

URPF4/ClearInterfaceStatistics

This table is used to clear uRPF statistics on interfaces.

XML structure

```
<URPF4>
  <ClearInterfaceStatistics>
    <Statistics>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Clear></Clear>
    </Statistics>
  </ClearInterfaceStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ClearInterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer.	N/A
Clear	Clear interface statistics	N/A	Unsigned integer.	This column must be empty.

URPF4/ClearZoneStatistics

This table is used to clear uRPF statistics on security zones.

XML structure

```
<URPF4>
  <ClearZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <Clear></Clear>
    </Statistics>
  </ClearZoneStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ClearZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Clear	Clear security zone statistics	N/A	Unsigned integer.	This column must be empty.

Contents

URPF4 1
URPF4/URPFIpv4 1
XML structure 1
Table description 1
Columns 1
URPF4/URPFInterfaces 2
XML structure 2
Table description 2
Columns 2
URPF4/URPFZones 3
XML structure 3
Table description 3
Columns 3

URPF4

URPF4/URPFIpv4

This table is used to configure IPv4 global uRPF policies.

XML structure

```
<URPF4>
  <URPFIpv4>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
    <LinkCheck></LinkCheck>
  </URPFIpv4>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFIpv4
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict. • **1**—loose. • **2**—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**	

URPF4/URPFInterfaces

This table is used to configure IPv4 uRPF policies on interfaces.

XML structure

```
<URPF4>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFInterfaces>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict. • **1**—loose. • **2**—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true** • **false**	N/A

URPF4/URPFZones

This table is used to configure IPv4 uRPF policies on security zones.

XML structure

```
<URPF4>
  <URPFZones>
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFZones>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—loose. • **2**—none.	
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true** • **false**	N/A

Contents

URPF4 1
URPF4/URPFIpv4 1
XML structure 1
Table description 1
Columns 1
URPF4/URPFInterfaces 2
XML structure 2
Table description 2
Columns 2
URPF4/URPFZones 3
XML structure 3
Table description 3
Columns 3
URPF4/URPF4Specification 4
XML structure 4
Table description 4
Columns 4
URPF4/InterfaceStatistics 5
XML structure 5
Table description 5
Columns 6
URPF4/ZoneStatistics 6
XML structure 6
Table description 6
Columns 6

URPF4

URPF4/URPFIpv4

This table is used to configure IPv4 global uRPF policies.

XML structure

```
<URPF4>
  <URPFIpv4>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
    <LinkCheck></LinkCheck>
  </URPFIpv4>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFIpv4
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict. • **1**—loose. • **2**—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true** • **false**	N/A

URPF4/URPFInterfaces

This table is used to configure IPv4 uRPF policies on interfaces.

XML structure

```
<URPF4>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFInterfaces>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict. • **1**—loose. • **2**—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true** • **false**	N/A

URPF4/URPFZones

This table is used to configure IPv4 uRPF policies on security zones.

XML structure

```
<URPF4>
  <URPFZones>
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFZones>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF4	N/A	Enumeration: • **0**—strict. • **1**—loose. • **2**—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: • **true** • **false**	N/A

URPF4/URPF4Specification

This table contains information about support for the attributes on the device.

XML structure

```
<URPF4>
  <URPF4Specification>
    <SupportGlobal></SupportGlobal>
    <SupportInterface></SupportInterface>
    <SupportZone></SupportZone>
    <SupportLoose></SupportLoose>
    <SupportStrict></SupportStrict>
    <SupportAllowDefaultRoute></SupportAllowDefaultRoute>
    <SupportACL></SupportACL>
    <SupportLinkCheck></SupportLinkCheck>
  </URPF4Specification>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPF4Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportGlobal	Support for global configuration	N/A	Boolean: • **true** • **false**	N/A
SupportInterface	Support for configuration on interfaces	N/A	Boolean: • **true** • **false**	N/A
SupportZone	Support for configuration on the security zone	N/A	Boolean: • **true** • **false**	N/A
SupportLoose	Support for loose check	N/A	Boolean: • **true** • **false**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportStrict	Support for strict check	N/A	Boolean: • **true** • **false**	N/A
SupportAllowDefaultRoute	Support for default route check	N/A	Boolean: • **true** • **false**	N/A
SupportACL	Support for ACL check	N/A	Boolean: • **true** • **false**	N/A
SupportLinkCheck	Support for link layer check	N/A	Boolean: • **true** • **false**	N/A

URPF4/InterfaceStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on an interface.

XML structure

```
<URPF4>
  <InterfaceStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </InterfaceStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

URPF4/ZoneStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on a security zone.

XML structure

```
<URPF4>
  <ZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </ZoneStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

Contents

URPF4 2
URPF4/URPFIpv4 2
URPF4/URPFInterfaces 2
URPF4/URPFZones 3
URPF4/ZoneStatistics 4

URPF4

URPF4/URPFIpv4

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements. 需要首先开启uRPF功能。	During executing create、merge or replace operation, configuration items don't meet the requirements. 当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF4/URPFInterfaces

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。

Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements. 需要首先开启uRPF功能。	During executing create、merge or replace operation, configuration items don't meet the requirements. 当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF4/URPFZones

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements.	During executing create、merge or replace operation, configuration items don't meet the requirements.

需要首先开启uRPF功能。	当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF4/ZoneStatistics

Message	Explanation
The operation is not supported on Local zone. 该操作不支持Local域。	During executing get operation, The operation is must supported on Local zone. 当执行获取操作时，请确保设备local域支持该操作。

Contents

URPF6 1
URPF6/ClearInterfaceStatistics 1
XML structure 1
Table description 1
Columns 1
URPF6/ClearZoneStatistics 2
XML structure 2
Table description 2
Columns 2

URPF6

URPF6/ClearInterfaceStatistics

This table is used to clear uRPF statistics on interfaces.

XML structure

```
<URPF6>
  <ClearInterfaceStatistics>
    <Statistics>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Clear></Clear>
    </Statistics>
  </ClearInterfaceStatistics>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	ClearInterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Clear interface statistics	N/A	Unsigned integer.	This column must be empty.

URPF6/ClearZoneStatistics

This table is used to clear uRPF statistics on security zones.

XML structure

```
<URPF6>
  <ClearZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <Clear></Clear>
    </Statistics>
  </ClearZoneStatistics>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	ClearZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Clear	Clear security zone statistics	N/A	Unsigned integer.	This column must be empty.

Contents

URPF6 1
URPF6/URPFIpv6 1
XML structure 1
Table description 1
Columns 1
URPF6/URPFInterfaces 1
XML structure 2
Table description 2
Columns 2
URPF6/URPFZones 2
XML structure 3
Table description 3
Columns 3

URPF6

URPF6/URPFIpv6

This table is used to configure IPv6 global uRPF policies.

XML structure

```
<URPF6>
  <URPFIpv6>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
  </URPFIpv6>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFIpv6
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

URPF6/URPFInterfaces

This table is used to configure IPv6 uRPF policies on interfaces.

XML structure

```
<URPF6>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
    </Apply>
  </URPFInterfaces>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

URPF6/URPFZones

This table is used to configure IPv6 uRPF policies on security zones.

XML structure

```
<URPF6>
  <URPFZones>
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
    </Apply>
  </URPFZones>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Contents

URPF6 1
URPF6/URPFIpv6 1
XML structure 1
Table description 1
Columns 1
URPF6/URPFInterfaces 1
XML structure 2
Table description 2
Columns 2
URPF6/URPFZones 2
XML structure 2
Table description 3
Columns 3
URPF6/URPF6Specification 3
XML structure 3
Table description 4
Columns 4
URPF6/InterfaceStatistics 5
XML structure 5
Table description 5
Columns 5
URPF6/ZoneStatistics 5
XML structure 6
Table description 6
Columns 6

URPF6

URPF6/URPFIpv6

This table is used to configure IPv6 global uRPF policies.

XML structure

```
<URPF6>
  <URPFIpv6>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
  </URPFIpv6>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFIpv6
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

URPF6/URPFInterfaces

This table is used to configure IPv6 uRPF policies on interfaces.

XML structure

```
<URPF6>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
    </Apply>
  </URPFInterfaces>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

URPF6/URPFZones

This table is used to configure IPv6 uRPF policies on security zones.

XML structure

```
<URPF6>
  <URPFZones>
```

```
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
    </Apply>
  </URPFZones>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPFZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
URPFType	Check type of uRPF6	N/A	Enumeration: • **0**—strict. • **1**—loose.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: • **true** • **false**	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

URPF6/URPF6Specification

This table contains information about support for the attributes on the device.

XML structure

```
<URPF6>
  <URPF6Specification>
    <SupportGlobal></SupportGlobal>
    <SupportInterface></SupportInterface>
    <SupportZone></SupportZone>
    <SupportLoose></SupportLoose>
```

```
    <SupportStrict></SupportStrict>
    <SupportAllowDefaultRoute></SupportAllowDefaultRoute>
    <SupportACL></SupportACL>
  </URPF6Specification>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	URPF6Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportGlobal	Support for global configuration	N/A	Boolean: • **true** • **false**	N/A
SupportInterface	Support for configuration on interfaces	N/A	Boolean: • **true** • **false**	N/A
SupportZone	Support for configuration on the security zone	N/A	Boolean: • **true** • **false**	N/A
SupportLoose	Support for loose check	N/A	Boolean: • **true** • **false**	N/A
SupportStrict	Support for strict check	N/A	Boolean: • **true** • **false**	N/A
SupportAllowDefaultRoute	Support for default route check	N/A	Boolean: • **true** • **false**	N/A
SupportACL	Support for ACL check	N/A	Boolean: • **true** • **false**	N/A

URPF6/InterfaceStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on an interface.

XML structure

```
<URPF6>
  <InterfaceStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </InterfaceStatistics>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

URPF6/ZoneStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on a security zone.

XML structure

```
<URPF6>
  <ZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </ZoneStatistics>
</URPF6>
```

Table description

Item	Description
Feature name	URPF6
Table name	ZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

Contents

URPF6 2
URPF6/URPFIpv6 2
URPF6/URPFInterfaces 2
URPF6/URPFZones 3
URPF6/ZoneStatistics 4

URPF6

URPF6/URPFIpv6

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements. 需要首先开启uRPF功能。	During executing create、merge or replace operation, configuration items don't meet the requirements. 当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF6/URPFInterfaces

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。

Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements. 需要首先开启uRPF功能。	During executing create、merge or replace operation, configuration items don't meet the requirements. 当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF6/URPFZones

Message	Explanation
Failed to enable uRPF on chassis %u slot %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on chassis %u slot %u cpu %u. 在单板编号为%u、槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u. 在槽位号为%u的设备上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF on slot %u cpu %u. 在槽位号为%u的设备的CPU%u上使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Failed to enable uRPF. 使能uRPF功能失败。	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled. 当执行create、merge、release操作时，设置uRPF时操作失败。
Link layer check can't be configured for loose uRPF. 当uRPF类型为松散方式时，链路信息检测不能配置。	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF. 当执行create、merge、release操作时，uRPF类型为松散方式时，链路信息检测不能配置。
Configuration items don't meet the requirements.	During executing create、merge or replace operation, configuration items don't meet the requirements.

需要首先开启uRPF功能。	当执行create、merge、release操作时，需要首先开启uRPF功能。
The operation is not supported on this the device. 该设备不支持此操作。	During executing create、merge or replace operation, the operation is must supported on this the device 当执行create、merge、release操作时，请确保设备支持该操作。

URPF6/ZoneStatistics

Message	Explanation
The operation is not supported on Local zone. 该操作不支持Local域。	During executing get operation, The operation is must supported on Local zone. 当执行获取操作时，请确保设备local域支持该操作。

Contents

UserAccounts 1

UserAccounts/ImportGuestAccount 1
- XML structure 1
- Table description 1
- Columns 1

UserAccounts/ExportGuestAccount 2
- XML structure 2
- Table description 2
- Columns 3

UserAccounts/GenerateGuestAccount 3
- XML structure 3
- Table description 3
- Columns 4

UserAccounts/ApproveGuest 4
- XML structure 4
- Table description 5
- Columns 5

UserAccounts/ExportGuestTemplet 6
- XML structure 6
- Table description 6
- Columns 6

UserAccounts/ImportNetworkUser 6
- XML structure 6
- Table description 7
- Columns 7

UserAccounts/ExportNetworkUser 7
- XML structure 7
- Table description 8
- Columns 8

UserAccounts/ExportTemplet 8
- XML structure 8
- Table description 8
- Columns 9

UserAccounts/OldPasswordCheck 9
- XML structure 9
- Table description 9
- Columns 10

UserAccounts/ChangeMyPassword 10
- XML structure 10
- Table description 10
- Columns 11

UserAccounts/AutoPassword 11
- XML structure 11
- Table description 11
- Columns 12

UserAccounts

UserAccounts/ImportGuestAccount

Import guest user accounts.

XML structure

```
<UserAccounts>
  <ImportGuestAccount>
    <Url></Url>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportGuestAccount>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ImportGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	Name of the source .csv file to import guest account information	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export guest template.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidtyDateTime • EndValidtyDateTime	N/A
StartValidtyDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidtyDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AutoCreateGroup	Whether to create groups automatically	N/A	Boolean: • true • false	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: • true • false	Default: false
StartLine	Start line to import users	N/A	Unsigned integer. Value range: 1 to 1048576.	Default: 1

UserAccounts/ExportGuestAccount

Export guest accounts.

XML structure

```
<UserAccounts>
  <ExportGuestAccount>
    <Url></Url>
  </ExportGuestAccount>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	Name of the destination .csv file to export guest accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/GenerateGuestAccount

Create guest accounts in batches.

XML structure

```
<UserAccounts>
  <GenerateGuestAccount>
    <NamePrefix></NamePrefix>
    <PasswordPrefix></PasswordPrefix>
    <NumberSuffix></NumberSuffix>
    <Count></Count>
    <GroupName></GroupName>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
  </GenerateGuestAccount>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	GenerateGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NamePrefix	Prefix of the guest account name	Column	String. Length: 1 to 70 characters.	The account name cannot be **a**, **al**, or **all**, and cannot include a domain name or \ | / : * ? < > @, either.
PasswordPrefix	Password prefix	N/A	String. Length: 1 to 53 characters.	N/A
NumberSuffix	Numbering suffix	N/A	String. Length: 1 to 10 characters.	N/A
count	Number of generated guest accounts	N/A	Unsigned integer. Value range: 1 to 256.	N/A
GroupName	Name of the group the guest belongs to	N/A	String. Length: 1 to 32 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidtyDateTime • EndValidtyDateTime	N/A
StartValidtyDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidtyDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/ApproveGuest

Examine and approve guest accounts.

XML structure

```
<UserAccounts>
  <ApproveGuest>
    <Name></Name>
    <GroupName></GroupName>
    <SponsorFullName></SponsorFullName>
    <SponsorDepartment></SponsorDepartment>
    <SponsorEmail></SponsorEmail>
    <GuestDescription></GuestDescription>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
```

```
  </ApproveGuest>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ApproveGuest
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Guest account name	N/A	String. Length: 1 to 55 characters.	The account name cannot be **a**, **al**, or **all**, and cannot include a domain name or \ | / : * ? < > @, either.
GroupName	Name of the group the guest belongs to	N/A	Length: 1 to 32 characters.	N/A
SponsorFullName	Name of the receptionist	N/A	String. Length: 1 to 255 characters.	N/A
SponsorDepartment	Department of the receptionist	N/A	String. Length: 1 to 127 characters.	N/A
SponsorEmail	Email address of the receptionist	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
GuestDescription	Description of the guest	N/A	String. Length: 1 to 255 characters.	N/A
ValidityDateTime	Guest validity time period	Data structure	Members include: • StartValidtyDateTime Pad • EndValidtyDateTime	N/A
StartValidtyDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidtyDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/ExportGuestTemplet

Template for exporting guest accounts.

XML structure

```
<UserAccounts>
  <ExportGuestTemplet>
    <Url></Url>
  </ExportGuestTemplet>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportTemplet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	Name of the destination .csv file to export guest accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/ImportNetworkUser

Import network user accounts, excluding guest accounts.

XML structure

```
<UserAccounts>
  <ImportNetworkUser>
    <FileName></FileName>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportNetworkUser>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ImportNetworkUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to import user account information	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export guest template.
AutoCreateGroup	Whether to create groups automatically	N/A	Boolean: • true • false	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: • true • false	Default: false
StartLine	Start line to import users	N/A	Unsigned integer. Value range: 1 to 1048576.	Default: 1

UserAccounts/ExportNetworkUser

Export network user accounts, excluding guest accounts.

XML structure

```
<UserAccounts>
  <ExportNetworkUser>
    <FileName></FileName>
    <GroupName></GroupName>
    <UserName></UserName>
    <Description></Description>
  </ExportNetworkUser>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportNetworkUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export user accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.
GroupName	Name of the group the user belongs to	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	User account name	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be **a**, **al**, or **all**, and cannot include a domain name or \ | / : * ? < > @, either.
Description	Description of the local user	N/A	String. Length: 1 to 127 characters.	N/A

UserAccounts/ExportTemplet

Template for exporting network user accounts.

XML structure

```
<UserAccounts>
  <ExportTemplet>
    <FileName></FileName>
  </ExportTemplet>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts

Item	Description
Table name	ExportTemplet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export network user accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/OldPasswordCheck

Template for checking the old password of a user.

XML structure

```
<UserAccounts>
  <OldPasswordCheck>
    <UserName></UserName>
    <EncryptionType></EncryptionType>
    <Password></Password>
  </OldPasswordCheck>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	OldPasswordCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of *localusername@domain* or *localusername*. Length: 1 to 311 characters. • *localusername*—Local user name, case-sensitive string of 1 to 55 characters. • @—Domain name delimiter. • *domain*—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @
EncryptionType	Password encryption Type of the local user	N/A	Enumeration: • **0**—plaintext • **1**—private ciphertext	The default is 0.
Password	Old password	N/A	String, case-sensitive. Length: 1 to 63 characters.	

UserAccounts/ChangeMyPassword

This table changes the password of the current device management user and verifies the old password during the password change process.

XML structure

```
<UserAccounts>
  <ChangeMyPassword>
    <EncryptionType></EncryptionType>
    <OldPassword></OldPassword>
    <Password></Password>
  </ChangeMyPassword>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangeMyPassword
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EncryptionType	Password encryption Type of the local user	N/A	Enumeration: • **0**—plaintext • **1**—private ciphertext	The default is 0.
OldPassword	Old password	N/A	String, case-sensitive. Length: 1 to 63 characters.	If the user has an old password, the old password must be provided. If the user does not have an old password, do not include the OldPassword column or do not set a value for the OldPassword column.
Password	New password	N/A	String, case-sensitive. Length: 1 to 63 characters.	In non-FIPS mode, the password is a plaintext string of 1 to 63 characters. In FIPS mode, the password is a plaintext string of 15 to 63 characters. The string must contain digits, uppercase letters, lowercase letters, and special characters.

UserAccounts/AutoPassword

This table creates a random password for a network user and sends a mail to the user's mailbox.

XML structure

```
<UserAccounts>
  <AutoPassword>
    <UserName></UserName>
    <EmailAddress></EmailAddress>
  </AutoPassword>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	AutoPassword
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	N/A	String. Length: 1 to 311 characters. The username is in the format of *localusername@domain* or *localusername*. • *localusername*—Local user name, case-sensitive string of 1 to 55 characters. • @—Domain name delimiter. • *domain*—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @
EmailAddress	Email address of the user	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).

Contents

UserAccounts 1

UserAccounts/UserGroups 1
- XML structure 1
- Table description 2
- Columns 2

UserAccounts/Management/Accounts 4
- XML structure 4
- Table description 5
- Columns 5

UserAccounts/Management/UserRoles 7
- XML structure 7
- Table description 7
- Columns 8

UserAccounts/Network/Accounts 8
- XML structure 8
- Table description 9
- Columns 10

UserAccounts/Guest/Accounts 14
- XML structure 14
- Table description 14
- Columns 15

UserAccounts/GuestConfigure 16
- XML structure 16
- Table description 16
- Columns 17

UserAccounts/Identity/Users 17
- XML structure 18
- Table description 18
- Columns 18

UserAccounts/Network/IdentityGroups 19
- XML structure 19
- Table description 19
- Columns 19

UserAccounts/UserGroup/IdentityMembers 19
- XML structure 20
- Table description 20
- Columns 20

UserAccounts/UserGroup/IdentityGroups 20
- XML structure 20
- Table description 21
- Columns 21

UserAccounts/IdentityEnable 21
- XML structure 21
- Table description 22
- Columns 22

UserAccounts/ChangePasswords 22
- XML structure 22
- Table description 22
- Columns 23

UserAccounts/NetworkMailConfigure 23
- XML structure 23
- Table description 24
- Columns 24

UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AclNumber></AclNumber>
        <CallbackNumber></CallbackNumber>
        <FTPHomeDir></FTPHomeDir>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
        <SessTimeout></SessTimeout>
        <SubscriberID></SubscriberID>
        <SessGroupProfile></SessGroupProfile>
      </AuthorizationInfo>
      <UserIsolation>
         <InterGroup></InterGroup>
         <IntraGroup></IntraGroup>
      </UserIsolation>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
      <Description></Description>
    </Group>
  </UserGroups>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name	Index	String. Length: 1 to 32 characters.	The system has a predefined group named **system**.
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber • CallbackNumber • FTPHomeDir • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • IpPool • Ipv6Pool • SSLVPNPolicy • SessTimeout • SubscriberID • SessGroupProfile	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	By default, the user can access the root directory of the device, which varies by device model.
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryDNSServer	Primary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
SubscriberID	Subscriber ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
SessGroupProfile	Session group profile assigned to the local user	N/A	String. Length: 1 to 31 characters.	N/A
UserIsolation	User isolation policy	Data structure	Members include: • InterGroup • IntraGroup	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InterGroup	User isolation policy for the local users in the user group and the local users in other groups	N/A	Boolean: • **true**—Local users in the user group are isolated from local users in other groups. • **false**—Local users in the user group are not isolated from local users in other groups.	The default is false.
IntraGroup	User isolation policy for the local users in the user group	N/A	Boolean: • **true**—Local users in the user group are isolated from each other. • **false**—Local users in the user group are not isolated from each other.	The default is false.
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is valid only when the Ipv6PrefixLength column is configured at the same time.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	This column is valid only when the Ipv6Address column is configured at the same time.
Description	Description of the user group	N/A	String. Length: 1 to 127 characters.	N/A

UserAccounts/Management/Accounts

Management user information table.

XML structure

```
<UserAccounts>
  <Management>
    <Accounts>
      <Account>
        <Name></Name>
        <EncryptionType></EncryptionType>
        <Password></Password>
```

```
        <GroupName></GroupName>
        <FTP></FTP>
        <HTTP></HTTP>
        <HTTPS></HTTPS>
        <PAD></PAD>
        <SSH></SSH>
        <TELNET></TELNET>
        <Terminal></Terminal>
        <AccessLimit></AccessLimit>
        <FTPHomeDir></FTPHomeDir>
        <UserState></UserState>
      </Account>
    </Accounts>
  </Management>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @. Dayou OEM device can’t create default user “admin”.
EncryptionType	Password encryption Type of the local user	N/A	Enumeration: • **0**—plaintext • **1**—private ciphertext	The default is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	Password of the local user	N/A	String, case-sensitive. Length: 1 to 63 characters.	In non-FIPS mode, the password is a plaintext string of 1 to 63 characters. In FIPS mode, the password is a plaintext string of 15 to 63 characters. The string must contain digits, uppercase letters, lowercase letters, and special characters.
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is **system**.
FTP	Whether the FTP service is available for the local user	N/A	Boolean: • true • false	The default is false.
HTTP	Whether the HTTP service is available for the local user	N/A	Boolean: • true • false	The default is false.
HTTPS	Whether the HTTPS service is available for the local user	N/A	Boolean: • true • false	The default is false.
PAD	Whether the PAD service is available for the local user	N/A	Boolean: • true • false	The default is false.
SSH	Whether the SSH service is available for the local user	N/A	Boolean: • true • false	The default is false.
TELNET	Whether the telnet service is available for the local user	N/A	Boolean: • true • false	The default is false.
Terminal	Whether the Terminal service is available for the local user	N/A	Boolean: • true • false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	The directory must already exist. By default, the user can access the root directory of the device, which varies by device model.
UserState	User state	N/A	Enumeration: • **0**—Blocked. • **1**—Active.	The default is active.

UserAccounts/Management/UserRoles

Management user role information table.

XML structure

```
<UserAccounts>
  <Management>
    <UserRoles>
      <UserRole>
        <UserName></UserName>
        <RoleName></RoleName>
      </UserRole>
    </UserRoles>
  </Management>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserRoles
Table type	Multi-instance table
Row name	UserRole
Restrictions	UserName must be obtained from the UserAccounts/Management/Accounts table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
RoleName	User role name	Index	String. Length: 1 to 63 characters.	N/A

UserAccounts/Network/Accounts

Network user information table.

XML structure

```
<UserAccounts>
  <Network>
    <Accounts>
      <Account>
        <Name></Name>
        <Password></Password>
        <GroupName></GroupName>
        <ADVPN></ADVPN>
        <IKE></IKE>
        <IPoE></IPoE>
        <LanAccess></LanAccess>
        <Portal></Portal>
        <PPP></PPP>
        <SSLVPN></SSLVPN>
        <AccessLimit></AccessLimit>
        <AuthorizationInfo>
          <AclNumber></AclNumber>
          <CallbackNumber></CallbackNumber>
          <IdleTimeout></IdleTimeout>
          <PrimaryDNSServer></PrimaryDNSServer>
          <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
          <SecondaryDNSServer></SecondaryDNSServer>
          <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
          <URL></URL>
          <UserProfile></UserProfile>
          <VLANID></VLANID>
          <VRF></VRF>
          <Ipv4Address></Ipv4Address>
          <Ipv6Address></Ipv6Address>
```

```
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
        <SSLVPNPolicy></SSLVPNPolicy>
        <SubscriberID></SubscriberID>
        <WorkDirectory></WorkDirectory>
        <SessGroupProfile></SessGroupProfile>
        <WlanVlanID></WlanVlanID>
        <WlanVlanGroup></WlanVlanGroup>
        <UserGroup></UserGroup>
      </AuthorizationInfo>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
      <BindingInfo>
        <CallNumber></CallNumber>
        <Interface></Interface>
        <Ipv4Address></Ipv4Address>
        <MacAddress></MacAddress>
        <VLANID></VLANID>
      </BindingInfo>
      <ValidityDateTime>
        <StartValidityDateTime></StartValidityDateTime>
        <EndValidityDateTime></EndValidityDateTime>
      </ValidityDateTime>
      <SessTimeout></SessTimeout>
      <UserState></UserState>
      <Description></Description>
      <IdentityNumber></IdentityNumber>
    </Account>
  </Accounts>
</Network>
</UserAccounts>
```


Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
Password	Password of the local user	N/A	String, case-sensitive. Length: 1 to 63 characters.	The password is set in plaintext form.
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is **system**.
ADVPN	Whether the ADVPN service is available for the local user	N/A	Boolean: • true • false	The default is false.
IKE	Whether the IKE service is available for the local user	N/A	Boolean: • true • false	The default is false.
IPoE	Whether the IPoE service is available for the local user	N/A	Boolean: • true • false	The default is false.
LanAccess	Whether the LAN access service is available for the local user	N/A	Boolean: • true • false	The default is false.
Portal	Whether the portal service is available for the local user	N/A	Boolean: • true • false	The default is false.
PPP	Whether the PPP service is available for the local user	N/A	Boolean: • true • false	The default is false.
SSLVPN	Whether the SSLVPN service is available for the local user	N/A	Boolean: • true • false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber • CallbackNumber • IdleTimeout • PrimaryDNSServer • PrimaryDNSIpv6Server • SecondaryDNSServer • SecondaryDNSIpv6Server • URL • UserProfile • VLANID • VRF • Ipv4Address • Ipv6Address • IpPool • Ipv6Pool • SSLVPNPolicy • SubscriberID • WorkDirectory • SessGroupProfile • WlanVlanID • WlanVlanGroup • UserGroup	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information of the local user	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
Ipv6Address	IPv6 address of the local user	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1.
IpPool	Name of the IP address pool available for the local user	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available for the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SubscriberID	Subscriber ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
WorkDirectory	Work directory assigned to the local user	N/A	String. Length: 1 to 255 characters.	The default is flash:.
SessGroupProfile	Session group profile assigned to the local user	N/A	String. Length: 1 to 31 characters.	N/A
WlanVlanID	VLAN ID assigned to the local user in WLAN	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
WlanVlanGroup	Name of the VLAN group assigned to the local user in WLAN	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserGroup	User group assigned to the local user	N/A	String. Length: 1 to 32 characters	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is valid only when the Ipv6PrefixLength column is configured at the same time.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	This column is valid only when the Ipv6Address column is configured at the same time.
BindingInfo	Binding attributes of the local user	Data structure	Members include: • CallNumber • Interface • Ipv4Address • MacAddress • VLANID	N/A
CallNumber	Calling number of the local user	N/A	String. Length: 1 to 64 characters.	N/A
Interface	Interface of the local user	N/A	String. Length: 1 to 47 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
MacAddress	MAC address of the local user	N/A	String. Length: 17 characters.	For example, FF-FF-FF-FF-FF-FF.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
UserState	User state	N/A	Enumeration: • **0**—Blocked. • **1**—Active.	The default is active.
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidityDateTime • EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the local user	N/A	String. Length: 1 to 127 characters.	N/A
IdentityNumber	Identity number of the local user	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A

UserAccounts/Guest/Accounts

Table of network access guest information.

XML structure

```
<UserAccounts>
  <Guest>
    <Accounts>
      <Account>
        <WaitApproval></WaitApproval>
        <Name></Name>
        <Password></Password>
        <GroupName></GroupName>
        <FullName></FullName>
        <Phone></Phone>
        <Email></Email>
        <Company></Company>
        <Description></Description>
        <SponsorFullName></SponsorFullName>
        <SponsorEmail></SponsorEmail>
        <SponsorDepartment></SponsorDepartment>
        <ValidityDateTime>
          <StartValidityDateTime></StartValidityDateTime>
          <EndValidityDateTime></EndValidityDateTime>
        </ValidityDateTime>
      </Account>
    </Accounts>
  </Guest>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table

Item	Description
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WaitApproval	Whether the guest is waiting for approval	Index	Boolean: • true • false	N/A
Name	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
Password	User password	N/A	String, case-sensitive Length: 1 to 63 characters.	The password is set in plaintext form.
GroupName	User group to which the guest belongs	N/A	String. Length: 1 to 32 characters.	The default is **system**.
FullName	Guest name	N/A	String. Length: 1 to 255 characters.	N/A
Phone	Guest phone	N/A	String. Length: 1 to 32 characters.	N/A
Email	Guest email address	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
Company	Guest company	N/A	String. Length: 1 to 255 characters.	N/A
Description	Guest description	N/A	String. Length: 1 to 255 characters.	N/A
SponsorFullName	Sponsor name	N/A	String. Length: 1 to 255 characters.	N/A
SponsorEmail	Sponsor email address	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SponsorDepartment	Sponsor department	N/A	String. Length: 1 to 127 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidityDateTime • EndValidityDateTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/GuestConfigure

Global control of guest accounts table.

XML structure

```
<UserAccounts>
  <GuestConfigure>
    <AutoDelete></AutoDelete>
    <EmailFormat>
      <GuestSubject></GuestSubject>
      <GuestManagerSubject></GuestManagerSubject>
      <GuestSponsorSubject></GuestSponsorSubject>
      <GuestSponsorBody></GuestSponsorBody>
    </EmailFormat>
    <GuestManagerEmail></GuestManagerEmail>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <WaitApprovalTime></WaitApprovalTime>
  </GuestConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	GuestConfigure
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoDelete	Whether to enable automatic deletion	N/A	Boolean: • true • false	The default is false.
EmailFormat	Email address format	Data structure	Members include: • GuestSubject • GuestBody • GuestManagerSubject • GuestManagerBody • GuestSponsorSubject • GuestSponsorBody	N/A
GuestSubject	Email subject to send to the guest	N/A	String. Length: 1 to 127 characters.	N/A
GuestBody	Email body to send to the guest	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Subject	Email subject to send to the guest manager	N/A	String. Length: 1 to 127 characters.	N/A
GuestManager Body	Email body to send to the guest manager	N/A	String. Length: 1 to 255 characters.	N/A
GuestSponsorSubject	Email subject to send to the guest sponsor	N/A	String. Length: 1 to 127 characters.	N/A
GuestSponsorBody	Email body to send to the guest sponsor	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Email	Email address of the guest manager	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
EmailSender	Email address of the addresser	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtpServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
WaitApprovalTime	The maximum waiting time for account approval	N/A	Unsigned integer. Value range: 1 to 720, in hours.	The default is 24 hours.

UserAccounts/Identity/Users

Table of static user accounts for user identification.

XML structure

```
<UserAccounts>
  <Identity>
    <Users>
      <User>
        <Name></Name>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
      </User>
    </Users>
  </Identity>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
IpType	IP address type	Index	Enumeration: • **0**—IPv4 • **1**—IPv6	N/A
IpAddress	IP address of the user	Index	IPv4 or IPv6 address	N/A
MacAddress	MAC address of the user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.

UserAccounts/Network/IdentityGroups

Table of identity groups associated with a user.

XML structure

```
<UserAccounts>
  <Network>
    <IdentityGroups>
      <IdentityGroup>
        <UserName></UserName>
        <GroupName></GroupName>
      </IdentityGroup>
    </IdentityGroups>
  </Network>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
GroupName	Group name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

UserAccounts/UserGroup/IdentityMembers

Table of member users in an identity group.

XML structure

```
<UserAccounts>
  <UserGroup>
    <IdentityMembers>
      <IdentityMember>
        <GroupName></GroupName>
        <UserName></UserName>
      </IdentityMember>
    </IdentityMembers>
  </UserGroup>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityMembers
Table type	Multi-instance table
Row name	IdentityMember
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Name of the member user	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @

UserAccounts/UserGroup/IdentityGroups

Table of member groups in an identity group.

XML structure

```
<UserAccounts>
  <UserGroup>
```

```
    <IdentityGroups>
      <IdentityGroup>
        <GroupName></GroupName>
        <IdentityGroup></IdentityGroup>
      </IdentityGroup>
    </IdentityGroups>
  </UserGroup>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityGroup	Name of the member group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

UserAccounts/IdentityEnable

Enable or disable the user identification feature.

XML structure

```
<UserAccounts>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the user identification feature	N/A	Boolean: • true • false	The default is false.

UserAccounts/ChangePasswords

Change user passwords.

XML structure

```
<UserAccounts>
  <ChangePasswords>
    <ChangePassword>
      <UserName></UserName>
      <EncryptionType></EncryptionType>
      <Password></Password>
    </ChangePassword>
  </ChangePasswords>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangePasswords
Table type	Multi-instance table
Row name	ChangePassword
Restrictions	The UserName value must be included in the UserAccounts/ChangePasswords table.

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of *localusername@domain* or *localusername*. Length: 1 to 311 characters. • *localusername*—Local user name, case-sensitive string of 1 to 55 characters. • @—Domain name delimiter. • *domain*—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @
EncryptionType	Password encryption Type of the local user	N/A	Enumeration: • **0**—plaintext • **1**—private ciphertext	The default is 0.
Password	New password	N/A	String, case-sensitive. Length: 1 to 63 characters.	In non-FIPS mode, the password is a plaintext string of 1 to 63 characters. In FIPS mode, the password is a plaintext string of 15 to 63 characters. The string must contain digits, uppercase letters, lowercase letters, and special characters.

UserAccounts/NetworkMailConfigure

Global mail configuration table of local network access users.

XML structure

```
<UserAccounts>
  <NetworkMailConfigure>
    <EmailFormat>
      <Subject></Subject>
      <Body></Body>
    </EmailFormat>
    <EmailSender></EmailSender>
```

```
    <SmtpServer></SmtpServer>
    <SmtpAuthentication>
      <UserName></UserName>
      <Password></Password>
    </SmtpAuthentication>
  </NetworkMailConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	NetworkMailConfigure
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailFormat	Email address format	Data structure	Members include: • Subject. • Body.	N/A
Subject	Email subject to send	N/A	String. Length: 1 to 127 characters.	N/A
Body	Email body to send	N/A	String. Length: 1 to 255 characters.	N/A
EmailSender	Email address of the sender	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtpServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
SmtpAuthentication	SMTP server authentication configuration	Data structure	Members include: • UserName. • Password.	N/A
UserName	User name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Password	User password	N/A	String, case-sensitive. Length: 1 to 63 characters.	The password is set in plaintext form.

Contents

UserAccounts 1

UserAccounts/UserGroups 1
- XML structure 1
- Table description 2
- Columns 2

UserAccounts/Management/Accounts 4
- XML structure 4
- Table description 5
- Columns 5

UserAccounts/Management/UserRoles 6
- XML structure 6
- Table description 7
- Columns 7

UserAccounts/Network/Accounts 7
- XML structure 7
- Table description 9
- Columns 9

UserAccounts/PasswordLimit 13
- XML structure 13
- Table description 13
- Columns 14

UserAccounts/Guest/Accounts 14
- XML structure 14
- Table description 15
- Columns 15

UserAccounts/GuestConfigure 16
- XML structure 16
- Table description 16
- Columns 17

UserAccounts/Identity/Users 17
- XML structure 18
- Table description 18
- Columns 18

UserAccounts/Network/IdentityGroups 19
- XML structure 19
- Table description 19
- Columns 19

UserAccounts/UserGroup/IdentityMembers 19
- XML structure 20
- Table description 20
- Columns 20

UserAccounts/UserGroup/IdentityGroups 20
- XML structure 20
- Table description 21
- Columns 21

UserAccounts/IdentityUser 21
- XML structure 21
- Table description 22
- Columns 22

UserAccounts/IdentityEnable 22
- XML structure 22
- Table description 23
- Columns 23

UserAccounts/ChangePasswords 23
- XML structure 23
- Table description 23
- Columns 24

UserAccounts/NetworkMailConfigure ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 25
UserAccounts/Network/AccountsCount ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26

UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AclNumber></AclNumber>
        <CallbackNumber></CallbackNumber>
        <FTPHomeDir></FTPHomeDir>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
        <SSLVPNPolicy></SSLVPNPolicy>
        <SessTimeout></SessTimeout>
        <SubscriberID></SubscriberID>
        <SessGroupProfile></SessGroupProfile>
      </AuthorizationInfo>
      <UserIsolation>
        <InterGroup></InterGroup>
        <IntraGroup></IntraGroup>
      </UserIsolation>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
      <Description></Description>
    </Group>
  </UserGroups>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name	Index	String. Length: 1 to 32 characters.	N/A
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber • CallbackNumber • FTPHomeDir • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • IpPool • Ipv6Pool • SSLVPNPolicy • SessTimeout • SubscriberID • SessGroupProfile	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	N/A
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120 minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible for the local user	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Name of the IP address pool available for the local user	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
SubscriberID	Subscriber ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
SessGroupProfile	Session group profile assigned to the local user	N/A	String. Length: 1 to 31 characters.	N/A
UserIsolation	User isolation policy	Data structure	Members include: • InterGroup • IntraGroup	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InterGroup	User isolation policy for the local users in the user group and the local users in other groups	N/A	Boolean: • **true**—Local users in the user group are isolated from local users in other groups. • **false**—Local users in the user group are not isolated from local users in other groups.	The default is false.
IntraGroup	User isolation policy for the local users in the user group	N/A	Boolean: • **true**—Local users in the user group are isolated from each other. • **false**—Local users in the user group are not isolated from each other.	The default is false.
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Description	Description of the user group	N/A	String. Length: 1 to 127 characters.	N/A

UserAccounts/Management/Accounts

Management user information table.

XML structure

```
<UserAccounts>
  <Management>
    <Accounts>
      <Account>
        <Name></Name>
        <UID></UID>
        <GroupName></GroupName>
        <FTP></FTP>
        <HTTP></HTTP>
        <HTTPS></HTTPS>
        <PAD></PAD>
        <SSH></SSH>
```

```
        <TELNET></TELNET>
        <Terminal></Terminal>
        <PrivateAgent></PrivateAgent>
        <AccessLimit></AccessLimit>
        <CurrentAccessNum></CurrentAccessNum>
        <FTPHomeDir></FTPHomeDir>
        <UserState></UserState>
      </Account>
    </Accounts>
  </Management>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
UID	Local user ID	N/A	Unsigned integer. Value range: 1001 to 2^{32} – 1.	N/A
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is **system**.
FTP	Whether the FTP service is available for the local user	N/A	Boolean: • true • false	The default is false.
HTTP	Whether the HTTP service is available for the local user	N/A	Boolean: • true • false	The default is false.
HTTPS	Whether the HTTPS service is available for the local user	N/A	Boolean: • true • false	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
PAD	Whether the PAD service is available for the local user	N/A	Boolean: • true • false	The default is false.
SSH	Whether the SSH service is available for the local user	N/A	Boolean: • true • false	The default is false.
TELNET	Whether the Telnet service is available for the local user	N/A	Boolean: • true • false	The default is false.
Terminal	Whether the terminal service is available for the local user	N/A	Boolean: • true • false	The default is false.
PrivateAgent	Whether the private agent service is available for the local user	N/A	Boolean: • true • false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
CurrentAccessNum	Current number of online users	N/A	Unsigned integer. Value range: 0 to 1024.	N/A
FTPHomeDir	FTP home directory of the local user	N/A	String. Length: 1 to 255 characters.	The directory must already exist. By default, the user can access the root directory of the device, which varies by device model.
UserState	User state	N/A	Enumeration: • **0**—Blocked. • **1**—Active.	N/A

UserAccounts/Management/UserRoles

Management user role information table.

XML structure

```
<UserAccounts>
  <Management>
    <UserRoles>
      <UserRole>
```

```
        <UserName></UserName>
        <RoleName></RoleName>
      </UserRole>
    </UserRoles>
  </Management>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserRoles
Table type	Multi-instance table
Row name	UserRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String. Length: 1 to 80 characters.	N/A
RoleName	User role name	Index	String. Length: 1 to 63 characters.	N/A

UserAccounts/Network/Accounts

Network user information table.

XML structure

```
<UserAccounts>
  <Network>
    <Accounts>
      <Account>
        <Name></Name>
        <UID></UID>
        <GroupName></GroupName>
        <ADVPN></ADVPN>
        <IKE></IKE>
        <IPoE></IPoE>
        <LanAccess></LanAccess>
        <Portal></Portal>
        <PPP></PPP>
```

```
<SSLVPN></SSLVPN>
<AccessLimit></AccessLimit>
<CurrentAccessNum></CurrentAccessNum>
<AuthorizationInfo>
  <AclNumber></AclNumber>
  <CallbackNumber></CallbackNumber>
  <IdleTimeout></IdleTimeout>
  <PrimaryDNSServer></PrimaryDNSServer>
  <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
  <SecondaryDNSServer></SecondaryDNSServer>
  <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
  <URL></URL>
  <UserProfile></UserProfile>
  <VLANID></VLANID>
  <VRF></VRF>
  <Ipv4Address></Ipv4Address>
  <Ipv6Address></Ipv6Address>
  <IpPool></IpPool>
  <Ipv6Pool></Ipv6Pool>
  <SSLVPNPolicy></SSLVPNPolicy>
  <SubscriberID></SubscriberID>
  <WorkDirectory></WorkDirectory>
  <SessGroupProfile></SessGroupProfile>
  <WlanVlanID></WlanVlanID>
  <WlanVlanGroup></WlanVlanGroup>
  <UserGroup></UserGroup>
</AuthorizationInfo>
<AuthorizationIpv6PrefixInfo>
  <Ipv6Address></Ipv6Address>
  <Ipv6PrefixLength></Ipv6PrefixLength>
</AuthorizationIpv6PrefixInfo>
<BindingInfo>
  <CallNumber></CallNumber>
  <Interface></Interface>
  <Ipv4Address></Ipv4Address>
  <MacAddress></MacAddress>
  <VLANID></VLANID>
</BindingInfo>
<SessTimeout></SessTimeout>
<UserState></UserState>
<ValidityDateTime>
  <StartValidityDateTime></StartValidityDateTime>
  <EndValidityDateTime></EndValidityDateTime>
</ValidityDateTime>
<Description></Description>
<IdentityNumber></IdentityNumber>
<CreateTime></CreateTime>
<LastSuccessfulLoginTime></LastSuccessfulLoginTime>
```

```
        </Account>
      </Accounts>
    </Network>
  </UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Network user name	Index	String. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
UID	Network user ID	N/A	Unsigned integer. Value range: 1 to 2^{32} – 1.	N/A
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is **system**.
ADVPN	Whether the ADVPN service is available for the local user	N/A	Boolean: • true • false	The default is false.
IKE	Whether the IKE service is available for the local user	N/A	Boolean: • true • false	The default is false.
IPoE	Whether the IPoE service is available for the local user	N/A	Boolean: • true • false	The default is false.
LanAccess	Whether the LAN access service is available for the local user	N/A	Boolean: • true • false	The default is false.
Portal	Whether the portal service is available for the local user	N/A	Boolean: • true • false	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
PPP	Whether the PPP service is available for the local user	N/A	Boolean: • true • false	The default is false.
SSLVPN	Whether the SSLVPN service is available for the local user	N/A	Boolean: • true • false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
CurrentAccessNum	Current number of online users	N/A	Unsigned integer. Value range: 0 to 1024.	N/A
AuthorizationInfo	Authorization information of the local user	Data structure	Members include: • AclNumber • CallbackNumber • IdleTimeout • PrimaryDNSServer • PrimaryDNSIpv6Server • SecondaryDNSServer • SecondaryDNSIpv6Server • URL • UserProfile • VLANID • VRF • Ipv4Address • Ipv6Address • IpPool • Ipv6Pool • SSLVPNPolicy • SubscriberID • WorkDirectory • SessGroupProfile • WlanVlanID • WlanVlanGroup • UserGroup	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120 minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information of the local user	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
Ipv6Address	IPv6 address of the local user	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1.
IpPool	Name of the IP address pool available for the local user	N/A	String. Length: 1 to 63 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available for the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy group assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SubscriberID	Subscriber ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
WorkDirectory	Work directory assigned to the local user	N/A	String. Length: 1 to 255 characters.	N/A
SessGroupProfile	Session group profile assigned to the local user	N/A	String. Length: 1 to 31 characters.	N/A
WlanVlanID	VLAN ID assigned to the local user in WLAN	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
WlanVlanGroup	Name of the VLAN group assigned to the local user in WLAN	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserGroup	User group assigned to the local user	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: • Ipv6Address • Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A
BindingInfo	Binding attributes of the local user	Data structure	Members include: • CallNumber • Interface • Ipv4Address • MacAddress • VLANID	N/A
CallNumber	Calling number of the local user	N/A	String. Length: 1 to 64 characters.	N/A
Interface	Interface of the local user	N/A	String. Length: 1 to 47 characters.	N/A
Ipv4Address	IP address of the local user	N/A	String in the dotted decimal notation.	IPv4 example: 1.1.1.1.
MacAddress	MAC address of the local user	N/A	String. Length: 17 characters.	For example, FF-FF-FF-FF-FF-FF.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
UserState	User state	N/A	Enumeration: • **0**—Blocked. • **1**—Active.	The default is 1.
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidityDateTime • EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Description	Description of the local user	N/A	String. Length: 1 to 127 characters.	N/A
IdentityNumber	Identity number of the local user	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
CreateTime	Time when the network user was created	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
LastSuccessfulLoginTime	Last time when the network user successfully logged in	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/PasswordLimit

Password limit of the local user module.

XML structure

```
<UserAccounts>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	PasswordLimit
Table type	Single-instance table
Row name	UserRole

Restrictions	• The configuration takes effect on the following items:
	  ○ UserAccounts/Management/Accounts table
	  `<Password></Password>`
	  ○ UserAccounts/Network/Accounts table
	  `<Password></Password>`
	• Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	The minimum length of a password	N/A	Unsigned integer.	N/A
MaxLen	The maximum length of a password	N/A	Unsigned integer.	N/A
MinTypeNum	The minimum number of character types that a password must contain	N/A	Unsigned integer.	Character types include digits, uppercase letters, lowercase letters, and special characters. For example, if the value is set to 3, the password string must include three or more character types.

UserAccounts/Guest/Accounts

Table of network access guest information.

XML structure

```
<UserAccounts>
  <Guest>
    <Accounts>
      <Account>
        <WaitApproval></WaitApproval>
        <Name></Name>
        <GroupName></GroupName>
        <FullName></FullName>
        <Phone></Phone>
        <Email></Email>
        <Company></Company>
        <Description></Description>
        <SponsorFullName></SponsorFullName>
        <SponsorEmail></SponsorEmail>
        <SponsorDepartment></SponsorDepartment>
        <ValidityDateTime>
          <StartValidityDateTime></StartValidityDateTime>
          <EndValidityDateTime></EndValidityDateTime>
        </ValidityDateTime>
      </Account>
    </Accounts>
  </Guest>
```

```
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WaitApproval	Whether the guest is waiting for approval	Index	Boolean: • true • false	N/A
Name	User name	Index	String. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
GroupName	User group to which the guest belongs	N/A	String. Length: 1 to 32 characters.	The default setting is **system**.
FullName	Guest name	N/A	String. Length: 1 to 255 characters.	N/A
Phone	Guest phone	N/A	String. Length: 1 to 32 characters.	N/A
Email	Guest phone	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
Company	Guest company	N/A	String. Length: 1 to 255 characters.	N/A
Description	Guest description	N/A	String. Length: 1 to 255 characters.	N/A
SponsorFullName	Sponsor name	N/A	String. Length: 1 to 255 characters.	N/A
SponsorEmail	Sponsor Email	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SponsorDepartment	Sponsor department	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityDateTime	Account validity time period	Data structure	Members include: • StartValidityDateTime • EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/GuestConfigure

Global control of guest accounts table.

XML structure

```
<UserAccounts>
  <GuestConfigure>
    <AutoDelete></AutoDelete>
    <EmailFormat>
      <GuestSubject></GuestSubject>
      <GuestBody></GuestBody>
      <GuestManagerSubject></GuestManagerSubject>
      <GuestManagerBody></GuestManagerBody>
      <GuestSponsorSubject></GuestSponsorSubject>
      <GuestSponsorBody></GuestSponsorBody>
    </EmailFormat>
    <GuestManagerEmail></GuestManagerEmail>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <WaitApprovalTime></WaitApprovalTime>
  </GuestConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	GuestConfigure
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoDelete	Whether to enable automatic deletion	Column	Boolean: • true • false	The default is false.
EmailFormat	Email address format	Data structure	Members include: • GuestSubject • GuestBody • GuestManagerSubject • GuestManagerBody • GuestSponsorSubject • GuestSponsorBody	N/A
GuestSubject	Email subject to send to the guest	N/A	String. Length: 1 to 127 characters.	N/A
GuestBody	Email body to send to the guest	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Subject	Email subject to send to the guest manager	N/A	String. Length: 1 to 127 characters.	N/A
GuestManager Body	Email body to send to the guest manager	N/A	String. Length: 1 to 255 characters.	N/A
GuestSponsorS ubject	Email subject to send to the guest sponsor	N/A	String. Length: 1 to 127 characters.	N/A
GuestSponsorB ody	Email body to send to the guest sponsor	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Email	Email address of the guest manager	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
EmailSender	Email address of the addresser	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtpServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
WaitApprovalTi me	The maximum waiting time for account approval	N/A	Unsigned integer. Value range: 1 to 720, in hours.	The default is 24 hours.

UserAccounts/Identity/Users

Table of static user accounts for user identification.

XML structure

```
<UserAccounts>
  <Identity>
    <Users>
      <User>
        <Name></Name>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
      </User>
    </Users>
  </Identity>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
IpType	IP address family	Index	Enumeration: • **0**—IPv4 • **1**—IPv6	N/A
IpAddress	The IP address of user	Index	IPv4 or IPv6 address.	N/A
MacAddress	The MAC address of user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.

UserAccounts/Network/IdentityGroups

Table of identity groups associated with a user.

XML structure

```
<UserAccounts>
  <Network>
    <IdentityGroups>
      <IdentityGroup>
        <UserName></UserName>
        <GroupName></GroupName>
      </IdentityGroup>
    </IdentityGroups>
  </Network>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @
GroupName	Group name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

UserAccounts/UserGroup/IdentityMembers

Table of member users in an identity group.

XML structure

```
<UserAccounts>
  <UserGroup>
    <IdentityMembers>
      <IdentityMember>
        <GroupName></GroupName>
        <UserName></UserName>
      </IdentityMember>
    </IdentityMembers>
  </UserGroup>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityMembers
Table type	Multi-instance table
Row name	IdentityMember
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Name of the member user	Index	String, case-sensitive. Length: 1 to 80 characters.	The name cannot be **a**, **al**, or **all**, and cannot contain any of the following characters: \ | / : * ? < > @

UserAccounts/UserGroup/IdentityGroups

Table of member groups in an identity group.

XML structure

```
<UserAccounts>
  <UserGroup>
    <IdentityGroups>
```

```
      <IdentityGroup>
        <GroupName></GroupName>
        <IdentityGroup></IdentityGroup>
      </IdentityGroup>
    </IdentityGroups>
  </UserGroup>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityGroup	Name of the member group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

UserAccounts/IdentityUser

Table of online user information for user identification.

XML structure

```
<UserAccounts>
  <Identity>
    <IdentityUsers>
      <IdentityUser>
        <UserName></UserName>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
        <Type></Type>
      </IdentityUser>
    </IdentityUsers>
```

```
  </Identity>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityUsers
Table type	Multi-instance table
Row name	IdentityUser
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 80 characters.	N/A
IpAddress	IP address of the user	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.
Type	User type	N/A	Unsigned integer: • **1**—Static. • **2**—Portal. • **3**—IPoE. • **4**—PPP.	The online user can have various types at the same time. Obtain the value by displacement calculation.

UserAccounts/IdentityEnable

Enable or disable the user identification feature.

XML structure

```
<UserAccounts>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the user identification feature	N/A	Boolean: • true • false	The default is false.

UserAccounts/ChangePasswords

Change user passwords.

XML structure

```
<UserAccounts>
  <ChangePasswords>
    <ChangePassword>
      <UserName></UserName>
    </ChangePassword>
  </ChangePasswords>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangePasswords
Table type	Multi-instance table
Row name	ChangePassword
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of *localusername@domain* or *localusername*. Length: 1 to 311 characters. • *localusername*—Local user name, case-sensitive string of 1 to 55 characters. • @—Domain name delimiter. • *domain*—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be **a**, **al**, or **all**, and it cannot contain any of the following characters: \ | / : * ? < > @

UserAccounts/NetworkMailConfigure

Global mail configuration table of local network access users.

XML structure

```
<UserAccounts>
  <NetworkMailConfigure>
    <EmailFormat>
      <Subject></Subject>
      <Body></Body>
    </EmailFormat>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <SmtpAuthentication>
      <UserName></UserName>
    </SmtpAuthentication>
  </NetworkMailConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	NetworkMailConfigure
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailFormat	Email address format	Data structure	Members include: • Subject. • Body.	N/A
Subject	Email subject to send	N/A	String. Length: 1 to 127 characters.	N/A
Body	Email body to send	N/A	String. Length: 1 to 255 characters.	N/A
EmailSender	Email address of the sender	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtpServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
SmtpAuthentication	SMTP server authentication configuration	Data structure	Members include: • UserName. • Password.	N/A
UserName	User name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

UserAccounts/Network/AccountsCount

This table contains the number of network access users filtered by user description.

XML structure

```
<UserAccounts>
  <Network>
    <AccountsCount>
      <Count></Count>
      <DescFilter></DescFilter>
    </AccountsCount>
  </Network>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	AccountsCount
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Count	Number of network access users	N/A	Unsigned integer.	N/A
DescFilter	User description	N/A	String. Length: 0 to 127 characters.	This column supports only the following descriptions: • **user_from_server**—The **Count** column displays the number of users whose description is **user_from_server**. • **not_user_from_server**—The **Count** column displays the number of users whose description is **not_user_from_server**. If you do not specify a description, the **Count** column displays the total number of network access users.

Contents

UserAccounts 1

UserAccounts/Guest/Accounts 1
UserAccounts/Management/Accounts 2
UserAccounts/Network/Accounts 4
UserAccounts/UserGroup/IdentityMembers 6
UserAccounts/ExportNetworkUser 6
UserAccounts/Identity/Users 6
UserAccounts/Management/UserRoles 7
UserAccounts/UserGroups 7
UserAccounts/Guest/Accounts 8
UserAccounts/ApproveGuest 8
UserAccounts/GenerateGuestAccount 9
UserAccounts/ChangeMyPassword 9
UserAccounts/OldPasswordCheck 10
UserAccounts/ImportGuestAccount 11
UserAccounts/ImportNetworkUser 11
UserAccounts/ExportNetworkUser 11
UserAccounts/UserGroup/IdentityGroups 12
UserAccounts/UserGroup/IdentityMembers 12
UserAccounts/IdentityEnable 12
UserAccounts/Network/IdentityGroups 12
UserAccounts/IdentityUser 13
UserAccounts/ExportTemplet 13
UserAccounts/GuestConfigure 13
UserAccounts/Network/AccountsCount 13

UserAccounts

UserAccounts/Guest/Accounts

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。
Insufficient right to perform the operation. 没有足够的权限。	Insufficient right to perform the operation. 没有足够的权限。
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
This user already exists. 该用户已存在。	This user already exists. 该用户已存在。
Invalid Email address. 非法邮箱地址。	Invalid Email address. 非法邮箱地址。
The expiration date and time should be later than the current date and time. 生效结束时间必须晚于当前系统时间。	The expiration date and time should be later than the current date and time. 生效结束时间必须晚于当前系统时间。
The expiration date time should be later than the start date time. 截止时间应比开始时间晚。	The expiration date time should be later than the start date time. 截止时间应比开始时间晚。
Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。	Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。
Validity date and time configuration is not complete. 有效期配置不完整。	Validity date and time configuration is not complete. 有效期配置不完整。
Operation not supported. 不支持此项操作。	Operation not supported. 不支持此项操作。
A local user with the same name already exists. 存在一个同名本地来宾用户。	A local user with the same name already exists. 存在一个同名本地来宾用户。
The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。	The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。
Invalid password composition. The new password must contain at least %u types and at least %u	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.

characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。	无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。
The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。	The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。
The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。	The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。
The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。	The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。
Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。	Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。
The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。	The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。
Operation failed. The system resource is not enough. 操作失败，系统资源不足。	Operation failed. The system resource is not enough. 操作失败，系统资源不足。
The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。	The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。
The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。	The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。
The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。	The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。

UserAccounts/Management/Accounts

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。
Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system. 系统中的最后一个安全日志管理员角色不可被取消。	Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system. 系统中的最后一个安全日志管理员角色不可被取消。

Can't delete all users with the security-audit user role in the system. 不能将所有安全日志管理员角色的本地用户全部删除。	Can't delete all users with the security-audit user role in the system. 不能将所有安全日志管理员角色的本地用户全部删除。
Can't delete the user: This user is the only user with the security-audit user role. 系统中的最后一个安全日志管理员角色的本地用户不可被删除。	Can't delete the user: This user is the only user with the security-audit user role. 系统中的最后一个安全日志管理员角色的本地用户不可被删除。
The user group doesn't exist. 指定的用户组不存在。	The user group doesn't exist. 指定的用户组不存在。
Insufficient right to perform the operation. 没有足够的权限。	Insufficient right to perform the operation. 没有足够的权限。
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Invalid path or nonexistent directory. 错误的路径或者不存在的目录。	Invalid path or nonexistent directory. 错误的路径或者不存在的目录。
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
The user role isn't assigned to the user. 用户角色未被授权。	The user role isn't assigned to the user. 用户角色未被授权。
This user already exists. 该用户已存在。	This user already exists. 该用户已存在。
The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。	The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。
The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。	The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。
The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。	The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。
The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。	The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。
Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。	Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。

The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。	The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。
Operation failed. The system resource is not enough. 操作失败，系统资源不足。	Operation failed. The system resource is not enough. 操作失败，系统资源不足。
The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。	The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。
The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。	The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。
The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。	The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。
This user account is a predefined account in the system. You cannot perform any operation on the account except modifying its password. 此用户是系统预定义账户只允许修改密码。	This user account is a predefined account in the system. You cannot perform any operation on the account except modifying its password. 此用户是系统预定义账户只允许修改密码。

UserAccounts/Network/Accounts

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。
Invalid interface. 无效接口。	Invalid interface. 无效接口。
The user group doesn't exist. 指定的用户组不存在。	The user group doesn't exist. 指定的用户组不存在。
Invalid IP address. 错误的IP地址。	Invalid IP address. 错误的IP地址。
Insufficient right to perform the operation. 没有足够的权限。	Insufficient right to perform the operation. 没有足够的权限。
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Invalid MAC address. 错误的MAC地址。	Invalid MAC address. 错误的MAC地址。
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。

Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
The user role isn't assigned to the user. 用户角色未被授权。	The user role isn't assigned to the user. 用户角色未被授权。
This user already exists. 该用户已存在。	This user already exists. 该用户已存在。
Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。	Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。
A local guest with the same name already exists. 存在一个同名本地用户。	A local guest with the same name already exists. 存在一个同名本地用户。
You must specify both the start date time and expiration date time. 必须同时配置开始时间和结束时间。	You must specify both the start date time and expiration date time. 必须同时配置开始时间和结束时间。
The expiration time must be later than the start time and the current system time. 结束时间必须晚于开始时间以及当前系统时间。	The expiration time must be later than the start time and the current system time. 结束时间必须晚于开始时间以及当前系统时间。
The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。	The new password is too short. It must contain at least %u characters. 新密码长度不足，至少需要包含%u个字符。
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。
The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。	The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。
The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。	The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。
The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。	The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。
Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。	Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。
The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。	The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。
Operation failed. The system resource is not enough. 操作失败，系统资源不足。	Operation failed. The system resource is not enough. 操作失败，系统资源不足。
The new password is too long. It can't contain more than %u characters.	The new password is too long. It can't contain more than %u characters.

新密码超长，不能超过%u个字符。	新密码超长，不能超过%u个字符。
The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。	The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。
The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。	The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。
Wrong path or nonexistent directory. 错误的路径或者不存在的目录。	Wrong path or nonexistent directory. 错误的路径或者不存在的目录。

UserAccounts/UserGroup/IdentityMembers

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。.

UserAccounts/ExportNetworkUser

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。.

UserAccounts/Identity/Users

Message	Explanation
Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。	Username can't contain characters \\ | / : * ? < > @ and can't be a, al, or all. 用户名不能包含\\，|，/，:，*，?，<，>，@，并且不能是a，al，all。
Invalid IP address. 错误的IP地址。	Invalid IP address. 错误的IP地址。
Not enough resources. 没有足够的资源。	Not enough resources. 没有足够的资源。
Invalid MAC address. 错误的MAC地址。	Invalid MAC address. 错误的MAC地址。
Invalid IP type.	Invalid IP type.

IP地址类型错误。	IP地址类型错误。
The IP or MAC address is already bound to an identity user. IP和MAC地址已经与其他身份识别用户绑定。	The IP or MAC address is already bound to an identity user. IP和MAC地址已经与其他身份识别用户绑定。
Operation failed. 操作失败。	Operation failed. 操作失败。
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/Management/UserRoles

Message	Explanation
Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system. 系统中的最后一个安全日志管理员角色不可被取消。	Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system. 系统中的最后一个安全日志管理员角色不可被取消。
Maximum number of user roles for the user already reached. 本地用户的授权用户角色数目已经到达上限。	Maximum number of user roles for the user already reached. 本地用户的授权用户角色数目已经到达上限。
Not enough resources. 没有足够的资源。	Not enough resources. 没有足够的资源。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
Can't configure the system predefined role. 系统预定义角色不能被配置。	Can't configure the system predefined role. 系统预定义角色不能被配置。
The user role isn't assigned to the user. 用户角色未被授权。	The user role isn't assigned to the user. 用户角色未被授权。

UserAccounts/UserGroups

Message	Explanation
The user group doesn't exist. 指定的用户组不存在。	The user group doesn't exist. 指定的用户组不存在。
Invalid IP address. 错误的IP地址。	Invalid IP address. 错误的IP地址。
Can't delete the user group: It has one or more local users. 拥有一个或者多个本地用户的用户组不能被删除。	Can't delete the user group: It has one or more local users. 拥有一个或者多个本地用户的用户组不能被删除。
Can't delete the default user group system. 缺省用户组不能被删除。	Can't delete the default user group system. 缺省用户组不能被删除。

Maximum number of users roles for the user group already reached. 用户组下的用户角色的数目已经达到上限。	Maximum number of users roles for the user group already reached. 用户组下的用户角色的数目已经达到上限。
Invalid path or nonexistent directory. 错误的路径或者不存在的目录。	Invalid path or nonexistent directory. 错误的路径或者不存在的目录。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
Maximum number of user groups already reached. 用户组的数目达到上限。	Maximum number of user groups already reached. 用户组的数目达到上限。
The user role isn't assigned to the user. 用户角色未被授权。	The user role isn't assigned to the user. 用户角色未被授权。

UserAccounts/Guest/Accounts

Message	Explanation
The user group doesn't exist. 指定的用户组不存在。	The user group doesn't exist. 指定的用户组不存在。

UserAccounts/ApproveGuest

Message	Explanation
Insufficient right to perform the operation. 没有足够的权限。	Insufficient right to perform the operation. 没有足够的权限。
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
This user already exists. 该用户已存在。	This user already exists. 该用户已存在。
Invalid Email address. 非法邮箱地址。	Invalid Email address. 非法邮箱地址。
Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。	Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。
Validity date and time configuration is not complete. 有效期配置不完整。	Validity date and time configuration is not complete. 有效期配置不完整。

UserAccounts/GenerateGuestAccount

Message	Explanation
Insufficient right to perform the operation. 没有足够的权限。	Insufficient right to perform the operation. 没有足够的权限。
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Insufficient right to perform the operation. 没有足够的权限执行本操作。	Insufficient right to perform the operation. 没有足够的权限执行本操作。
Insufficient suffixes to assign to users. Please pad the start suffix with leading zeros or reduce the user count. 指定的编号后缀不能满足生成足够数目的用户，请增加编号后缀长度或减少用户数目。	Insufficient suffixes to assign to users. Please pad the start suffix with leading zeros or reduce the user count. 指定的编号后缀不能满足生成足够数目的用户，请增加编号后缀长度或减少用户数目。
The expiration date and time should be later than the current date and time. 生效结束时间必须晚于生效起始时间。	The expiration date and time should be later than the current date and time. 生效结束时间必须晚于生效起始时间。
This user already exists. 该用户已存在。	This user already exists. 该用户已存在。
Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。	Username conflicted. Please change the name configuration. 用户名被占用，请修改用户名配置。
The suffix will exceed the maximum number. Please change the start suffix or the user count. 递增后的编号后缀将会超过最大值，请调整编号后缀或者用户数目。	The suffix will exceed the maximum number. Please change the start suffix or the user count. 递增后的编号后缀将会超过最大值，请调整编号后缀或者用户数目。
Validity date and time configuration is not complete. 有效期配置不完整。	Validity date and time configuration is not complete. 有效期配置不完整。

UserAccounts/ChangeMyPassword

Message	Explanation
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
The new password is not set. 新密码未设置。	The new password is not set. 新密码未设置。
Wrong Password. 密码不正确。	Wrong Password. 密码不正确。
The new password is too short. It must contain at least %u characters.	The new password is too short. It must contain at least %u characters.

新密码长度不足，至少需要包含%u个字符。	新密码长度不足，至少需要包含%u个字符。
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type. 无效的密码组合，新密码至少包含%u类字符，并且每类字符的个数不能少于%u个。
The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。	The new password cannot contain 3 or more repeated characters. 新密码不能包含3个及以上的重复字符。
The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。	The new password cannot contain the username or reversed username. 新密码中不能包含与用户名或逆转的用户名一样的字符串。
The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。	The new password must contain at least 4 different characters different from any previous password. 新密码中应该至少包含4个不同于之前密码的字符。
Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。	Cannot change password until the update-wait time expires. 在密码更新限制时间内不能修改密码。
The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。	The new password must contain at least 4 different characters. 新密码必须包含至少4个不同的字符。
Operation failed. The system resource is not enough. 操作失败，系统资源不足。	Operation failed. The system resource is not enough. 操作失败，系统资源不足。
The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。	The new password is too long. It can't contain more than %u characters. 新密码超长，不能超过%u个字符。
The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。	The new password must be different from the old password or any passwords stored in the history records. 新密码不能与旧密码以及所有记录的历史密码相同。
The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。	The new password must be different from the old password by a minimum of four different characters. 新密码至少要与旧密码存在4个不同字符的差异。

UserAccounts/OldPasswordCheck

Message	Explanation
The user doesn't exist. 指定的用户不存在。	The user doesn't exist. 指定的用户不存在。
Wrong Password. 密码不正确。	Wrong Password. 密码不正确。

UserAccounts/ImportGuestAccount

Message	Explanation
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Number of imported users: %d. Failed to import other users because of an error in line %d. 成功导入用户数：%d。因第%d行的错误导致导入中断。	Number of imported users: %d. Failed to import other users because of an error in line %d. 成功导入用户数：%d。因第%d行的错误导致导入中断。
Validity date and time configuration is not complete. 有效期配置不完整。	Validity date and time configuration is not complete. 有效期配置不完整。

UserAccounts/ImportNetworkUser

Message	Explanation
Maximum number of users already reached. 用户的数目达到上限。	Maximum number of users already reached. 用户的数目达到上限。
Number of imported users: %d. Failed to import other users because of an error in line %d. 成功导入用户数：%d。因第%d行的错误导致导入中断。	Number of imported users: %d. Failed to import other users because of an error in line %d. 成功导入用户数：%d。因第%d行的错误导致导入中断。
Import failed. Please check the configuration. 导入用户操作失败。	Import failed. Please check the configuration. 导入用户操作失败。
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/ExportNetworkUser

Message	Explanation
The user account doesn't exist. 用户不存在。	The user account doesn't exist. 用户不存在。
The group doesn't exist. 用户组不存在。	The group doesn't exist. 用户组不存在。
The user and user group columns can't exist at the same time. 用户和用户组不能同时指定。	The user and user group columns can't exist at the same time. 用户和用户组不能同时指定。
The .csv file name must be specified. csv文件名必须指定。	The .csv file name must be specified. csv文件名必须指定。
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

该设备不支持用户身份识别功能。	该设备不支持用户身份识别功能。

UserAccounts/UserGroup/IdentityGroups

Message	Explanation
The group doesn't exist. 用户组不存在。	The group doesn't exist. 用户组不存在。
Failed to add the group because a conflict exists in group hierarchy. 用户组的从属关系发生冲突，添加组失败。	Failed to add the group because a conflict exists in group hierarchy. 用户组的从属关系发生冲突，添加组失败。
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/UserGroup/IdentityMembers

Message	Explanation
The group doesn't exist. 用户组不存在。	The group doesn't exist. 用户组不存在。
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/IdentityEnable

Message	Explanation
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/Network/IdentityGroups

Message	Explanation
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/IdentityUser

Message	Explanation
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/ExportTemplet

Message	Explanation
The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。	The device doesn't support the user identification feature. 该设备不支持用户身份识别功能。

UserAccounts/GuestConfigure

Message	Explanation
Invalid SMTP server URL. 非法SMTP服务器地址。	Invalid SMTP server URL. 非法SMTP服务器地址。

UserAccounts/Network/AccountsCount

Message	Explanation
Invalid description. 非法描述信息	Invalid description. 非法描述信息

Contents

Identity 1
Identity/ResetOnlineUser 1
XML structure 1
Table description 1
Columns 1
Identity/PolicyImportData 2
XML structure 2
Table description 2
Columns 2
Identity/ImportAccountUser 3
XML structure 3
Table description 3
Columns 3
Identity/ExportAccountUser 4
XML structure 4
Table description 4
Columns 4
Identity/ExportTemplet 5
XML structure 5
Table description 5
Columns 5
Identity/ResetConfigGroup 5
XML structure 6
Table description 6
Columns 6
Identity/ResetConfigUser 6
XML structure 7
Table description 7
Columns 7

Identity

Identity/ResetOnlineUser

This table deletes online identity users.

XML structure

```
<Identity>
  <ResetOnlineUser>
    <ResetType></ResetType>
    <DomainName></DomainName>
    <UserName></UserName>
    <IpAddress></IpAddress>
    <MacAddress></MacAddress>
  </ResetOnlineUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetOnlineUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetType	Deletion scope.	Index	Enumeration: • **0**—Deletes all online identity users. • **1**—Deletes all online identity users in an identity domain. • **2**—Deletes an online identity user with a specific IP or MAC address. • **3**—Deletes an online identity user in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	If the index is empty, the domain is

Column name	Column description	Column type	Data type and restrictions	Remarks
			The domain name cannot contain a question mark (?).	null-domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/PolicyImportData

This table imports online identity users or identity user accounts from servers.

XML structure

```
<Identity>
  <PolicyImportData>
    <PolicyName></PolicyName>
    <ImportDataType></ImportDataType>
  </PolicyImportData>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	PolicyImportData
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ImportDataType	Type of imported data.	N/A	Enumeration: • **0**—User accounts.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Online users.	

Identity/ImportAccountUser

This table imports network access user accounts, excluding guest accounts.

XML structure

```
<Identity>
  <ImportAccountUser>
    <FileName></FileName>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportAccountUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ImportAccountUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to import user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export network access user account template.
AutoCreateGroup	Whether to create nonexistent groups automatically.	N/A	Boolean: • true. • false.	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Override	Whether to override existing accounts with the same name.	N/A	Boolean: • true. • false.	The default is false.
StartLine	Start line to import user accounts.	N/A	Unsigned integer. Value range: 1 to 1048576.	The default is 1.

Identity/ExportAccountUser

This table exports network access user accounts, excluding guest accounts.

XML structure

```
<Identity>
  <ExportAccountUser>
    <FileName></FileName>
    <DomainName></DomainName>
    <UserName></UserName>
  </ExportAccountUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ExportAccountUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export user accounts to.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.
DomainName	Domain name.	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	N/A	String, case-sensitive. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Identity/ExportTemplet

This table exports a network access user account template.

XML structure

```
<Identity>
  <ExportTemplet>
    <FileName></FileName>
  </ExportTemplet>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ExportTemplet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export network access user accounts to.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

Identity/ResetConfigGroup

This table deletes identity groups.

XML structure

```
<Identity>
  <ResetConfigGroup>
    <ResetConfigType></ResetConfigType>
    <DomainName></DomainName>
    <GroupName></GroupName>
  </ResetConfigGroup>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetConfigGroup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetConfigType	Deletion scope.	Index	Enumeration: • **0**—Deletes all identity groups. • **1**—Deletes an identity group in an identity domain. • **2**—Deletes all identity groups in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters. The group name cannot contain a question mark (?).	N/A

Identity/ResetConfigUser

This table deletes identity user accounts.

XML structure

```
<Identity>
  <ResetConfigUser>
    <ResetType></ResetType>
    <DomainName></DomainName>
    <UserName></UserName>
  </ResetConfigUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetConfigUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetType	Deletion scope.	Index	Enumeration: • **0**—Deletes all identity user accounts. • **1**—Deletes an identity user account in an identity domain. • **2**—Deletes all identity user accounts in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
UserName	Identity user account name.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Contents

Identity 1

Identity/StaticUsers 1
XML structure 1
Table description 1
Columns 1
Identity/IdentityEnable 2
XML structure 2
Table description 2
Columns 2
Identity/UserImportPolicies 3
XML structure 3
Table description 3
Columns 3
Identity/Policies/RestfulPolicies 3
XML structure 4
Table description 4
Columns 4
Identity/Policies/LDAPPolicies 4
XML structure 4
Table description 5
Columns 5
Identity/RestfulServers 5
XML structure 5
Table description 6
Columns 6
Identity/UserAccountsAutoImport 7
XML structure 7
Table description 7
Columns 8
Identity/OnlineUserDomFormat 8
XML structure 8
Table description 8
Columns 8
Identity/SecManageServers 9
XML structure 9
Table description 9
Columns 9
Identity/SecManageIPs 10
XML structure 10
Table description 10
Columns 10
Identity/Roles 11
XML structure 11
Table description 11
Columns 12
Identity/Roles/Role 12
XML structure 12
Table description 12
Columns 12
Identity/Roles/Role/RoleUsers 12
XML structure 13
Table description 13
Columns 13
Identity/Roles/Role/RoleUsers/RoleUser 13
XML structure 13
Table description 13
Columns 14

Identity/Roles/Role/RoleUserGroups ····· 14
XML structure ····· 14
Table description ····· 14
Columns ····· 14
Identity/Roles/Role/RoleUserGroups/RoleUserGroup ····· 14
XML structure ····· 15
Table description ····· 15
Columns ····· 15

Identity

Identity/StaticUsers

This table contains static identity user information.

XML structure

```
<Identity>
  <StaticUsers>
    <StaticUser>
      <DomainName></DomainName>
      <Name></Name>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
    </StaticUser>
  </StaticUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
Name	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP address family.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/IdentityEnable

This table enables or disables the user identification feature.

XML structure

```
<Identity>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enables or disables the user identification feature.	N/A	Boolean: • true. • false.	The default is false.

Identity/UserImportPolicies

This table contains identity user import policy information.

XML structure

```
<Identity>
  <UserImportPolicies>
    <UserImportPolicy>
      <PolicyName></PolicyName>
      <UpdateInterval></UpdateInterval>
      <ImportType></ImportType>
    </UserImportPolicy>
  </UserImportPolicies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserImportPolicies
Table type	Multi-instance table
Row name	UserImportPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
UpdateInterval	Interval for automatic user account import.	N/A	Unsigned integer. Value range: 1 to 65536 hours.	The default value is 24.
ImportType	Import type for automatic user account import.	N/A	Enumeration: • **1**—all. • **2**—group. • **3**—user.	N/A

Identity/Policies/RestfulPolicies

This table contains Restful server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <RestfulPolicies>
      <RestfulPolicy>
        <PolicyName></PolicyName>
        <RestfulServerName></RestfulServerName>
      </RestfulPolicy>
    </RestfulPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulPolicies
Table type	Multi-instance table
Row name	RestfulPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RestfulServerName	Restful server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Identity/Policies/LDAPPolicies

This table contains LDAP server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <LDAPPolicies>
      <LDAPPolicy>
        <PolicyName></PolicyName>
        <LDAPSchemeName></LDAPSchemeName>
      </LDAPPolicy>
```

```
    </LDAPPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	LDAPPolicies
Table type	Multi-instance table
Row name	LDAPPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LDAPSchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/RestfulServers

This table contains information about the Restful server.

XML structure

```
<Identity>
  <RestfulServers>
    <RestfulServer>
      <ServerName></ServerName>
      <LoginName></LoginName>
      <Password></Password>
      <GetUserDatabase></GetUserDatabase>
      <GetUserGroupDatabase></GetUserGroupDatabase>
      <GetOnlineUser></GetOnlineUser>
      <PutOnlineUser></PutOnlineUser>
      <PutOfflineUser></PutOfflineUser>
      <DetectEnable></DetectEnable>
      <DetectInterval></DetectInterval>
      <DetectMaxCount></DetectMaxCount>
      <VpnName></VpnName>
    </RestfulServer>
```

```
  </RestfulServers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulServers
Table type	Multi-instance table
Row name	RestfulServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginName	Login name of the Restful server.	N/A	String. Length: 1 to 55 characters.	N/A
Password	Password of the Restful server.	N/A	Simple: String. Length: 1 to 63 characters.	N/A
GetUserDatabase	URI for requesting network access user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetUserGroupDatabase	URI for requesting user group information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetOnlineUser	URI for requesting online network access user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOnlineUser	URI for uploading online user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOfflineUser	URI for uploading offline user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectEnable	Enables or disables the connectivity detection feature of the Restful server.	N/A	Boolean: • true. • false.	The default is false.
DetectInterval	Interval for connectivity detection of the Restful server.	N/A	Unsigned integer. Value range: 1 to 10 minutes.	The default time is 5.
DetectMaxCount	Maximum number of probes per detection.	N/A	Unsigned integer. Value range: 1 to 5.	The default maximum number is 3.
VpnName	VPN instance name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Identity/UserAccountsAutoImport

This table controls whether to automatically import identity user accounts.

XML structure

```
<Identity>
  <UserAccountsAutoImport>
    <UserAccountAutoImport>
      <PolicyName></PolicyName>
      <Auto></Auto>
    </UserAccountAutoImport>
  </UserAccountsAutoImport>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserAccountsAutoImport
Table type	Multi-instance table
Row name	UserAccountAutoImport
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Auto	Enables or disables automatic user account import.	N/A	Boolean: • true. • false.	The default is false.

Identity/OnlineUserDomFormat

This table contains username match mode information for online identity users.

XML structure

```
<Identity>
  <OnlineUserDomFormat>
    <DomainFormat></DomainFormat>
  </OnlineUserDomFormat>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUserDomFormat
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainFormat	Username match mode.	N/A	Enumeration: • **1**—With domain. • **2**—Without domain. • **3**—Keep original.	The default is 3.

Identity/SecManageServers

This table contains security management server set information.

XML structure

```
<Identity>
  <SecManageServers>
    <SecManageServer>
      <ServerName></ServerName>
      <ListenPort></ListenPort>
      <EncrypAlgorithm></EncrypAlgorithm>
      <SharedKey></SharedKey>
      <Vendor></Vendor>
    </SecManageServer>
  </SecManageServers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageServers
Table type	Multi-instance table
Row name	SecManageServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server set name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ListenPort	Port to listen to the security management servers.	N/A	Unsigned integer. Value range: 1 to 65535.	The default value is 8001.
EncrypAlgorithm	Encryption method of the security management server set.	N/A	Enumeration: • **0**—3DES. • **1**—AES128.	N/A
SharedKey	Encryption secret key of	N/A	Simple: String. Length varies by	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the security management server set.		EncrypAlgorithm. • 3DES: 1 to 24 characters, • AES128: 1 to 16 characters.	
Vendor	Vendor	N/A	Enumeration: • **1**—H3C. • **2**—Huawei. • **3**—Drcom. • **4**—Srun.	N/A

Identity/SecManageIPs

This table contains IP address information for security management servers.

XML structure

```
<Identity>
  <SecManageIPs>
    <SecManageIP>
      <ServerName></ServerName>
      <Ipv4Address></Ipv4Address>
    </SecManageIP>
  </SecManageIPs>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageIPs
Table type	Multi-instance table
Row name	SecManageIP
Restrictions	ServerName can be chosen from Identity/SecManageServers
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address of a security management server.	Index	IPv4 address.	N/A

Identity/Roles

This table contains information about identity user roles.

XML structure

```
<Identity>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <RoleUsers>
        <RoleUser>
          <UserName></UserName>
          <DomainName></DomainName>
        </RoleUser>
      </RoleUsers>
      <RoleUserGroups>
        <RoleUserGroup>
          <UserGroupName></UserGroupName>
          <DomainName></DomainName>
        </RoleUserGroup>
      </RoleUserGroups>
    </Role>
  </Roles>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	Roles
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Identity user role table	Multi-instance table	N/A	For more information, see the Role table.

Identity/Roles/Role

This table contains information about identity user role.

XML structure

Please refer to the XML structure of Identity/Roles.

Table description

Item	Description
Feature name	Identity
Table name	Roles
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Identity user role name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
RoleUsers	Identity role user infomation	Sublist	N/A	For more information, see the RoleUsers table.
RoleUserGroups	Identity role usergroup infomation	Sublist	N/A	For more information, see the RoleUserGroups table.

Identity/Roles/Role/RoleUsers

This table contains information about identity users.

XML structure

Please refer to the XML structure of Identity/Roles/Role.

Table description

Item	Description
Feature name	Identity
Table name	RoleUsers
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleUser	Identity RoleUser table	Multi-instance table	N/A	For more information, see the RoleUser table.

Identity/Roles/Role/RoleUsers/RoleUser

This table contains information about identity users.

XML structure

Please refer to the XML structure of Identity/Roles/Role/RoleUsers.

Table description

Item	Description
Feature name	Identity
Table name	RoleUser
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Identity user name	Index	String, case-insensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain question marks (?).	N/A

Identity/Roles/Role/RoleUserGroups

This table contains information about identity user groups.

XML structure

Please refer to the XML structure of Identity/Roles/Role.

Table description

Item	Description
Feature name	Identity
Table name	RoleUserGroups
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleUserGroup	Identity RoleUser group table	Multi-instance table	N/A	For more information, see the RoleUserGroup table.

Identity/Roles/Role/RoleUserGroups/RoleUserGroup

This table contains information about identity user groups.

XML structure

Please refer to the XML structure of Identity/Roles/Role/RoleUserGroups.

Table description

Item	Description
Feature name	Identity
Table name	RoleUserGroups
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	Identity user group name	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain question marks (?).	N/A

Contents

Identity 1

Identity/StaticUsers 1
XML structure 1
Table description 1
Columns 1
Identity/OnlineUsers 2
XML structure 2
Table description 2
Columns 2
Identity/IdentityEnable 3
XML structure 3
Table description 3
Columns 3
Identity/AccountUsers 4
XML structure 4
Table description 4
Columns 4
Identity/AccountGroups 4
XML structure 4
Table description 5
Columns 5
Identity/AccountUserRoles 5
XML structure 5
Table description 6
Columns 6
Identity/AccountUserRoles/UserRoles 6
XML structure 6
Table description 7
Columns 7
Identity/AccountGroupRoles 7
XML structure 7
Table description 8
Columns 8
Identity/AccountGroupRoles/GroupRoles 8
XML structure 8
Table description 8
Columns 9
Identity/UserImportPolicies 9
XML structure 9
Table description 9
Columns 9
Identity/Policies/RestfulPolicies 10
XML structure 10
Table description 10
Columns 10
Identity/Policies/LDAPPolicies 11
XML structure 11
Table description 11
Columns 11
Identity/RestfulServers 11
XML structure 12
Table description 12
Columns 12
Identity/UserAccountsAutoImport 13
XML structure 13
Table description 14
Columns 14

Identity/OnlineUserDomFormat 14
XML structure 14
Table description 14
Columns 15
Identity/SecManageServers 15
XML structure 15
Table description 15
Columns 16
Identity/SecManageIPs 16
XML structure 16
Table description 16
Columns 17
Identity/TopUsers 17
XML structure 17
Table description 17
Columns 17
Identity/TopGroups 18
XML structure 18
Table description 18
Columns 18
Identity/ParentGroups 19
XML structure 19
Table description 19
Columns 19
Identity/MemberUsers 20
XML structure 20
Table description 20
Columns 21
Identity/MemberGroups 21
XML structure 21
Table description 21
Columns 22
Identity/Domains 22
XML structure 22
Table description 22
Columns 23
Identity/ImportAccountProgress 23
XML structure 23
Table description 23
Columns 23
Identity/ImportOnlineUserProgress 24
XML structure 24
Table description 24
Columns 24
Identity/Roles 25
XML structure 25
Table description 25
Columns 25
Identity/Roles/Role 26
XML structure 26
Table description 26
Columns 26
Identity/Roles/Role/RoleUsers 26
XML structure 26
Table description 27
Columns 27
Identity/Roles/Role/RoleUsers/RoleUser 27
XML structure 27
Table description 27
Columns 27
Identity/Roles/Role/RoleUserGroups 28
XML structure 28

Table description 28
Columns 28
Identity/Roles/Role/RoleUserGroups/RoleUserGroup 28
XML structure 28
Table description 28
Columns 29

Identity

Identity/StaticUsers

This table contains static identity user information.

XML structure

```
<Identity>
  <StaticUsers>
    <StaticUser>
      <DomainName></DomainName>
      <Name></Name>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
    </StaticUser>
  </StaticUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	If the index is empty, the domain is null-domain.
Name	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
IpType	IP address family.	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/OnlineUsers

This table contains online identity user information.

XML structure

```
<Identity>
  <OnlineUsers>
    <OnlineUser>
      <DomainName></DomainName>
      <UserName></UserName>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
      <Type></Type>
    </OnlineUser>
  </OnlineUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
UserName	Username.	Index	String. Length: 1 to 55 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The username cannot contain a question mark (?).	
IpAddress	IP address.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address.	Index	MAC address format: ff-ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.
Type	User type.	N/A	Unsigned integer.	An online identity user can have various types at the same time: • **1**—Static. • **2**—Dynamic. • **3**—Static and dynamic.

Identity/IdentityEnable

This table enables or disables the user identification feature.

XML structure

```
<Identity>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enables or disables the user identification feature.	N/A	Boolean: • true. • false.	The default is false.

Identity/AccountUsers

This table contains identity user account information.

XML structure

```
<Identity>
  <AccountUsers>
    <AccountUser>
      <DomainName></DomainName>
      <UserName></UserName>
    </AccountUser>
  </AccountUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	AccountUsers
Table type	Multi-instance table
Row name	AccountUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Identity/AccountGroups

This table contains identity group information.

XML structure

```
<Identity>
```

```
  <AccountGroups>
    <AccountGroup>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <PureGroupName></PureGroupName>
      <Description></Description>
    </AccountGroup>
  </AccountGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	AccountGroups
Table type	Multi-instance table
Row name	AccountGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
PureGroupNam e	Name of the identity group at the lowest level	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
Description	Description of the identity group	N/A	String. Length: 1 to 127 characters.	N/A

Identity/AccountUserRoles

This table contains information about identity users.

XML structure

```
<Identity>
  <AccountUserRoles>
```

```
    <AccountUserRole>
      <DomainName></DomainName>
      <UserName></UserName>
      <UserRoles>
        <UserRole>
          <RoleName></RoleName>
          <RoleAttribute></RoleAttribute>
        </UserRole>
      </UserRoles>
    </AccountUserRole>
  </AccountUserRoles>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	AccountUserRoles
Table type	Multi-level and multi-instance table
Row name	AccountUserRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
UserRoles	Identity user role infomation	Sublist	N/A	N/A

Identity/AccountUserRoles/UserRoles

This table contains information about identity roles for identity users.

XML structure

Please refer to the XML structure of Identity/AccountUserRoles

Table description

Item	Description
Feature name	Identity
Table name	UserRoles
Table type	Multi-level and multi-instance table
Row name	UserRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Identity user role name	Index	String, case-sensitive. Length: 1 to 63 characters. The role name cannot contain a question mark (?).	N/A
RoleAttribute	Source of identity role	N/A	String: • CONFIG • INHERIT. • CONFIG, INHERIT	N/A

Identity/AccountGroupRoles

This table contains information about identity groups.

XML structure

```
<Identity>
  <AccountGroupRoles>
    <AccountGroupRole>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <GroupRoles>
        <GroupRole>
          <RoleName></RoleName>
          <RoleAttribute></RoleAttribute>
        </GroupRole>
      </GroupRoles>
    </AccountGroupRole>
  </AccountGroupRoles>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	AccountGroupRoles
Table type	Multi-level and multi-instance table
Row name	AccountGroupRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters. The group name cannot contain a question mark (?).	N/A
GroupRoles	Identity group role infomation	Sublist	N/A	N/A

Identity/AccountGroupRoles/GroupRoles

This table contains information about identity roles for identity groups.

XML structure

Please refer to the XML structure of Identity/AccountGroupRoles

Table description

Item	Description
Feature name	Identity
Table name	GroupRoles
Table type	Multi-level and multi-instance table
Row name	GroupRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Identity group role name	Index	String, case-sensitive. Length: 1 to 63 characters. The role name cannot contain a question mark (?).	N/A
RoleAttribute	Source of identity role	N/A	String: • CONFIG • INHERIT. • CONFIG, INHERIT	N/A

Identity/UserImportPolicies

This table contains identity user import policy information.

XML structure

```
<Identity>
  <UserImportPolicies>
    <UserImportPolicy>
      <PolicyName></PolicyName>
      <UpdateInterval></UpdateInterval>
      <ImportType></ImportType>
    </UserImportPolicy>
  </UserImportPolicies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserImportPolicies
Table type	Multi-instance table
Row name	UserImportPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UpdateInterval	Interval for automatic user account import.	N/A	Unsigned integer. Value range: 1 to 65536 hours.	The default value is 24.
ImportType	Import type for automatic user account import.	N/A	Enumeration: • **1**—all. • **2**—group. • **3**—user.	N/A

Identity/Policies/RestfulPolicies

This table contains Restful server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <RestfulPolicies>
      <RestfulPolicy>
        <PolicyName></PolicyName>
        <RestfulServerName></RestfulServerName>
      </RestfulPolicy>
    </RestfulPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulPolicies
Table type	Multi-instance table
Row name	RestfulPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RestfulServerN	Restful server	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ame	name.		Length: 1 to 31 characters.	

Identity/Policies/LDAPPolicies

This table contains LDAP server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <LDAPPolicies>
      <LDAPPolicy>
        <PolicyName></PolicyName>
        <LDAPSchemeName></LDAPSchemeName>
      </LDAPPolicy>
    </LDAPPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	LDAPPolicies
Table type	Multi-instance table
Row name	LDAPPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LDAPSchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/RestfulServers

This table contains information about the Restful server.

XML structure

```
<Identity>
  <RestfulServers>
    <RestfulServer>
      <ServerName></ServerName>
      <LoginName></LoginName>
      <GetUserDatabase></GetUserDatabase>
      <GetUserGroupDatabase></GetUserGroupDatabase>
      <GetOnlineUser></GetOnlineUser>
      <PutOnlineUser></PutOnlineUser>
      <PutOfflineUser></PutOfflineUser>
      <DetectEnable></DetectEnable>
      <DetectInterval></DetectInterval>
      <DetectMaxCount></DetectMaxCount>
      <VpnName></VpnName>
      <ConnectState></ConnectState>
    </RestfulServer>
  </RestfulServers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulServers
Table type	Multi-instance table
Row name	RestfulServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginName	Login name of the Restful server.	N/A	String. Length: 1 to 55 characters.	N/A
GetUserDatabase	URI for requesting network access user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetUserGroup	URI for	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Database	requesting user group information.		Length: 1 to 255 characters.	
GetOnlineUser	URI for requesting online network access user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOnlineUser	URI for uploading online user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOfflineUser	URI for uploading offline user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
DetectEnable	Enables or disables the connectivity detection feature of the Restful server.	N/A	Boolean: • true. • false.	The default is false.
DetectInterval	Interval for connectivity detection of the Restful server.	N/A	Unsigned integer. Value range: 1 to 10 minutes.	The default time is 5.
DetectMaxCount	Maximum number of probes per detection.	N/A	Unsigned integer. Value range: 1 to 5.	The default maximum number is 3.
VpnName	VPN instance name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ConnectState	Connectivity state between the device and the Restful server.	N/A	Boolean: • **true**—Reachable. • **false**—Unreachable.	The default is false.

Identity/UserAccountsAutoImport

This table controls whether to automatically import identity user accounts.

XML structure

```
<Identity>
  <UserAccountsAutoImport>
    <UserAccountAutoImport>
      <PolicyName></PolicyName>
      <Auto></Auto>
```

```
    </UserAccountAutoImport>
  </UserAccountsAutoImport>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserAccountsAutoImport
Table type	Multi-instance table
Row name	UserAccountAutoImport
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Auto	Enables or disables automatic user account import.	N/A	Boolean: • true. • false.	The default is false.

Identity/OnlineUserDomFormat

This table contains username match mode information for online identity users.

XML structure

```
<Identity>
  <OnlineUserDomFormat>
    <DomainFormat></DomainFormat>
  </OnlineUserDomFormat>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUserDomFormat
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainFormat	Username match mode.	N/A	Enumeration: • **1**—With domain. • **2**—Without domain. • **3**—Keep original.	The default is 3.

Identity/SecManageServers

This table contains security management server set information.

XML structure

```
<Identity>
  <SecManageServers>
    <SecManageServer>
      <ServerName></ServerName>
      <ListenPort></ListenPort>
      <EncrypAlgorithm></EncrypAlgorithm>
      <Vendor></Vendor>
    </SecManageServer>
  </SecManageServers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageServers
Table type	Multi-instance table
Row name	SecManageServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server set name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ListenPort	Port to listen to security management servers.	N/A	Unsigned integer. Value range: 1 to 65535.	The default value is 8001.
EncrypAlgorithm	Encryption method of the security management server set.	N/A	Enumeration: • **0**—3DES. • **1**—AES128.	N/A
Vendor	Vendor	N/A	Enumeration: • **1**—H3C. • **2**—Huawei. • **3**—Drcom. • **4**—Srun.	N/A

Identity/SecManageIPs

This table contains IP address information for security management servers.

XML structure

```
<Identity>
  <SecManageIPs>
    <SecManageIP>
      <ServerName></ServerName>
      <Ipv4Address></Ipv4Address>
    </SecManageIP>
  </SecManageIPs>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageIPs
Table type	Multi-instance table
Row name	SecManageIP
Restrictions	ServerName can be chosen from Identity/SecManageServers.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server set name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of a security management server.	Index	IPv4 address.	N/A

Identity/TopUsers

This table contains top user information for user identification. Top users refer to identity users that do not belong to any identity groups.

XML structure

```
<Identity>
  <TopUsers>
    <TopUser>
      <DomainName></DomainName>
      <UserName></UserName>
    </TopUser>
  </TopUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	TopUsers
Table type	Multi-instance table
Row name	TopUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
UserName	Username.	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 55 characters. The username cannot contain a question mark (?).	

Identity/TopGroups

This table contains top user group information for user identification. Top groups refer to identity groups that do not belong to any parent identity groups.

XML structure

```
<Identity>
  <TopGroups>
    <TopGroup>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <PureGroupName></PureGroupName>
      <Description></Description>
    </TopGroup>
  </TopGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	TopGroups
Table type	Multi-instance table
Row name	TopGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
PureGroupNam e	Name of the identity group	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	at the lowest level		Length: 1 to 200 characters.	
Description	Description of the identity group	N/A	String. Length: 1 to 127 characters.	N/A

Identity/ParentGroups

This table contains information about identity groups to which an identity user belongs.

XML structure

```
<Identity>
  <ParentGroups>
    <ParentGroup>
      <DomainName></DomainName>
      <UserName></UserName>
      <GroupName></GroupName>
      <PureGroupName></PureGroupName>
      <Description></Description>
    </ParentGroup>
  </ParentGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ParentGroups
Table type	Multi-instance table
Row name	ParentGroup
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
PureGroupName	Name of the identity group at the lowest level	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
Description	Description of the identity group	N/A	String. Length: 1 to 127 characters.	N/A

Identity/MemberUsers

This table contains information about member identity users in an identity group.

XML structure

```
<Identity>
  <MemberUsers>
    <MemberUser>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <UserName></UserName>
    </MemberUser>
  </MemberUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	MemberUsers
Table type	Multi-instance table
Row name	MemberUser
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
UserName	Username.	Index	String. Length: 1 to 255 characters. The username cannot contain a question mark (?).	N/A

Identity/MemberGroups

This table contains information about member identity groups in an identity group.

XML structure

```
<Identity>
  <MemberGroups>
    <MemberGroup>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <MemberGroup></MemberGroup>
      <PureMemGroupName></PureMemGroupName>
      <MemGroupDescription></MemGroupDescription>
    </MemberGroup>
  </MemberGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	MemberGroups
Table type	Multi-instance table
Row name	MemberGroup
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the domain is null-domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
MemberGroup	Member group name.	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
PureMemGroup Name	Name of the member identity group at the lowest level	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
MemGroupDes cription	Description of the member identity group	N/A	String. Length: 1 to 127 characters.	N/A

Identity/Domains

This table contains information about identity domains.

XML structure

```
<Identity>
  <Domains>
    <Domain>
      <DomainName></DomainName>
    </Domain>
  </Domains>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	N/A

Identity/ImportAccountProgress

This table contains import progress information for identity user accounts and groups when the device is importing identity user accounts from servers.

XML structure

```
<Identity>
  <ImportAccountProgress>
    <UsersCount></UsersCount>
    <GroupsCount></GroupsCount>
    <ImportState></ImportState>
  </ImportAccountProgress>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ImportAccountProgress
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UsersCount	Number of identity user accounts already imported	N/A	Unsigned integer.	N/A
GroupsCount	Number of identity groups already imported	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ImportState	Current import state	N/A	Enumeration: • **0**—Unimported. • **1**—Importing. • **2**—Imported.	N/A

Identity/ImportOnlineUserProgress

This table contains import progress information for online identity users when the device is importing online identity users from servers.

XML structure

```
<Identity>
  <ImportOnlineUserProgress>
    <UsersCount></UsersCount>
    <SucceedImportUsersCount></SucceedImportUsersCount>
    <ImportState></ImportState>
  </ImportOnlineUserProgress>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ImportOnlineUserProgress
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UsersCount	Number of online identity users already imported	N/A	Unsigned integer.	N/A
SucceedImport UsersCount	Number of online identity users already successfully imported	N/A	Unsigned integer.	N/A
ImportState	Current import state	N/A	Enumeration: • **0**—Unimported.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Importing. • **2**—Imported.	

Identity/Roles

This table contains information about identity user roles.

XML structure

```
<Identity>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <RoleUsers>
        <RoleUser>
          <UserName></UserName>
          <DomainName></DomainName>
        </RoleUser>
      </RoleUsers>
      <RoleUserGroups>
        <RoleUserGroup>
          <UserGroupName></UserGroupName>
          <DomainName></DomainName>
        </RoleUserGroup>
      </RoleUserGroups>
    </Role>
  </Roles>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	Roles
Table type	Multi-level and multi-instance table
Row name	Role
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Identity user	Multi-insta	N/A	For more information,

Column name	Column description	Column type	Data type and restrictions	Remarks
	role table	nce table		see the Role table.

Identity/Roles/Role

This table contains information about identity user roles

XML structure

Please refer to the XML structure of Identity/Roles

Table description

Item	Description
Feature name	Identity
Table name	Roles
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Identity user role name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
RoleUsers	Identity role user infomation	Sublist	N/A	For more information, see the RoleUsers table.
RoleUserGroups	Identity role usergroup infomation	Sublist	N/A	For more information, see the RoleUserGroups table.

Identity/Roles/Role/RoleUsers

This table contains information about identity users.

XML structure

Please refer to the XML structure of Identity/Roles/Role.

Table description

Item	Description
Feature name	Identity
Table name	RoleUsers
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleUser	Identity RoleUser table	Multi-instance table	N/A	For more information, see the RoleUser table.

Identity/Roles/Role/RoleUsers/RoleUser

This table contains information about identity users.

XML structure

Please refer to the XML structure of Identity/Roles/Role/RoleUsers..

Table description

Item	Description
Feature name	Identity
Table name	RoleUsers
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Identity user name.	Index	String, case-insensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			contain question marks (?).	

Identity/Roles/Role/RoleUserGroups

This table contains information about identity user groups.

XML structure

Please refer to the XML structure of Identity/Roles/Role/.

Table description

Item	Description
Feature name	Identity
Table name	RoleUserGroups
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleUserGroup	Identity RoleUser group table	Multi-instance table	N/A	For more information, see the RoleUserGroup table.

Identity/Roles/Role/RoleUserGroups/RoleUserGroup

This table contains information about identity user groups.

XML structure

Please refer to the XML structure of Identity/Roles/Role/RoleUserGroups.

Table description

Item	Description
Feature name	Identity

Table name	RoleUserGroups
Table type	Multi-level and multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name	Index	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain question marks (?).	N/A

Contents

UserLog 1
UserLog/FlowLog/ClearLogHostStatistics 1
XML structure 1
Table description 1
Columns 1
UserLog/FlowLog/ClearAllLogHostsStatistics 2
XML structure 2
Table description 2
Columns 3

UserLog

UserLog/FlowLog/ClearLogHostStatistics

This table is used to clear statistics of specified flow log host.

XML structure

```
<UserLog>
  <FlowLog>
    <ClearLogHostStatistics>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Mode></Mode>
        <Clear></Clear>
      </Host>
    </ClearLogHostStatistics>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	ClearLogHostStatistics
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Mode	Userlog mode	Index	Enumeration: • 0—Userlog mode flow(Default). • 1—Userlog mode NAT. • 2—Userlog mode flow6. • 3—Userlog mode bin. • 4—Userlog mode 6to4. • 5—Userlog mode 4to6. • 6—Userlog mode traffic. • 7—Userlog mode traffic6.	N/A
Clear	Clear statistics of all flow log hosts.	N/A	This column must be empty.	N/A

UserLog/FlowLog/ClearAllLogHostsStatistics

This table is used to clear statistics of all flow log hosts.

XML structure

```
<UserLog>
  <FlowLog>
    <ClearAllLogHostsStatistics>
      <Clear/>
    </ClearAllLogHostsStatistics>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	ClearAllLogHostsStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear statistics of all flow log hosts.	N/A	This column must be empty.

Contents

UserLog 1
UserLog/FlowLog/LogHosts 1
XML structure 1
Table description 1
Columns 1
UserLog/FlowLog/LogAttribute 2
XML structure 2
Table description 2
Columns 3

UserLog

UserLog/FlowLog/LogHosts

This table contains NAT444 flow log hosts information.

XML structure

```
<UserLog>
  <FlowLog>
    <LogHosts>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Mode></Mode>
        <Port></Port>
      </Host>
    </LogHosts>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to 64 log hosts.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Mode	Userlog mode	Index	Enumeration: • 0—Userlog mode flow(Default). • 1—Userlog mode NAT. • 2—Userlog mode flow6. • 3—Userlog mode bin. • 4—Userlog mode 6to4. • 5—Userlog mode 4to6. • 6—Userlog mode traffic. • 7—Userlog mode traffic6.	N/A
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535. Default: 9002.	N/A

UserLog/FlowLog/LogAttribute

This table contains global attributes about NAT444 flow log.

XML structure

```
<UserLog>
  <FlowLog>
    <LogAttribute>
      <Host>
        <Mode></Mode>
        <Version></Version>
        <SourceIpAddress></SourceIpAddress>
        <SourceIpv6Address></SourceIpv6Address>
        <LoadBalance></LoadBalance>
        <OutputToSyslog></OutputToSyslog>
      </Host>
    </LogAttribute>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogAttribute
Table type	Single-instance table

Row name	Host
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Userlog mode	Index	Enumeration: • 0—Userlog mode flow(Default). • 1—Userlog mode NAT. • 2—Userlog mode flow6. • 3—Userlog mode bin. • 4—Userlog mode 6to4. • 5—Userlog mode 4to6. • 6—Userlog mode traffic. • 7—Userlog mode traffic6.	N/A
Version	The version of NAT444 flow logs	N/A	Enumeration: • 0—Version 1.0(Default). • 1—Version 3.0. • 2—Version 5.0 • 3—Version 7.0	N/A
SourceIpAddress	The source IPv4 address for output NAT444 flow logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1
SourceIpv6Address	The source Ipv6 address for output NAT444 flow logs	N/A	String, Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8
LoadBalance	The load balance function of log host	N/A	Boolean: • true • false(Default)	When the load balance function is disabled, a log UDP packet will be sent to each log host respectively. When the load balance function is enabled, a log UDP packet will only be sent to just one log host instead of all log hosts.
OutputToSyslog	Whether the flow log will be sent as syslog	N/A	Boolean: • true • false(Default)	By default, the flow logs will be sent to flow log hosts. When the flow log is sent to syslog, the flow logs will not be sent to flow log host anymore.

Contents

UserLog 1
UserLog/FlowLog/LogHosts 1
XML structure 1
Table description 1
Columns 1
UserLog/FlowLog/LogAttribute 2
XML structure 2
Table description 3
Columns 3

UserLog

UserLog/FlowLog/LogHosts

This table contains NAT444 flow log hosts information.

XML structure

```
<UserLog>
  <FlowLog>
    <LogHosts>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Mode></Mode>
        <Port></Port>
        <LogCount></LogCount>
        <LogPacketCount></LogPacketCount>
      </Host>
    </LogHosts>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to 64 log hosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Mode	Userlog mode	Index	Enumeration: • 0—Userlog mode flow. • 1—Userlog mode NAT. • 2—Userlog mode flow6. • 3—Userlog mode bin. • 4—Userlog mode 6to4. • 5—Userlog mode 4to6. • 6—Userlog mode traffic. • 7—Userlog mode traffic6.	N/A
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LogCount	The logs count sent to current log host	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
LogPacketCount	The UDP packets count of user logs sent to current log host	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

UserLog/FlowLog/LogAttribute

This table contains global attributes about NAT444 flow log.

XML structure

```
<UserLog>
  <FlowLog>
    <LogAttribute>
      <Host>
        <Mode></Mode>
        <Version></Version>
        <SourceIpAddress></SourceIpAddress>
        <SourceIpv6Address></SourceIpv6Address>
        <LoadBalance></LoadBalance>
        <OutputToSyslog></OutputToSyslog>
      </Host>
    </LogAttribute>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogAttribute
Table type	Single-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Userlog mode	Index	Enumeration: • 0—Userlog mode flow • 1—Userlog mode NAT. • 2—Userlog mode flow6. • 3—Userlog mode bin. • 4—Userlog mode 6to4. • 5—Userlog mode 4to6. • 6—Userlog mode traffic. • 7—Userlog mode traffic6.	N/A
Version	The version of NAT444 flow logs	N/A	Enumeration: • 0—Version 1.0. • 1—Version 3.0. • 2—Version 5.0. • **3**—Version 7.0.	N/A
SourceIpAddr ess	The source IPv4 address for output NAT444 flow logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1
SourceIpv6Ad dress	The source Ipv6 address for output NAT444 flow logs	N/A	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8
LoadBalance	The load balance function of log host	N/A	Boolean: • true • false	When the load balance function is disabled, a log UDP packet will be sent to each log host respectively. When the load balance function is enabled, a log UDP packet will only be sent to just one log host instead of all log hosts.

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputToSyslog	Whether the flow log will be sent as syslog	N/A	Boolean: • true • false	By default, the flow logs will be sent to flow log hosts. When the flow log is sent to syslog, the flow logs will not be sent to flow log host anymore.

Contents

UserProfile 1
USERQOS/ClearIfUserProfileStatistics 1
XML structure 1
Table description 1
Columns 1

UserProfile

USERQOS/ClearIfUserProfileStatistics

This table is used to clear statistics of the user profile applied to an interface.

XML structure

```
<USERQOS>
  <ClearIfUserProfileStatistics>
    <ClearStatistics>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </ClearStatistics>
  </ClearIfUserProfileStatistics>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	ClearIfUserProfileStatistics
Table type	Multi-instance table
Row name	ClearStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Unsigned integer.	N/A
Direction	Application direction	N/A	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—None.	N/A

Contents

UserProfile 1

UserProfile/UserProfiles 1
XML structure 1
Table description 1
Columns 1
ACL/UserProfilePfilter 2
XML structure 2
Table description 2
Columns 2
CAR/UserProfileCAR 3
XML structure 3
Table description 3
Columns 4
CAR/UserProfileCAREx 4
XML structure 4
Table description 5
Columns 5
CAR/UserConnLimit 6
XML structure 6
Table description 6
Columns 6
GTS/UserProfileGTS 7
XML structure 7
Table description 7
Columns 7
HardwareQueue/UserProfileQMProfile 8
XML structure 8
Table description 9
Columns 9
HardwareQueue/UserProfileQueue 9
XML structure 9
Table description 10
Columns 10
MQC/UserProfileQosPolicy 10
XML structure 10
Table description 11
Columns 11
USERQOS/SessionIdentify 11
XML structure 11
Table description 12
Columns 12
USERQOS/IfUserProfiles 12
XML structure 12
Table description 12
Columns 13
USERQOS/UserProfileUserQueue 13
XML structure 13
Table description 14
Columns 14
USERQOS/TunnelUserProfiles 15
XML structure 15
Table description 15
Columns 16
SQ/UserProfilePQ 16
XML structure 16
Table description 16
Columns 17

LR/UserProfileLR 17
XML structure 17
Table description 17
Columns 18

UserProfile

UserProfile/UserProfiles

This table contains user profile information.

XML structure

```
<UserProfile>
  <UserProfiles>
    <Profile>
      <Name></Name>
      <Type></Type>
    </Profile>
  </UserProfiles>
</UserProfile>
```

Table description

Item	Description
Feature name	UserProfile
Table name	UserProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Type	User profile type	N/A	Enumeration: • **1**—User profile. • **2**—Session group profile.	N/A

ACL/UserProfilePfilter

This table contains information about packet filter application for user profile.

XML structure

```
<ACL>
  <UserProfilePfilter>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <AclType></AclType>
      <AclGroup></AclGroup>
    </Apply>
  </UserProfilePfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserProfilePfilter
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction.	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
AclType	ACL type.	N/A	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclGroup	ACL name or number.	N/A	• **ACL name:** Case-insensitive string of 1 to 63 characters. • **ACL number**: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be **all**. Only Apply an ACL at one direction.If want to change the ACL, must to delete the item and create an new item.

CAR/UserProfileCAR

This table contains CAR application on user profile.

XML structure

```
<CAR>
  <UserProfileCAR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAR>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAR
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration: • **4**—Any	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value range for CIR varies by device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	If **CBS** or PIR is not configured, **EBS** cannot be configured
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value range for PIR varies by device model.

CAR/UserProfileCAREx

This table contains CAR application on user profile.

XML structure

```
<CAR>
  <UserProfileCAREx>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAREx>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAREx
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration: • **1**—IPv4Acl • **2**—IPv6Acl • **4**—Any	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, the value is 2000 to 5999. When **Type** is **2**, the value is 2000 to 3999. When **Type** is **4**, this column only can be configured as 0.
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value range for CIR varies by device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	If **CBS** or PIR is not configured, **EBS** cannot be configured
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value range for PIR varies by device model.

CAR/UserConnLimit

This table contains connection limits for a user profile.

XML structure

```
<CAR>
  <UserConnLimit>
    <ConnectionLimit>
      <Name></Name>
      <RateLimit></RateLimit>
      <NumLimit></NumLimit>
    </ConnectionLimit>
  </UserConnLimit>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserConnLimit
Table type	Multi-instance table
Row name	ConnectionLimit
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
RateLimit	Connection rate limit	N/A	Unsigned integer.	N/A
NumLimit	Connection count limit	N/A	Unsigned integer.	N/A

GTS/UserProfileGTS

This table contains GTS application on user profile.

XML structure

```
<GTS>
  <UserProfileGTS>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <Queue-length></Queue-length>
    </Apply>
  </UserProfileGTS>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	UserProfileGTS
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	direction		• **0**—Inbound. • **1**—Outbound.	
Type	Match type	Index	Enumeration: • **1—**Any • **4—**Queue	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **4**, the value range is 0 to 7. When **Type** is **1**, this column only can be configured as 0.
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value of this column depends on the device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model. If **CBS** or PIR is not configured, **EBS** cannot be configured
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value of this column depends on the device model.

HardwareQueue/UserProfileQMProfile

This table contains queue scheduling profile application on user profile.

XML structure

```
<HardwareQueue>
   <UserProfileQMProfile>
      <Apply>
         <UserProfileName></UserProfileName>
         <Direction></Direction>
         <SchedulingMode></SchedulingMode>
         <QMProfileName></QMProfileName>
      </Apply>
   </UserProfileQMProfile>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQMProfile
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: • **0**—Eight-queue. • **1—Four-queue.**	N/A
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

HardwareQueue/UserProfileQueue

This table contains queue application on user profile.

XML structure

```
<HardwareQueue>
   <UserProfileQueue>
      <Apply>
         <Name></Name>
         <QueueID></QueueID>
      </Apply>
   </UserProfileQueue>
```

```
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQueue
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
QueueID	Queue ID	N/A	Unsigned integer	The value of this column depends on the device model.

MQC/UserProfileQosPolicy

This table contains information about QoS policies applied to user profile.

XML structure

```
<MQC>
  <UserProfileQosPolicy>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <QoSPolicyName></QoSPolicyName>
    </Apply>
  </UserProfileQosPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	UserProfileQosPolicy
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
QoSPolicyName	Qos policy name	N/A	String. Length: 1 to 31 characters.	N/A

USERQOS/SessionIdentify

This table contains information about identify a session group on an interface.

XML structure

```
<USERQOS>
  <SessionIdentify>
    <Identify>
      <IfIndex></IfIndex>
      <Type></Type>
    </Identify>
  </SessionIdentify>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	SessionIdentify
Table type	Multi-instance table
Row name	Identify
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Type	Match type	N/A	Enumeration: • **1—Customer-VLAN** • **2—Service-VLAN** • **3—Customer-Service-VLAN** • **4—Subscriber-ID**	To configure a session group profile for users, you must first use the operation.

USERQOS/IfUserProfiles

This table contains information about a user profile applied to an interface.

XML structure

```
<USERQOS>
  <IfUserProfiles>
    <IfUserProfile>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Name></Name>
    </IfUserProfile>
  </IfUserProfiles>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS

Table name	IfUserProfiles
Table type	Multi-instance table
Row name	IfUserProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: **0**—Inbound. • **1**—Outbound. • **2**—None.	N/A
Name	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

USERQOS/UserProfileUserQueue

This table contains user queue scheduling parameters in a user profile.

XML structure

```
<USERQOS>
  <UserProfileUserQueue>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <LimitRate>
        <CIR></CIR>
        <CBS></CBS>
        <EBS></EBS>
        <PIR></PIR>
        <Queue-length></Queue-length>
      </LimitRate>
      <QMProfileName></QMProfileName>
      <UserGroupProfileName></UserGroupProfileName>
    </Apply>
```

```
  </UserProfileUserQueue>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	UserProfileUserQueue
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: **0**—Inbound. **1**—Outbound.	N/A
LimitRate	Limit rate	N/A	Members include: CIR CBS EBS PIR Queue-length	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value range for this column varies by device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value range for this column varies by device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value range for this column varies by device model. If the CBS or PIR is not configured, the EBS cannot be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value range for this column varies by device model.
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value range for this column varies by device model.
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
UserGroupProfileName	User group profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

USERQOS/TunnelUserProfiles

This table contains information about the user profile applied to a tunnel.

XML structure

```
<USERQOS>
  <TunnelUserProfiles>
    <TunnelUserProfile>
      <IfName></IfName>
      <Direction></Direction>
      <Name></Name>
    </TunnelUserProfile>
  </TunnelUserProfiles>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	TunnelUserProfiles
Table type	Multi-instance table
Row name	TunnelUserProfile
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **downstream**—The application direction is downstream.	N/A
Name	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

SQ/UserProfilePQ

This table contains information about the priority queue list applied to a user profile.

XML structure

```
<SQ>
  <UserProfilePQ>
    <PQL>
      <Name></Name>
      <PQLIndex></PQLIndex>
    </PQL>
  </UserProfilePQ>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	UserProfilePQ
Table type	Multi-instance table
Row name	PQL
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
PQLIndex	Priority queue list index	N/A	Unsigned integer. Value range: 1 to 16.	N/A

LR/UserProfileLR

This table contains information about rate limit applied to a user profile.

XML structure

```
<LR>
  <UserProfileLR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <PeerAdvertiseBandwidth></PeerAdvertiseBandwidth>
    </Apply>
  </UserProfileLR>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	UserProfileLR
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus (-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **outbound**—The application direction is outbound.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**. The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**. The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**. The value of this column depends on the device model. If **CBS** is not configured, **EBS** can not be configured
PIR	Peak information rate	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**. The value of this column depends on the device model.
PeerAdvertise Bandwidth	Use the bandwidth limit of the peer tunnel interface as the committed information rate	N/A	Boolean: • **true**—Yes. • **false**—No.	The CIR, CBS, EBS and PIR columns must be specified when the UsePeerBandwidth column is **false**.

Contents

UserProfile 1

UserProfile/UserProfiles 1
XML structure 1
Table description 1
Columns 1
ACL/UserProfilePfilter 2
XML structure 2
Table description 2
Columns 2
CAR/UserProfileCAR 3
XML structure 3
Table description 3
Columns 3
CAR/UserProfileCAREx 4
XML structure 4
Table description 4
Columns 5
CAR/UserConnLimit 5
XML structure 6
Table description 6
Columns 6
CAR/UserConnInfo 6
XML structure 7
Table description 7
Columns 7
GTS/UserProfileGTS 7
XML structure 8
Table description 8
Columns 8
HardwareQueue/UserProfileQMProfile 9
XML structure 9
Table description 9
Columns 10
HardwareQueue/UserProfileQueue 10
XML structure 10
Table description 10
Columns 11
MQC/UserProfileQosPolicy 11
XML structure 11
Table description 11
Columns 11
MQC/QoSPolicyCAR 12
XML structure 12
Table description 13
Columns 13
MQC/QoSPolicyAccount 17
XML structure 17
Table description 17
Columns 18
USERQOS/SessionIdentify 18
XML structure 18
Table description 19
Columns 19
USERQOS/Users 19
XML structure 19
Table description 20
Columns 20

USERQOS/IfUserProfiles 22
XML structure 23
Table description 23
Columns 23
USERQOS/IfUserProfileStatus 24
XML structure 24
Table description 24
Columns 25
USERQOS/IfUserProfileStatistics 26
XML structure 26
Table description 27
Columns 27
USERQOS/UserProfileUserQueue 28
XML structure 28
Table description 29
Columns 29
USERQOS/TunnelUserProfiles 30
XML structure 30
Table description 30
Columns 31
SQ/UserProfilePQ 31
XML structure 31
Table description 31
Columns 32
LR/UserProfileLR 32
XML structure 32
Table description 32
Columns 33

UserProfile

UserProfile/UserProfiles

This table contains user profile information.

XML structure

```
<UserProfile>
  <UserProfiles>
    <Profile>
      <Name></Name>
      <Type></Type>
    </Profile>
  </UserProfiles>
</UserProfile>
```

Table description

Item	Description
Feature name	UserProfile
Table name	UserProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Type	User profile type	N/A	Enumeration: • **1**—User profile. • **2**—Session group profile.	N/A

ACL/UserProfilePfilter

This table contains information about packet filter application for user profile.

XML structure

```
<ACL>
  <UserProfilePfilter>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <AclType></AclType>
      <AclGroup></AclGroup>
    </Apply>
  </UserProfilePfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserProfilePfilter
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction.	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
AclType	ACL type.	N/A	Enumeration: • **1**—IPv4 ACL. • **2**—IPv6 ACL.	N/A
AclGroup	ACL name or	N/A	• **ACL name:** Case-insensitive string of	An ACL name must start with an English letter and

Column name	Column description	Column type	Data type and restrictions	Remarks
	number.		1 to 63 characters. • **ACL number**: An unsigned integer in the range of 2000 to 3999.	cannot be **all**.

CAR/UserProfileCAR

This table contains information about user profile CAR.

XML structure

```
<CAR>
  <UserProfileCAR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAR>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAR
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration: • Any	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	N/A
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	N/A
PIR	Peak information rate in kbps	N/A	Unsigned integer.	N/A

CAR/UserProfileCAREx

This table contains information about user profile CAR.

XML structure

```
<CAR>
  <UserProfileCAREx>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAREx>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAREx
Table type	Multi-instance table

Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus signs (-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration: • **1**—IPv4Acl • **2**—IPv6Acl • **4**—Any	N/A
Value	Match type value	Index	Unsigned integer.	When **Type** is **1**, the value is 2000 to 5999. When **Type** is **2**, the value is 2000 to 3999. When **Type** is **4**, this column only can be configured as 0.
CIR	Committed information rate in kbps	N/A	Unsigned integer.	N/A
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	N/A
PIR	Peak information rate in kbps	N/A	Unsigned integer.	N/A

CAR/UserConnLimit

This table contains connection limits for a user profile.

XML structure

```
<CAR>
  <UserConnLimit>
    <ConnectionLimit>
      <Name></Name>
      <RateLimit></RateLimit>
      <NumLimit></NumLimit>
    </ConnectionLimit>
  </UserConnLimit>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserConnLimit
Table type	Multi-instance table
Row name	ConnectionLimit
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
RateLimit	Connection rate limit	N/A	Unsigned integer.	N/A
NumLimit	Connection count limit	N/A	Unsigned integer.	N/A

CAR/UserConnInfo

This table contains information about the connections of users.

XML structure

```
<CAR>
  <UserConnInfo>
    <ConnectionInfo>
      <UserID></UserID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Uplink></Uplink>
      <Downlink></Downlink>
    </ConnectionInfo>
  </UserConnInfo>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	UserConnInfo
Table type	Multi-instance table
Row name	ConnectionInfo
Restrictions	None
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer.	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
Uplink	Total uplink connections	N/A	Unsigned integer.	N/A
Downlink	Total downlink connections	N/A	Unsigned integer.	N/A

GTS/UserProfileGTS

This table contains information about user profile GTS.

XML structure

```
<GTS>
  <UserProfileGTS>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <Queue-length></Queue-length>
    </Apply>
  </UserProfileGTS>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	UserProfileGTS
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
Type	Match type	Index	Enumeration: • **1—**Any • **4—**Queue	N/A
Value	Match type value	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CIR	Committed information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value of this column depends on the device model.

HardwareQueue/UserProfileQMProfile

This table contains queue scheduling profile application on user profile.

XML structure

```
<HardwareQueue>
   <UserProfileQMProfile>
      <Apply>
         <UserProfileName></UserProfileName>
         <Direction></Direction>
         <SchedulingMode></SchedulingMode>
         <QMProfileName></QMProfileName>
      </Apply>
   </UserProfileQMProfile>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQMProfile
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: • **0**—Eight-queue. • **1—**Four-queue**.**	N/A
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

HardwareQueue/UserProfileQueue

This table contains user profile queue information.

XML structure

```
<HardwareQueue>
   <UserProfileQueue>
      <Apply>
         <Name></Name>
         <QueueID></QueueID>
      </Apply>
   </UserProfileQueue>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQueue
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
QueueID	Queue ID	N/A	Unsigned integer	N/A

MQC/UserProfileQosPolicy

This table contains information about QoS policies applied to user profile.

XML structure

```
<MQC>
  <UserProfileQosPolicy>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <QoSPolicyName></QoSPolicyName>
    </Apply>
  </UserProfileQosPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	UserProfileQosPolicy
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters,

Column name	Column description	Column type	Data type and restrictions	Remarks
				digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
QoSPolicyName	Qos policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/QoSPolicyCAR

This table contains information about CAR association running information applied to users.

XML structure

```
<MQC>
  <QoSPolicyCAR>
    <UserCar>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
```

```
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </UserCar>
  </QoSPolicyCAR>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	QoSPolicyCAR
Table type	Multi-instance table
Row name	UserCar
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	Authentiction type	Index	Enumeration: • **0**—Dot1x • **1**—Portal • **2**—ppp • **3**—IPOE • **4**—IPOE6 • **5**—MACA • **6**—WLAN	N/A
UserID	UserID	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: • GreenActionType. • GreenActionValue.	
GreenActionType	Green action type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **GreenActionType** is **1**, send the packet. When **GreenActionType** is **2**, remark DSCP value of the packet and send it. When **GreenActionType** is **3**, remark IP precedence of the packet and send it. When **GreenActionType** is **4**, remark EXP of the MPLS packet and send it. When **GreenActionType** is **5**, remark 802.1p priority value of the packet and send it. When **GreenActionType** is **6**, remark CLP bit of the ATM packet and send it. When **GreenActionType** is **7**, remark DE bit of the FR packet and send it. When **GreenActionType** is **8**, remark local precedence of the packet and send it. When **GreenActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green action value	N/A	Unsigned integer.	When **GreenActionType** is **1, 10** or 19, **GreenActionValue** is invisible. When **GreenActionType** is 6 or 7, **GreenActionValue** is 0 to 1. When **GreenActionType** is **2**, **GreenActionValue** is 0 to 63. When **GreenActionType** is **3**, **4**, **5**, **8,**

Column name	Column description	Column type	Data type and restrictions	Remarks
				GreenActionValue is 0 to 7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • **YellowActionType**. • **YellowActionValue**.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **YellowActionType** is **1**, send the packet. When **YellowActionType** is **2**, remark DSCP value of the packet and send it. When **YellowActionType** is **3**, remark IP precedence of the packet and send it. When **YellowActionType** is **4**, remark EXP of the MPLS packet and send it. When **YellowActionType** is **5**, remark 802.1p priority value of the packet and send it. When **YellowActionType** is **6**, remark CLP bit of the ATM packet and send it. When **YellowActionType** is **7**, remark DE bit of the FR packet and send it. When **YellowActionType** is **8**, remark local precedence of the packet and send it. When **YellowActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When **YellowActionType** is **1, 10** or 19, **YellowActionValue** is invisible. When **YellowActionType** is 6 or 7, **YellowActionValue** is 0 to 1. When **YellowActionType** is **2**, **YellowActionValue** is 0 to 63. When **YellowActionType** is **3**, **4**, **5**, **8,** **YellowActionValue** is 0 to 7.
RedAction	Specify behavior for red packets	Data structure	Members include: • **RedActionType**. • **RedActionValue**.	

Column name	Column description	Column type	Data type and restrictions	Remarks
RedActionType	Red Action Type	N/A	Enumeration: • **1**—pass. • **2**—remark-dscp-pass. • **3**—remark-prec-pass. • **4**—remark-mpls-exp-pass. • **5**—remark-dot1p-pass. • **6**—remark-atm-clp-pass. • **7**—remark-frde-pass. • **8**—remark-local-prec-pass. • **10**—discard. • **19**—continue.	When **RedActionType** is **1**, send the packet. When **RedActionType** is **2**, remark DSCP value of the packet and send it. When **RedActionType** is **3**, remark IP precedence of the packet and send it. When **RedActionType** is **4**, remark EXP of the MPLS packet and send it. When **RedActionType** is **5**, remark 802.1p priority value of the packet and send it. When **RedActionType** is **6**, remark CLP bit of the ATM packet and send it. When **RedActionType** is **7**, remark DE bit of the FR packet and send it. When **RedActionType** is **8**, remark local precedence of the packet and send it. When **RedActionType** is **10**, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When **RedActionType** is **1, 10 or 19**, **RedActionValue** is invisible. When **RedActionType** is 6 or 7, **RedActionValue** is 0 to 1. When **RedActionType** is **2**, **RedActionValue** is 0 to 63. When **RedActionType** is **3**, **4**, **5**, **8, RedActionValue** is 0 to 7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

MQC/QoSPolicyAccount

This table contains information about accounting running information applied to user.

XML structure

```
<MQC>
  <QoSPolicyAccount>
    <UserAccount>
      <DeviceNode>
       <Chassis></Chassis>
       <Slot></Slot>
       <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </UserAccount>
  </QoSPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	QoSPolicyAccount
Table type	Multi-instance table
Row name	UserAccount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	AuthType	Index	Enumeration : • **0**—Dot1x • **1**—Portal • **2**—ppp • **3**—IPOE • **4**—IPOE6 • **5**—MACA • **6**—WLAN	N/A
UserID	UserID	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

USERQOS/SessionIdentify

This table contains information about identify a session group on an interface.

XML structure

```
<USERQOS>
  <SessionIdentify>
    <Identify>
      <IfIndex></IfIndex>
      <Type></Type>
```

```
      <IfName></IfName>
    </Identify>
  </SessionIdentify>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	SessionIdentify
Table type	Multi-instance table
Row name	Identify
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Type	Match type	N/A	Enumeration: • **1**—Customer-VLAN • **2**—Service-VLAN • **3**—Customer-Service-VLAN • **4**—Subscriber-ID	To configure a session group profile for users, you must first use the operation.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

USERQOS/Users

This table contains information about the status of QOS on user.

XML structure

```
<USERQOS>
  <Users>
    <User>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
```

```
      <UserProfileName></UserProfileName>
      <InUserCAR></InUserCAR>
      <OutUserCAR></OutUserCAR>
      <InUserQoSPolicy></InUserQoSPolicy>
      <OutUserQoSPolicy></OutUserQoSPolicy>
      <InUserGTS></InUserGTS>
      <OutUserGTS></OutUserGTS>
      <InUserPfilter></InUserPfilter>
      <OutUserPfilter></OutUserPfilter>
      <OutUserQueue></OutUserQueue>
      <SessionGroupProfileName></SessionGroupProfileName>
      <InGroupCAR></InGroupCAR>
      <OutGroupCAR></OutGroupCAR>
      <InGroupQmprofile></InGroupQmprofile>
      <OutGroupQmprofile></OutGroupQmprofile>
      <InGroupGTS></InGroupGTS>
      <OutGroupGTS></OutGroupGTS>
    </User>
  </Users>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	AuthType	Index	Enumeration : • **0**—Dot1x • **1**—Portal • **2**—ppp • **3**—IPOE • **4**—IPOE6	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **5**—MACA • **6**—WLAN • **7**—VPN-PEER • **8**—WEB • **9**—MPLSTE • **10**—UCM	
UserID	UserID	Index	Unsigned integer.	N/A
UserProfileName	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
InUserCAR	The status of inbound CAR on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutUserCAR	The status of outbound CAR on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
InUserQoSPolicy	The status of inbound Policy on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutUserQoS Policy	The status of outbound Policy on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
InUserGTS	The status of inbound GTS on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutUserGTS	The status of outbound GTS on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
InUserPfilter	The status of inbound packter filter on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutUserPfilter	The status of outbound packter filter on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—inactive	
OutUserQueue	The status of queue on user profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
SessionGroupProfileName	Session group profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
InGroupCAR	The status of inbound CAR on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutGroupCAR	The status of outbound CAR on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
InGroupQmprofile	The status of inbound qmprofile on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutGroupQmprofile	The status of outbound qmprofile on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
InGroupGTS	The status of inbound GTS on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A
OutGroupGTS	The status of outbound GTS on session group profile	N/A	Enumeration : • **1**—no configuration • **2**—active • **3**—inactive	N/A

USERQOS/IfUserProfiles

This table contains information about a user profile applied to an interface.

XML structure

```
<USERQOS>
  <IfUserProfiles>
    <IfUserProfile>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Name></Name>
      <IfName></IfName>
    </IfUserProfile>
  </IfUserProfiles>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	IfUserProfiles
Table type	Multi-instance table
Row name	IfUserProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—None.	N/A
Name	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

USERQOS/IfUserProfileStatus

This table contains status information about settings of the user profile applied to an interface.

XML structure

```
<USERQOS>
  <IfUserProfileStatus>
    <Status>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Direction></Direction>
      <UserProfileName></UserProfileName>
      <InUserCAR></InUserCAR>
      <OutUserCAR></OutUserCAR>
      <InUserQoSPolicy></InUserQoSPolicy>
      <OutUserQoSPolicy></OutUserQoSPolicy>
      <InUserGTS></InUserGTS>
      <OutUserGTS></OutUserGTS>
      <OutUserQueue></OutUserQueue>
      <InUserQmprofile></InUserQmprofile>
      <OutUserQmprofile></OutUserQmprofile>
      <QosUserQueue>
        <InLimitRate></InLimitRate>
        <OutLimitRate></OutLimitRate>
        <InQmprofile></InQmprofile>
        <OutQmprofile></OutQmprofile>
      </QosUserQueue>
    </Status>
  </IfUserProfileStatus>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	IfUserProfileStatus
Table type	Multi-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound. • **2**—None.	N/A
UserProfileName	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
InUserCAR	The status of inbound CAR	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutUserCAR	The status of outbound CAR	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
InUserQoSPolicy	The status of inbound QoS policy	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutUserQoSPolicy	The status of outbound QoS policy	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
InUserGTS	The status of inbound GTS	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutUserGTS	The status of outbound GTS	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutUserQueue	The status of queue	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InUserQmprofile	The status of inbound queue scheduling profile	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutUserQmprofile	The status of outbound queue scheduling profile	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
QosUserQueue	UserQueue	N/A	Members include: InLimitRate OutLimitRate InQmprofile OutQmprofile	N/A
InLimitRate	The status of inbound limit rate	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutLimitRate	The status of outbound limit rate	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
InQmprofile	The status of inbound queue scheduling profile	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A
OutQmprofile	The status of outbound queue scheduling profile	N/A	Enumeration : • **1**—Not configured • **2**—Effective • **3**—Ineffective	N/A

USERQOS/IfUserProfileStatistics

This table contains statistics of the user profile applied to an interface.

XML structure

```
<USERQOS>
  <IfUserProfileStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Direction></Direction>
      <UserProfileName></UserProfileName>
      <CAR>
        <GreenActionType></GreenActionType>
        <YellowActionType></YellowActionType>
```

```
      <RedActionType></RedActionType>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </CAR>
  </Statistics>
 </IfUserProfileStatistics>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	IfUserProfileStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **0**—Inbound. • **1**—Outbound.	N/A
UserProfileName	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
CAR	Car	N/A	Members include: GreenActionType YellowActionType RedActionType GreenPkts GreenBytes	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			YellowPkts YellowBytes RedPkts RedBytes	
GreenActionType	Green action type	N/A	Enumeration: • **1**—pass. • **2**—discard	N/A
YellowActionType	Yellow action type	N/A	Enumeration: • **1**—pass. • **2**—discard	N/A
RedActionType	Red action type	N/A	Enumeration: • **1**—pass. • **2**—discard	N/A
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

USERQOS/UserProfileUserQueue

This table contains information about user queue scheduling parameters in a user profile.

XML structure

```
<USERQOS>
  <UserProfileUserQueue>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <LimitRate>
        <CIR></CIR>
        <CBS></CBS>
        <EBS></EBS>
        <PIR></PIR>
```

```
      <Queue-length></Queue-length>
    </LimitRate>
    <QMProfileName></QMProfileName>
    <UserGroupProfileName></UserGroupProfileName>
  </Apply>
 </UserProfileUserQueue>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	UserProfileUserQueue
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: **0**—Inbound. **1**—Outbound.	N/A
LimitRate	Limit rate	N/A	Members include: CIR CBS EBS PIR Queue-length	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	The value range for this column varies by device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value range for this column varies by device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value range for this column varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value range for this column varies by device model.
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value range for this column varies by device model.
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
UserGroupProfileName	User group profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

USERQOS/TunnelUserProfiles

This table contains information about auser profile applied to a tunnel.

XML structure

```
<USERQOS>
  <TunnelUserProfiles>
    <TunnelUserProfile>
      <IfName></IfName>
      <Direction></Direction>
      <Name></Name>
    </TunnelUserProfile>
  </TunnelUserProfiles>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	TunnelUserProfiles
Table type	Multi-instance table
Row name	TunnelUserProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Direction	Application direction	Index	Enumeration: • **downstream**—The application direction is downstream.	N/A
Name	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

SQ/UserProfilePQ

This table contains information about priority queue applied to user profile.

XML structure

```
<SQ>
  <UserProfilePQ>
    <PQL>
      <Name></Name>
      <PQLIndex></PQLIndex>
    </PQL>
  </UserProfilePQ>
</SQ>
```

Table description

Item	Description
Feature name	SQ
Table name	UserProfilePQ
Table type	Multi-instance table
Row name	PQL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
PQLIndex	Priority queue list index	N/A	Unsigned integer. Value range: 1 to 16.	N/A

LR/UserProfileLR

This table contains information about line-rate applied to user profile.

XML structure

```
<LR>
  <UserProfileLR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <PeerAdvertiseBandwidth></PeerAdvertiseBandwidth>
    </Apply>
  </UserProfileLR>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	UserProfileLR
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), minus(-), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • **outbound**—The application direction is outbound.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**.The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**.The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**.The value of this column depends on the device model. If **CBS** is not configured, **EBS** can not be configured
PIR	Peak information rate	N/A	Unsigned integer.	It must be empty when the UsePeerBandwidth column is **true**.The value of this column depends on the device model.
PeerAdvertise Bandwidth	Using downstream bandwidth of the tunnel peer as committed information rate	N/A	Boolean: • **true**—Yes. • **false**—No.	The CIR, CBS, EBS and PIR columns must be specified when the UsePeerBandwidth column is **false**.

Contents

UserProfile 1
UserProfile/Base 1
UserProfile/Gts 1
UserProfile/Userqos 1

UserProfile

UserProfile/Base

Message	Explanation
Number of user profiles and session group profiles exceeded the limit. User Profile 数和Session Group Profile 数已经达到上限。	When create, the number of user profiles and session group profiles exceeded the limit. 配置 User Profile 和 Session Group Profile 时 User Profile 数和 Session Group Profile 数已经达到上限
The profile name has been used by another type of profile. 该配置模板名已经被另一类型的配置模板引用。	When create, the profile name has been used by another type of profile. 创建模板时，模板名称已被占用。
The session group profile not support. 不支持Session Group Profile。	The session group profile not support. 不支持配置Session Group Profile。
The profile has been applied on interface. Can't be deleted. User Profile已应用于接口，无法删除。	The profile has been applied on interface. Can't be deleted. User Profile已应用于接口，无法删除。

UserProfile/Gts

Message	Explanation
The operation conflicts with some existing configurations. 该操作与已经存在的配置发生冲突。	The operation conflicts with some existing configurations, such as GTS. 配置 GTS 与队列调度策略冲突。
PIR should not be smaller than CIR. PIR不能小于CIR.	PIR should not be smaller than CIR. 流量整形动作峰值速率不能小于承诺信息速率。

UserProfile/Userqos

Message	Explanation
The specified user profile doesn't exist. User Profile不存在。	The specified user profile doesn't exist. User Profile 不存在。
Another user profile has already been applied. Please remove the existing user profile from the interface before applying a new user profile. 已有一个User Profile被应用。请在应用新User Profile前移除已应用的User Profile。	Another user profile has already been applied. Please remove the existing user profile from the interface before applying a new user profile. 已有一个User Profile被应用。请在应用新User Profile前移除已应用的User Profile。
The specified profile can't be applied to the interface because of the unsupported profile type. 不支持应用此类型的profile。	The specified profile can't be applied to the interface because of the unsupported profile type. 不支持应用此类型的profile。

The maximum number of user profiles allowed for the interface was already reached. 接口上应用User Profile的总量已达上限。	The maximum number of user profiles allowed for the interface was already reached. 接口上应用User Profile的总量已达上限。
All or some of the settings in the user profile fail to be applied. User Profile中的配置应用失败。	All or some of the settings in the user profile fail to be applied. User Profile中的配置应用失败。

Contents

V2VTunnel 1
V2VTunnel/Tunnel 1
XML structure 1
Table description 1
Columns 1
V2VTunnel/FrameType 2
XML structure 2
Table description 2
Columns 2
V2VTunnel/SpecIfMode 2
XML structure 3
Table description 3
Columns 3

V2VTunnel

V2VTunnel/Tunnel

This table contains information about V2V tunnels.

XML structure

```
<V2VTunnel>
  <Tunnel>
    <Tunnels>
      <VsiName></VsiName>
      <ClientID></ClientID>
      <MacAddress></MacAddress>
      <ServerID></ServerID>
      <ServerDescription></ServerDescription>
    </Tunnels>
  </Tunnel>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	Tunnel
Table type	Multi-instance table
Row name	Tunnels
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientID	V2V virtual terminal access ID	N/A	Unsigned integer. Value range:1 to 99999.	N/A
MacAddress	V2V virtual terminal MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example:00-0c-af-e3-5d-c0.
ServerID	V2V virtual	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	terminal convergence ID		Value range:1 to 99999.	
ServerDescription	Service name	N/A	String. Length: 1 to 31 characters.	N/A

V2VTunnel/FrameType

This table contains information about the V2V tunnel frame type.

XML structure

```
<V2VTunnel>
  <FrameType>
    <IsArpFrameType></IsArpFrameType>
  </FrameType>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	FrameType
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsArpFrameType	V2V tunnel frame type	N/A	Boolean: • true—ARP • false—IP (default)	N/A

V2VTunnel/SpecIfMode

This table contains information about the interface link type.

XML structure

```
<V2VTunnel>
  <SpecIfMode>
    <SpecIfModes>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </SpecIfModes>
  </SpecIfMode>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	SpecIfMode
Table type	Multi-instance table
Row name	SpecIfModes
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For moreinformation, see the XSD document for your product. For information about IfIndex, see the Appendix in *Ifmgr NETCONF XML API Configuration Reference*.
LinkMode	Interface link type	N/A	Enumeration: • 1—Uplink interface. • 2—Downlink interface.	N/A

Contents

V2VTunnel 1
V2VTunnel/Tunnel 1
XML structure 1
Table description 1
Columns 1
V2VTunnel/FrameType 2
XML structure 2
Table description 2
Columns 2
V2VTunnel/SpecIfMode 2
XML structure 3
Table description 3
Columns 3

V2VTunnel

V2VTunnel/Tunnel

This table contains information about V2V tunnels.

XML structure

```
<V2VTunnel>
  <Tunnel>
    <Tunnels>
      <VsiName></VsiName>
      <ClientID></ClientID>
      <MacAddress></MacAddress>
      <ServerID></ServerID>
      <ServerDescription></ServerDescription>
      <LinkStatus></LinkStatus>
    </Tunnels>
  </Tunnel>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	Tunnel
Table type	Multi-instance table
Row name	Tunnels
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientID	V2V virtual terminal access ID	N/A	Unsigned integer. Value range: 1 to 99999.	N/A
MacAddress	V2V virtual terminal MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example:00-0c-af-e3-5d-c0.
ServerID	V2V virtual terminal	N/A	Unsigned integer. Value range: 1 to 99999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	convergence ID			
ServerDescription	Service name	N/A	String. Length: 1 to 31 characters.	N/A
LinkStatus	Link status	N/A	Boolean: • true—connected. • false—disconnected.	N/A

V2VTunnel/FrameType

This table contains information about V2Vtunnel frame type.

XML structure

```
<V2VTunnel>
  <FrameType>
    <IsArpFrameType></IsArpFrameType>
  </FrameType>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	FrameType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsArpFrameType	V2V tunnel frame type	N/A	Boolean: • true—ARP. • false—IP.	N/A

V2VTunnel/SpecIfMode

This table contains information about the interface link type.

XML structure

```
<V2VTunnel>
  <SpecIfMode>
    <SpecIfModes>
      <IfIndex></IfIndex>
      <LinkMode></LinkMode>
    </SpecIfModes>
  </SpecIfMode>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	SpecIfMode
Table type	Multi-instance table
Row name	SpecIfModes
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For moreinformation, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
LinkMode	Link type	N/A	Enumeration: • 1—Uplink interface. • 2—Downlinkinterface.	N/A

Contents

CFD 1

CFD/Y1731Statistics 1
XML structure 1
Table description 2
Columns 2
CFD/Y1731Statistics/DmTwoways 3
XML structure 3
Table description 3
Columns 3
CFD/Y1731Statistics/DmTwoways/MepIDs 3
XML structure 3
Table description 3
Columns 4
CFD/Y1731Statistics/Slms 4
XML structure 4
Table description 4
Columns 5
CFD/Y1731Statistics/Slms/MepIDs 5
XML structure 5
Table description 5
Columns 5
CFD/Y1731Statistics/Dlms 6
XML structure 6
Table description 6
Columns 6
CFD/Y1731Statistics/Dlms/MepIDs 7
XML structure 7
Table description 7
Columns 7

CFD

CFD/Y1731Statistics

This table contains CFD Statistics information.

XML structure

```
<CFD>
  <Y1731Statistics>
    <DmTwoways>
      <DmTwoway>
        <ServiceInstance></ServiceInstance>
        <MepIDs>
          <MepID>
            <MepID></MepID>
            <DelayStatistics>
              <TestIndex></TestIndex>
              <Delay></Delay>
              <DelayVar></DelayVar>
            </DelayStatistics>
            <AverageDelay></AverageDelay>
            <AverageDelayVar></AverageDelayVar>
          </MepID>
        </MepIDs>
      </DmTwoway>
    </DmTwoways>
    <Slms>
      <Slm>
        <ServiceInstance></ServiceInstance>
        <MepIDs>
          <MepID>
            <MepID></MepID>
            <LossStatistics>
              <TestIndex></TestIndex>
              <FarEndLoss></FarEndLoss>
              <FarEndLossRate></FarEndLossRate>
              <NearEndLoss></NearEndLoss>
              <NearEndLossRate></NearEndLossRate>
            </LossStatistics>
            <FarEndLossAverage></FarEndLossAverage>
            <FarEndLossAverageRate></FarEndLossAverageRate>
            <NearEndLossAverage></NearEndLossAverage>
            <NearEndLossAverageRate></NearEndLossAverageRate>
          </MepID>
        </MepIDs>
```

```
    </Slm>
  </Slms>
  <Dlms>
    <Dlm>
      <ServiceInstance></ServiceInstance>
      <MepIDs>
        <MepID>
          <MepID></MepID>
          <LossStatistics>
            <TestIndex></TestIndex>
            <FarEndLoss></FarEndLoss>
            <FarEndLossRate></FarEndLossRate>
            <NearEndLoss></NearEndLoss>
            <NearEndLossRate></NearEndLossRate>
          </LossStatistics>
          <FarEndLossAverage></FarEndLossAverage>
          <FarEndLossAverageRate></FarEndLossAverageRate>
          <NearEndLossAverage></NearEndLossAverage>
          <NearEndLossAverageRate></NearEndLossAverageRate>
        </MepID>
      </MepIDs>
    </Dlm>
  </Dlms>
 </Y1731Statistics>
</CFD>
```

Table description

Item	Description
Feature name	CFD
Table name	Y1731Statistics
Table type	Single-instance table
Row name	N/A
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
DmTwoways	DmTwoways table	Sublist	N/A
Slms	Slms table	Sublist	N/A
Dlms	Dlms table	Sublist	N/A

CFD/Y1731Statistics/DmTwoways

This table contains two-way DM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	DmTwoways
Table type	Multi-instance table
Row name	DmTwoway
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/DmTwoways/MepIDs

This table contains two-way DM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	Index	Unsigned short. **Value range:1 to 8191**.
DelayStatistics	N/A	Data structure	Members include: • TestIndex. • Delay. • DelayVar.
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
Delay	Specify delay time in us	N/A	Unsigned integer: **Length: 64 bits.**
DelayVar	Specify delay time variation in us	N/A	Unsigned integer: **Length: 64 bits.**
AverageDelay	Specify average delay time in us	N/A	Unsigned integer: **Length: 64 bits.**
AverageDelayVar	Specify average delay time variation in us	N/A	Unsigned integer: **Length: 64 bits.**

CFD/Y1731Statistics/Slms

This table contains SLM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	Slms
Table type	Multi-instance table
Row name	Slm
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/Slms/MepIDs

This table contains SLM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	Index	Unsigned short. **Value range:1 to 8191**.
LossStatistics	N/A	Data structure	Members include: • TestIndex. • FarEndLoss • NearEndLoss • FarEndLossRate • NearEndLossRate
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
FarEndLoss	Specify packet loss on the target MEP	N/A	Unsigned integer: **Length: 32 bits**
NearEndLoss	Specify packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**

Column name	Column description	Column type	Data type and restrictions
FarEndLossRate	Specify packet loss rate on the target MEP	N/A	String
NearEndLossRate	Specify packet loss rate on the source MEP	N/A	String
FarEndLossAverage	Specify average packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**
NearEndLossAverage	Specify average packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossAverageRate	Specify average packet loss rate on the target MEP	N/A	String
NearEndLossAverageRate	Specify average packet loss rate on the source MEP	N/A	String

CFD/Y1731Statistics/Dlms

This table contains DLM information.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	Dlms
Table type	Multi-instance table
Row name	Dlm
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceInstance	Specify a service instance	index	Unsigned integer: **Value range:1 to 32767**
MepIDs	MEP ID	Sublist	N/A

CFD/Y1731Statistics/Dlms/MepIDs

This table contains DLM information for a MEP.

XML structure

Please refer to the XML structure of Y1731Statistics.

Table description

Item	Description
Feature name	CFD
Table name	MepIDs
Table type	Multi-instance table
Row name	MepID
Restrictions	NO

Columns

Column name	Column description	Column type	Data type and restrictions
MepID	Specify a MEP	index	Unsigned short. **Value range:1 to 8191**.
LossStatistics	N/A	Data structure	Members include: • TestIndex. • FarEndLoss • NearEndLoss • FarEndLossRate • NearEndLossRate
TestIndex	Specify a test index	N/A	Unsigned integer: **Length:32bits**
FarEndLoss	Specify packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**
NearEndLoss	Specify packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossRate	Specify packet loss rate on the target MEP	N/A	String
NearEndLossRate	Specify packet loss rate on the source MEP	N/A	String
FarEndLossAverage	Specify average packet loss on the target MEP	N/A	Unsigned integer: **Length:32bits**

Column name	Column description	Column type	Data type and restrictions
NearEndLossAverage	Specify average packet loss on the source MEP	N/A	Unsigned integer: **Length:32bits**
FarEndLossAverageRate	Specify average packet loss rate on the target MEP	N/A	String
NearEndLossAverageRate	Specify average packet loss rate on the source MEP	N/A	String

Contents

NAT 1
NAT/GlobalPolicyRuleMove 1
XML structure 1
Table description 1
Columns 1
NAT/ResetGlobalPolicyRuleCount 2
XML structure 2
Table description 2
Columns 2

NAT

NAT/GlobalPolicyRuleMove

This table modifies the NAT global policy rule order.

XML structure

```
<NAT>
  <GlobalPolicyRuleMove>
    <Rule>
      <SrcRuleName></SrcRuleName>
      <DstRuleName></DstRuleName>
      <Direction></Direction>
    </Rule>
  </GlobalPolicyRuleMove>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleMove
Table type	Muitl-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcRuleName	Policy rule to be moved	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstRuleName	Reference policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	This column can be null.
Direction	Move the rule to before or after the reference rule	Index	Boolean: • **true**—After. • **false**—Before.	If the direction is false and the DstRulename is null, the srcRuleName is moved to the very beginning of all rules. If the direction is true and the

Column name	Column description	Column type	Data type and restrictions	Remarks
				DstRulename is null, the srcRuleName is moved to the end of all rules.

NAT/ResetGlobalPolicyRuleCount

This table clears the NAT global policy rule count.

XML structure

```
<NAT>
  <ResetGlobalPolicyRuleCount>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ResetGlobalPolicyRuleCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetGloaalPolicyRuleCount
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Contents

NAT 1
NAT/NatGlobalPolicy 1
XML structure 1
Table description 1
Columns 1
NAT/GlobalPolicyRules 1
XML structure 1
Table description 2
Columns 2
NAT/GlobalPolicyRuleMembers 2
XML structure 2
Table description 3
Columns 4
NAT/GlobalPolicyRuleSrcObj 9
XML structure 9
Table description 9
Columns 10
NAT/GlobalPolicyRuleDstObj 11
XML structure 11
Table description 11
Columns 12
NAT/GlobalPolicyRuleSrvObj 13
XML structure 13
Table description 13
Columns 14
NAT/GlobalPolicyName 14
XML structure 14
Table description 14
Columns 15

NAT

NAT/NatGlobalPolicy

This table contains information about NAT global policy.

XML structure

```
<NAT>
  <NatGlobalPolicy>
   <Policy></Policy>
  </NatGlobalPolicy>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatGlobalPolicy
Table type	Single -instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Whether enable NATglobal policy	N/A	Boolean: • true—YES false—NO(default)	N/A

NAT/GlobalPolicyRules

This table contains information about NAT global policy rules.

XML structure

```
<NAT>
  <GlobalPolicyRules>
    <Rule>
      <RuleName></RuleName>
      <RuleType></RuleType>
    </Rule>
```

```
  </GlobalPolicyRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleType	Type of the NAT global policy rule	N/A	Enumeration: • **0**—NAT44. • **1**—NAT64. • **2**—NAT66	N/A

NAT/GlobalPolicyRuleMembers

This table contains information about the NAT global policy rule members.

XML structure

```
<NAT>
  <GlobalPolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <Description></Description>
      <TransMode></TransMode>
      <SrcZoneList>
        <SrcZone></SrcZone>
      </SrcZoneList>
      <DstZoneList>
        <DstZone></DstZone>
      </DstZoneList>
      <TransSrcType></TransSrcType>
```

```
      <TransSrcAddrType></TransSrcAddrType>
      <TransAddrGroupNumber></TransAddrGroupNumber>
      <TransAddrGroupName></TransAddrGroupName>
      <TransSrcIP></TransSrcIP>
      <TransSrcSubnetAddr></TransSrcSubnetAddr>
      <TransSrcSubnetMaskLength></TransSrcSubnetMaskLength>
      <TransSrcObjName></TransSrcObjName>
      <TransSrcIPv6></TransSrcIPv6>
      <TransSrcIPv6ObjName></TransSrcIPv6ObjName>
      <TransSrcIPv6Prefix></TransSrcIPv6Prefix>
      <TransSrcIPv6PrefixLength></TransSrcIPv6PrefixLength>
      <TransReversible></TransReversible>
      <TransPortPreserved></TransPortPreserved>
      <TransDstType></TransDstType>
      <TransDstIP></TransDstIP>
      <TransDstObjName></TransDstObjName>
      <TransDstPort></TransDstPort>
      <TransDstPortRangeList>
        <TransDstStartPort></TransDstStartPort>
        <TransDstEndPort></TransDstEndPort>
      </TransDstPortRangeList>
      <StaticDnat></StaticDnat>
      <TransDstIPv6></TransDstIPv6>
      <TransDstIPv6Prefix></TransDstIPv6Prefix>
      <TransDstIPv6PrefixLength></TransDstIPv6PrefixLength>
      <Disable></Disable>
      <Counting></Counting>
      <VRID></VRID>
      <SrcVRID></SrcVRID>
      <DstVRID></DstVRID>
      <InVrfName></InVrfName>
      <SnatOutVrfName></SnatOutVrfName>
      <DnatOutVrfName></DnatOutVrfName>
    </Rule>
  </GlobalPolicyRuleMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleMembers
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String. Length: 1 to 63 characters.	N/A
RuleType	Type of the NAT global policy rule	N/A	Enumeration: • **0**—NAT44. • **1**—NAT64. • **2**—NAT66.	N/A
Description	Rule description	N/A	String. Length: 1 to 63 characters.	N/A
TransMode	Translation mode on packets matching the rule	N/A	Enumeration • **0**—SNAT. • **1**—DNAT. • **2**—TNAT.	You cannot specify a Translation mode when you remove or delete a rule. When you specify the SNAT Translation Mode, The columns of TransDstType, TransDstIP, and TransDstPort cannot be configured. When you specify the DNAT Translation mode, The columns of DstZone, TransSrcType, TransSrcAddrType, TransAddrGroupNumber, TransAddrGroupName, TransSrcIP, TransReversible, and TransPortPreserved cannot be configured.
SrcZoneList	Policy rule source zone	Data structure	Members include: • SrcZone.	N/A
SrcZone	Security zone to which the source IP of packet belongs before translation	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstZoneList	Policy rule destination zone	Data structure	Members include: • DstZone.	N/A
DstZone	Security zone to which the destination IP of the packet belongs before translation	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value of this column can be configured only when you specify the SNAT translation mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcType	Source translation Type on packets matching the rule	N/A	Enumeration • **0**—DynamicIP-Port. • **1**—DynamicIP. • **2**—StaticIP. • **3**—NO-NAT. • **4**—Prefix. • **5**—Nptv6.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist. When TransSrcType is DynamicIP and TransSrcAddrType is Address Group Number, the column of TransPortPreserved must be default . When TransSrcType is DynamicIP-Port and TransSrcAddrType is Address Group Number or Easy-IP, the column of TransReversible must be default. When you specify a NO-NAT action, the columns of TransAddrGroupNumber, TransAddrGroupName, TransReversible, and TransPortPreserved must be default. When TransSrcType is Prefix, TransSrcAddrType can only be Prefix-NAT64, Prefix-General-IPv4, Prefix-General-IPv6 or Prefix-Ivi. When TransSrcType is Nptv6, TransSrcAddrType can only be Nptv6.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcAddrType	Type of Source address	N/A	Enumeration • **0**—Address Group Name. • **1**—Address Group Number. • **2**—IP Address. • **3**—Easy-IP. • **4**—Subnet. • **5**—IPv4 Object Group. • **6**—IPv6 Address. • **7**—IPv6 Object Group. • **8**—Prefix-NAT64. • **9**—Prefix-General-IPv4. • **10**—Prefix-General-IPv6. • **11**—Prefix-Ivi. • **12**—Nptv6.	When you specify the SNAT or TNAT translation mode, the value of the column can be configured.
TransAddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 1 to 65535.	When you choose the Address Group mode, the value of the column can only be configured.
TransAddrGroupName	NAT address group name	N/A	String. Length: 1 to 63 characters.	When you choose the Address Group mode, the value of the column can only be configured.
TransSrcIP	IPv4 address of the global address	N/A	IPv4: String, dotted decimal notation.	When you choose the IP Address mode, the value of the column can be configured.
TransSrcSubnetAddr	IPv4 address of the global subnet	N/A	IPv4: String, dotted decimal notation.	When you choose the Subnet mode, the value of the column can be configured.
TransSrcSubnetMaskLength	Mask length of the global subnet	N/A	Unsigned integer. Value range: 24 to 31.	When you choose the Subnet mode, the value of the column can be configured.
TransSrcObjName	Name of the global object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv4 Object Group mode, the value of the column can be configured.
TransSrcIPv6	IPv6 address of the global address	N/A	Hexadecimal string, colon-separated.	When you choose the IPv6 Address mode, the value of the column can be configured.
TransSrcIPv6ObjName	Name of the global IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv6 Object Group mode, the value of the column can be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcIPv6 Prefix	IPv6 prefix of the global address	N/A	Hexadecimal string, colon-separated.	When you choose the Prefix-NAT64, Prefix-General-IPv6, Prefix-Ivi or Nptv6 mode, the value of the column can be configured.
TransSrcIPv6 PrefixLength	Length of TransSrcIPv6Prefix	N/A	Unsigned integer. Value range: 1 to 112.	When you choose the Prefix-NAT64, Prefix-General-IPv6 or Nptv6 mode, the value of the column can be configured. When RuleType is NAT64, TransSrcIPv6PrefixLength can only be 32, 40, 48, 56, 64 or 96.
TransReversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching	N/A	Boolean: • **true**—YES. • **false**—NO (default).	Support for this keyword depends on the device model. This column can only be configured when TransSrcType is DynamicIP and TransSrcAddrType is Address Group Number.
TransPortPreserved	Whether tries to preserve port number	N/A	Boolean: • **true**—YES • **false**—NO (default)	This column can only be configured when TransSrcType is DynamicIP-Port and TransSrcAddrType is Address Group Number or Easy-IP .
TransDstType	Destination translation type on packets matching the rule	N/A	Enumeratio: • **0**—IP-PORT. • **1**—NONAT. • **2**—IPv6-PORT. • **3**—StaticIP-IPv4. • **4**—StaticIP-IPv6. • **5**—Prefix-NAT64. • **6**—Prefix-General-IPv4. • **7**—Prefix-General-IPv6. • **8**—Prefix-Ivi. • **9**—Nptv6. • **10**—IPv4 Object Group.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
TransDstIP	IPv4 address of the internal address	N/A	IPv4: String, dotted decimal notation.	This column can only be configured in IP-PORT mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransDstObjName	Name of the global object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv4 Object Group mode, the value of the column can be configured.
TransDstPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	This column can only be configured in IP-PORT mode.
TransDstPortRangeList	A range list	Data structure	Members include: • TransDstStartPort. • TransDstEndPort	N/A
TransDstStartPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TransDstEndPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
StaticDnat	Configure static DNAT	N/A	Boolean: • **true**—YES. • **false**—NO.	N/A
OutVrfName	Name of the global VPN	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an exiting vpn or a new vpn
TransDstIPv6	IPv6 address of the internal address	N/A	Hexadecimal string, colon-separated.	This column can only be configured in IPv6-PORT mode.
TransDstIPv6Prefix	IPv6 prefix of the internal address	N/A	Hexadecimal string, colon-separated.	This column can only be configured in Prefix-General-IPv6, Prefix-Ivi or Nptv6 mode.
TransDstIPv6PrefixLength	Length of TransDstIPv6Prefix	N/A	Unsigned integer. Value range: 1 to 112.	When RuleType is NAT64, TransDstIPv6PrefixLength can only be 32, 40, 48, 56, 64 or 96.
Disable	Disable the rule	N/A	Boolean: • **true**—YES. • **false**—NO (default).	N/A
Counting	Enable matching statistics counting	N/A	Boolean: • **true**—YES. • **false**—NO (default).	N/A
VRID	Virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcVRID	Source virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
DstVRID	Destination virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InVrfName	Name of the inbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf
SnatOutVrfName	Name of the snat outbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf
DnatOutVrfName	Name of the dnat outbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf

NAT/GlobalPolicyRuleSrcObj

This table contains information about the NAT global policy rule source object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcAddrType></SrcAddrType>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
        <SrcIpv6Obj></SrcIpv6Obj>
      </SrcObjGrpList>
      <SrcIPList>
        <SrcIP></SrcIP>
        <SrcIPv6></SrcIPv6>
      </SrcIPList>
      <SrcSubnetList>
        <SrcSubnetAddr></SrcSubnetAddr>
        <SrcSubnetMaskLength></SrcSubnetMaskLength>
        <SrcIPv6SubnetAddr></SrcIPv6SubnetAddr>
        <SrcIPv6SubnetPrefixLength></SrcIPv6SubnetPrefixLength>
      </SrcSubnetList>
    </Rule>
  </GlobalPolicyRuleSrcObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleSrcObj
Table type	Multi-instance table
Row name	Rule

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcAddrType	Type of source address	N/A	Enumeration: • **0**—Object Group. • **1**—IP Address. • **2**—Subnet. • **3**—IPv6 Object Group. • **4**—IPv6 Address. • **5**—IPv6 Subnet.	When RuleType is NAT44, SrcAddrType can be Object Group, IP Address or Subnet. When RuleType is NAT66, SrcAddrType can be IPv6 Object Group, IPv6 Address or IPv6 Subnet. When RuleType is NAT64, SrcAddrType can be Object Group, IP Address or Subnet, IPv6 Object Group, IPv6 Address or IPv6 Subnet.
SrcObjGrpList	Policy rule source object group	Data structure	Members include: • SrcIpObj. • SrcIpv6Obj.	N/A
SrcIpObj	Name of the source IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIpv6Obj	Name of the source IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIPList	Policy rule source IP	Data structure	Members include: • SrcIP. • SrcIPv6.	N/A
SrcIP	IPv4 address of the source IP	N/A	IPv4: String, dotted decimal notation.	N/A
SrcIPv6	IPv6 address of the source IP	N/A	Hexadecimal string, colon-separated.	N/A
SrcSubnetList	Source subnet list in the policy rule	Data structure	Members include: • SrcSubnetAddr. • SrcSubnetMaskLength. • SrcIPv6SubnetAddr. • SrcIPv6SubnetPrefixLength.	N/A
SrcSubnetAddr	IPv4 address of the source subnet	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcSubnetMaskLength	Mask length of the source subnet	N/A	Unsigned integer. Value range: 24 to 31.	N/A
SrcIPv6SubnetAddr	IPv6 address of the source IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
SrcIPv6SubnetPrefixLength	Prefix length of the source IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A

NAT/GlobalPolicyRuleDstObj

This table contains information about the NAT global policy rule destination object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstAddrType></DstAddrType>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
        <DstIpv6Obj></DstIpv6Obj>
      </DstObjGrpList>
      <DstIPList>
        <DstIP></DstIP>
        <DstIPv6></DstIPv6>
      </DstIPList>
      <DstSubnetList>
        <DstSubnetAddr></DstSubnetAddr>
        <DstSubnetMaskLength></DstSubnetMaskLength>
        <DstIPv6SubnetAddr></DstIPv6SubnetAddr>
        <DstIPv6SubnetPrefixLength></DstIPv6SubnetPrefixLength>
      </DstSubnetList>
    </Rule>
  </GlobalPolicyRuleDstObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleDstObj
Table type	Multi-instance table

Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstAddrType	Type of Source address	N/A	Enumeration • **0**—Object Group. • **1**—IP Address. • **2**—Subnet. • **3**—IPv6 Object Group. • **4**—IPv6 Address. • **5**—IPv6 Subnet.	When RuleType is NAT44, DstAddrType can be Object Group, IP Address or Subnet. When RuleType is NAT66, DstAddrType can be IPv6 Object Group IPv6 Address or IPv6 Subnet. When RuleType is NAT64, DstAddrType can be Object Group, IP Address or Subnet, IPv6 Object Group, IPv6 Address or IPv6 Subnet.
DstObjGrpList	Policy rule destination object group	Data structure	Members include: • DstIpObj. • DstIpv6Obj.	N/A
DstIpObj	Name of the Destination IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIpv6Obj	Name of the dstination IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIPList	Policy rule destination IP	Data structure	Members include: • DstIP. • DstIPv6.	N/A
DstIP	IPv4 address of the destination IP	N/A	IPv4: String, dotted decimal notation.	N/A
DstIPv6	IPv6 address of the destination IP	N/A	Hexadecimal string, colon-separated.	N/A
DstSubnetList	Destination subnet list in the policy rule	Data structure	Members include: • DstSubnetAddr. • DstSubnetMaskLength. • DstIPv6SubnetAddr. • DstIPv6SubnetPrefixLength.	N/A
DstSubnetAdd	IPv4 address of	N/A	IPv4: String, dotted decimal	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
r	the destination subnet		notation.	
DstSubnetMaskLength	Mask length of the destination subnet	N/A	Unsigned integer. Value range: 24 to 31.	N/A
DstIPv6SubnetAddr	IPv6 address of the destination IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
DstIPv6SubnetPrefixLength	Prefix length of the destination IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A

NAT/GlobalPolicyRuleSrvObj

This table contains information about the NAT global policy rule service object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvAddrType></SrvAddrType>
      <SrvObjGrpList>
        <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </GlobalPolicyRuleSrvObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleSrvObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrvAddrType	Type of source address	N/A	Enumeration • **0**—Object Group.	The value of this enumeration that is configured as 1 is reserved for the ip mode.
SrvObjGrpList	Policy rule service object group	Data structure	Members include: • SrvObj.	N/A
SrvObj	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

NAT/GlobalPolicyName

This table contains information about NAT global policy rules with automatically generated names.

XML structure

```
<NAT>
  <GlobalPolicyName>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </GlobalPolicyName>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyName
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy rule	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Contents

NAT 1
NAT/NatGlobalPolicy 1
XML structure 1
Table description 1
Columns 1
NAT/GlobalPolicyRules 1
XML structure 1
Table description 2
Columns 2
NAT/GlobalPolicyRuleMembers 2
XML structure 2
Table description 4
Columns 4
NAT/GlobalPolicyRuleSrcObj 12
XML structure 12
Table description 12
Columns 13
NAT/GlobalPolicyRuleDstObj 14
XML structure 14
Table description 15
Columns 15
NAT/GlobalPolicyRuleSrvObj 16
XML structure 16
Table description 16
Columns 17
NAT/GlobalPolicyName 17
XML structure 17
Table description 17
Columns 18
NAT/GlobalSNATAndDNATBeforeSecurityPolicy 18
XML structure 18
Table description 18
Columns 18

NAT

NAT/NatGlobalPolicy

This table contains information about NAT global policy.

XML structure

```
<NAT>
  <NatGlobalPolicy>
   <Policy></Policy>
  </NatGlobalPolicy>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatGlobalPolicy
Table type	Single -instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Whether enable NATglobal policy	N/A	Boolean: • true—YES false—NO(default)	N/A

NAT/GlobalPolicyRules

This table contains information about NAT global policy rules.

XML structure

```
<NAT>
  <GlobalPolicyRules>
    <Rule>
      <RuleName></RuleName>
      <RuleType></RuleType>
    </Rule>
```

```
  </GlobalPolicyRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleType	Type of the NAT global policy rule	N/A	Enumeration: • **0**—NAT44. • **1**—NAT64. • **2**—NAT66.	N/A

NAT/GlobalPolicyRuleMembers

This table contains information about the NAT global policy rule members.

XML structure

```
<NAT>
  <GlobalPolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <Description></Description>
      <TransMode></TransMode>
      <SrcObjGrpList>
        <SrcIpObjGroup></SrcIpObjGroup>
        <SrcIpv6ObjGroup></SrcIpv6ObjGroup>
      </SrcObjGrpList>
      <SrcIPList>
        <SrcIP></SrcIP>
        <SrcIPv6></SrcIPv6>
      </SrcIPList>
```

```
<SrcSubnetList>
  <SrcSubnetAddr></SrcSubnetAddr>
  <SrcSubnetMaskLength></SrcSubnetMaskLength>
  <SrcIPv6SubnetAddr></SrcIPv6SubnetAddr>
  <SrcIPv6SubnetPrefixLength></SrcIPv6SubnetPrefixLength>
</SrcSubnetList>
<DstObjGrpList>
  <DstIpObjGroup></DstIpObjGroup>
  <DstIpv6ObjGroup></DstIpv6ObjGroup>
</DstObjGrpList>
<DstIPList>
  <DstIP></DstIP>
  <DstIPv6></DstIPv6>
</DstIPList>
<DstSubnetList>
  <DstSubnetAddr></DstSubnetAddr>
  <DstSubnetMaskLength></DstSubnetMaskLength>
  <DstIPv6SubnetAddr></DstIPv6SubnetAddr>
  <DstIPv6SubnetPrefixLength></DstIPv6SubnetPrefixLength>
</DstSubnetList>
<SrvObjGrpList>
  <ServiceObjGroup></ServiceObjGroup>
</SrvObjGrpList>
<SrcZoneList>
  <SrcZone></SrcZone>
</SrcZoneList>
<DstZoneList>
  <DstZone></DstZone>
</DstZoneList>
<TransSrcType></TransSrcType>
<TransSrcAddrType></TransSrcAddrType>
<TransAddrGroupNumber></TransAddrGroupNumber>
<TransAddrGroupName></TransAddrGroupName>
<TransSrcIP></TransSrcIP>
<TransSrcSubnetAddr></TransSrcSubnetAddr>
<TransSrcSubnetMaskLength></TransSrcSubnetMaskLength>
<TransSrcObjName></TransSrcObjName>
<TransSrcIPv6></TransSrcIPv6>
<TransSrcIPv6ObjName></TransSrcIPv6ObjName>
<TransSrcIPv6Prefix></TransSrcIPv6Prefix>
<TransSrcIPv6PrefixLength></TransSrcIPv6PrefixLength>
<TransReversible></TransReversible>
<TransPortPreserved></TransPortPreserved>
<TransDstType></TransDstType>
<TransDstIP></TransDstIP>
<TransDstObjName></TransDstObjName>
<TransDstPort></TransDstPort>
<TransDstPortRangeList>
```

```
      <TransDstStartPort></TransDstStartPort>
      <TransDstEndPort></TransDstEndPort>
    </TransDstPortRangeList>
    <StaticDnat></StaticDnat>
    <TransDstIPv6></TransDstIPv6>
    <TransDstIPv6Prefix></TransDstIPv6Prefix>
    <TransDstIPv6PrefixLength></TransDstIPv6PrefixLength>
    <Disable></Disable>
    <Counting></Counting>
    <MatchingCount></MatchingCount>
    <RuleTotalCount></RuleTotalCount>
    <VRID></VRID>
    <SrcVRID></SrcVRID>
    <DstVRID></DstVRID>
    <InVrfName></InVrfName>
    <SnatOutVrfName></SnatOutVrfName>
    <DnatOutVrfName></DnatOutVrfName>
  </Rule>
 </GlobalPolicyRuleMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT.
Table name	GlobalPolicyRuleMembers.
Table type	Multi-instance table.
Row name	Rule.
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleType	Rule type	N/A	Enumeration: • **0**—NAT44. • **1**—NAT64. • **2**—NAT66.	N/A
Description	Rule description	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TransMode	Translation mode on packets matching the rule	N/A	Enumeration: • **0**—SNAT. • **1**—DNAT. • **2**—TNAT.	You cannot specify a Translation mode when you remove or delete a rule. When you specify the SNAT Translation Mode, The columns of TransDstType, TransDstIP, and TransDstPort cannot be configured. When you specify the DNAT Translation mode, The columns of DstZone, TransSrcType, TransSrcAddrType, TransAddrGroupNumber, TransAddrGroupName, TransSrcIP, TransReversible, and TransPortPreserved cannot be configured.
SrcObjGrpList	Policy rule source object group	Data structure	Members include: • SrcIpObjGroup. • SrcIpv6ObjGroup.	N/A
SrcIpObjGroup	Name of the source IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIpv6ObjGroup	Name of the source IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIPList	Policy rule source IP	Data structure	Members include: • SrcIP. • SrcIPv6.	N/A
SrcIP	IPv4 address of the source IP	N/A	IPv4: String, dotted decimal notation.	N/A
SrcIPv6	IPv6 address of the source IP	N/A	Hexadecimal string, colon-separated.	N/A
SrcSubnetList	Source subnet list in the policy rule	Data structure	Members include: • SrcSubnetAddr. • SrcSubnetMaskLength. • SrcIPv6SubnetAddr. • SrcIPv6SubnetPrefixLength.	N/A
SrcSubnetAddr	IPv4 address of the source subnet	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcSubnetMaskLength	Mask length of the source subnet	N/A	Unsigned integer. Value range: 24 to 31.	N/A
SrcIPv6SubnetAddr	IPv6 address of the source IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
SrcIPv6SubnetPrefixLength	Prefix length of the source IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A
DstObjGrpList	Policy rule destination object group	Data structure	Members include: • DstIpObjGroup. • DstIpv6ObjGroup.	N/A
DstIpObjGroup	Name of the Destination IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIpv6ObjGroup	Name of the destination IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIPList	Policy rule destination IP	Data structure	Members include: • DstIP. • DstIPv6.	N/A
DstIP	IPv4 address of the destination IP	N/A	IPv4: String, dotted decimal notation.	N/A
DstIPv6	IPv6 address of the destination IP	N/A	Hexadecimal string, colon-separated.	N/A
DstSubnetList	Destination subnet list in the policy rule	Data structure	Members include: • DstSubnetAddr. • DstSubnetMaskLength. • DstIPv6SubnetAddr. • DstIPv6SubnetPrefixLength.	N/A
DstSubnetAddr	IPv4 address of the destination subnet	N/A	IPv4: String, dotted decimal notation.	N/A
DstSubnetMaskLength	Mask length of the destination subnet	N/A	Unsigned integer. Value range: 24 to 31.	N/A
DstIPv6SubnetAddr	IPv6 address of the destination IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
DstIPv6SubnetPrefixLength	Prefix length of the destination IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A
SrvObjGrpList	Policy rule service object group	Data structure	Members include: • ServiceIpObjGroup.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceObjGroup	Name of the Service object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcZoneList	Policy rule source zone	Data structure	Members include: • SrcZone.	N/A
SrcZone	Security zone to which the source IP of packet belongs before translation	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstZoneList	Policy rule Destination zone	Data structure	Members include: • DstZone.	N/A
DstZone	Security zone to which the destination IP of the packet belongs before translation	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value of this column can be configured only when you specify the SNAT translation mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcType	Source translation Type on packets matching the rule	N/A	Enumeration • **0**—DynamicIP-Port. • **1**—DynamicIP. • **2**—StaticIP. • **3**—NO-NAT. • **4**—Prefix. • **5**—Nptv6.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist. When TransSrcType is DynamicIP and TransSrcAddrType is Address Group Number, the column of TransPortPreserved must be default . When TransSrcType is DynamicIP-Port and TransSrcAddrType is Address Group Number or Easy-IP, the column of TransReversible must be default. When you specify a NO-NAT action, the columns of TransAddrGroupNumber, TransAddrGroupName, TransReversible, and TransPortPreserved must be default. When TransSrcType is Prefix, TransSrcAddrType can only be Prefix-NAT64 , Prefix-General-IPv4, Prefix-General-IPv6 or Prefix-Ivi. When TransSrcType is Nptv6, TransSrcAddrType can only be Nptv6.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcAddrType	Type of source address	N/A	Enumeration • **0**—Address Group Name. • **1**—Address Group Number. • **2**—IP Address. • **3**—Easy-IP. • **4**—Subnet. • **5**—IPv4 Object Group. • **6**—IPv6 Address. • **7**—IPv6 Object Group. • **8**—Prefix-NAT64. • **9**—Prefix-General-IPv4. • **10**—Prefix-General-IPv6. • **11**—Prefix-Ivi. • **12**—Nptv6.	When you specify the SNAT or TNAT translation mode, the value of the column can be configured.
TransAddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 1 to 65535.	When you choose the Address Group mode, the value of the column can only be configured.
TransAddrGroupName	NAT address group name	N/A	String, case-sensitive. Length: 1 to 63 characters.	When you choose the Address Group mode, the value of the column can only be configured.
TransSrcIP	IPv4 address of the global address	N/A	IPv4: String, dotted decimal notation.	When you choose the IP Address mode, the value of the column can be configured.
TransSrcSubnetAddr	IPv4 address of the global subnet	N/A	IPv4: String, dotted decimal notation.	When you choose the Subnet mode, the value of the column can be configured.
TransSrcSubnetMaskLength	Mask length of the global subnet	N/A	Unsigned integer. Value range: 24 to 31.	When you choose the Subnet mode, the value of the column can be configured.
TransSrcObjName	Name of the global object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv4 Object Group mode, the value of the column can be configured.
TransSrcIPv6	IPv6 address of the global address	N/A	Hexadecimal string, colon-separated.	When you choose the IPv6 Address mode, the value of the column can be configured.
TransSrcIPv6ObjName	Name of the global IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv6 Object Group mode, the value of the column can be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransSrcIPv6 Prefix	IPv6 prefix of the global address	N/A	Hexadecimal string, colon-separated.	When you choose the Prefix-NAT64 , Prefix-General-IPv6 , Prefix-Ivi or Nptv6 mode, the value of the column can be configured.
TransSrcIPv6 PrefixLength	Length of TransSrcIPv6Prefix	N/A	Unsigned integer. Value range: 1 to 112.	When you choose the Prefix-NAT64 , Prefix-General-IPv6 or Nptv6 mode, the value of the column can be configured. When RuleType is NAT64, TransSrcIPv6PrefixLength can only be 32, 40, 48, 56, 64 or 96.
TransReversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching	N/A	Boolean: • **true**—YES. • **false**—NO.	Support for this keyword depends on the device model. This column can only be configured when TransSrcType is DynamicIP and TransSrcAddrType is Address Group Number.
TransPortPreserved	Whether tries to preserve port number	N/A	Boolean: • **true**—YES. • **false**—NO.	This column can only be configured when TransSrcType is DynamicIP-Port and TransSrcAddrType is Address Group Number or Easy-IP.
TransDstType	Destination translation Type on packets matching the rule	N/A	Enumeratio: • **0**—IP-PORT. • **1**—NONAT. • **2**—IPv6-PORT. • **3**—StaticIP-IPv4. • **4**—StaticIP-IPv6. • **5**—Prefix-NAT64. • **6**—Prefix-General-IPv4. • **7**—Prefix-General-IPv6. • **8**—Prefix-Ivi. • **9**—Nptv6. • **10**—IPv4 Object Group.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
TransDstIP	IPv4 address of the internal address	N/A	IPv4: String, dotted decimal notation.	This column can only be configured in IP-PORT mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransDstObjName	Name of the global object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	When you choose the IPv4 Object Group mode, the value of the column can be configured.
TransDstPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	This column can only be configured in IP-PORT mode.
TransDstPortRangeList	A range list	Data structure	Members include: • TransDstStartPort. • TransDstEndPort	N/A
TransDstStartPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TransDstEndPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
StaticDnat	Configure static DNAT	N/A	Boolean: • **true**—YES. • **false**—NO.	N/A
TransDstIPv6	IPv6 address of the internal address	N/A	Hexadecimal string, colon-separated.	This column can only be configured in IPv6-PORT mode.
TransDstIPv6Prefix	IPv6 prefix of the internal address	N/A	Hexadecimal string, colon-separated.	This column can only be configured in Prefix-General-IPv6 , Prefix-Ivi or Nptv6 mode.
TransDstIPv6PrefixLength	Length of TransDstIPv6Prefix	N/A	Unsigned integer. Value range: 1 to 112.	When RuleType is NAT64, TransDstIPv6PrefixLength can only be 32, 40, 48, 56, 64 or 96.
Disable	Disable the rule	N/A	Boolean: • **true**—YES. • **false**—NO.	N/A
Counting	Enable Matching statistics	N/A	Boolean: • **true**—YES. • **false**—NO.	N/A
MatchingCount	Total number of rule hits	N/A	Unsigned integer.	N/A
RuleTotalCount	Total rule number of the global policy rule.	N/A	Unsigned integer. Value range: 0 to 4096.	N/A
VRID	Virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcVRID	Source virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstVRID	Destination virtual router ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
InVrfName	Name of the inbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf
SnatOutVrfName	Name of the snat outbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf
DnatOutVrfName	Name of the dnat outbound VRF	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify an existed vrf or a new vrf

NAT/GlobalPolicyRuleSrcObj

This table contains information about the NAT global policy rule source object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcAddrType></SrcAddrType>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
        <SrcIpv6Obj></SrcIpv6Obj>
      </SrcObjGrpList>
      <SrcIPList>
        <SrcIP></SrcIP>
        <SrcIPv6></SrcIPv6>
      </SrcIPList>
      <SrcSubnetList>
        <SrcSubnetAddr></SrcSubnetAddr>
        <SrcSubnetMaskLength></SrcSubnetMaskLength>
        <SrcIPv6SubnetAddr></SrcIPv6SubnetAddr>
        <SrcIPv6SubnetPrefixLength></SrcIPv6SubnetPrefixLength>
      </SrcSubnetList>
    </Rule>
  </GlobalPolicyRuleSrcObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT.
Table name	GlobalPolicyRuleSrcObj.

Table type	Multi-instance table.
Row name	Rule.
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcAddrType	Type of Source address	N/A	Enumeration: • **0**—Object Group. • **1**—IP Address. • **2**—Subnet. • **3**—IPv6 Object Group. • **4**—IPv6 Address. • **5**—IPv6 Subnet.	When RuleType is NAT44, SrcAddrType can be Object Group , IP Address or Subnet. When RuleType is NAT66, SrcAddrType can be IPv6 Object Group , IPv6 Address or IPv6 Subnet. When RuleType is NAT64, SrcAddrType can be Object Group , IP Address or Subnet , IPv6 Object Group , IPv6 Address or IPv6 Subnet.
SrcObjGrpList	Policy rule source object group	Data structure	Members include: • SrcIpObj. • SrcIpv6Obj.	N/A
SrcIpObj	Name of the Source IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIpv6Obj	Name of the source IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcIPList	Policy rule source IP	Data structure	Members include: • SrcIP. • SrcIPv6.	N/A
SrcIP	IPv4 address of the source IP	N/A	IPv4: String, dotted decimal notation.	N/A
SrcIPv6	IPv6 address of the source IP	N/A	Hexadecimal string, colon-separated.	N/A
SrcSubnetList	Source subnet list in the policy rule	Data structure	Members include: • SrcSubnetAddr. • SrcSubnetMaskLength. • SrcIPv6SubnetAddr. • SrcIPv6SubnetPrefixLength.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcSubnetAddr	IPv4 address of the source subnet	N/A	IPv4: String, dotted decimal notation.	N/A
SrcSubnetMaskLength	Mask length of the source subnet	N/A	Unsigned integer. Value range: 24 to 31..	N/A
SrcIPv6SubnetAddr	IPv6 address of the source IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
SrcIPv6SubnetPrefixLength	Prefix length of the source IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A

NAT/GlobalPolicyRuleDstObj

This table contains information about the NAT global policy rule destination object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstAddrType></DstAddrType>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
        <DstIpv6Obj></DstIpv6Obj>
      </DstObjGrpList>
      <DstIPList>
        <DstIP></DstIP>
        <DstIPv6></DstIPv6>
      </DstIPList>
      <DstSubnetList>
        <DstSubnetAddr></DstSubnetAddr>
        <DstSubnetMaskLength></DstSubnetMaskLength>
        <DstIPv6SubnetAddr></DstIPv6SubnetAddr>
        <DstIPv6SubnetPrefixLength></DstIPv6SubnetPrefixLength>
      </DstSubnetList>
    </Rule>
  </GlobalPolicyRuleDstObj>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleDstObj
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstAddrType	Type of Source address	N/A	Enumeration: • **0**—Object Group. • **1**—IP Address. • **2**—Subnet. • **3**—IPv6 Object Group. • **4**—IPv6 Address. • **5**—IPv6 Subnet.	When RuleType is NAT44, DstAddrType can be Object Group , IP Address or Subnet. When RuleType is NAT66, DstAddrType can be IPv6 Object Group , IPv6 Address or IPv6 Subnet. When RuleType is NAT64, DstAddrType can be Object Group , IP Address or Subnet , IPv6 Object Group , IPv6 Address or IPv6 Subne.
DstObjGrpList	Policy rule destination object tgroup	Data structure	Members include: • DstIpObj. • DstIpv6Obj.	N/A
DstIpObj	Name of the Destination IP object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIpv6Obj	Name of the Destination IPv6 object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstIPList	Policy rule destination IP	Data structure	Members include: • DstIP. • DstIPv6.	N/A
DstIP	IPv4 address of the destination IP	N/A	IPv4: String, dotted decimal notation.	N/A
DstIPv6	IPv6 address of the destination IP	N/A	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstSubnetList	Destination subnet list in the policy rule	Data structure	Members include: • DstSubnetAddr. • DstSubnetMaskLength. • DstIPv6SubnetAddr. • DstIPv6SubnetPrefixLength.	N/A
DstSubnetAddr	IPv4 address of the destination subnet	N/A	IPv4: String, dotted decimal notation.	N/A
DstSubnetMaskLength	Mask length of the destination subnet	N/A	Unsigned integer. Value range: 24 to 31.	N/A
DstIPv6SubnetAddr	IPv6 address of the destination IPv6 subnet	N/A	Hexadecimal string, colon-separated.	N/A
DstIPv6SubnetPrefixLength	Prefix length of the destination IPv6 subnet	N/A	Unsigned integer. Value range: 1 to 128.	N/A

NAT/GlobalPolicyRuleSrvObj

This table contains information about the NAT global policy rule service object group.

XML structure

```
<NAT>
  <GlobalPolicyRuleSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvAddrType></SrvAddrType>
      <SrvObjGrpList>
      <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </GlobalPolicyRuleSrvObj>
<NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyRuleSrvObj
Table type	Multi-instance table
Row name	Rule

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrvAddrType	Type of Source address	N/A	Enumeration: • **0**—Object Group.	The value of this enumeration which is configured as 1 is reserved for the ip mode.
SrvObjGrpList	Policy rule service object group	Data structure	Members include: • SrvObj.	N/A
SrvObj	Name of the Service object group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

NAT/GlobalPolicyName

This table contains information about NAT global policy rules with automatically generated names.

XML structure

```
<NAT>
  <GlobalPolicyName>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </GlobalPolicyName>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalPolicyName
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT global policy rule	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

NAT/GlobalSNATAndDNATBeforeSecurityPolicy

This table contains enabling status of performing SNAT and DNAT before matching a security policy.

XML structure

```
<NAT>
  <GlobalSNATAndDNATBeforeSecurityPolicy>
    <Enable></Enable>
  </GlobalSNATAndDNATBeforeSecurityPolicy>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	GlobalSNATAndDNATBeforeSecurityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the function of performing SNAT and DNAT before matching a security policy.	N/A	Boolean: • true—Yes • false—No.	N/A

Contents

Comware V7 GLOBAL NAT NETCONF XML API Error Message Reference 1

NAT/GlobalPolicyRuleMembers 1
NAT/GlobalPolicyRuleSrcObj 3
NAT/GlobalPolicyRuleDstObj 3
NAT/GlobalPolicyRules 4

Comware V7 GLOBAL NAT NETCONF XML API Error Message Reference

NAT/GlobalPolicyRuleMembers

Message	Explanation
TransSrcIP cannot be null when the TransSrcType is StaticIP. 配置一对一静态源地址转换方式时，没有指定地址转换使用的IP地址。	The TransSrcIP value cannot be null when the TransSrcType is StaticIP. 配置一对一静态源地址转换方式时，没有指定地址转换使用的IP地址。
TransSrcIP must be null when the TransSrcType is not StaticIP. 配置非一对一静态源地址转换方式时，不允许指定地址转换使用的IP地址。	The TransSrcIP value must be null when the TransSrcType is not StaticIP. 配置非一对一静态源地址转换方式时，不允许指定地址转换使用的IP地址。
The global IP address has been specified in another NAT rule. 指定的外网地址已经被其他NAT规则引用。	The global IP address has been specified in another NAT rule. 指定的外网地址已经被其他NAT规则引用。
When the TransSrcType is StaticIP, use the default value for the TransPortreserved column. 配置静态源地址转换方式时，不允许设置尽量不转换端口。	Use the default value for the TransPortPreserved column when the TransSrcType is StaticIP. 配置源IP-ADDRESS转换方式时端口保留设置必须为默认值。
When the TransSrcType is StaticIP, use the default value for the TransReversible column. 配置静态源地址转换方式时，不允许反向地址转换。	Use the default vale for the TransReversible column when the TransSrcType is StaticIP. 配置一对一静态源地址转换方式时，不允许反向地址转换。
When the TransSrcType is DynamicIP-Port, use the default value for the TransReversible column. 配置动态IP+端口源地址转换方式时，不允许反向地址转换。	Use the default value for the TransReversible column when the TransSrcType is DynamicIP-Port. 配置动态IP+端口源地址转换方式时，不允许反向地址转换。
When the TransSrcType is DynamicIP, use the default value for the TransReversible column. 配置动态IP源地址转换方式时，不允许设置尽量不转换端口。	Use the default value for the TransPortPreserved column when the TransSrcType is DynamicIP. 配置动态IP源地址转换方式时，端口保留设置必须为默认值。
The address group has been used by another NAT rule whose TransSrcType is DynamicIP-Port. 该地址组已被其他NAT规则中动态IP+端口的源地址转换方式引用。	The address group has been used by another NAT rule whose TransSrcType is DynamicIP-Port. 该地址组已被其他NAT规则中动态IP+端口的源地址转换方式引用。
The address group has been used by another NAT rule whose TransSrcType is DynamicIP. 该地址组已被其他NAT规则中动态IP的源地址转换方式引用。	The address group has been used by another NAT rule whose TransSrcType is DynamicIP. 该地址组已被其他NAT规则中动态IP的源地址转换方式引用。
Inconsistent IP address block size. The number of source IP addresses for packet match is x, but the number of global addresses is y. 用于匹配报文源IP地址的过滤条件中包含的IP地址数量与源地址转换方式中包含的IP地址数量不一致	Inconsistent IP address block sizes. The number of source IP addresses for packet match is x, but the number of global addresses is y. 用于匹配报文源IP地址的过滤条件中包含的IP地址数量与源地址转换方式中包含的IP地址数量不一致（x个地址不等于y个地址）。

（x个地址不等于y个地址）。	
Operation failed. The source address object group for packet match contains duplicate IP addresses. 无法配置静态方式的源地址转换，用于匹配报文源IP地址的过滤条件中引用的源地址对象组存在重复的IP地址。	Operation failed. The source address object group for packet match contains duplicate IP addresses. 无法配置静态方式的源地址转换，用于匹配报文源IP地址的过滤条件中引用的源地址对象组存在重复的IP地址。
Operation failed. The address object group for static address translation contains duplicate IP addresses. 静态源地址转换方式中引用的地址对象组中存在重复的IP地址。	Operation failed. The address object group for static address translation contains duplicate IP addresses. 静态源地址转换方式中引用的地址对象组中存在重复的IP地址。
Configuration failed. The object group contains object types or IP addresses that are not supported by NAT. 配置失败，引用的地址对象组中有NAT不支持的类型或IP地址。	Configuration failed. The object group contains object types or IP addresses that are not supported by NAT. 配置失败，引用的地址对象组中有NAT不支持的类型或IP地址。
The number of global IP addresses has reached the maximum. 指定的外网地址范围大小超过系统允许的最大值。	The number of global IP addresses has reached the maximum. 指定的外网地址范围大小超过系统允许的最大值。
The IPv6 prefix length in the match criterion is not compliant with the IPv6 prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度的要求。	The IPv6 prefix length in the match criterion is not compliant with the prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度的要求。
The IPv6 prefix length in the match criterion is not compliant with the IPv6 prefix length requirement in nptv6 address translation. 地址过滤条件的前缀长度不符合NPTv6转换方式对前缀长度的要求。	The IPv6 prefix length in the match criterion is not compliant with the prefix length requirement in nptv6 address translation. 地址过滤条件的前缀长度不符合NPTv6转换方式对前缀长度的要求。
The IPv6 prefix length in the match criterion must be the same as the IPv6 prefix length after address translation. 使用NPTv6转换方式时，地址过滤条件的前缀长度必须与转换后的地址前缀长度一致。	The IPv6 prefix length in the match criterion must be the same as the IPv6 prefix length after address translation. 使用NPTv6转换方式时，地址过滤条件的前缀长度必须与转换后的地址前缀长度一致。
For nptv6 mode, there can only be one IPv6 subnet in the match criterion. 使用NPTv6转换方式时，地址过滤条件中只能存在一个IPv6网段。	For nptv6 mode, there can only be one IPv6 subnet in the match criterion. 使用NPTv6转换方式时，地址过滤条件中只能存在一个IPv6网段。
Only support the IPv4 object group in the type of NAT rule. NAT类型的规则中只支持引用IPv4地址对象组。	Only support the IPv4 object group in the type of NAT rule. NAT类型的规则中只支持引用IPv4地址对象组。
Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。	Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。
Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。	Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。
When the source address translation method is	When the source address translation method is bound to VRRP,

bound to VRRP, the object group cannot be an IPv6 object group. 源地址转换方式与VRRP备份组绑定时，对象组不能是IPv6地址对象组。	the object group can only be an IPv4 object group. 源地址转换方式与VRRP备份组绑定时，对象组只能是IPv4地址对象组。

NAT/GlobalPolicyRuleSrcObj

Message	Explanation
The total number of source IP addresses exceeds the upper limit. 匹配报文源IP地址的过滤条件中包含的IP地址数量超过了最大值。	The total number of source IP addresses exceeds 256. 匹配报文源IP地址的过滤条件中包含的IP地址个数已经超过256。
Can't modify the source IP addresses because they are used for packet match in static address translation. 不允许修改静态地址转换方式对应的地址过滤条件。	Can't modify the source IP addresses because they are used for packet match in static address translation. 不允许修改静态地址转换方式对应的地址过滤条件。
The IP version must be the same as existing IP addresses criteria in the NAT64 rule before the translation action. NAT64规则添加地址过滤条件时，该过滤条件中的IP地址版本号必须与规则中已有过滤条件的IP地址版本号相同。	The IP version must be the same as existing IP addresses criteria in the NAT64 rule before the translation action. NAT64规则添加地址过滤条件时，该过滤条件中的IP地址版本号必须与规则中已有过滤条件的IP地址版本号相同。
The IPv6 prefix length in the match criterion is not compliant with the IPv6 prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度的要求。	The IPv6 prefix length in the match criterion is not compliant with the prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度对端要求。
Can't modify the IP match criterion because the translation action nptv6 has been configured. 使用NPTv6转换方式时，不允许修改地址过滤条件。	Can't modify the IP match criterion because the translation action nptv6 has been configured. 使用NPTv6转换方式时，不允许修改地址过滤条件。
Only support the IPv4 object group in the type of NAT rule. NAT类型的规则中只支持引用IPv4地址对象组。	Only support the IPv4 object group in the type of NAT rule. NAT类型的规则中只支持引用IPv4地址对象组。
Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。	Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。
Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。	Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。

NAT/GlobalPolicyRuleDstObj

Message	Explanation
The total number of destination IP addresses exceeds the upper limit.	The total number of destination IP addresses exceeds 256. 匹配报文目的IP地址的过滤条件中包含的IP地址个数已经超过

匹配报文目的IP地址的过滤条件中包含的IP地址数量超过了最大值。	256。
The number of global IP addresses has reached the maximum. 指定的外网地址范围大小超过系统允许的最大值。	The number of global IP addresses has reached the maximum. 指定的外网地址范围大小超过系统允许的最大值。
The IP version must be the same as existing IP addresses criteria in the NAT64 rule before the translation action. NAT64规则添加地址过滤条件时，该过滤条件中的IP地址版本号必须与规则中已有过滤条件的IP地址版本号相同。	The IP version must be the same as existing IP addresses criteria in the NAT64 rule before the translation action. NAT64规则添加地址过滤条件时，该过滤条件中的IP地址版本号必须与规则中已有过滤条件的IP地址版本号相同。
The IPv6 prefix length in the match criterion is not compliant with the IPv6 prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度的要求。	The IPv6 prefix length in the match criterion is not compliant with the prefix length requirement in prefix-based address translation. 地址过滤条件的前缀长度不符合6to4前缀转换方式对前缀长度的要求。
Can't modify the IP match criterion because the translation action nptv6 has been configured. 使用NPTv6转换方式时，不允许修改地址过滤条件。	Can't modify the IP match criterion because the translation action nptv6 has been configured. 使用NPTv6转换方式时，不允许修改地址过滤条件。
Only support the IPv4 object group in the type of NAT rule. NAT类型的规则中只支持引用IPv4地址对象组。	Only support the IPv4 object group in the type of NAT rule. NAT类型的规则只支持引用IPv4地址对象组。
Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。	Only support the IPv4 and IPv6 object group in the type of NAT64 rule. NAT64类型的规则中只支持引用IPv4和IPv6地址对象组。
Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。	Only support the IPv6 object group in the type of NAT66 rule. NAT66类型的规则中只支持引用IPv6地址对象组。

NAT/GlobalPolicyRules

Message	Explanation
The rule type can't be modified.. 不允许修改规则类型。	The rule type can't be modified.. 不允许修改规则类型。

Contents

IPMAC 1
IPMAC/ClearIpMacBindingEntries 1
XML structure 1
Table description 1
Columns 1
IPMAC/IpMacBindingInterface 1
XML structure 1
Table description 2
Columns 2

IPMAC

IPMAC/ClearIpMacBindingEntries

This table clears all IPv4 or IPv6 IP-MAC binding entries.

XML structure

```
<IPMAC>
  <ClearIpMacBindingEntries>
    <Type></Type>
  </ClearIpMacBindingEntries>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	ClearIpMacBindingEntries
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	IP-MAC binding entry type.	N/A	numeration: • 0—IPv4. • 1—IPv6.	N/A

IPMAC/IpMacBindingInterface

This table adds ARP entries learned on an interface to the IP-MAC binding table.

XML structure

```
<IPMAC>
  <IpMacBindingInterface>
    <IfIndex></IfIndex>
  </IpMacBindingInterface>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	IpMacBindingInterface
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Unsigned integer.	This column can only be the index of a Layer 3 Ethernet interface or a VLAN interface. Loopback, null, FC, FCB, and encrypt interfaces are not supported.	N/A

Contents

IPMAC 1
IPMAC/Ipv4MacBinding 1
XML structure 1
Table description 1
Columns 1
IPMAC/Ipv6MacBinding 2
XML structure 2
Table description 2
Columns 3
IPMAC/IpMacBindingSwitch 3
XML structure 3
Table description 3
Columns 4
IPMAC/IpMacBindingDefaultAction 4
XML structure 4
Table description 4
Columns 4
IPMAC/InterfaceSwitch 5
XML structure 5
Table description 5
Columns 5

IPMAC

IPMAC/Ipv4MacBinding

This table contains IPv4 IP-MAC binding table information.

XML structure

```
<IPMAC>
  <Ipv4MacBinding>
    <IpMacBinding>
      <Ipv4Address></Ipv4Address>
      <Type></Type>
      <Value></Value>
      <MacAddress></MacAddress>
    </IpMacBinding>
  </Ipv4MacBinding>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	Ipv4MacBinding
Table type	Multi-instance table
Row name	IpMacBinding
Restrictions	Do not configure both VLAN ID and VRF settings.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	The value of 0.0.0.0 indicates that no IPv4 address is specified. Both Ipv4Address and MacAddress must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Where the IP-MAC binding entry takes effect.	Index	Enumeration: • 0—On a VRF instance. • 1—On a VLAN.	When the Type column is 0, the binding takes effect on a VPN instance. When the Type column is 1, the binding takes effect on a VLAN.
Value	VRF instance name or VLAN ID.	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, set this column to 0 and set the Type column to 1.
MacAddress	MAC address.	Column	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of 00-00-00-00-00-00 indicates that no MAC address is specified. Both Ipv4Address and MacAddress must be specified.

IPMAC/Ipv6MacBinding

This table contains IPv6 IP-MAC binding table information.

XML structure

```
<IPMAC>
  <Ipv6MacBinding>
    <IpMacBinding>
      <Ipv6Address></Ipv6Address>
      <Type></Type>
      <Value></Value>
      <MacAddress></MacAddress>
    </IpMacBinding>
  </Ipv6MacBinding>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	Ipv6MacBinding
Table type	Multi-instance table
Row name	IpMacBinding

Restrictions	Do not configure both VLAN ID and VRF settings.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	Both Ipv6Address and MacAddress must be specified.
Type	Where the IP-MAC binding entry takes effect.	Index	Enumeration: • 0—On a VRF instance. • 1—On a VLAN.	When the Type column is 0, the binding takes effect on a VPN instance. When the Type column is 1, the binding takes effect on a VLAN.
Value	VRF instance name or VLAN ID.	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, set this column to 0 and set the Type column to 1.
MacAddress	MAC address.	Column	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of 00-00-00-00-00-00 indicates that no MAC address is specified. Both Ipv6Address and MacAddress must be specified.

IPMAC/IpMacBindingSwitch

This table controls the status of the IP-MAC binding feature.

XML structure

```
<IPMAC>
  <IpMacBindingSwitch>
    <Enable></Enable>
  </IpMacBindingSwitch>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC

Table name	IpMacBindingSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the IP-MAC binding feature.	N/A	Boolean: • true. • false.	N/A

IPMAC/IpMacBindingDefaultAction

This table contains the action for packets that do not match any IP-MAC binding entries.

XML structure

```
<IPMAC>
  <IpMacBindingDefaultAction>
    <DefaultAction></DefaultAction>
  </IpMacBindingDefaultAction>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	IpMacBindingDefaultAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultActio	Action for packets	N/A	numeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
n	that do not match any IP-MAC binding entries.		• 0—Permit. • 1—Deny.	

IPMAC/InterfaceSwitch

This table contains the interfaces enabled with the IP-MAC binding feature.

XML structure

```
<IPMAC>
  <InterfaceSwitch>
    <Interfaces>
      <IfIndex></IfIndex>
    </Interfaces>
  </InterfaceSwitch>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	InterfaceSwitch
Table type	Multi-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface on which the IP-MAC binding feature is enabled.	Index	Unsigned integer	This column can only be the index of layer 3 interface, layer 3 subinterface, layer 3 Eth-Trunk interface and VLANIF interface

Contents

IPMAC 1
IPMAC/Ipv4MacBinding 1
XML structure 1
Table description 1
Columns 1
IPMAC/Ipv6MacBinding 2
XML structure 2
Table description 2
Columns 3
IPMAC/IpMacBindingSwitch 3
XML structure 3
Table description 4
Columns 4
IPMAC/IpMacBindingDefaultAction 4
XML structure 4
Table description 4
Columns 5
IPMAC/InterfaceSwitch 5
XML structure 5
Table description 5
Columns 5
IPMAC/Specification 6
XML structure 6
Table description 6
Columns 6

IPMAC

IPMAC/Ipv4MacBinding

This table contains IPv4 IP-MAC binding table information.

XML structure

```
<IPMAC>
  <Ipv4MacBinding>
    <IpMacBinding>
      <Ipv4Address></Ipv4Address>
      <Type></Type>
      <Value></Value>
      <MacAddress></MacAddress>
      <TotalCount></TotalCount>
    </IpMacBinding>
  </Ipv4MacBinding>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	Ipv4MacBinding
Table type	Multi-instance table
Row name	IpMacBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	The value of 0.0.0.0 indicates that no IPv4 address is specified. Both Ipv4Address and MacAddress must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Where the IP-MAC binding entry takes effect.	Index	Enumeration: • 0—On a VRF instance. • 1—On a VLAN.	When the Type column is 0, the binding takes effect on a VPN instance. When the Type column is 1, the binding takes effect on a VLAN.
Value	VRF instance name or VLAN ID.	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, set this column to 0 and set the Type column to 1.
MacAddress	MAC address.	Column	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of 00-00-00-00-00-00 indicates that no MAC address is specified. Both Ipv4Address and MacAddress must be specified.
TotalCount	Total number of IP-MAC binding entries.	N/A	Unsigned integer	The number of queried IP-MAC binding entries or the total number of IP-MAC binding entries.

IPMAC/Ipv6MacBinding

This table contains IPv6 IP-MAC binding table information.

XML structure

```
<IPMAC>
  <Ipv6MacBinding>
    <IpMacBinding>
      <Ipv6Address></Ipv6Address>
      <Type></Type>
      <Value></Value>
      <MacAddress></MacAddress>
      <TotalCount></TotalCount>
    </IpMacBinding>
  </Ipv6MacBinding>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	Ipv6MacBinding

Table type	Multi-instance table
Row name	IpMacBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	Both Ipv6Address and MacAddress must be specified.
Type	Where the IP-MAC binding entry takes effect.	Index	Enumeration: • 0—On a VRF instance. • 1—On a VLAN.	When the Type column is 1, the binding takes effect on a VPN instance. When the Type column is 2, the binding takes effect on a VLAN.
Value	VRF instance name or VLAN ID.	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, set this column to 0 and set the Type column to 1.
MacAddress	MAC address.	Column	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of 00-00-00-00-00-00 indicates that no MAC address is specified. Both Ipv6Address and MacAddress must be specified.
TotalCount	Total number of IP-MAC binding entries.	N/A	Unsigned integer	The number of queried IP-MAC binding entries or the total number of IP-MAC binding entries.

IPMAC/IpMacBindingSwitch

This table controls the status of the IP-MAC binding feature.

XML structure

```
<IPMAC>
  <IpMacBindingSwitch>
    <Enable></Enable>
  </IpMacBindingSwitch>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	IpMacBindingSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the IP-MAC binding feature.	N/A	Boolean: • true. • false.	N/A

IPMAC/IpMacBindingDefaultAction

This table contains the action for packets that do not match any IP-MAC binding entries.

XML structure

```
<IPMAC>
  <IpMacBindingDefaultAction>
    <DefaultAction></DefaultAction>
  </IpMacBindingDefaultAction>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	IpMacBindingDefaultAction
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultAction	Action for packets that do not match any IP-MAC binding entries.	N/A	numeration: • 0—Permit. • 1—Deny.	N/A

IPMAC/InterfaceSwitch

This table contains the interfaces enabled with the IP-MAC binding feature.

XML structure

```
<IPMAC>
  <InterfaceSwitch>
    <Interfaces>
      <IfIndex></IfIndex>
    </Interfaces>
  </InterfaceSwitch>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	InterfaceSwitch
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface on whitch the IP-MAC binding feature is enabled.	Index	Unsigned integer	This column can only be the index of layer 3 interface, layer 3 subinterface, layer 3 Eth-Trunk interface and VLANIF interface

IPMAC/Specification

This table contains the specification information of the IP-MAC binding feature.

XML structure

```
<IPMAC>
  <Specification>
    <GlobalEnable></GlobalEnable>
  </Specification>
</IPMAC>
```

Table description

Item	Description
Feature name	IPMAC
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEnable	Whether to support the global enable function..	N/A	Boolean: • true. • false(default).	N/A

Contents

RBM 1
RBM/SyncConfiguration 1
XML structure 1
Table description 1
Columns 1
RBM/SwitchRequest 1
XML structure 1
Table description 2
Columns 2
RBM/ConfigCheck 2
XML structure 2
Table description 2
Columns 3

RBM

RBM/SyncConfiguration

Synchronized configuration.

XML structure

```
<RBM>
  <SyncConfiguration>
    <Sync></Sync>
  </SyncConfiguration>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	SyncConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`Sync`	Synchronized configuration.	N/A	This column must be empty.	N/A

RBM/SwitchRequest

Issue a request to perform master/backup switchover.

XML structure

```
<RBM>
  <SwitchRequest>
    <Switch></Switch>
  </SwitchRequest>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	SwitchRequest
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Switch	Perform master/backup switchover.	N/A	This column must be empty.	N/A

RBM/ConfigCheck

Configuration consistency check.

XML structure

```
<RBM>
  <ConfigCheck>
    <Check></Check>
  </ConfigCheck>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	ConfigCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`Check`	Configuration consistency check.	N/A	This column must be empty.	N/A

Contents

RBM 1
RBM/RemoteBackupGroup 1
XML structure 1
Table description 1
Columns 2
RBM/TrackVlans 3
XML structure 3
Table description 3
Columns 4
RBM/TrackInterfaces 4
XML structure 4
Table description 4
Columns 5
RBM/TrackItems 5
XML structure 5
Table description 5
Columns 5
RBM/AdjustRoutingCost 6
XML structure 6
Table description 6
Columns 6
RBM/SwitchoverVrrp 7
XML structure 7
Table description 7
Columns 7
RBM/ConfigurationSyncModule 8
XML structure 8
Table description 8
Columns 8

RBM

RBM/RemoteBackupGroup

This table contains information about the remote-backup group.

XML structure

```
<RBM>
  <RemoteBackupGroup>
    <RemoteBackupGrpEnable></RemoteBackupGrpEnable>
    <BackupEnable></BackupEnable>
    <BackupMode></BackupMode>
    <BackupRole></BackupRole>
    <DelayUpTimer></DelayUpTimer>
    <AutoSynEnable></AutoSynEnable>
    <ConfigCheckEnable></ConfigCheckEnable>
    <ConfigCheckTimer></ConfigCheckTimer>
    <BackupDataChannel>
      <BackupInterface></BackupInterface>
    </BackupDataChannel>
    <SourceIp></SourceIp>
    <PeerIp></PeerIp>
    <SourceIpv6><SourceIpv6>
    <PeerIpv6><PeerIpv6>
    <PeerPort></PeerPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveCount></KeepaliveCount>
    <DnsBackupEnable></DnsBackupEnable>
    <HttpBackupEnable></HttpBackupEnable>  </RemoteBackupGroup>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	RemoteBackupGroup
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteBackupGrpEnable	Whether enable the remote-backup group.	N/A	Boolean: • true—YES • false—NO(default).	N/A
BackupEnable	Whether enable hot backup.	N/A	Boolean: • true—YES • false—NO(default).	N/A
BackupMode	Remote-backup group mode.	N/A	Enumeration: • 0—active/standy(default) • 1—dual/active.	N/A
BackupRole	Remote-backup group role.	N/A	Enumeration: • 0—master(default) • 1—standy.	N/A
DelayUpTimer	Device delay up	N/A	Unsigned integer. Value range: 0 to 50. Default: 1.	The unit is minutes.
AutoSynEnable	Whether enable the switch of auto-synchronized configuration.	N/A	Boolean: • true—YES • false—NO(default).	N/A
ConfigCheckEnable	Whether enable the switch of checking configuration.	N/A	Boolean: • true—YES • false—NO(default).	N/A
ConfigCheckTimer	Check configuration timer	N/A	Unsigned integer. Value range: 1 to 168. Default: 24	The unit is hours.
BackupDataChannel	Backup data channel	N/A	Members include: • BackupInterface.	N/A
BackupInterface	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIp	Source ip address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
PeerIp	Peer ip address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SourceIpv6	Source ipv6 address	N/A	String, dotted decimal.	Example:2018::1
PeerIpv6	Peer ipv6 address	N/A	String, dotted decimal.	Example:2019::1
PeerPort	Peer Port	N/A	Unsigned integer. Value range: 1024 to 65535.	NA
KeepaliveInterval	Keepalive interval	N/A	Unsigned integer. Value range: 1 to 60. Default: 1	The unit is seconds.
KeepaliveCount	Keepalive count	N/A	Unsigned integer. Value range: 1 to 255. Default: 4	If the probe message is not received for 4 consecutive times,the connection is considered disconnected.
DnsBackupEnable	Whether to enable DNS session backup	N/A	Boolean: • true—YES(default). • false—NO.	NA
HttpBackupEnable	Whether to enable HTTP session backup	N/A	Boolean: • true—YES(default). • false—NO.	NA

RBM/TrackVlans

This table contains information about the tracked VLAN of a remote-backup group.

XML structure

```
<RBM>
  <TrackVlans>
    <Vlans>
      <VlanID></VlanID>
    </Vlans>
  </TrackVlans>
</RBM>
```

Table description

Item	Description
Feature name	RBM

Item	Description
Table name	TrackVlans
Table type	Multi-instance table
Row name	Vlans
Restrictions	VlanID And Interface can only choose one
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN tracked by the remote-backup group.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

RBM/TrackInterfaces

This table contains information about the tracked interface of a remote backup group.

XML structure

```
<RBM>
  <TrackInterfaces>
    <Interfaces>
      <Interface></Interface>
    </Interfaces>
  </TrackInterfaces>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackInterfaces
Table type	Multi-instance table
Row name	Interfaces
Restrictions	Interface And VlanID can only choose one
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface tracked by the remote-backup group.	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

RBM/TrackItems

This table contains information about the track entry associated with a remote-backup group.

XML structure

```
<RBM>
  <TrackItems>
    <Items>
      <TrackID></TrackID>
    </Items>
  </TrackItems>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackItems
Table type	Multi-instance table
Row name	Items
Restrictions	Remote-backup group module associates up to 64 track items
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackID	Associates the track entry with the	Index	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	remote-backup group.			

RBM/AdjustRoutingCost

This table contains information about cost adjustment of routing protocols.

XML structure

```
<RBM>
  <AdjustRoutingCost>
    <RoutingCost>
      <RoutingPro></RoutingPro>
      <OperationType></OperationType>
      <CostValue></CostValue>
    </RoutingCost>
  </AdjustRoutingCost>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	AdjustRoutingCost
Table type	Multi-instance table
Row name	RoutingCost
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingPro	Specify a routing protocol	Index	Enumeration: • 1—OSPF • 2—OSPFv3 • 4—BGP • 8—ISIS	N/A
OperationType	Specify an operation type, which is set or add.	N/A	Enumeration: • 0—set • 1—add	Set means specifying an absolute cost. Add means specifying an incremental cost.

Column name	Column description	Column type	Data type and restrictions	Remarks
CostValue	Specify the incremental cost value	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

RBM/SwitchoverVrrp

This table contains information about swithover of single vrrp.

XML structure

```
<RBM>
  <SwitchoverVrrp>
    <Vrrps>
      <vrid></vrid>
      <IpVersion></IpVersion>
    </Vrrps>
  </SwitchoverVrrp>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	SwitchoverVrrp
Table type	Multi-instance table
Row name	Vrrps
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Vrid	Specify a virtual router identifier	Index	Enumeration: Unsigned integer. Value range: 1 to 255	N/A
IpVersion	Specify IP version.	Index	Enumeration: • 2—IPv4 • 10—IPv6	

RBM/ConfigurationSyncModule

This table contains information about module's sync switch of configuration.

XML structure

```
<RBM>
  <ConfigurationSyncModule>
    <RouteStatic></RouteStatic>
  </ConfigurationSyncModule>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	ConfigurationSyncModule
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RouteStatic	Configuration of static routing.	N/A	Boolean: • true—YES. • false—NO(default).	

Contents

RBM 1
RBM/RemoteBackupGroup 1
XML structure 1
Table description 1
Columns 2
RBM/TrackVrrps 3
XML structure 3
Table description 4
Columns 4
RBM/TrackVlans 4
XML structure 4
Table description 5
Columns 5
RBM/TrackInterfaces 5
XML structure 5
Table description 5
Columns 6
RBM/TrackItems 6
XML structure 6
Table description 6
Columns 7
RBM/AdjustRoutingCost 7
XML structure 7
Table description 7
Columns 8
RBM/Status 8
XML structure 8
Table description 8
Columns 9
RBM/ConfigCheckResults 10
XML structure 10
Table description 10
Columns 10
RBM/RunStateSwitchInfos 11
XML structure 11
Table description 11
Columns 11
RBM/SwitchoverVrrp 12
XML structure 12
Table description 13
Columns 13
RBM/ConfigurationSyncModule 13
XML structure 13
Table description 13
Columns 14

RBM

RBM/RemoteBackupGroup

This table contains information about the remote-backup group.

XML structure

```
<RBM>
  <RemoteBackupGroup>
    <RemoteBackupGrpEnable></RemoteBackupGrpEnable>
    <BackupEnable></BackupEnable>
    <BackupMode></BackupMode>
    <BackupRole></BackupRole>
    <DelayUpTimer></DelayUpTimer>
    <AutoSynEnable></AutoSynEnable>
    <ConfigCheckEnable></ConfigCheckEnable>
    <ConfigCheckTimer></ConfigCheckTimer>
    <BackupDataChannel>
      <BackupInterface></BackupInterface>
    </BackupDataChannel>
    <SourceIp></SourceIp>
    <PeerIp></PeerIp>
    <SourceIpv6></SourceIpv6>
    <PeerIpv6></PeerIpv6>
    <PeerPort></PeerPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveCount></KeepaliveCount>
    <DnsBackupEnable></DnsBackupEnable>
    <HttpBackupEnable></HttpBackupEnable>
  </RemoteBackupGroup>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	RemoteBackupGroup
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteBackupGrpEnable	Whether enable the remote-backup group.	N/A	Boolean: • true—YES • false—NO.	N/A
BackupEnable	Whether enable hot backup	N/A	Boolean: • true—YES • false—NO.	N/A
BackupMode	Remote-backup group mode.	N/A	Enumeration: • 0—active/standy • 1—dual/active.	N/A
BackupRole	Remote-backup group role.	N/A	Enumeration: • 0—master • 1—standy.	N/A
DelayUpTimer	Device delay up	N/A	Unsigned integer. Value range: 0 to 50.	The unit is minutes.
AutoSynEnable	Whether enable the switch of auto-synchronized configuration.	N/A	Boolean: • true—YES • false—NO.	N/A
ConfigCheckEnable	Whether enable the switch of checking configuration.	N/A	Boolean: • true—YES • false—NO.	N/A
ConfigCheckTimer	Check configuration timer	N/A	Unsigned integer. Value range: 1 to 168. Default: 24	The unit is hours.
BackupDataChannel	Backup data channel	N/A	Members include: • BackupInterface. • PeerIp.	N/A
BackupInterface	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIp	Source ip address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
PeerIp	Peer ip address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SourceIpv6	Source ipv6 address	N/A	String, dotted decimal.	Example:2018::1
PeerIpv6	Peer ipv6 address	N/A	String, dotted decimal.	Example:2019::1
PeerPort	Peer Port	N/A	Unsigned integer. Value range: 1024 to 65535.	NA
KeepaliveInterval	Keepalive interval	N/A	Unsigned integer. Value range: 1 to 60.	The unit is seconds.
KeepaliveCount	Keepalive count	N/A	Unsigned integer. Value range: 1 to 255.	If the probe message is not received for four consecutive times, the connection is considered disconnected.
DnsBackupEnable	Whether to enable DNS session backup	N/A	Boolean: • true—YES. • false—NO.	NA
HttpBackupEnable	Whether to enable HTTP session backup	N/A	Boolean: • true—YES. • false—NO.	NA

RBM/TrackVrrps

This table contains information about the tracked vrrps of a remote-backup group.

XML structure

```
<RBM>
  <TrackVrrps>
    <Vrrps>
      <VrrpID></VrrpID>
      <IfIndex></IfIndex>
      <VirtualIpVer></VirtualIpVer>
      <CfgStatus></CfgStatus>
      <RunStatus></RunStatus>
    </Vrrps>
  </TrackVrrps>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackVrrps
Table type	Multi-instance table
Row name	Vrrps
Restrictions	NONE

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrrpID	Vrrp tracked by the remote-backup group.	Index	Unsigned integer. Value range: 1 to 225.	N/A
IfIndex	Interface index	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
VirtualIpVer	Virtual IP version	Index	Enumeration: • 2—IPv4. • 10—IPv6.	N/A
CfgStatus	Configed vrrp status	N/A	Enumeration: • 0—ACTIVE. • 1—STANDBY.	Configed vrrp status
RunStatus	Running vrrp status	N/A	Enumeration: • 0—MASTER. • 1—BACKUP.	Running vrrp status

RBM/TrackVlans

This table contains information about the tracked VLAN of a remote-backup group.

XML structure

```
<RBM>
  <TrackVlans>
    <Vlans>
```

```
      <VlanID></VlanID>
    </Vlans>
  </TrackVlans>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackVlans
Table type	Multi-instance table
Row name	Vlans
Restrictions	VlanID And Interface can only choose one

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN tracked by the remote-backup group.	Index	Unsigned integer. Value range: 1 to 4094.	N/A

RBM/TrackInterfaces

This table contains information about the tracked interface of a remote-backup group.

XML structure

```
<RBM>
  <TrackInterfaces>
    <Interfaces>
      <Interface></Interface>
      <IfStatus></IfStatus>
    </Interfaces>
  </TrackInterfaces>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackInterfaces

Item	Description
Table type	Multi-instance table
Row name	Interfaces
Restrictions	Interface And VlanID can only choose one

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface tracked by the remote-backup group.	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
IfStatus	Tracked interface status	N/A	Enumeration: • 0—DOWN. • 1—UP.	N/A

RBM/TrackItems

This table contains information about the track entry associated with a remote-backup group.

XML structure

```
<RBM>
  <TrackItems>
    <Items>
      <TrackID></TrackID>
      <TrackStatus></TrackStatus>
    </Items>
  </TrackItems>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	TrackItems
Table type	Multi-instance table
Row name	Items

Item	Description
Restrictions	Remote-backup group module associates up to 64 track items

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackID	Associates the track entry with the remote-backup group.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackStatus	Tracked item status	N/A	Enumeration: • 0—Not ready. • 1—Positive. • 2—Negative.	N/A

RBM/AdjustRoutingCost

This table contains information about cost adjustment of routing protocols.

XML structure

```
<RBM>
  <AdjustRoutingCost>
    <RoutingCost>
      <RoutingPro></RoutingPro>
      <OperationType></OperationType>
      <CostValue></CostValue>
    </RoutingCost>
  </AdjustRoutingCost>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	AdjustRoutingCost
Table type	Multi-instance table
Row name	RoutingCost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingPro	Specify a routing protocol	Index	Enumeration: • 1—OSPF • 2—OSPFv3 • 4—BGP • 8—ISIS	N/A
OperationType	Specify an operation type, which is set or add.	N/A	Enumeration: • 0—set • 1—add	Set means specifying an absolute cost. Add means specifying an incremental cost.
CostValue	Specify the incremental cost value	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

RBM/Status

This table contains status information about the remote backup group.

XML structure

```
<RBM>
  <Status>
    <BackupMode></BackupMode>
    <BackupRole></BackupRole>
    <RunStatus></RunStatus>
    <HelloStatus></HelloStatus>
    <DelayUpTimer></DelayUpTimer>
    <SessionBackupStatus></SessionBackupStatus>
    <ConfigBackupStatus></ConfigBackupStatus>
    <ConfigCheck>
      <ConfigCheckResult></ConfigCheckResult>
      <LastCheckTime></LastCheckTime>
    </ConfigCheck>
    <SwitchRunningTime></SwitchRunningTime>
    <DelayUpRemainTime></DelayUpRemainTime>
  </Status>
<RBM>
```

Table description

Item	Description
Feature name	RBM

Item	Description
Table name	Status
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupMode	Remote backup group mode.	N/A	Enumeration: • 0—active/standy. • 1—dual/active. • 2—single device.	N/A
BackupRole	Remote-backup group role.	N/A	Enumeration: • 0—master • 1—standy • 2—initial	Initial means no configuration
RunStatus	Device running status	N/A	Enumeration: • 0—active • 1—standby. • 2—initial	N/A
HelloStatus	Heartbeat connection status	N/A	Boolean: • true—connect • false—disconnect.	N/A
DelayUpTimer	Switchback delay	N/A	Unsigned integer. Value range: 0 to 50.	The unit is minutes.
SessionBackupStatus	Session backup status	N/A	Enumeration: • 0—disable • 1—real-time backup • 2—batch backup	N/A
ConfigBackupStatus	Configuration backup status	N/A	Enumeration: • 0—disable • 1—real-time backup • 2—batch backup	N/A
ConfigCheck	Configuration check	Data structure.	Members include: • ConfigCheckResult. • LastCheckTime.	N/A
ConfigCheckResult	Configuration result	N/A	Enumeration: • 0—not checked • 1—checking	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—consistent • 3—inconsistent	
LastCheckTime	Most recent configuration check time	N/A	DateTime.	Example: 2020-05-12T 13:36:28.
SwitchRunningTime	Device-role state keeps running time	N/A	Unsigned integer.	The unit is seconds.
DelayUpRemainTime	Switchover countdown	N/A	Unsigned integer.	The unit is seconds.

RBM/ConfigCheckResults

This table contains information about the configuration checking results of a remote-backup group.

XML structure

```
<RBM>
  <ConfigCheckResults>
    <CheckResults>
      <ModuleName></ModuleName>
      <Result></Result>
    </CheckResults>
  </ConfigCheckResults>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	ConfigCheckResults
Table type	Multi-instance table
Row name	CheckResult
Restrictions	NONE

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleName	RBM configuration	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	checking module name.			
Result	RBM configuration checking result is consistent or not	N/A	Boolean: • true—YES. • false—NO.	N/A

RBM/RunStateSwitchInfos

This table contains information about the device role switchover of a remote-backup group.

XML structure

```
<RBM>
  <RunStateSwitchInfos>
    <SwitchInfo>
      <SwitchID></SwitchID>
      <Swithtime></Swithtime>
      <SwithContent></SwithContent>
      <SwithReason></SwithReason>
    </SwitchInfo>
  </RunStateSwitchInfos>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	RunStateSwitchInfos
Table type	Multi-instance table
Row name	SwitchInfo
Restrictions	NONE

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SwitchID	State switchover information ID	Index	Unsigned integer. Value range: 1 to 50.	
Swithtime	State switchover time	N/A	DateTime.	Example: 2020-05-12 13:36:28.
SwithContent	State switchover	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	content		• 0—Init to Active. • 1—Init to Standby. • 2—Active to Init. • 3—Standby to Init. • 4—Active to Standby. • 5—Standby to Active.	
SwithReason	State switchover reason	N/A	String, case sensitive. Length: 1 to 511 characters.	Reasons such as: • Local device rebooted. • Peer device rebooted. • Interface status changed. • Health status changed. • Switchover request cmd. • Track entry status changed. • SecBlade Number changed. • Keepalive connection established. • Keepalive connection broken. • Config changed.

RBM/SwitchoverVrrp

This table contains information about swithover of single vrrp.

XML structure

```
<RBM>
  <SwitchoverVrrp>
    <Vrrps>
      <Vrid></Vrid>
      <IpVersion></IpVersion>
    </Vrrps>
  </SwitchoverVrrp>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	SwitchoverVrrp
Table type	Multi-instance table
Row name	Vrrps
Restrictions	NONE

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Vrid	Virtual router identifier	N/A	Unsigned integer. Value range: 1 to 255.	
IpVersion	Specify IP version.	Index	Enumeration: • 2—IPv4 • 10—IPv6	

RBM/ConfigurationSyncModule

This table contains information about module's sync switch of configuration.

XML structure

```
<RBM>
  <ConfigurationSyncModule>
    <RouteStatic></RouteStatic>
  </ConfigurationSyncModule>
</RBM>
```

Table description

Item	Description
Feature name	RBM
Table name	ConfigurationSyncModule
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RouteStatic	Configuration of static routing.	N/A	Boolean: • true—YES. • false—NO.	

Contents

SCD 2
SCD/ClearRecord 2
XML structure 2
Table description 2
Columns 2

SCD

SCD/ClearRecord

This table is used to clear all automatic learning records.

XML structure

```
<SCD>
  <ClearRecord>
    <Clear></Clear>
  </ClearRecord>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	ClearRecord
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all automatic learning records	N/A	This column must be empty.	Required.

密级说明：

对内版分为 4 个密级，分别为 Top Secret 绝密 、Secret 机密 、Confidential 秘密 （对内最常用模板）、

Internal 内参，可根据需求自行修改页脚

Contents

SCD 2
SCD/DetectPolicyList 2
XML structure 2
Table description 2
Columns 2
SCD/DetectRuleList 3
XML structure 3
Table description 4
Columns 4
SCD/ServerAutoLearn 6
XML structure 6
Table description 6
Columns 6
SCD/AutoLearnApply 7
XML structure 7
Table description 7
Columns 8
SCD/ServerAutoLearnBatch 8
XML structure 8
Table description 9
Columns 9
SCD/AutoLearnApplyBatch 10
XML structure 10
Table description 10
Columns 11

SCD

SCD/DetectPolicyList

This table contains information about server connection detection (SCD) policies.

XML structure

```
<SCD>
  <DetectPolicyList>
    <DetectPolicy>
      <PolicyName></PolicyName>
      <ServerIPAddress></ServerIPAddress>
      <SendLog></SendLog>
      <PolicyEnable></PolicyEnable>
    </DetectPolicy>
  </DetectPolicyList>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	DetectPolicyList
Table type	Multi-instance table
Row name	DetectPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SCD policy name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required. Policy name can not contain

				the word default as prefix when create a new policy. Modification is not allowed.
ServerIPAddress	Server IP address	N/A	String, dotted decimal notation.	Required. Example: 1.1.1.1.
SendLog	Whether to enable logging for server connection detection	N/A	Boolean: • **true**—Enable (default) • false—Disable	Optional.
PolicyEnable	Whether to enable the SCD policy	N/A	Boolean: • **true**—Enable (default) • **false**—Disable	Optional.

SCD/DetectRuleList

This table contains information about rules of an SCD policy

XML structure

```
<SCD>
  <DetectRuleList>
    <DetectRule>
      <PolicyName></PolicyName>
      <ServerIPAddress></ServerIPAddress>
      <RuleID></RuleID>
      <AutoLearnFlag></AutoLearnFlag>
      <DestIPAddress></DestIPAddress>
      <TCPPortRange></TCPPortRange>
      <UDPPortRange></UDPPortRange>
      <ICMP></ICMP>
    </DetectRule>
  </DetectRuleList>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	DetectRuleList
Table type	Multi-instance table
Row name	DetectRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SCD policy name.	Index	String, case-insensitive. Length: 1 to 63 characters.	Required. Allowed to set empty value when AutoLearnFlag column is true.
ServerIPAddress	Server IP address.	Index	String, dotted decimal notation.	Required. Example: 1.1.1.1.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 1 to 65535.	Required. You must set this column to 0 when you create a new row. And if you set this column to 0, the device automatically assigns the rule an ID.
AutoLearnFlag	Whether configuration is from autolearn record	N/A	Boolean: • **true**—Configuration is from autolearn • **false**—Configuration is not from autolearn (default)	N/A

DestIPAddress	Destination IP address of the rule.	N/A	String, dotted decimal notation.	Required. Example: 1.1.1.1. Dest IP must be different in rules of the same policy. Rules of different policies can have the same destination IP address.
TCPPortRange	Port ranges of TCP protocol.	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. Items range: 0 to 20.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You must set at least one protocol.
UDPPortRange	Port ranges of UDP protocol.	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. Items range: 0 to 20.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You must set at least one protocol.
ICMP	ICMP protocol.	N/A	Boolean: • **true**—Enabled • **false**—Disabled (default)	You must set at least one protocol.

SCD/ServerAutoLearn

This table contains the information of the server automatic learning feature.

XML structure

```
<SCD>
  <ServerAutoLearn>
    <ServerList>
      <ServerName></ServerName>
    </ServerList>
    <TimeType></TimeType>
    <LearnStatus></LearnStatus>
  </ServerAutoLearn>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	ServerAutoLearn
Table type	Single-instance table
Row name	N/A
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group	N/A	String, case-insensitive.	You must select one or more object groups to start auto

	name.		Length: 1 to 31 characters.	learn.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	You must select a learning time interval to start autolearn.
LearnStatus	Whether automatic learning is started	N/A	Boolean: • **true**—Automtic learning is started. **false**—Automatic learning is stopped (default)	N/A

SCD/AutoLearnApply

This table contains information about SCD automatic learning application.

XML structure

```
<SCD>
  <AutoLearnApply>
    <ServerList>
      <ServerName></ServerName>
    </ServerList>
    <TimeType></TimeType>
  </AutoLearnApply>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	AutoLearnApply
Table type	Single-instance table
Row name	N/A
Restrictions	

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. • Length: 1 to 31 characters.	Setting this column to null clears the setting.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	Setting this column to null clears the setting.

SCD/ServerAutoLearnBatch

This table contains the bulk information of the server automatic learning feature.

XML structure

```
<SCD>
  <ServerAutoLearnBatch>
    <AutoLearn>
      <SeqNum></SeqNum>
      <ServerList>
        <ServerName></ServerName>
      </ServerList>
      <TimeType></TimeType>
      <LearnStatus></LearnStatus>
      <IsIncrement></IsIncrement>
    </AutoLearn>
  </ServerAutoLearnBatch>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	ServerAutoLearnBatch
Table type	Single-instance table
Row name	AutoLearn
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
ServerList	IPv4 object group name list.	Data structure	Members include: ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	You must select one or more object groups to start auto learn.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	You must select a learning time interval to start autolearn.
LearnStatus	Whether automatic learning is started	N/A	Enumeration: • 1— • 2—12 hours	N/A

			• 3—24 hours • 4—1 week	
IsIncrement	Is Increment	N/A	Enumeration: • 1—The only distribution • 2—the previous one in batch distribution 3—the last one in batch distribution	N/A

SCD/AutoLearnApplyBatch

This table contains the bulk information about SCD automatic learning application.

XML structure

```
<SCD>
  <AutoLearnApplyBatch>
    <LearnApply>
      <SeqNum></SeqNum>
      <ServerList>
        <ServerName></ServerName>
      </ServerList>
      <TimeType></TimeType>
      <IsIncrement></IsIncrement>
     <LearnApply>
  </AutoLearnApplyBatch>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	AutoLearnApplyBatch
Table type	Single-instance table
Row name	LearnApply
Restrictions	

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
ServerList	IPv4 object group name list.	Data structure	Members include: ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. • Length: 1 to 31 characters.	Setting this column to null clears the setting.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	Setting this column to null clears the setting.
IsIncrement	Is Increment	N/A	Enumeration: • 1—The only distribution • 2—the previous one in batch distribution • 3—the last one in batch distribution	N/A

Contents

SCD 2
SCD/DetectPolicyList 2
XML structure 2
Table description 2
Columns 3
SCD/DetectRuleList 3
XML structure 4
Table description 4
Columns 4
SCD/ServerAutoLearn 6
XML structure 6
Table description 6
Columns 7
SCD/AutoLearnApply 7
XML structure 8
Table description 8
Columns 8
AutoLearnRecords 9
XML structure 9
Table description 9
Columns 10
SCD/ServerAutoLearnBatch 10
XML structure 10
Table description 11
Columns 11
SCD/AutoLearnApplyBatch 12
XML structure 12
Table description 13
Columns 13

SCD

SCD/DetectPolicyList

This table contains information about server connection detection (SCD) policies.

XML structure

```
<SCD>
  <DetectPolicyList>
    <DetectPolicy>
      <PolicyName></PolicyName>
      <Position></Position>
      <ServerIPAddress></ServerIPAddress>
      <RuleNum></RuleNum>
      <SendLog></SendLog>
      <PolicyEnable></PolicyEnable>
      <PolicyNumber></PolicyNumber>
    </DetectPolicy>
  </DetectPolicyList>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	DetectPolicyList
Table type	Multi-instance table
Row name	DetectPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SCD policy name	Index	String, case-insensitive. Length: 1 to 63 characters.	Required. Policy name can not contain the word default as prefix when create a new policy. Modification is not allowed.
Position	Record the number of pagination	Index	Unsigned integer. Value range:0 to 200	N/A
ServerIPAddress	Server IP address	N/A	String, dotted decimal notation.	Required. Example: 1.1.1.1.
RuleNum	Number of rules in the SCD policy	N/A	Unsigned integer. Value range: 0 to 100.	N/A
SendLog	Whether to enable logging for server connection detection	N/A	Boolean: • **true**—Enable (default) • false—Disable	Optional.
PolicyEnable	Whether to enable the SCD policy	N/A	Boolean: • **true**—Enable (default) • **false**—Disable	Optional.
PolicyNumber	Total number of SCD policies	N/A	Unsigned integer. Value range: 0 to 1000	N/A

SCD/DetectRuleList

This table contains information about rules of an SCD policy

XML structure

```
<SCD>
  <DetectRuleList>
    <DetectRule>
      <PolicyName></PolicyName>
      <Position></Position>
      <RuleID></RuleID>
      <RuleNum></RuleNum>
      <DestIPAddress></DestIPAddress>
      <TCPPortRange></TCPPortRange>
      <UDPPortRange></UDPPortRange>
      <ICMP></ICMP>
    </DetectRule>
  </DetectRuleList>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	DetectRuleList
Table type	Multi-instance table
Row name	DetectRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SCD policy name.	Index	String, case-insensitive. Length: 1 to 63 characters.	Required. Allowed to set empty value when AutoLearnFlag column is true.
Position	Record the number of	Index	Unsigned integer.	N/A

	pagination		Value range:0 to 200	
RuleID	Rule ID.	Index	Unsigned integer. Value range: 1 to 65535.	Required. You must set this column to 0 when you create a new row. And if you set this column to 0, the device automatically assigns the rule an ID.
RuleNum	Total number of rules in the policy	N/A	Unsigned integer. • Value range: 0 to 100.	N/A
DestIPAddress	Destination IP address of the rule.	N/A	String, dotted decimal notation.	Required. Example: 1.1.1.1. Dest IP must be different in rules of the same policy. Rules of different policies can have the same destination IP address.
TCPPortRange	Port ranges of TCP protocol.	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. Items range: 0 to 20.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You must set at least one protocol.
UDPPortRange	Port ranges of UDP protocol.	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You must set at least one protocol.

			the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. Items range: 0 to 20.	
ICMP	ICMP protocol.	N/A	Boolean: • **true**—Enabled • **false**—Disabled (default)	You must set at least one protocol.

SCD/ServerAutoLearn

This table contains the information of the server automatic learning feature.

XML structure

```
<SCD>
  <ServerAutoLearn>
    <ServerList>
      <ServerName></ServerName>
    </ServerList>
    <TimeType></TimeType>
    <LearnStatus></LearnStatus>
    <Percent></Percent>
  </ServerAutoLearn>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	ServerAutoLearn
Table type	Single-instance table
Row name	N/A
Restrictions	

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	You must select one or more object groups to start auto learn.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	You must select a learning time interval to start autolearn.
LearnStatus	Whether automatic learning is started	N/A	Boolean: • **true**—Automtic learning is started. **false**—Automatic learning is stopped (default)	N/A
Percent	Auto learning complete percentage.	N/A	Unassigned integer. • Value range: 0 to 100.	N/A

SCD/AutoLearnApply

This table contains information about SCD automatic learning application.

XML structure

```
<SCD>
  <AutoLearnApply>
    <ServerList>
      <ServerName></ServerName>
    </ServerList>
    <TimeType></TimeType>
  </AutoLearnApply>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	AutoLearnApply
Table type	Single-instance table
Row name	N/A
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. • Length: 1 to 31 characters.	Setting this column to null clears the setting.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	Setting this column to null clears the setting.

AutoLearnRecords

This table contains information about the automatic learning records.

XML structure

```
<SCD>
  <AutoLearnRecords>
    <Record>
      <Position></Position>
      <RecordNumber></RecordNumber>
      <ServerIPAddress></ServerIPAddress>
      <DestIPAddress></DestIPAddress>
      <Protocol></Protocol>
      <Port></Port>
    </Record>
  </AutoLearnRecords>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	AutoLearnRecords
Table type	Single-instance table
Row name	Record
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RecordNumber	Total number of auto-learn records.	N/A	Unsigned integer. Value range: 0 to 100000.	N/A
ServerIPAddress	Server IP address of the record.	N/A	String, dotted decimal notation.	N/A
Position	Record the number of pagination	Index	Unsigned integer. Value range:0 to 200	N/A
DestIPAddress	Destination IP address of the record.	N/A	String, dotted decimal notation.	N/A
Protocol	Protocol information of the record.	N/A	Enumeration: • **1**—TCP • 2—UDP • 3—ICMP	N/A
Port	Port information of the record.	N/A	Unsigned integer. • Value range: 1 to 65535.	This column is available only when the Protocol column is TCP or UDP.

SCD/ServerAutoLearnBatch

This table contains the bulk information of the server automatic learning feature.

XML structure

```
<SCD>
  <ServerAutoLearnBatch>
    <AutoLearn>
      <SeqNum></SeqNum>
      <ServerList>
```

```
        <ServerName></ServerName>
      </ServerList>
      <TimeType></TimeType>
      <LearnStatus></LearnStatus>
      <Percent></Percent>
      <IsIncrement></IsIncrement>
    <AutoLearn>
  </ServerAutoLearnBatch>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	ServerAutoLearnBatch
Table type	Single-instance table
Row name	AutoLearn
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	You must select one or more object groups to start auto learn.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour	You must select a learning time interval to start

			• 2—12 hours • 3—24 hours • 4—1 week	autolearn.
LearnStatus	Whether automatic learning is started	N/A	Enumeration: • 1— • 2—12 hours • 3—24 hours • 4—1 week	N/A
Percent	Auto learning complete percentage.	N/A	Unassigned integer. • Value range: 0 to 100.	N/A
IsIncrement	Is Increment	N/A	Enumeration: • 1—The only distribution • 2—the previous one in batch distribution 3—the last one in batch distribution	N/A

SCD/AutoLearnApplyBatch

This table contains the bulk information about SCD automatic learning application.

XML structure

```
<SCD>
  <AutoLearnApplyBatch>
    <LearnApply>
      <SeqNum></SeqNum>
      <ServerList>
        <ServerName></ServerName>
      </ServerList>
      <TimeType></TimeType>
      <IsIncrement></IsIncrement>
    <LearnApply>
  </AutoLearnApplyBatch>
</SCD>
```

Table description

Item	Description
Feature name	SCD
Table name	AutoLearnApplyBatch
Table type	Single-instance table
Row name	LearnApply
Restrictions	
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
ServerList	IPv4 object group name list.	Data structure	Members include: • ServerName	You must select one or more object groups to start auto learn.
ServerName	IPv4 object group name.	N/A	String, case-insensitive. • Length: 1 to 31 characters.	Setting this column to null clears the setting.
TimeType	Learning interval	N/A	Enumeration: • 1—1 hour • 2—12 hours • 3—24 hours • 4—1 week	Setting this column to null clears the setting.

Column name	Column description	Column type	Data type and restrictions	Remarks
IsIncrement	Is Increment	N/A	Enumeration: • 1—The only distribution • 2—the previous one in batch distribution • 3—the last one in batch distribution	N/A

Contents

LB 1
LB/ALG 1
XML structure 1
Table description 1
Columns 2
LB/Log 3
XML structure 3
Table description 3
Columns 4
LB/SNATPools 4
XML structure 4
Table description 4
Columns 5
LB/SNATPoolsIpv4Infos 5
XML structure 5
Table description 5
Columns 5
LB/SNATPoolsIpv6Infos 6
XML structure 6
Table description 6
Columns 7
LB/SnatArpInterfaces 7
XML structure 7
Table description 8
Columns 8

LB

LB/ALG

This table contains information about ALG.

XML structure

```
<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PptpEnable></PptpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table
Row name	N/A
Restrictions	Only ALG can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SipEnable	Enable the SIP	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol service.		• 0—Disable (default). • 1—Enable.	
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/Log

This table contains information about LB logs.

XML structure

```
<LB>
  <Log>
    <BaseEnable></BaseEnable>
    <NatEnable></NatEnable>
    <BandwidthBusyEnable></BandwidthBusyEnable>
    <ScheduleEnable></ScheduleEnable>
</Log>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
ScheduleEnable	Enable logging for packet types and DNS domain names.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/SNATPools

This table contains LB SNAT pool information.

XML structure

```
<LB>
  <SNATPools>
    <SNATPool>
      <SNATPoolName></SNATPoolName>
      <Description></Description>
    </SNATPool>
  </SNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPoolName	Name of SNAT pool	Index	String. Case-insensitive. Length: 1 to 63 characters.	N/A.
Description	SNAT pool description.	N/A	String: Case-sensitive Length: No more than 127 characters	N/A

LB/SNATPoolsIpv4Infos

This table contains information about IPv4 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv4Infos>
    <SNATPoolsIpv4Info>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </SNATPoolsIpv4Info>
  </SNATPoolsIpv4Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv4Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv4Info
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4AddressStart	Start IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses,

				multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	End IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.

LB/SNATPoolsIpv6Infos

This table contains information about IPv6 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv6Infos>
    <SNATPoolsIpv6Info>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SNATPoolsIpv6Info>
  </SNATPoolsIpv6Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv6Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv6Info
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```
<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces
Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

Contents

LB 1
LB/ALG 1
XML structure 1
Table description 1
Columns 1
LB/Log 3
XML structure 3
Table description 3
Columns 3
LB/SNATPools 3
XML structure 4
Table description 4
Columns 4
LB/SNATPoolsIpv4Infos 4
XML structure 4
Table description 5
Columns 5
LB/SNATPoolsIpv6Infos 5
XML structure 5
Table description 6
Columns 6
LB/SnatArpInterfaces 6
XML structure 6
Table description 6
Columns 7
LB/SNATPoolSummaries 7
XML structure 7
Table description 8
Columns 8

LB

LB/ALG

This table contains information about ALG.

XML structure

```
<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PptpEnable></PptpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table
Row name	N/A
Restrictions	Only ALG can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol	N/A	Enumeration: • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service.		• 1—Enable.	
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

LB/Log

This table contains information about LB logs.

XML structure

```
<LB>
  <Log>
    <BaseEnable></BaseEnable>
    <NatEnable></NatEnable>
     <BandwidthBusyEnable></BandwidthBusyEnable>
  </Log>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/SNATPools

This table contains LB SNAT pool information.

XML structure

```
<LB>
  <SNATPools>
    <SNATPool>
      <SNATPoolName></SNATPoolName>
      <Description></Description>
    </SNATPool>
  </SNATPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPoolName	Name of SNAT pool.	Index	String. Case-insensitive. Length: 1 to 63 characters.	N/A.
Description	SNAT pool description.	N/A	String: Case-sensitive Length: No more than 127 characters	N/A

LB/SNATPoolsIpv4Infos

This table contains information about IPv4 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv4Infos>
    <SNATPoolsIpv4Info>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Channel></Channel>
    </SNATPoolsIpv4Info>
```

```
  </SNATPoolsIpv4Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv4Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv4Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4AddressStart	Start IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4AddressEnd	End IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.

LB/SNATPoolsIpv6Infos

This table contains information about IPv6 addresses in an LB SNAT pool.

XML structure

```
<LB>
  <SNATPoolsIpv6Infos>
    <SNATPoolsIpv6Info>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SNATPoolsIpv6Info>
  </SNATPoolsIpv6Infos>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolsIpv6Infos
Table type	Multi-instance table
Row name	SNATPoolsIpv6Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of SNAT pool	Index	String.Case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```
<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces

Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

LB/SNATPoolSummaries

This table contains summary information about LB SNAT pool.

XML structure

```
<SLB>
  <SNATPoolSummaries>
    <SNATPoolSummary>
      <SNATPoolName></SNATPoolName>
      <Description></Description>
      <TotalCnt></TotalCnt>
     <Ipv4AddressList>
        <Ipv4AddressStart></Ipv4AddressStart>
        <Ipv4AddressEnd></Ipv4AddressEnd>
      </Ipv4AddressList>
      <Ipv6AddressList>
        <Ipv6AddressStart></Ipv6AddressStart>
        <Ipv6AddressEnd></Ipv6AddressEnd>
      </Ipv6AddressList>
    </SNATPoolSummary>
  </SNATPoolSummaries>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	SNATPoolSummaries
Table type	Multi-instance table
Row name	SNATPoolSummary
Restrictions	Only summaries of loadbalance snat pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPoolName	Name of SNAT pool	Index	String. Case-insensitive. Length: 1 to 63 characters.	N/A.
Description	SNAT pool description.	N/A	String: Case-sensitive Length: No more than 127 characters	N/A
TotalCnt	Total number of parameter profile entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv4AddressList	IPv4 address range list for the snat pool.	Data structure	Members include: Ipv4AddressStart and Ipv4AddressEnd.	N/A
Ipv4AddressStart	Start IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4AddressEnd	End IP address	Index	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Ipv6AddressList	IPv6 address range list for the snat pool.	Data structure	Members include: Ipv6AddressStart and Ipv6AddressEnd.	N/A
Ipv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	Example: 2::2.

Contents

LLB 1
LLB/MoveSmartRoutePolicy 1
XML structure 1
Table description 1
Columns 1
LLB/ResetCountsSmartRoutePolicies 2
XML structure 2
Table description 2
Columns 2
LLB/ResetAllCountSmartRoutePolicies 2
XML structure 2
Table description 3
Columns 3
LLB/ResetAllPersistTable 3
XML structure 3
Table description 3
Columns 4

LLB

LLB/MoveSmartRoutePolicy

This table contains information about the route policy information.

XML structure

```
<LLB>
  <MoveSmartRoutePolicy>
    <RoutePolicy>
      <PolicyName></PolicyName>
      <AfterPolicyName></AfterPolicyName>
      <BeforePolicyName></BeforePolicyName>
    </RoutePolicy>
  </MoveSmartRoutePolicy>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	MoveSmartRoutePolicy
Table type	Multi-instance table
Row name	RoutePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of smart route policy	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
AfterPolicyName	Name of the smart route policy that the row will be inserted before.	N/A	String. case insensitive. Length: 1 to 63 characters.	This column can be null.
BeforePolicyName	Name of the smart route policy that the row will be inserted after	N/A	String. case insensitive. Length: 1 to 63 characters.	AfterPolicyNam and BeforePolicyName can not configure together.

LLB/ResetCountsSmartRoutePolicies

This table contains the Smart Route Policy hit Counts.

XML structure

```
<LLB>
  <ResetCountsSmartRoutePolicies>
    </ResetCountsSmartRoutePolicy>
      <PolicyName></PolicyName>
      <Clear></Clear>
    </ResetCountsSmartRoutePolicy>
  </ResetCountsSmartRoutePolicies>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ResetCountsSmartRoutePolicies
Table type	Muti-instance table
Row name	ResetCountsSmartRoutePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified smart routing-policy	N/A	This column must be empty.	N/A

LLB/ResetAllCountSmartRoutePolicies

This table is used to clear all smart route policy hit counts.

XML structure

```
<LLB>
  <ResetAllCountSmartRoutePolicies>
```

```
    <Clear></Clear>
  </ResetAllCountSmartRoutePolicies>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ResetAllCountSmartRoutePolicies
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all smart route policy' statistics.	N/A	This column must be empty.	• N/A

LLB/ResetAllPersistTable

This table is used to clear all smart route policy persist.

XML structure

```
<LLB>
  <ResetAllPersistTable>
    <Clear></Clear>
  </ResetAllPersistTable>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ResetAllPersistTable
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all smart route policy' persist.	N/A	This column must be empty.	• N/A

Contents

Contents i
LLB 1
LLB/SmartRouteLinks 1
XML structure 1
Table description 1
Columns 1
LLB/SmartRouteParameter 2
XML structure 2
Table description 3
Columns 3
LLB/SmartRoutePolicies 4
XML structure 4
Table description 4
Columns 5
LLB/SmartRouteSourceIPRules 6
XML structure 6
Table description 6
Columns 7
LLB/SmartRouteDestRules 8
XML structure 8
Table description 9
Columns 9
LLB/SmartRouteInterfaceRules 11
XML structure 11
Table description 12
Columns 12
LLB/SmartRouteScheduleLinks 12
XML structure 12
Table description 13
Columns 13
LLB/SmartRouteLinkProbes 13
XML structure 13
Table description 14
Columns 14
LLB/SmartRouteLinkIPv4Probes 14
XML structure 14
Table description 15
Columns 15
LLB/SmartRouteLinkIPv6Probes 15
XML structure 15
Table description 16
Columns 16
LLB/ISPs 16
XML structure 16
Table description 17
Columns 17
LLB/ISPFile 17
XML structure 17
Table description 17
Columns 18
LLB/Ipv4ISPAddressGroups 18
XML structure 18
Table description 18
Columns 19
LLB/Ipv6ISPAddressGroups 19

XML structure 19
Table description 19
Columns 20

LLB

LLB/SmartRouteLinks

This table contains information about link..

XML structure

```
<LLB>
  <SmartRouteLinks>
    <SmartRouteLink>
      <InterfaceName></InterfaceName>
      <GatewayAddr></GatewayAddr>
      <GatewayIPv6Addr></GatewayIPv6Addr>
      <NoIPv4RouteEnable></NoIPv4RouteEnable>
      <NoIPv6RouteEnable></NoIPv6RouteEnable>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
    </SmartRouteLink>
  </SmartRouteLinks>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinks
Table type	Multi-instance table
Row name	SmartRouteILink
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters. By default, no interface name is	N/A

			specified.	
GatewayAddr	Gateway IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
GatewayIPv6Addr	Gateway IPv6 address	N/A	String, dotted decimal notation.	Example: 2::2.
NoIPv4RouteEnable	Whether Gateway IPv4 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
NoIPv6RouteEnable	Whether Gateway IPv6 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A

LLB/SmartRouteParameter

This table contains basic information.about smart-route

XML structure

```
<LLB>
  <SmartRouteParameter>
      <PersistType></PersistType>
      <PersistTimeout></PersistTimeout>
      <PersistIPv4SrcMask></PersistIPv4SrcMask>
```

```
    <PersistIPv4DestMask></PersistIPv4DestMask>
    <PersistIPv6SrcPreFix></PersistIPv6SrcPreFix>
    <PersistIPv6DestPreFix></PersistIPv6DestPreFix>
    <PersistPriorBusyEnable></PersistPriorBusyEnable>
  </SmartRouteParameter>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteParameters
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PersistType	Sticky method of smart-route	N/A	Enumeration: • 0—None. • 1—Destination IP stickiness. (default) • 2—Source IP stickiness. • 3—Source IP and destination IP stickiness.	N/A
PersistTime out	Timeout time of the sticky of smart-route.	N/A	Unsigned integer. Value range: The value takes is in the range of 1 to 604800. Unit: second. By default, the value is 300 .	N/A
PersistIPv4 SrcMask	IPv4 mask of source for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when PersistType is Source IP stickiness.(2) or Source IP and destination IP stickiness.(3).
PersistIPv4 DestMask	IPv4 mask of destination for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 24.	The column can only be configured when PersistType is Destination IP stickiness.(1) or Source IP and destination IP stickiness.(3).

PersistIPv6 SrcPreFix	IPv6 prefix of source for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column can only be configured when PersistType is Source IP stickiness.(2) or Source IP and destination IP stickiness.(3).
PersistIPv6 DestPreFix	IPv6 prefix of destination for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 64.	The column can only be configured when PersistType is Destination IP stickiness.(1) or Source IP and destination IP stickiness.(3).
PersistPrior BusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A

LLB/SmartRoutePolicies

This table contains information.about smart-route policy

XML structure

```
<LLB>
  <SmartRoutePolicies>
    <SmartRoutePolicy>
      <PolicyName></PolicyName>
      <BeforePolicyName></BeforePolicyName>
      <Type></Type>
      <Description></Description>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <PolicyEnable></PolicyEnable>
      <BusyProtectEnable></BusyProtectEnable>
      <LinksPredictor></LinksPredictor>
      </SmartRoutePolicy>
  </SmartRoutePolicies>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRoutePolicies
Table type	Muti-instance table
Row name	SmartRoutePolicy
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
BeforePolicyName	Name of the smart route policy that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	BeforePolicyNamemust be an existing smart route policy. By default, indicates the row will be inserted at last.
Type	Type of the smart route policy.	N/A	Enumeration: • 0—IPv4. • 1—IPv6	When a smart route policy is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the smart route policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the smart route policy.	N/A	Enumeration: • 0—Predictor out interface(default). • 1—Forward all.	When ForwardType changes from Predictor out interface(0) to Forward all.(1) , scheduleLinks will be delete
Fallback	Fallback action when schedule out-interface failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next smart route policy	N/A
PolicyEnable	Enable the smart route policy.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
LinksPredictor	Predictor algorithm for smart route to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Least-connection . • 3—Hash source address. • 4—Hash source address and port. • 5—Hash destination address. • 7—Inbound	N/A

			bandwidth. • 8—Outbound bandwidth. • 10—Max inbound bandwidth. • 11—Max outbound bandwidth.	

LLB/SmartRouteSourceIPRules

This table contains information about smart-Route policy source ip match rules.

XML structure

```
<LLB>
  <SmartRouteSourceIPRules>
    <SmartRouteSourceIPRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SmartRouteSourceIPRule>
  </SmartRouteSourceIPRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteSourceIPRules
Table type	Multi-instance table
Row name	SmartRouteSourceIPRules
Restrictions	Only SmartRoute policy source ip match rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleType	Method of the source ip match rule.	N/A	Enumeration: • 0—IP Any. • 1—IPv4 subnet. • 2—IPv4 range.. • 3—IPv6 subnet. • 4—IPv6 range.	N/A
Ipv4Address	Match rule of IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the RuleType is IPv4 subnet (1).
Ipv4PrefixLength	Mask length of the IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when the RuleType is IPv4 subnet (1). And Ipv4Address is configured
Ipv4AddressStart	The start IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	This column can be configured only when the RuleType is IPv4 range (2). Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	The end IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	Ipv4AddressStart and Ipv4AddressEnd should be configured together. Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv6Address	Match rule of IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the RuleType is IPv6 subnet (3).
Ipv6PrefixLength	Prefix length of the IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when the RuleType is IPv6 subnet (3) And Ipv6Address is configured
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	This column can be configured only when the type is IPv6 range (4). Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Ipv6AddressStart and Ipv6AddressEnd should be configured together. Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.

LLB/SmartRouteDestRules

This table contains information about smart-Route policy match rules.

XML structure

```
<LLB>
  <SmartRouteDestRules>
```

```
    <SmartRouteDestRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <RuleType></RuleType>
       <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6Address></Ipv6Address>
       <Ipv6PrefixLength></Ipv6PrefixLength>
       <Ipv6AddressStart></Ipv6AddressStart>
       <Ipv6AddressEnd></Ipv6AddressEnd>
       <ISPName></ISPName>
    </SmartRouteDestRule>
  </SmartRouteDestRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteDestRules
Table type	Multi-instance table
Row name	SmartRouteDestRule
Restrictions	Only SmartRoute policy match destination rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleType	Type of the match rule.	N/A	Enumeration: • 0—IP Any. • 1—IPv4 subnet. • 2—IPv4 range..	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—IPv6 subnet. • 4—IPv6 range. • 5—ISP.	
Ipv4Address	Match rule of IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the RuleType is IPv4 subnet (1).
Ipv4PrefixLength	Mask length of the IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when the RuleType is IPv4 subnet (1). And Ipv4Address is configured
Ipv4AddressStart	The start IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	This column can be configured only when the RuleType is IPv4 range (2). Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	The end IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	Ipv4AddressStart and Ipv4AddressEnd should be configured together. Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv6Address	Match rule of IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the RuleType is IPv6 subnet (3).
Ipv6PrefixLength	Prefix length of the IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when the RuleType is IPv6 subnet (3) And

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ipv6Address is configured
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	This column can be configured only when the type is IPv6 range (4). Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Ipv6AddressStart and Ipv6AddressEnd should be configured together. Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
ISPName	Name of the ISP	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the RuleType is ISP(5)

LLB/SmartRouteInterfaceRules

This table contains information about smart-Route policy match rules.

XML structure

```
<LLB>
  <SmartRouteInterfaceRules>
    <SmartRouteInterfaceRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <InterfaceName></InterfaceName>
    </SmartRouteInterfaceRule>
  </SmartRouteInterfaceRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteInterfaceRules
Table type	Multi-instance table
Row name	SmartRouteInterfaceRule
Restrictions	Only SmartRoute policy match source interface rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the RuleType is Interface (6)

LLB/SmartRouteScheduleLinks

This table contains information about smart-Route policy schedule links.

XML structure

```
<LLB>
  <SmartRouteScheduleLinks>
    <SmartRouteScheduleLink>
      <PolicyName></PolicyName>
      <InterfaceName></InterfaceName>
      <Weight></Weight>
    </SmartRouteScheduleLink>
  </SmartRouteScheduleLinks>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteScheduleLinks
Table type	Multi-instance table
Row name	SmartRouteScheduleLink
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LLB/SmartRouteLinkProbes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkProbes>
    <SmartRouteLinkProbe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
    </SmartRouteLinkProbe>
  </SmartRouteLinkProbes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkProbes
Table type	Multi-instance table
Row name	SmartRouteLinkProbe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LLB/SmartRouteLinkIPv4Probes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkIPv4Probes>
    <SmartRouteLinkIPv4Probe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
      <DestIpv4Address></DestIpv4Address>
    </SmartRouteLinkIPv4Probe>
  </SmartRouteLinkIPv4Probes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkIPv4Probes
Table type	Multi-instance table
Row name	SmartRouteLinkIPv4Probe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DestIpv4Address	Destination IPv4 address for probe	Index	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.

LLB/SmartRouteLinkIPv6Probes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkIPv6Probes>
    <SmartRouteLinkIPv6Probe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
      <ProbeTargetType></ProbeTargetType>
      <DestIpv4Address></DestIpv4Address>
      <DestIpv6Address></DestIpv6Address>
    </SmartRouteLinkIPv6Probe>
  </SmartRouteLinkIPv6Probes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkIPv6Probes
Table type	Multi-instance table
Row name	SmartRouteLinkIPv6Probe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DestIpv6Address	Destination IPv6 address for probe	Index	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.

LLB/ISPs

This table contains information about ISP.

XML structure

```
<LLB>
  <ISPs>
    <ISP>
      <Name></Name>
      <Description></Description>
      <Origin></Origin>
    </ISP>
  </ISPs>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only manual ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	N/A
Origin	The origin of ISP configuration	N/A	Enumeration: 1— File import. 2— By user manual 3— Both file import and by user manua	N/A

LLB/ISPFile

This table contains information about ISP file.

XML structure

```
<LLB>
  <ISPFile>
    <FileName></FileName>
  </ISPFile>
</LLB>
```

Table description

Item	Description
Feature name	LLB

Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LLB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LLB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv4ISPAddressGroup
Restrictions	Only manual IPv4 ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range:1 to 32.	N/A

LLB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```
<LLB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only manual IPv6 ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range:1 to 128.	N/A

Contents

Contents i
LLB 1
LLB/SmartRouteLinks 1
XML structure 1
Table description 1
Columns 1
LLB/SmartRouteParameter 2
XML structure 2
Table description 3
Columns 3
LLB/SmartRoutePolicies 4
XML structure 4
Table description 4
Columns 4
LLB/SmartRouteSourceIPRules 6
XML structure 6
Table description 6
Columns 6
LLB/SmartRouteDestRules 7
XML structure 7
Table description 8
Columns 8
LLB/SmartRouteInterfaceRules 9
XML structure 9
Table description 9
Columns 10
LLB/SmartRouteScheduleLinks 10
XML structure 10
Table description 10
Columns 11
LLB/SmartRouteLinkProbes 11
XML structure 11
Table description 11
Columns 11
LLB/SmartRouteLinkIPv4Probes 12
XML structure 12
Table description 12
Columns 12
LLB/SmartRouteLinkIPv6Probes 13
XML structure 13
Table description 13
Columns 13
LLB/ISPs 14
XML structure 14
Table description 14
Columns 14
LLB/ISPFile 15
XML structure 15
Table description 16
Columns 16
LLB/Ipv4ISPAddressGroups 16
XML structure 16
Table description 16
Columns 17
LLB/Ipv6ISPAddressGroups 17

XML structure 17
Table description 17
Columns 18
LLB/SmartRoutePolicySummaries 18
XML structure 18
Table description 19
Columns 19
LLB/SmartRouteLinkSummaries 22
XML structure 22
Table description 22
Columns 23

LLB

LLB/SmartRouteLinks

This table contains information about link..

XML structure

```
<LLB>
  <SmartRouteLinks>
    <SmartRouteLink>
      <InterfaceName></InterfaceName>
      <GatewayAddr></GatewayAddr>
      <GatewayIPv6Addr></GatewayIPv6Addr>
      <NoIPv4RouteEnable></NoIPv4RouteEnable>
      <NoIPv6RouteEnable></NoIPv6RouteEnable>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
    </SmartRouteLink>
  </SmartRouteLinks>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinks
Table type	Multi-instance table
Row name	SmartRouteILink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters.	N/A
GatewayAddr	Gateway IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

GatewayIPv6Addr	Gateway IPv6 address	N/A	String, dotted decimal notation.	Example: 2::2.
NoIPv4RouteEnable	Whether Gateway IPv4 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
NoIPv6RouteEnable	Whether Gateway IPv6 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A

LLB/SmartRouteParameter

This table contains basic information about smart-route

XML structure

```
<LLB>
  <SmartRouteParameter>
      <PersistType></PersistType>
      <PersistTimeout></PersistTimeout>
      <PersistIPv4SrcMask></PersistIPv4SrcMask>
      <PersistIPv4DestMask></PersistIPv4DestMask>
      <PersistIPv6SrcPreFix></PersistIPv6SrcPreFix>
      <PersistIPv6DestPreFix></PersistIPv6DestPreFix>
      <PersistPriorBusyEnable></PersistPriorBusyEnable>
  </SmartRouteParameter>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteParameters
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PersistType	Sticky method of smart-route	Index	Enumeration: • 0—None. • 1—Destination IP stickiness. • 2—Source IP stickiness. • 3—Source IP and destination IP stickiness.	N/A
PersistTime out	Timeout time of the sticky of smart-route.	N/A	Unsigned integer. Value range: The value takes is in the range of 1 to 604800. Unit: second. .	The column can only be configured when PersistType is not None.(0)
PersistIPv4 SrcMask	IPv4 mask of source for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when PersistType is Source IP stickiness.(2) or Source IP and destination IP stickiness.(3).
PersistIPv4 DestMask	IPv4 mask of destination for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when PersistType is Destination IP stickiness.(1) or Source IP and destination IP stickiness.(3).
PersistIPv6 SrcPreFix	IPv6 prefix of source for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when PersistType is Source IP stickiness.(2) or Source IP and destination IP stickiness.(3).
PersistIPv6 DestPreFix	IPv6 prefix of destination for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when PersistType is Destination IP stickiness.(1) or Source IP and destination IP

				stickiness.(3).
PersistPrior BusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable .	The column can only be configured when PersistType is not None.(0)

LLB/SmartRoutePolicies

This table contains information about smart-route policy

XML structure

```
<LLB>
  <SmartRoutePolicies>
      <SmartRoutePolicy>
      <PolicyName></PolicyName>
      <BeforePolicyName></BeforePolicyName>
      <Type></Type>
      <Description></Description>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <PolicyEnable></PolicyEnable>
      <BusyProtectEnable></BusyProtectEnable>
      <LinksPredictor></LinksPredictor>
      <IfActiveNum></IfActiveNum>
      <IfBusyNum></IfBusyNum>
      <IfFailedNum></IfFailedNum>
      </SmartRoutePolicy>
  </SmartRoutePolicies>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRoutePolicies
Table type	Muti-instance table
Row name	SmartRoutePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route	Index	String, case-insensitive. Length: 1 to 63	N/A

	policy		characters.	
BeforePolicyName	Name of the smart route policy that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	BeforePolicyName must be an existing smart route policy.
Type	Type of the smart route policy.	N/A	Enumeration: • 0—IPv4. • 1—IPv6	When a smart route policy is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the smart route policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the smart route policy.	N/A	Enumeration: • 0—Predictor out interface. • 1—Forward all.	N/A
Fallback	Fallback action when schedule out-interface failed.	N/A	Enumeration: • 0—Drop . • 1—Match next smart route policy	N/A
PolicyEnable	Enable the smart route policy.	N/A	Enumeration: • 0—Disable . • 1—Enable.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable . • 1—Enable.	N/A
LinksPredictor	Predictor algorithm for smart route to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin . • 1—Random. • 2—Least-connection . • 3—Hash source address. • 4—Hash source address and port. • 5—Hash destination address. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 10—Max inbound bandwidth. • 11—Max outbound bandwidth.	N/A
IfActiveNum	Number of active schedule interface.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
IfBusyNum	Number of busy schedule	N/A	Unsigned integer.	N/A

	interface.		Value range: 0 to 65535.	
IfFailedNum	Number of failed schedule interface.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

LLB/SmartRouteSourceIPRules

This table contains information about smart-Route policy source ip match rules.

XML structure

```
<LLB>
  <SmartRouteSourceIPRules>
    <SmartRouteSourceIPRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SmartRouteSourceIPRule>
  </SmartRouteSourceIPRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteSourceIPRules
Table type	Multi-instance table
Row name	SmartRouteSourceIPRules
Restrictions	Only SmartRoute policy source ip match rules can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		• Length: 1 to 63 characters.	
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleType	Method of the source ip match rule.	N/A	Enumeration: • 0—IP Any. • 1—IPv4 subnet. • 2—IPv4 range.. • 3—IPv6 subnet. • 4—IPv6 range.	N/A
Ipv4Address	Match rule of IPv4.	N/A	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	Mask length of the IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv4AddressStart	The start IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv4AddressEnd	The end IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv6Address	Match rule of IPv6.	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Prefix length of the IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

LLB/SmartRouteDestRules

This table contains information about smart-Route policy match rules.

XML structure

```
<LLB>
  <SmartRouteDestRules>
    <SmartRouteDestRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <RuleType></RuleType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
```

```
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <ISPName></ISPName>
    </SmartRouteDestRule>
  </SmartRouteDestRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteDestRules
Table type	Multi-instance table
Row name	SmartRouteDestRule
Restrictions	Only SmartRoute policy match destination rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleType	Type of the match rule.	N/A	Enumeration: • 0—IP Any. • 1—IPv4 subnet. • 2—IPv4 range.. • 3—IPv6 subnet. • 4—IPv6 range. • 5—ISP.	N/A
ssIpv4Address	Match rule of IPv4.	N/A	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	Mask length of the IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4AddressStart	The start IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv4AddressEnd	The end IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv6Address	Match rule of IPv6.	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Prefix length of the IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
ISPName	Name of the ISP	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

LLB/SmartRouteInterfaceRules

This table contains information about smart-Route policy match rules.

XML structure

```
<LLB>
  <SmartRouteInterfaceRules>
    <SmartRouteInterfaceRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <InterfaceName></InterfaceName>
    </SmartRouteInterfaceRule>
  </SmartRouteInterfaceRules>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteInterfaceRules
Table type	Multi-instance table
Row name	SmartRouteInterfaceRule

Restrictions	Only SmartRoute policy match source interface rules can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters.	N/A

LLB/SmartRouteScheduleLinks

This table contains information about smart-Route policy schedule links.

XML structure

```
<LLB>
  <SmartRouteScheduleLinks>
    <SmartRouteScheduleLink>
      <PolicyName></PolicyName>
      <InterfaceName></InterfaceName>
      <Weight></Weight>
    </SmartRouteScheduleLink>
  </SmartRouteScheduleLinks>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteScheduleLinks
Table type	Multi-instance table
Row name	SmartRouteScheduleLink
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255.	A larger value means a higher weight.

LLB/SmartRouteLinkProbes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkProbes>
    <SmartRouteLinkProbe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
    </SmartRouteLinkProbe>
  </SmartRouteLinkProbes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkProbes
Table type	Multi-instance table
Row name	SmartRouteLinkProbe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LLB/SmartRouteLinkIPv4Probes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkIPv4Probes>
    <SmartRouteLinkIPv4Probe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
      <DestIpv4Address></DestIpv4Address>
    </SmartRouteLinkIPv4Probe>
  </SmartRouteLinkIPv4Probes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkIPv4Probes
Table type	Multi-instance table
Row name	SmartRouteLinkIPv4Probe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DestIpv4Ad	Destination IPv4 address	Index	String.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
dress	for probe		Dotted decimal notation.	Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.

LLB/SmartRouteLinkIPv6Probes

This table contains information about link Probe that only uses NQA template.

XML structure

```
<LLB>
  <SmartRouteLinkIPv6Probes>
    <SmartRouteLinkIPv6Probe>
      <InterfaceName></InterfaceName>
      <ProbeName></ProbeName>
      <ProbeTargetType></ProbeTargetType>
      <DestIpv4Address></DestIpv4Address>
      <DestIpv6Address></DestIpv6Address>
    </SmartRouteLinkIPv6Probe>
  </SmartRouteLinkIPv6Probes>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRouteLinkIPv6Probes
Table type	Multi-instance table
Row name	SmartRouteLinkIPv6Probe
Restrictions	Only Servicel Smart-Route Link can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ProbeName	Probe method for the interface	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestIpv6Address	Destination IPv6 address for probe	Index	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.

LLB/ISPs

This table contains information about ISP.

XML structure

```
<LLB>
  <ISPs>
    <ISP>
      <Name></Name>
      <Description></Description>
      <Origin></Origin>
      <TotalCnt></TotalCnt>
      <AddressList>
          <Ipv4Address></Ipv4Address>
          <Ipv4PrefixLength></Ipv4PrefixLength>
          <Ipv6Address></Ipv6Address>
          <Ipv6PrefixLength></Ipv6PrefixLength>
          <AddressOrigin></AddressOrigin>
      </AddressList>
    </ISP>
  </ISPs>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only manual ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ISP.		case-insensitive. Length: 1 to 63 characters.	
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	N/A
Origin	The origin of ISP configuration	N/A	Enumeration: • 1—File import. • 2—By user manual • 3—Both file import and by user manua	N/A
TotalCnt	Total number of ISPs.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
AddressList	The list of ISP Address	Data structure	Members include: • Ipv4Address. • Ipv4PrefixLength • Ipv6Address. • Ipv6PrefixLength • Origin.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range:1 to 32.	N/A
.Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:1 to 128.	N/A
AddressOrigin	The origin of ISP configuration	N/A	Enumeration: • 1—File import. • 2—By user manual • 3—Both file import and by user manua	N/A

LLB/ISPFile

This table contains information about ISP file.

XML structure

```
<LLB>
  <ISPFile>
```

```
    <FileName></FileName>
  </ISPFile>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LLB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LLB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table

Row name	Ipv4ISPAddressGroup
Restrictions	Only manual IPv4 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range:1 to 32.	N/A

LLB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```
<LLB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only manual IPv6 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range:1 to 128.	N/A

LLB/SmartRoutePolicySummaries

This table contains summary information about smart route policy summaries.

XML structure

```
<LLB>
  <SmartRoutePolicySummaries>
    <SmartRoutePolicySummary>
      <PolicyName></PolicyName>
      <PolicyType></PolicyType>
      <Description></Description>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <PolicyEnable></PolicyEnable>
      <BusyProtectEnable></BusyProtectEnable>
      <LinksPredictor></LinksPredictor>
      <HitCount></HitCount>
      <IfActiveNum></IfActiveNum>
      <IfBusyNum></IfBusyNum>
      <IfFailedNum></IfFailedNum>
      <TotalCnt></TotalCnt>
      <MatchRuleList>
        <RuleName></RuleName>
        <Direction></Direction>
        <RuleType></RuleType>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <Ipv4AddressStart></Ipv4AddressStart>
        <Ipv4AddressEnd></Ipv4AddressEnd>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
```

```
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <ISPName></ISPName>
      <InterfaceName></InterfaceName>
    </MatchRuleList>
    <ScheduleLink>
      <ScheduleIfName></ScheduleIfName>
      <ScheduleIfState></ScheduleIfState>
    </ScheduleLink>
  </SmartRoutePolicySummary>
 </SmartRoutePolicySummaries>
</LLB>
```

Table description

Item	Description
Feature name	LLB
Table name	SmartRoutePolicySummaries
Table type	Multi-instance table
Row name	SmartRoutePolicySummary
Restrictions	Only summaries of smart route policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the smart route policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PolicyType	Type of the smart route policy.	N/A	Enumeration: • 0—IPv4. • 1—IPv6	N/A
Description	Description for the smart route policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the smart route policy.	N/A	Enumeration: • 0—Predictor out interface(default). • 1—Forward all.	When ForwardType changes from Predictor out interface(0) to Forward all.(1) , scheduleLinks will be delete
Fallback	Fallback action when schedule out-interface failed.	N/A	Enumeration: • 0—Drop . • 1—Match next smart route policy	N/A
PolicyEnable	Enable the smart route	N/A	Enumeration: • 0—Disable .	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		• 1—Enable.	
BusyProtectEnable	Enable link protection.	N/A	Enumeration: • 0—Disable . • 1—Enable.	N/A
LinksPredictor	Predictor algorithm for smart route to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin . • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 9—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max outbound bandwidth. • 12—link-quality • 13—best-link-quality	N/A
HitCount	Hit times of smart route policy	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
TotalCnt	Total number of smart route policies.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MatchRuleList	The list of smart route policy match rules	Data structure	Members include: • RuleName. • Direction. • RuleType. • Ipv4Address. • Ipv4PrefixLength. • Ipv4AddressStart. • Ipv4AddressEnd. • Ipv6Address. • Ipv6PrefixLength. • Ipv6AddressStart. • Ipv6AddressEnd. • ISPName. • InterfaceName.	N/A
RuleName	Name of the smart route policy match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Direction	Direction of the match rule.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—Source direction. • 1—Destination direction.	
RuleType	Type of the match rule.	N/A	Enumeration: • 0—IP Any. • 1—IPv4 subnet. • 2—IPv4 range.. • 3—IPv6 subnet. • 4—IPv6 range. • 5—ISP. • 6—Interface.	N/A
Ipv4Address	Match rule of IPv4.	N/A	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	Mask length of the IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv4AddressStart	The start IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv4AddressEnd	The end IPv4 adress of range IPv4 match rule.	N/A	IPv4: String, dotted decimal notation.	N/A
Ipv6Address	Match rule of IPv6.	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Prefix length of the IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
ISPName	Name of the ISP	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ScheduleLink	The list of Schedule Links	N/A	Members include: • ScheduleIfName. • ScheduleIfState.	N/A
ScheduleIfName	Name of the Schedule interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters.	N/A
ScheduleIfState	Status of the Schedule interface.	N/A	Enumeration: • 0—Active. • 1—Busy. • 2—Failed.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfActiveNum	Number of active schedule interface.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
IfBusyNum	Number of busy schedule interface.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
IfFailedNum	Number of failed schedule interface.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

LLB/SmartRouteLinkSummaries

This table contains summary information about smart route link summaries.

XML structure

```
<LLB>
  <SmartRouteLinkSummaries>
    <SmartRouteLinkSummary>
      <InterfaceName></InterfaceName>
      <GatewayAddr></GatewayAddr>
      <GatewayIPv6Addr></GatewayIPv6Addr>
      <NoIPv4RouteEnable></NoIPv4RouteEnable>
      <NoIPv6RouteEnable></NoIPv6RouteEnable>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <TotalCnt></TotalCnt>
      <ProbeList>
        <ProbeName></ProbeName>
        <ProbeTargetType></ProbeTargetType>
        <DestIpv4Address></DestIpv4Address>
        <DestIpv6Address></DestIpv6Address>
      </ProbeList>
    </SmartRouteLinkSummary>
  </SmartRouteLinkSummaries>
</LLB>
```

Table description

Item	Description
Feature name	LLB

Table name	SmartRouteLinkSummaries
Table type	Multi-instance table
Row name	SmartRouteLinkSummary
Restrictions	Only summaries of smart route link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	Index	String, case-insensitive. Length: 1 to 47 characters.	N/A
GatewayAddr	Gateway IPv4 address	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
GatewayIPv6Addr	Gateway IPv6 address	N/A	String, dotted decimal notation.	Example: 2::2.
NoIPv4RouteEnable	Whether Gateway IPv4 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
NoIPv6RouteEnable	Whether Gateway IPv6 no route is enabled	N/A	Boolean: • true—enable no-route • false—disable no-route	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
TotalCnt	Total number of smart route links	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ProbeList	The list of probe	Data structur	Members include: • ProbeName.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
		e	• ProbeTargetType. • DestIpv4Address. • DestIpv6Address	
ProbeName	Probe method for the interface	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProbeTarget Type	Type of Probe Target.	N/A	Enumeration: • 0—None • 1—Specified IP Address • 2—Specified IPv6 Address	N/A
DestIpv4Address	Destination IPv4 address for probe	N/A	String. Dotted decimal notation.	This column can be configured only when the ProbeTargetType is Specified IP Address (1) Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
DestIpv6Address	Destination IPv6 address for probe	N/A	Hexadecimal string, colon-separated.	This column can be configured only when the ProbeTargetType is Specified IPv6 Address (2) Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.

Contents

SLB 1

SLB/HTTPVirtualServers 1
XML structure 1
Table description 2
Columns 2
SLB/HTTPSVirtualServers 4
XML structure 4
Table description 5
Columns 5
SLB/TCPProxyVirtualServers 8
XML structure 8
Table description 9
Columns 9
SLB/SSLVirtualServers 11
XML structure 11
Table description 12
Columns 12
SLB/TCPVirtualServers 14
XML structure 14
Table description 15
Columns 15
SLB/UDPVirtualServers 17
XML structure 17
Table description 18
Columns 18
SLB/SIPUDPVirtualServers 20
XML structure 20
Table description 21
Columns 21
SLB/SIPTCPVirtualServers 23
XML structure 23
Table description 24
Columns 24
SLB/RADIUSVirtualServers 25
XML structure 26
Table description 26
Columns 26
SLB/IPVirtualServers 28
XML structure 28
Table description 29
Columns 29
SLB/VServerSummaries 31
XML structure 31
Table description 32
Columns 33
SLB/VServerLimitRules 36
XML structure 36
Table description 36
Columns 37
SLB/VServerSSLServerPolicies 38
XML structure 39
Table description 39
Columns 39
SLB/VServerSchedulePolicies 39
XML structure 39
Table description 40
Columns 40
SLB/VServerModifyPolicies 40
XML structure 40

</SLB>Table description ····· 41
Columns ····· 41
SLB/ServicePools ····· 41
XML structure ····· 41
Table description ····· 42
Columns ····· 42
SLB/ServicePoolProbes ····· 45
XML structure ····· 45
Table description ····· 46
Columns ····· 46
SLB/SPoolGenerateHostAndMembers ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
SLB/ServicePoolMembers ····· 47
XML structure ····· 47
Table description ····· 48
Columns ····· 48
SLB/SPoolMemberProbes ····· 50
XML structure ····· 50
Table description ····· 50
Columns ····· 50
SLB/ProbeTemplateSummaries ····· 51
XML structure ····· 51
Table description ····· 51
Columns ····· 51
SLB/ExternalScripts ····· 52
XML structure ····· 52
Table description ····· 52
Columns ····· 52
SLB/ExternalMonitors ····· 53
XML structure ····· 53
Table description ····· 53
Columns ····· 53
SLB/ExternalMonitorProcessParameter ····· 54
XML structure ····· 54
Table description ····· 55
Columns ····· 55
SLB/RSTProbeTemplates ····· 55
XML structure ····· 55
Table description ····· 56
Columns ····· 56
SLB/ZeroWindowProbeTemplates ····· 57
XML structure ····· 57
Table description ····· 57
Columns ····· 57
SLB/HTTPPassiveProbeTemplates ····· 58
XML structure ····· 58
Table description ····· 59
Columns ····· 59
SLB/ServiceHostBelongingSPs ····· 60
XML structure ····· 60
Table description ····· 61
Columns ····· 61
SLB/ServiceHosts ····· 61
XML structure ····· 61
Table description ····· 62
Columns ····· 62
SLB/ServiceHostProbes ····· 63
XML structure ····· 63
Table description ····· 64
Columns ····· 64

SLB/SchedulePolicySummaries 64
XML structure 64
Table description 65
Columns 65
SLB/HTTPSchedulePolicies 69
XML structure 69
Table description 70
Columns 70
SLB/HTTPSSchedulePolicies 72
XML structure 72
Table description 73
Columns 73
SLB/TCPProxySchedulePolicies 75
XML structure 75
Table description 75
Columns 76
SLB/SSLSchedulePolicies 76
XML structure 77
Table description 77
Columns 77
SLB/TCPSchedulePolicies 78
XML structure 78
Table description 79
Columns 79
SLB/UDPSchedulePolicies 79
XML structure 79
Table description 80
Columns 80
SLB/SIPTCPSchedulePolicies 81
XML structure 81
Table description 81
Columns 81
SLB/SIPUDPSchedulePolicies 82
XML structure 82
Table description 82
Columns 83
SLB/RADIUSSchedulePolicies 83
XML structure 83
Table description 84
Columns 84
SLB/IPSchedulePolicies 85
XML structure 85
Table description 85
Columns 85
SLB/SchedulePolicyMatchRules 86
XML structure 86
Table description 87
Columns 87
SLB/HTTPContents 89
XML structure 89
Table description 90
Columns 90
SLB/HTTPContentSummaries 90
XML structure 90
Table description 91
Columns 91
SLB/ModifyPolicySummaries 91
XML structure 91
Table description 92
Columns 92
SLB/HTTPModifyPolicies 95
XML structure 96

Table description 96
Columns 96
SLB/ModifyPolicyMatchRules 97
XML structure 97
Table description 97
Columns 98
SLB/HTTPModPolicyRewriteHeaders 99
XML structure 100
Table description 100
Columns 100
SLB/HTTPModPolicyRewriteBodies 103
XML structure 104
Table description 104
Columns 104
SLB/HTTPModPolicyRewriteURIs 105
XML structure 105
Table description 105
Columns 106
SLB/HTTPModPolicySSLURIs 107
XML structure 107
Table description 108
Columns 108
SLB/TCPProxyParameters 108
XML structure 109
Table description 109
Columns 109
SLB/HTTPParameters 111
XML structure 111
Table description 111
Columns 111
SLB/HTTPCompressionParameters 113
XML structure 113
Table description 113
Columns 113
SLB/OneConnectParameters 115
XML structure 115
Table description 115
Columns 115
SLB/ParameterSummaries 116
XML structure 116
Table description 116
Columns 117
SLB/PersistenceSummaries 117
XML structure 117
Table description 117
Columns 118
SLB/AddressPortPersistences 118
XML structure 118
Table description 119
Columns 119
SLB/RADIUSPersistences 120
XML structure 120
Table description 120
Columns 121
SLB/HTTPContentPersistences 121
XML structure 121
Table description 122
Columns 122
SLB/HTTPCookiePersistences 123
XML structure 123
Table description 123
Columns 123

SLB/HTTPBodyPersistences 125
XML structure 125
Table description 126
Columns 126
SLB/UDPPayloadPersistences 126
XML structure 127
Table description 127
Columns 127
SLB/HTTPHeaderPersistences 128
XML structure 128
Table description 128
Columns 129
SLB/SSLPersistences 130
XML structure 130
Table description 130
Columns 130
SLB/SIPPersistences 131
XML structure 131
Table description 131
Columns 132
SLB/HTTPPassivePersistences 132
XML structure 132
Table description 132
Columns 133
SLB/HTTPPassivePersistenceMethodGroups 133
XML structure 133
Table description 134
Columns 134
SLB/UDPPassivePersistences 135
XML structure 135
Table description 135
Columns 136
SLB/TCPPayloadPersistences 137
XML structure 137
Table description 137
Columns 138
SLB/VServerArpInterfaces 138
XML structure 138
Table description 139
Columns 139
SLB/HTTPCompressionParameters 139
XML structure 139
Table description 140
Columns 140
SLB/HTTPCompressionParameterRules 141
XML structure 141
Table description 142
Columns 142
SLB/ProtectionPolicies 143
XML structure 143
Table description 143
Columns 143
SLB/HTTPProtectionPolicyRules 144
XML structure 144
Table description 144
Columns 145
SLB/VirtualServerSumStats 146
XML structure 146
Table description 146
Columns 146
SLB/ServicePoolSumStats 148
XML structure 148

Table description 148
Columns 149
SLB/VirtualServerStats 149
XML structure 149
Columns 151
SLB/MatchSchedulePolicyStats 155
XML structure 155
Table description 156
Columns 157
SLB/ServicePoolStats 161
XML structure 161
Table description 162
Columns 162
SLB/ServicePoolMemberStats 165
XML structure 165
Table description 166
Columns 166
SLB/ServiceHostStats 170
XML structure 170
Table description 171
Columns 172
SLB/ClientSumStats 174
XML structure 175
Table description 175
Columns 175
SLB/IShellFiles 175
XML structure 176
Table description 176
Columns 176

SLB

SLB/HTTPVirtualServers

This table contains information about HTTP virtual servers.

XML structure

```
<SLB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <RebalancePerRequest></RebalancePerRequest>
      <InsertXFFHeader></InsertXFFHeader>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <HTTPParameter></HTTPParameter>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <OneConnectParameter></OneConnectParameter>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 80.	N/A
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
InsertXFFHeader	Enable insert header of X-Forwarded_For.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The null string indicates the label is not configured.
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConn	Parameter	N/A	String,	The null string indicates the label

Column name	Column description	Column type	Data type and restrictions	Remarks
ectParameter	profile whose type is OneConnect for the virtual server.		case-insensitive. Length: 1 to 63 characters.	is not configured.
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/HTTPSVirtualServers

This table contains information about HTTPS virtual servers.

XML structure

```
<SLB>
  <HTTPSVirtualServers>
    <HTTPSVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <RebalancePerRequest></RebalancePerRequest>
```

```
      <InsertXFFHeader></InsertXFFHeader>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <HTTPParameter></HTTPParameter>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <OneConnectParameter></OneConnectParameter>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </HTTPSVirtualServer>
  </HTTPSVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSVirtualServers
Table type	Multi-instance table
Row name	HTTPSVirtualServer
Restrictions	Only HTTPS virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	N/A
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
InsertXFFHeader	Enable insert header of X-Forwarded_For.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The null string indicates the label is not configured.
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/TCPProxyVirtualServers

This table contains information about TCP-L7 virtual servers.

XML structure

```
<SLB>
  <TCPProxyVirtualServers>
    <TCPProxyVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupSPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </TCPProxyVirtualServer>
  </TCPProxyVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPProxyVirtualServers
Table type	Multi-instance table
Row name	TCPProxyVirtualServer
Restrictions	Only TCP-Proxy virtual server can be c gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 1 to 65535.Items range: 1 to 32. When a virtual server is created, the column must be specified.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2^{32}-1. Unit : KB/s.	
RateLimitIn Bandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOu tBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroup ID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SSLVirtualServers

This table contains information about SSL virtual servers.

XML structure

```
<SLB>
  <SSLVirtualServers>
    <SSLVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupSPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
```

```
      <TrafficGroupID></TrafficGroupID>
    </TCPL7VirtualServer>
    </SSLVirtualServer>
  </SSLVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLVirtualServers
Table type	Multi-instance table
Row name	SSLVirtualServer
Restrictions	Only SSL virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 443.	
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The null string indicates the label is not configured.
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
RateLimitCo	Maximum	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nnection	connection rate limit.		Value range: 0 to 2^{32}-1. Unit: cps.	
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/TCPVirtualServers

This table contains information about TCP virtual servers.

XML structure

```
<SLB>
  <TCPVirtualServers>
    <TCPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
```

```
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </TCPVirtualServer>
  </TCPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPVirtualServers
Table type	Multi-instance table
Row name	TCPVirtualServer
Restrictions	Only TCP virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumber	List of port	N/A	Number string.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
List	numbers		It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	The item is permitted to incremental edit.
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: cps.	
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/UDPVirtualServers

This table contains information about UDP virtual servers.

XML structure

```
<SLB>
  <UDPVirtualServers>
    <UDPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
```

```
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </UDPVirtualServer>
  </UDPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPVirtualServers
Table type	Multi-instance table
Row name	UDPVirtualServer
Restrictions	Only UDP virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumber	List of port	N/A	Number string.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
List	numbers		It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	The item is permitted to incremental edit.
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63	This column cannot be configured if the default persistence is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SIPUDPVirtualServers

This table contains information about SIPUDP virtual servers.

XML structure

```
<SLB>
  <SIPUDPVirtualServers>
    <SIPUDPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
```

```
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </SIPUDPVirtualServer>
  </SIPUDPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPUDPVirtualServers
Table type	Multi-instance table
Row name	SIPUDPVirtualServer
Restrictions	Only SIP-UDP virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, no IPv6 address is specified.	addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 5060.	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SIPTCPVirtualServers

This table contains information about SIPTCP virtual servers.

XML structure

```
<SLB>
  <SIPTCPVirtualServers>
    <SIPTCPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </SIPTCPVirtualServer>
```

```
  </SIPTCPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPTCPVirtualServers
Table type	Multi-instance table
Row name	SIPTCPVirtualServer
Restrictions	Only SIP-TCPvirtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 5060.	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```
<SLB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Enable.	
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/IPVirtualServers

This table contains information about IP virtual servers.

XML structure

```
<SLB>
  <IPVirtualServers>
    <IPVirtualServer>
      <Name></Name>
```

```
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </IPVirtualServer>
  </IPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IPVirtualServers
Table type	Multi-instance table
Row name	IPVirtualServer
Restrictions	Only IP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses,

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, no IPv4 address is specified.	and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Enable.	
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/VServerSummaries

This table contains summary information about virtual server.

XML structure

```
<SLB>
  <VServerSummaries>
    <VServerSummary>
```

```
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <ProtectionPolicy></ProtectionPolicy>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <HTTPParameter></HTTPParameter>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <OneConnectParameter></OneConnectParameter>
      <RebalancePerRequest></RebalancePerRequest>
      <InsertXFFHeader></InsertXFFHeader>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <LimitRuleNumber></LimitRuleNumber>
      <ServiceEnable></ServiceEnable>
      <State></State>
      <SSLClientPolicy></SSLClientPolicy>
      <TotalCnt></TotalCnt>
      <SSLServerPolicyList>
      <SSLServerPolicy></SSLServerPolicy>
      </SSLServerPolicyList>
      <SchedulePolicyList>
      <SchedulePolicy></SchedulePolicy>
      </SchedulePolicyList>
      <ModifyPolicyList>
      <ModifyPolicy></ModifyPolicy>
      <ModifyPolicyList>
    </VServerSummary>
  </VServerSummaries>
</SLB>
```


Table description

Item	Description
Feature name	SLB
Table name	VServerSummaries
Table type	Multi-instance table
Row name	VServerSummary

Restrictions	Only summaries of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—HTTP.7—RADIUS. • 8—SIP-UDP. • 9—SIP-TCP. • 11—TCPL7. • 12—HTTPS. • 13—SSL.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	
DefaultServicePool	Name of the default service pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Protection Policy	Name of the protection policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPProxyParameter ClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPProxyParameter ServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
InsertXFFHeader	Enable insert header of X-Forwarded_For.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			IPToS is specified.	
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
LimitRuleNumber	The number of virtual server quote limit rules.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
State	State of the virtual server.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLServerPolicyList	SSL Server policy list for the virtual server.	Data structure	Members include: • SchedulePolicy.	Members in VariableList can be configured repeatedly by group.
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
SchedulePolicyList	Schedule policy list for the virtual server.	Data structure	Members include: • SchedulePolicy.	N/A
Schedule	Name of the schedule	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	policy.		case-insensitive. Length: 1 to 63 characters.	
ModifyPolicyList	Modify policy list for the virtual server.	Data structure	Members include: ModifyPolicy.	N/A
ModifyPolicy	Name of the modify policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SLB/VServerLimitRules

This table contains information about virtual server limit rules.

XML structure

```
<SLB>
  <VServerLimitRules>
   <VServerLimitRule>
     <VirtualServerName></VirtualServerName>
     <RuleName></RuleName>
      <AfterRuleName></AfterRuleName>
     <MoveTopOrBottom></MoveTopOrBottom>
     <Type></Type>
     <Ipv4Address></Ipv4Address>
     <Ipv4PrefixLength></Ipv4PrefixLength>
     <Ipv6Address></Ipv6Address>
     <Ipv6PrefixLength></Ipv6PrefixLength>
     <Ipv4AddressStart></Ipv4AddressStart>
     <Ipv4AddressEnd></Ipv4AddressEnd>
     <Ipv6AddressStart></Ipv6AddressStart>
     <Ipv6AddressEnd></Ipv6AddressEnd>
     <ThresholdHigh></ThresholdHigh>
     <ThresholdLow></ThresholdLow>
    </VServerLimitRule>
  </VServerLimitRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerLimitRules

Table type	Multi-instance table
Row name	VServerLimitRule
Restrictions	Only virtual server limit rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the limit rule name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted before.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	By default, indicates the row will be inserted at last.
Type	Type of the limit rule.	N/A	Enumeration: • 0—any • 1—perSrc.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Ipv4AddressStart	Start IP address	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot be configured.
Ipv4AddressEnd	End IP address	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

SLB/VServerSSLServerPolicies

This table contains information about Virtual Server SSL server policy

XML structure

```
<SLB>
  <VServerSSLServerPolicies>
    <VServerSSLServerPolicy>
      <VirtualServerName></VirtualServerName>
      <SSLServerPolicy></SSLServerPolicy>    </VServerSSLServerPolicy>
  </VServerSSLServerPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerSSLServerPolicies
Table type	Multi-instance table
Row name	VServerSSLServerPolicy
Restrictions	Only Virtual server ssl server policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SSLServerPolicy	Name of the SSL server policy.	Index	String, case-insensitive. Length: 0 to 31 characters.	N/A

SLB/VServerSchedulePolicies

This table contains information about virtual server quote schedule policies.

XML structure

```
<SLB>
  <VServerSchedulePolicies>
    <VServerSchedulePolicy>
      <VirtualServerName></VirtualServerName>
      <PolicyName></PolicyName>

      <AfterPolicyName></AfterPolicyName>
      <MoveTopOrBottom></MoveTopOrBottom>
    </VServerSchedulePolicy>
```

```
  </VServerSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerSchedulePolicies
Table type	Multi-instance table
Row name	VServerSchedulePolicie
Restrictions	Only schedule policie can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PolicyName	Name of the schedule policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterPolicyName	Name of the schedule policy that the row will be inserted before.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterPolicyName must be an existing policy. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	By default, indicates the row will be inserted at last.

SLB/VServerModifyPolicies

This table contains information about virtual server quote modify policy.

XML structure

```
<SLB>
  <VServerModifyPolicies>
    <VServerModifyPolicy>
      <VirtualServerName></VirtualServerName>
      <ModifyPolicyName></ModifyPolicyName>
    </VServerModifyPolicy>
  </VServerModifyPolicies>
```

</SLB>Table description

Item	Description
Feature name	SLB
Table name	VServerModifyPolicies
Table type	Multi-instance table
Row name	VServerModifyPolicy
Restrictions	Only virtual server quote modify policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ModifyPolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

SLB/ServicePools

This table contains information about service pool.

XML structure

```
<SLB>
  <ServicePools>
    <ServicePool>
      <Name></Name>
      <Description></Description>
      <State></State>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectHostMinNumber></SelectHostMinNumber>
      <SelectHostMaxNumber></SelectHostMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalServiceHost></TotalServiceHost>
```

```
      <ActiveServiceHost></ActiveServiceHost>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <BusyAction></BusyAction>
      <QueueLength></QueueLength>
      <QueueTimeout></QueueTimeout>
      <SnatEnable></SnatEnable>
      <DnatEnable></DnatEnable>
      <TotalCnt></TotalCnt>
    </ServicePool>
  </ServicePools>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePools
Table type	Multi-instance table
Row name	ServicePool
Restrictions	Only service pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of theservice pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
State	State of the service pool.	N/A	Enumeration: • 0—Unavailable. • 1—Available.	N/A
Predictor	Predictor algorithm for LB to select a service host to serve a client request.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Least time. • 13—Dynamic round-robin. • 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. • 20—Least time member.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to128.	N/A
SelectHostMinNumber	Minimum number of the active service host in the service pool.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectHostMaxNumber	Maximum number of the active service host in the service pool.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SlowOnlineEnable	Enable the service pool	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	slow online.		• 0—Disable. • 1—Enable.	
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any service host fails in a service poo.	N/A	Enumeration: • 0—Keep. • 1—Reset. • 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that service host is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
TotalServiceHost	Total number of service hosts in the service poo.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ActiveServiceHost	Active number of service hosts in the service poo.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
BusyAction	Busy protection	N/A	Enumeration: • 0—Drop(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policies for server nodes		• 1—Enqueue. • 2—Force.	
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
QueueTimeout	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
SnatEnable	Enable the Snat.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DnatEnable	Enable the Dnat.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
TotalCnt	Total number of probe template entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ServicePoolProbes

This table contains information about Service Pool Probe that only uses NQA template.

XML structure

```
<SLB>
  <ServicePoolProbes>
    <ServicePoolProbe>
      <PoolName></PoolName>
      <Probe></Probe>
    </ServicePoolProbe>
  </ServicePoolProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolProbes
Table type	Multi-instance table
Row name	ServicePoolProbe
Restrictions	Only service pool probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the service pool.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

SLB/SPoolGenerateHostAndMembers

This table contains information about service pool generate hosts and members.

XML structure

```
<SLB>
  <SPoolGenerateHostAndMembers>
    <SPoolGenerateHostAndMember>
      <PoolName></PoolName>
      <PortNumber></PortNumber>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <Weight></Weight>
    </SPoolGenerateHostAndMembers>
  </SPoolGenerateHostAndMembers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SPoolGenerateHostAndMembers PoolMembers
Table type	Multi-instance table
Row name	SPoolGenerateHostAndMember
Restrictions	Only service pool generate host and member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4AddressStart	Start IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4AddressEnd	End IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.2.
Ipv6AddressStart	Start IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6AddressEnd	End IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::3.
Weight	Weight of the service pool member.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/ServicePoolMembers

This table contains information about service pool member.

XML structure

```
<SLB>
  <ServicePoolMembers>
    <ServicePoolMember>
```

```
      <PoolName></PoolName>
      <NodeName></NodeName>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>     <Priority></Priority>
      <ServiceEnable></ServiceEnable>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
    </ServicePoolMember>
  </ServicePoolMembers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolMembers
Table type	Multi-instance table
Row name	ServicePoolMember
Restrictions	Only service pool member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node name member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the service pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the service	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool member.		255.	
Priority	Priority of the service pool member.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
ServiceEnable	ServiceEnable state for the service pool member.	N/A	Enumeration: • 0—Online (default). • 1—Slow online. • 2—Offline.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps.	N/A
ProbeSuccessCriteria	Probe success criteria for the service pool member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
State	State of the service pool member.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—disable. • 3—Offline. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. 10—Auto-shutdown	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.

SLB/SPoolMemberProbes

This table contains information about Service Pool Member Probe that only uses NQA template.

XML structure

```
<SLB>
  <SPoolMemberProbes>
    <SPoolMemberProbe>
      <PoolName></PoolName>
      <NodeName></NodeName>
      <PortNumber></PortNumber>
      <Probe></Probe>
      <State></State>
    </SPoolMemberProbe>
  </SPoolMemberProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SPoolMemberProbes
Table type	Multi-instance table
Row name	SPoolMemberProbe
Restrictions	Only service pool member probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node name member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Probe	Probe method for the service pool	Index	String, case-insensitive. Length: 0 to 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.		characters.	
State	State of the service host probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

SLB/ProbeTemplateSummaries

This table contains summary information about probe template.

XML structure

```
<SLB>
  <ProbeTemplateSummaries>
    <ProbeTemplateSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <TotalCnt></TotalCnt>
    </ProbeTemplateSummary>
  </ProbeTemplateSummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ProbeTemplateSummaries
Table type	Multi-instance table
Row name	ProbeTemplateSummary
Restrictions	Only probe template summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Type of	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	probe template.		• 1—RST. • 2—ZEROWINDOW. • 3—HTTPPASSIVE • 4—EXTERNALMONITOR.	
Description	Description information for probe template summary information.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TotalCnt	Total number of probe template entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ExternalScripts

This table contains information about external monitor script files.

XML structure

```
<SLB>
  <ExternalScripts>
    <ExternalScript>
      <FileName></FileName>
    </ExternalScript>
  </ExternalScripts>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalScripts
Table type	Multi-instance table
Row name	ExternalScript
Restrictions	Only external monitor script file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the external	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	monitor script file.		case-insensitive. Length: 1 to 255 characters.	

SLB/ExternalMonitors

This table contains information about an external monitor.

XML structure

```
<SLB>
  <ExternalMonitors>
    <ExternalMonitor>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <Timeout></Timeout>
      <ExternalScript></ExternalScript>
      <Argument></Argument>
      <EnvVariablesList>
      <VariableName></VariableName>
      <VariableValue></VariableValue>
      </EnvVariablesList>
    </ExternalMonitor>
  </ExternalMonitors>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalMonitors
Table type	Multi-instance table
Row name	ExternalMonitor
Restrictions	Only external monitor can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the external monitor.	Index	String, case-insensitive. Length: 1 to 32	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Description	Description for the external monitor.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 86400. Unit: second.	N/A
Timeout	Response timeout of the external monitor.	N/A	Unsigned integer. Value range: 1 to 86400.Unit: second.	N/A
ExternalScript	External monitor script of the external monitor.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Argument	Argument for the external monitor	N/A	String, Length: 1 to 255 characters.	N/A
EnvVariablesList	Environment variable list	Data structure	Members include: • VariableName • VariableValue	N/A
VariableName	Environment variable name for external monitor.	N/A	String. Length: 1 to 255 characters.	N/A
VariableValue	Environment variable value for external monitor.	N/A	String, Length: 1 to 255 characters.	N/A

SLB/ExternalMonitorProcessParameter

This table contains information about the external monitor process parameter.

XML structure

```
<SLB>
  <ExternalMonitorProcessParameter>
    <ProcessLimit></ProcessLimit>
    <MinProcessLimit></MinProcessLimit>
    <MaxProcessLimit></MaxProcessLimit >
  </ExternalMonitorProcessParameter>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalMonitorProcessParameter
Table type	Single-instance table
Row name	N/A
Restrictions	Only external monitor process parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessLimit	Maximum number of processes.	N/A	Unsigned integer. Value range:10 to 1000.	N/A
MinProcessLimit	Minimum number of processes allowed to be configured.	N/A	Unsigned integer. Value:10.	N/A
MaxProcessLimit	Maximum number of processes allowed to be configured.	N/A	Unsigned integer. Value :1000.	N/A

SLB/RSTProbeTemplates

This table contains information about RST probe template.

XML structure

```
<SLB>
  <RSTProbeTemplates>
    <RSTProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <PacketLimit></PacketLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
      <RecoverTimeInterval></RecoverTimeInterval>
    </RSTProbeTemplate>
  </RSTProbeTemplates>
```

```
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RSTProbeTemplates
Table type	Multi-instance table
Row name	RSTProbeTemplate
Restrictions	Only RST probe template can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packet limit of RST probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 1000000.	N/A.
ProtectAction	Protection action of RST probe template.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value	The busy type protection action is valid and value 0 means keep retrying.

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 0	
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A

SLB/ZeroWindowProbeTemplates

This table contains information about Zero Window probe template.

XML structure

```
<SLB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
      <RecoverTimeInterval></RecoverTimeInterval>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	zero window probe template.		case-insensitive. Length: 1 to 32 characters.	
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window probe template.	N/A	Unsigned integer: Value range: 1 to 100. By default, the value is 40. Unit: %	N/A.
ProtectAction	Protection action of zero window probe.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A.
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0	The busy type protection action is valid and value 0 means keep retrying.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A

SLB/HTTPPassiveProbeTemplates

This table contains information about an HTTP passive probe template.

XML structure

```
<SLB>
```

```
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <RecoverTimeInterval></RecoverTimeInterval>
      <URLList>
      <CheckUrl></CheckUrl>
      </URLList>
      <StatusCodeList>
      <StatusCode></StatusCode>
      </StatusCodeList>
    </HTTPPassiveProbeTemplate>
  </HTTPPassiveProbeTemplates>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5. By default, the value is 1. Unit: second.	N/A
URLThreshold	URL threshold of the HTTP passive probe	N/A	Unsigned integer: Value range: 1 to	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	template.		4294967295. By default, the value is 10000.	
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
URLList	URL list for the HTTP passive probe template.	Data structure	Members include: URL.	N/A
CheckUrl	URL for the HTTP passive probe template.	N/A	String, Length: 1 to 255 characters.	A URL list can contain a maximum of 10 URLs.
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

SLB/ServiceHostBelongingSPs

This table contains information about servicel host belonging service pools.

XML structure

```
<SLB>
  <ServiceHostBelongings>
    <ServiceHostBelonging>
      <ServiceHost></ServiceHost>
      <ServicePool></ServicePool>
    </ServiceHostProbe>
  </ServiceHostProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServiceHostBelongings
Table type	Multi-instance table
Row name	ServiceHostBelonging
Restrictions	Only servicel host belonging service pools can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceHost	Name of the Servicel Host.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServicePool	Name of the service pool that the service host belongings.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A

SLB/ServiceHosts

This table contains information about Service Host.

XML structure

```
<SLB>
  <ServiceHosts>
    <ServiceHost>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <Weight></Weight>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <ServiceType></ServiceType>
      <TotalCnt></TotalCnt>
      <BelongingServicePoolList>
      <BelongingServicePool></BelongingServicePool>
```

```
      </BelongingServicePoolList>
    </ServiceHost>
  </ServiceHosts>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServiceHosts
Table type	Multi-instance table
Row name	ServiceHost
Restrictions	Only Service Host can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the Service Host.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the Service Host.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Weight	Weight of the Service Host.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps. By default, the value is 0, which indicates the rate is not limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
State	State of the real server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable. • 3—Offline. • 4—Probe-failed. • 8—Busy. • 9—Unknown. • 10 — Auto-shutdown	N/A
ServiceState	ServiceState for the Service Host.	N/A	Enumeration: • 0—Online(default). • 1—Slowline. • 2—Offline	N/A
TotalCnt	Total number of probe template entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ServiceHostProbes

This table contains information about Servicel Host Probe that only uses NQA template.

XML structure

```
<SLB>
  <ServiceHostProbes>
    <ServiceHostProbe>
      <ServiceHost></ServiceHost>
      <Probe></Probe>
    </ServiceHostProbe>
  </ServiceHostProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServiceHostProbes
Table type	Multi-instance table
Row name	ServiceHostProbe
Restrictions	Only Servicel Host Probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceHost	Name of the Servicel Host.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the Servicel Host.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

SLB/SchedulePolicySummaries

This table contains information about Schedule policy summaries.

XML structure

```
<SLB>
  <SchedulePolicySummaries>
    <SchedulePolicySummary>
      <PolicyName></PolicyName>
      <Description></Description>
      <Type></Type>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
      <TotalCnt></TotalCnt>
      <MatchRuleList>
       <RuleName></RuleName>
        <Type></Type>
        <SrcIpv4Address></SrcIpv4Address>
        <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
        <SrcIpv4AddressStart></SrcIpv4AddressStart>
```

```
      <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <SrcIpv6AddressStart></SrcIpv6AddressStart>
      <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
      <InterfaceName></InterfaceName>
      <BodyExpression></BodyExpression>
      <BodyOffset></BodyOffset>
      <CookieName></CookieName>
      <CookiePattern></CookiePattern>
      <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <URI></URI>
      <Method></Method>
      <ExtType></ExtType>
      <Version></Version>
      <PayloadPattern></PayloadPattern>
      <Not></Not>
      <AttributeType></AttributeType>
      <AttributePattern></AttributePattern>
      <CaseSensitive></CaseSensitive>
    </MatchRuleList>
  </SchedulePolicySummary>
 </SchedulePolicySummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SchedulePolicySummaries
Table type	Multi-instance table
Row name	SchedulePolicySummary
Restrictions	Only schedule summary can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the Schedule policy summaries.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the Schedule policy	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	summaries.			
Type	Type of the Schedule policy match rules.	N/A	Enumeration: • 0—TCPL7. • 1—TCP. • 2—UDP. • 3—SIPTCP. • 4—SIPUDP. • 5—IP. • 6—SSL. • 7—HTTPS. • 8—HTTP. • 10—RADIUS.	N/A
MatchMode	The rule matched Schedule policy.	N/A	Enumeration: • 0—Match any (default). • 1—Match all.	N/A
ForwardType	Forward mode of the Schedule policy.	N/A	Enumeration: • 1—Drop. • 2—Fin close. • 3—Rst close. • 4—Forward all. • 5—Service Pool. • 6—Response.	N/A
Fallback	Fallback action when service host select failed.	N/A	Enumeration: • 0—None (default). • 1—Match next rule. • 2—Response. • 3—Fin close. • 4—Rst close. • 5—HTTP Content.	N/A
ServicePool	Name of the Service Pool for the Schedule policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes Service Pool (3).
TotalCnt	Total number of Schedule policies.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MatchRuleList	The list of Schedule policy match rules	Data structure	Members include: • ID. • Type. • SrcIpv4Address. • SrcIpv4PrefixLength. • SrcIpv4AddressStart. • SrcIpv4AddressEnd. • SrcIpv6Address. • SrcIpv6PrefixLength. • SrcIpv6AddressStart.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• SrcIpv6AddressEnd. • InterfaceName. • ContentOffset. • ContentExpression. • CookieName. • CookieValue. • HeaderName. • HeaderValue. • URI. • Method. • ExtType. • Version. • PayloadPattern. • Not. • CaseSensitive. • AttributeType. • AttributeExpression	
RuleName	Name of the Schedule policy match rule.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the Schedule policy.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URI. • 9—Method. • 10—Version. • 11—Payload • 12—RADIUS	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	N/A	String. Dotted decimal notation.	N/A
SrcIpv4AddressEnd	The end IPv4 adress of	N/A	String. Dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Source range IPv4 match rule.			
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
SrcIpv6AddressStart	The start IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
SrcIpv6AddressEnd	The end IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
BodyExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	N/A
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	N/A
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
URI	Regular expression matched the	N/A	String. Length: 0 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	URI.		characters.	
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. **1—1.1.**	N/A
PayloadPattern	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	N/A
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	N/A
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	N/A
AttributePattern	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPSchedulePolicies

This table contains information about HTTP Schedule policies.

XML structure

```
<SLB>
  <HTTPSchedulePolicies>
    <HTTPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
```

```
      <ForwardType></ForwardType>
      <Fallback></Fallback>     <ServicePool></ServicePool>
      <ResponseFileName></ResponseFileName>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <ResponsePreContent></ResponsePreContent>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <FallbackPreContent></FallbackPreContent>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
    </HTTPSchedulePolicy>
  </HTTPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSchedulePolicies
Table type	Multi-instance table
Row name	HTTPSchedulePolicy
Restrictions	Only http Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of HTTP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any (default). • 1—Match all.	N/A
ForwardType	Forward mode of the policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service pool. • 9—Response.	When ForwardType changes from Service pool (3) to drop (1) or response (9), service pool becomes default value.
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 1—Match next schedule policy.	The column can be configured when ForwardType is Service pool (3) or there is no

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Response. • 3—Fin close (default). • 4—Rst close.	ForwardType column.
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service pool (3).
ResponseFile Name	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
ZipFileWorkp ath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured.
ResponseZip File	Full path and name of the zip file for the response. Example: • flash:/lb/1. html chassis3#slot1 #flash:/lb/1.ht ml	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when ZipFileWorkpath is not configured.
ResponsePre Content	Name of the predefined content for response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType

Column name	Column description	Column type	Data type and restrictions	Remarks
				becomes Resposne (9).
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
FallbackPreContent	Name of the predefined content file for fallback.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A

SLB/HTTPSSchedulePolicies

This table contains information about HTTPS Schedule policies.

XML structure

```
<SLB>
  <HTTPSSchedulePolicies>
    <HTTPSSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
      <ResponseFileName></ResponseFileName>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <ResponsePreContent></ResponsePreContent>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <FallbackPreContent></FallbackPreContent>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
```

```
    </HTTPSSchedulePolicy>
  </HTTPSSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSSchedulePolicies
Table type	Multi-instance table
Row name	HTTPSSchedulePolicy
Restrictions	Only https Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	HTTPSSchedulePolicy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool. • 9—Response.	When ForwardType changes from Service Pool (3) to drop (1) or response (9).
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 2—Response. • 3—Fin close (default). • 4—Rst close.	N/A
ServicePool	Name of the Service Pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured, ForwardType becomes Service Pool (3).
ResponseFileName	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
ZipFileWorkpath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured. The column must start witch device name.
ResponseZipFile	Full path and name of the zip file for the response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when ZipFileWorkpath is not configured. The column must start witch device name.
ResponsePreContent	Name of the predefined content file for response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
FallbackResponseRawFile	Full path and name of the	N/A	String, case-insensitive.	The column can be configured when Fallback

Column name	Column description	Column type	Data type and restrictions	Remarks
	raw file for the fallback action response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html		Length: 1 to 255 characters.	is Response(2).
FallbackPreContent	Name of the predefined content file for fallback.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A

SLB/TCPProxySchedulePolicies

This table contains information about TCP-Proxy Schedule policies.

XML structure

```
<SLB>
  <TCPProxySchedulePolicies>
    <TCPProxySchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <TCPDropType></TCPDropType>
      <ServicePool></ServicePool>
    </TCPProxySchedulePolicy>
  </TCPProxySchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPProxySchedulePolicies

Table type	Multi-instance table
Row name	TCPProxySchedulePolicy
Restrictions	Only TCP-Proxy http Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The name of TCP proxy scheduling policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 3—Fin close (default). • 4—Rst close.	N/A
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close.	N/A
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SSLSchedulePolicies

This table contains information about SSL Schedule policies.

XML structure

```
<SLB>
  <SSLSchedulePolicies>
    <SSLSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
    </SSLSchedulePolicy>
  </SSLSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLSchedulePolicies
Table type	Multi-instance table
Row name	SSLSchedulePolicy
Restrictions	Only SSL http Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of SSL Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default

Column name	Column description	Column type	Data type and restrictions	Remarks
				value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 3—Fin close (default). • 4—Rst close.	N/A
ServicePool	Name of the Service pool for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A

SLB/TCPSchedulePolicies

This table contains information about TCP Schedule policies.

XML structure

```
<SLB>
  <TCPSchedulePolicies>
    <TCPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </TCPSchedulePolicy>
  </TCPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPSchedulePolicies
Table type	Multi-instance table
Row name	TCPSchedulePolicy
Restrictions	Only TCP http Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of TCP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy.	N/A
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/UDPSchedulePolicies

XML structure

```
<SLB>
```

```
  <UDPSchedulePolicies>
    <UDPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </UDPSchedulePolicy>
  </UDPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPSchedulePolicies
Table type	Multi-instance table
Row name	UDPSchedulePolicy
Restrictions	Only UDP http Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of UDP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the UDP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy.	N/A
ServicePool	Name of the Service pool for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service

Column name	Column description	Column type	Data type and restrictions	Remarks
				Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SIPTCPSchedulePolicies

This table contains information about SIP TCP Schedule policies.

XML structure

```
<SLB>
  <SIPTCPSchedulePolicies>
    <SIPTCPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <ServicePool></ServicePool>
    </SIPTCPSchedulePolicy>
  </SIPTCPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPTCPSchedulePolicies
Table type	Multi-instance table
Row name	SIPTCPSchedulePolicy
Restrictions	Only SIP TCP Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for	N/A	String.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the policy.		Length: 0 to 127 characters.	
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default value.
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SIPUDPSchedulePolicies

This table contains information about SIP UDP Schedule policies.

XML structure

```
<SLB>
  <SIPUDPSchedulePolicies>
    <SIPUDPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </SIPUDPSchedulePolicy>
  </SIPUDPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPUDPSchedulePolicies
Table type	Multi-instance table
Row name	SIPUDPSchedulePolicy
Restrictions	Only SIP UDP Schedule policies can be gotten by this

	table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy.	N/A
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/RADIUSSchedulePolicies

This table contains information about RADIUS Schedule policies.

XML structure

```
<SLB>
  <RADIUSSchedulePolicies>
    <RADIUSSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
```

```
    </RADIUSSchedulePolicy>
  </RADIUSSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSSchedulePolicies
Table type	Multi-instance table
Row name	RADIUSSchedulePolicy
Restrictions	Only RADIUS Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of TCP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy.	N/A
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/IPSchedulePolicies

This table contains information about IP Schedule policies.

XML structure

```
<SLB>
  <IPSchedulePolicies>
    <IPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </IPSchedulePolicy>
  </IPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IPSchedulePolicies
Table type	Multi-instance table
Row name	IPSchedulePolicy
Restrictions	Only IP Schedule policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—Service Pool.	become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy.	N/A
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SchedulePolicyMatchRules

This table contains information about Schedule policy match rules.

XML structure

```
<SLB>
  <SchedulePolicyMatchRules>
    <SchedulePolicyMatchRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv4AddressStart></SrcIpv4AddressStart>
      <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <SrcIpv6AddressStart></SrcIpv6AddressStart>
      <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
      <InterfaceName></InterfaceName>
      <BodyPattern></BodyPattern>
      <BodyOffset></BodyOffset>
      <CookieName></CookieName>
      <CookiePattern></CookiePattern>
      <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <URI></URI>
      <Method></Method>
      <ExtType></ExtType>
      <Version></Version>
      <PayloadPattern></PayloadPattern>
      <Not></Not>
```

```
      <AttributeType></AttributeType>
      <AttributePattern></AttributePattern>
      <CaseSensitive></CaseSensitive>
    </SchedulePolicyMatchRule>
  </SchedulePolicyMatchRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SchedulePolicyMatchRules
Table type	Multi-instance table
Row name	SchedulePolicyMatchRule
Restrictions	Only Schedule policy match rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SchedulePolicyMatchRule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URL. • 9—Method. • 10—Version. • 11—Payload • 12—RADIUS	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
SrcIpv4PrefixLength	Mask length of the source	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv4 address.		Value range: 0 to 32. By default, the value is 32.	
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	N/A
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
SrcIpv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	N/A
SrcIpv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
BodyExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	N/A
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	N/A
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
URI	Regular	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	expression matched the URI.		Length: 0 to 255 characters.	
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). • **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. • **1—1.1.**	N/A
PayloadPattern	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	N/A
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	N/A
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. • By default, no AttributeType is specified.	N/A
AttributePattern	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPContents

This table contains information about HTTP content.

XML structure

```
<SLB>
  <HTTPContents>
    <HTTPContent>
      <ContentName></ContentName>
```

```
      <Description></Description>
      <Header></Header>
      <Body></Body>
    </HTTPContent>
  </HTTPContents>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPContents
Table type	Multi-instance table
Row name	HTTPContent
Restrictions	Only HTTP content can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContentName	The Name of the HTTP content.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the content.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Header	The header information of the HTTP content.	N/A	String, case-sensitive. Length: The sum of Header and Body 255 is less than 16000 characters.	The null string indicates the label is not configured.
Body	The body information of the HTTP content.	N/A	Length: The sum of Header and Body 255 is less than 16000 characters.	The null string indicates the label is not configured.

SLB/HTTPContentSummaries

This table contains information about HTTP content.

XML structure

```
<SLB>
  <HTTPContentSummaries>
    <HTTPContentSummary>
      <ContentName></ContentName>
```

```
      <Description></Description>
      <TotalCnt></TotalCnt>
    </HTTPContentSummary>
  </HTTPContentSummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPContentSummaries
Table type	Multi-instance table
Row name	HTTPContentSummary
Restrictions	Only HTTP content can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContentName	The Name of the HTTP content.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the content.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TotalCnt	Total number of Schedule policies.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ModifyPolicySummaries

This table contains information about modify policy summaries.

XML structure

```
<SLB>
  <ModifyPolicySummaries>
    <ModifyPolicySummary>
      <PolicyName></PolicyName>
      <Description></Description>
      <Type></Type>
      <MatchMode></MatchMode>
      <TotalCnt></TotalCnt>
      <MatchRuleList>
        <RuleName></RuleName>
```

```
        <Type></Type>
        <SrcIpv4Address></SrcIpv4Address>
        <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
        <SrcIpv4AddressStart></SrcIpv4AddressStart>
        <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
        <SrcIpv6Address></SrcIpv6Address>
        <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
        <SrcIpv6AddressStart></SrcIpv6AddressStart>
        <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
        <BodyPattern></BodyPattern>
        <BodyOffset></BodyOffset>
        <CookieName></CookieName>
        <CookiePattern></CookiePattern>
        <HeaderName></HeaderName>
        <HeaderPattern></HeaderPattern>
        <URI></URI>
        <Method></Method>
        <ExtType></ExtType>
        <Version></Version>
        <PayloadPattern></PayloadPattern>
        <Not></Not>
        <CaseSensitive></CaseSensitive>
      </MatchRuleList>
    </ModifyPolicyPolicySummary>
  </ModifyPolicyPolicySummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ModifyPolicySummaries
Table type	Multi-instance table
Row name	ModifyPolicySummary
Restrictions	Only modify policy summary can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy summaries.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the modify policy	N/A	String. Length: 0 to 127	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	summaries.		characters.	
Type	Type of the modify policy match rules.	N/A	Enumeration: • 1—HTTP.	N/A
MatchMode	The rule matched DistributeSchedule policy.	N/A	Enumeration: • **0**—Match any(default)**.** • 1—Match all.	Once created, this column cannot be changed.
TotalCnt	Total number of Schedule policies.	N/A	Unsigned integer. • Value range: 0 to 2^{32}-1.	N/A
MatchRuleList	The list of Schedule policy match rules	Data structure	Members include: • ID. • Type. • SrcIpv4Address. • SrcIpv4PrefixLength. • SrcIpv4AddressStart. • SrcIpv4AddressEnd. • SrcIpv6Address. • SrcIpv6PrefixLength. • SrcIpv6AddressStart. • SrcIpv6AddressEnd. • InterfaceName. • ContentOffset. • ContentExpression. • CookieName. • CookieValue. • HeaderName. • HeaderValue. • URI. • Method. • ExtType. • Version. • PayloadPattern. • Not. • CaseSensitive.	N/A
RuleName	Name of the modify policy rule.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the Schedule policy.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 8—URI. • 9—Method. • 10—Version. • 11—Payload	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	N/A	String. • Dotted decimal notation.	N/A
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	N/A	String. Dotted decimal notation.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
SrcIpv6AddressStart	The start IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
SrcIpv6AddressEnd	The end IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
BodyExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			zero.	
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	N/A
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
URI	Regular expression matched the URI.	N/A	String. Length: 0 to 255 characters.	N/A
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. **1—1.1.**	N/A
PayloadPattern	Regular expression matched the payload content.	N/A	String. • Length: 0 to 255 characters	N/A
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPModifyPolicies

This table contains information about the HTTP modify policy.

XML structure

```
<SLB>
  <HTTPModifyPolicies>
    <HTTPModifyPolicy>
      <Name></Name>
      <Description></Description>
      <ModifyPerRequest></ModifyPerRequest>
      <MatchMode></MatchMode>
    <HTTPModifyPolicy>
  </HTTPModifyPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModifyPolicies
Table type	Multi-instance table
Row name	HTTPModifyPolicy
Restrictions	Only L7 HTTP modify policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the HTTP modify policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ModifyPerRequest	Enable modify the HTTP header of every HTTP request or response.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
MatchMode	Match mode	N/A	Enumeration: • 0—Match Any (default). 1—Match All.	N/A

SLB/ModifyPolicyMatchRules

This table contains information about Modify policy match rules.

XML structure

```
<SLB>
  <ModifyPolicyMatchRules>
    <ModifyPolicyMatchRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv4AddressStart></SrcIpv4AddressStart>
      <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <SrcIpv6AddressStart></SrcIpv6AddressStart>
      <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
      <InterfaceName></InterfaceName>
      <BodyPattern></BodyPattern>
      <BodyOffset></BodyOffset>
      <CookieName></CookieName>
      <CookiePattern></CookiePattern>
      <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <URI></URI>
      <Method></Method>
      <ExtType></ExtType>
      <Version></Version>
      <CaseSensitive></CaseSensitive>
    </ModifyPolicyMatchRule>
  </ModifyPolicyMatchRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ModifyPolicyMatchRules
Table type	Multi-instance table
Row name	ModifyPolicyMatchRule
Restrictions	Only modify policy match rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URL. • 9—Method. • 10—Version. •	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	N/A
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
SrcIpv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	N/A
SrcIpv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
BodyExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	N/A
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	N/A
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
URI	Regular expression matched the URI.	N/A	String. Length: 0 to 255 characters.	N/A
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). • **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. • **1—1.1.**	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPModPolicyRewriteHeaders

This table contains information about HTTP Schedule policy rewrite headers.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteHeaders>
    <HTTPModPolicyRewriteHeader>
      <PolicyName></PolicyName>
      <Type></Type>
      <Direction></Direction>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <HeaderExpress></HeaderExpress>
      <Replace></Replace>
      <Encode></Encode>
      <CaseSensitive></CaseSensitive>
    </HTTPModPolicyRewriteHeader>
  </HTTPModPolicyRewriteHeaders>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteHeaders
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteHeader
Restrictions	Only HTTP mod policy rewrite headers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: • 0—Header Delete. • 1—Header Insert. • 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: • 0—Request and Response. • 1—Request. • 2—Response.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 1 to 63 characters.	HeaderName cannot contain any one of characters following: 0 to 31 and 127 to 255 in the ASCII table, character as "(" ")" "<" ">" "@" "," ";" ":" "\" """ "/" "[" "]" "?" "=" "{" "}" SP HT.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	This column has validity in Header Insert process. You cannot configure this column if the type is not Header Insert. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address. %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject

Column name	Column description	Column type	Data type and restrictions	Remarks
				public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2).
Replace	Replaced string that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2). Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time)

Column name	Column description	Column type	Data type and restrictions	Remarks
				%{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. 2—Base64	Encode
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPModPolicyRewriteBodies

This table contains information about HTTP modify policy rewrite cbodies.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteCBodies>
    <HTTPModPolicyRewriteCBody>
      <PolicyName></PolicyName>
      <RewriteValue></RewriteValue>
      <ReplaceValue></ReplaceValue>
    </HTTPModPolicyRewriteBody>
  </HTTPModPolicyRewriteBodies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteBodies
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteBody
Restrictions	Only HTTP modify policy rewrite bodies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RewriteValue	Content value need to be replaced in response.	Index	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message.

Column name	Column description	Column type	Data type and restrictions	Remarks
				%pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.

SLB/HTTPModPolicyRewriteURIs

This table contains information about HTTP modify policy rewrite uris.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteURIs>
    <HTTPModPolicyRewriteURI>
      <PolicyName></PolicyName>
      <LocationURI></LocationURI>
      <Replace></Replace>
      <Encode></Encode>
      <CaseSensitive></CaseSensitive>
    </HTTPModPolicyRewriteURI>
  </HTTPModPolicyRewriteURIs>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteURIs
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteURI
Restrictions	Only HTTP modify policy rewrite urls can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP request line.	Index	String. Length: 0 to 127 characters.	N/A
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	This column only can be configured when LocationURL is configured. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of

Column name	Column description	Column type	Data type and restrictions	Remarks
				certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. 2—Base64	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). 1—Case sensitive.	N/A

SLB/HTTPModPolicySSLURIs

This table contains information about HTTP modify policy ssl uris.

XML structure

```
<SLB>
  <HTTPModPolicySSLURIs>
    <HTTPModPolicySSLURI>
      <PolicyName></PolicyName>
      <LocationURI></LocationURI>
      <ClearPort></ClearPort>
      <SSLPort></SSLPort>
      <CaseSensitive></CaseSensitive>
```

```
    </HTTPModPolicySSLURI>
  </HTTPModPolicySSLURIs>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicySSLURIs
Table type	Multi-instance table
Row name	HTTPModPolicySSLURI
Restrictions	Only HTTP modify policy ssl uris can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 1 to 63 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). 1—Case sensitive.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	This column can only be configured when LocationURL is configured.
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	This column can only be configured when LocationURL is configured.

SLB/TCPProxyParameters

This table contains information about TCP proxy parameter profile.

XML structure

```
<SLB>
  <TCPProxyParameters>
    <TCPProxyParameter>
      <Name></Name>
      <Description></Description>
      <WindowSize></WindowSize>
      <TimeWaitTime></TimeWaitTime>
      <IdleTimeout></IdleTimeout>
      <MSS></MSS>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
    </TCPProxyParameter>
  </TCPProxyParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCP proxy Parameters
Table type	Multi-instance table
Row name	TCP proxy Parameter
Restrictions	Only TCP proxy parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
WindowSize	Starting value of the receive window size.	N/A	Unsigned integer. Value range: 8192 to 65535. By default, 65535 is configured.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 2 is configured.	N/A
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second. By default, 10 is configured.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 1800 is configured.	N/A
KeepAliveInterval	Interval time of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 10 is configured.	N/A
KeepAliveCount	Number of times of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. By default, 3 is configured.	N/A
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is	N/A

Column name	Column description	Colum n type	Data type and restrictions	Remarks
			configured.	

SLB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```
<SLB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>
      <Description></Description>
      <ServerConnectionReuse></ServerConnectionReuse>
      <HeaderMaxParseLength></HeaderMaxParseLength>
      <ContentMaxParseLength></ContentMaxParseLength>
      <CookieEncryptName></CookieEncryptName>
      <CookieCipherPassword></CookieCipherPassword>
      <CookieSimplePassword></CookieSimplePassword>
      <ExceedLength></ExceedLength>
    </HTTPParameter>
  </HTTPParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPParameters
Table type	Multi-instance table
Row name	HTTPParameter
Restrictions	Only HTTP parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535. By default, 4096 is configured.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 4096.	N/A
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: • 0—Keep (default). • 1—Drop.	N/A
CookieEncryptName	Name of the cookie that excepted to be encrypted.	N/A	String.Length: 1 to 63 characters.	CookieEncryptName and CookiePassword are mutually dependent and both of them should be set in a single message.
CookieCipherPassword	Specify an cookie key in encrypted form.	N/A	String. Length: 1 to 73 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
CookieSimplePassword	Specify an cookie key in plaintext form.	N/A	String. Length: 1 to 31 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
ExceedLength	Processing method for HTTP	N/A	Enumeration: • 0—Keep (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	requests or responses that exceed the maximum parse length.		• 1—Drop.	

SLB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<SLB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Description></Description>
      <RequestVersion></RequestVersion>
      <Level></Level>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
      <InsertVary></InsertVary>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parameter profile.		Length: 1 to 63 characters.	
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9 By default, 1 is configured.	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip (default). • 2—Deflate.	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, 1024 is configured.	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB(default). • 16—16KB. • 32—32KB. • 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB(default). • 32—32KB.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A

SLB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```
<SLB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </OneConnectParameter>
  </OneConnectParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	OneConnectParameters
Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	expiration time		4294967295. By default, the time length is 86400.	
IPv4Source Mask	IPv4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6Source Prefix	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

SLB/ParameterSummaries

This table contains summary information about parameter profile.

XML structure

```
<SLB>
  <ParameterSummaries>
    <ParameterSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <TotalCnt></TotalCnt>
    </ParameterSummary>
  </ParameterSummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ParameterSummaries
Table type	Multi-instance table
Row name	ParameterSummary
Restrictions	Only parameter profile summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of parameter profile.	N/A	Enumeration: • 0—TCP-Proxy. • 1—HTTP. • 2—HTTP Compression Parameter. • 3—oneconnect. • 6—MySQL.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TotalCnt	Total number of parameter profile entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/PersistenceSummaries

This table contains summary information about persistence.

XML structure

```
<SLB>
  <PersistenceSummaries>
    <PersistenceSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <TotalCnt></TotalCnt>
    </PersistenceSummary>
  </PersistenceSummaries>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	PersistenceSummaries
Table type	Multi-instance table

Row name	PersistenceSummary
Restrictions	Only Persistence summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the persistence.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Stickiness method of persistence.	N/A	Enumeration: • 1—Address-Port. • 2—HTTP-Content. • 3—HTTP-Body. • 4—HTTP-Cookie. • 5—HTTP-Header.6—SSL. • 7—Radius. • 8—SIP. • 9—HTTP-Passive. • 10—UDP-passive. • 11—TCP-Payload. • 12—UDP-Payload	N/A
Description	Description information for the persistence.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TotalCnt	Total number of sticky group entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/AddressPortPersistences

This table contains information about address-port persistences.

XML structure

```
<SLB>
  <AddressPortPersistences>
    <AddressPortPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <MethodType></MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6PrefixLength></Ipv6PrefixLength>
```

```
      <PriorBusyEnable></PriorBusyEnable>
      <EffectiveScope></EffectiveScope>
    </AddressPortPersistence>
  </AddressPortPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	AddressPortPersistences
Table type	Multi-instance table
Row name	AddressPortPersistence
Restrictions	Only address-port persistencescan be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the persistence.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the persistence.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the persistence.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
MethodType	Sticky method of the address-port persistence.	N/A	Enumeration: • .1—Source IP stickiness (default). • 2—Source IP port stickiness. • 3—Destination IP stickiness. • 4—Destination IP port stickiness. • 5—Source IP and destination IP stickiness. • 6—Source IP port and destination IP port stickiness.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	IPv4 mask for IPv4 persistence method.	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when Ipv4MethodType is not none (0).
Ipv6PrefixLength	IPv6 prefix for IPv6 persistence method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when Ipv6MethodType is not none (0).
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
EffectiveScope	Effective scopeof persistence entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. 2—Global	N/A

SLB/RADIUSPersistences

This table contains information about RADIUS persistences.

XML structure

```
<SLB>
  <RADIUSPersistences>
    <RADIUSPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <PriorBusyEnable></PriorBusyEnable>
      <EffectiveScope></EffectiveScope>
    </RADIUSPersistence>
  </RADIUSPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSPersistences
Table type	Multi-instance table
Row name	RADIUSPersistence
Restrictions	Only RADIUS persistences can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the persistence.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the persistence.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the persistence.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
AttributeCode	Code of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is user-name(1).	The codes corresponding to some well-known radius types are as follows: • 1—User-Name • 8—Framed-Ip-Addres s
PriorBusyEna ble	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
EffectiveScop e	Effective scope of persistencey entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. 2—Global	N/A

SLB/HTTPContentPersistences

This table contains information about HTTP content persistence.

XML structure

```
<SLB>
  <HTTPContentPersistences>
    <HTTPContentPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
```

```
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPContentPersistence>
  </HTTPContentPersistencess>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPContentPersistences
Table type	Multi-instance table
Row name	HTTPContentPersistence
Restrictions	Only HTTP content persistencs can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/HTTPCookiePersistences

This table contains information about HTTP cookie persistences.

XML structure

```
<SLB>
  <HTTPCookiePersistences>
    <HTTPCookiePersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <CaseSensitive></CaseSensitive>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CheckAll></CheckAll>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPOnly></HTTPOnly>
      <Secure></Secure>
      <CookieDomain></CookieDomain>
      <CookiePath></CookiePath>
    </HTTPCookiePersistence>
  </HTTPCookiePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPCookiePersistences
Table type	Multi-instance table
Row name	HTTPCookiePersistence
Restrictions	Only HTTP cookie persistence can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	persistence.		Length: 1 to 63 characters.	
Description	Description for the persistence.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the persistence.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
Type	Sticky method of HTTP cookie persistence.	N/A	Enumeration: • 1—Cookie insert stickiness (default). • 2—Cookie rewrite stickiness • 3—Cookie get stickiness	Only when the type is cookie rewrite (3), configurations of offset, length, start and end can be configured.
CookieName	Name of the cookie.	N/A	String. Length: 0 to 63 characters.	When Type is rewrite (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP cookie persistences.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie persistences.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CheckAll	Enable the check option for an HTTP cookie type persistence.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
HTTPOnly	HTTP cookie attribute for HTTP only.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
Secure	HTTP cookie attribute for secure.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
CookieDomain	HTTP cookie attribute for domain.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Cookie insert stickiness(1).
CookiePath	HTTP cookie attribute for path.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is Cookie insert stickiness(1).
Range	Range of persistence entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. • 2—Global	This column can be configured only when the type is Cookie get stickiness(3).

SLB/HTTPBodyPersistences

This table contains information about HTTP payload persistences.

XML structure

```
<SLB>
  <HTTPBodyPersistences>
    <HTTPPayloadSPersistence
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPPayloadPersistence>
  </HTTPPayloadPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPayloadStickyGroups
Table type	Multi-instance table
Row name	HTTPPayloadStickyGroup
Restrictions	Only HTTP payload sticky groups can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/UDPPayloadPersistences

This table contains information about UDP payload persistences.

XML structure

```
<SLB>
  <UDPPayloadPersistences>
    <UDPPayloadPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </UDPPayloadPersistence>
  </UDPPayloadPersistences>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	UDPPayloadPersistences
Table type	Multi-instance table
Row name	UDPPayloadPersistence
Restrictions	Only UDP payload persistences can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	portion.		Value range: 0 to 1000.	
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/HTTPHeaderPersistences

This table contains information about HTTP header persistences.

XML structure

```
<SLB>
  <HTTPHeaderPersistences>
    <HTTPHeaderPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CaseSensitive></CaseSensitive>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPHeaderPersistence>
  </HTTPHeaderPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPHeaderPersistences
Table type	Multi-instance table
Row name	HTTPHeaderPersistence

Restrictions	Only HTTP header p ersistences information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	N/A
Type	Sticky method of the HTTP header sticky group.	N/A	Enumeration: • 1—URL stickiness. • 2—Host stickiness (default) • 3—Method stickiness • 4—Version stickiness • 5—Name stickiness	N/A
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Offset	Offset to the first byte of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
PriorBusyE	Prior to busy	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
nable	action		• 0—Disable. • 1—Enable.	

SLB/SSLPersistences

This table contains information about SSL persistences.

XML structure

```
<SLB>
  <SSLPersistences>
    <SSLPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <PriorBusyEnable></PriorBusyEnable>
    </SSLPersistence>
  </SSLPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLPersistences
Table type	Multi-instance table
Row name	SSLPersistence
Restrictions	Only SSL persistences information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sticky group.		Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second	
Type	Sticky method of the SSL sticky group.	N/A	Enumeration: • 1—SSL Session-ID stickiness.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/SIPPersistences

This table contains information about SIP persistences.

XML structure

```
<SLB>
  <SIPPersistences>
    <SIPPersistence
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <PriorBusyEnable></PriorBusyEnable>
    </SIPPersistence>
  </SIPPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPStickyGroups
Table type	Multi-instance table
Row name	SIPStickyGroup
Restrictions	Only persistences information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. unit: second	N/A
Type	Sticky method of the SIP sticky group.	N/A	Enumeration: • 1—SIP Call-ID stickiness.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/HTTPPassivePersistences

This table contains information about HTTP passive persistences.

XML structure

```
<SLB>
  <HTTPPassivePersistences>
    <HTTPPassivePersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPPassiveCheckAll></HTTPPassiveCheckAll>
    </HTTPPassivePersistence>
  </HTTPPassivePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPersistences

Table type	Multi-instance table
Row name	HTTPPersistence
Restrictions	Only HTTP persistences information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second.	N/A
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
HTTPPassiveCheckAll	Enable the check option for an HTTP passive type persistence group.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/HTTPPassivePersistenceMethodGroups

This table contains information about HTTP passive persistence methods.

XML structure

```
<SLB>
  <HTTPPassivePersistenceMethods>
    <HTTPPassivePersistenceMethod>
      <Name></Name>
      <PktActionType></PktActionType>
      <Name></Name>
      <MethodType></MethodType>
      <HeaderType></HeaderType>
      <HeaderName></HeaderName>
      <Length></Length>
```

```
      <Start></Start>
      <End></End>
      <CaseSensitive></CaseSensitive>
    </HTTPPassivePersistenceMethod>
  </HTTPPassivePersistenceMethods>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPassivePersistenceMethods
Table type	Multi-instance table
Row name	HTTPPassivePersistenceMethod
Restrictions	Only HTTP passive persistence methods information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky method group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PktActionType	Action type of packet direction.	Index	Enumeration: • 0—Get. • 1—Match.	N/A
MethodName	Name of method.	Index	String, case-insensitive. Length: 1 to 63 characters.	One type of action max support four methods.
MethodType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None. • 1—Header method. • 2—Content method.	N/A
HeaderType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None. • 1—URL stickiness. • 2—Name stickiness.	N/A
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Length	Length of the HTTP header or	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	content value.			
Start	Beginning pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/UDPPassivePersistences

This table contains information about UDP passive persistences.

XML structure

```
<SLB>
  <UDPPassivePersistences>
    <UDPPassivePersistence
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <GetOffset></GetOffset>
      <GetLength></GetLength>
      <GetStart></GetStart>
      <GetEnd></GetEnd>
      <MatchOffset></MatchOffset>
      <MatchLength></MatchLength>
      <MatchStart></MatchStart>
      <MatchEnd></MatchEnd>
      <PriorBusyEnable></PriorBusyEnable>
    </UDPPassivePersistence>
  </UDPPassivePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	UDPPassivePersistences
Table type	Multi-instance table
Row name	UDPPassivePersistence
Restrictions	Only UDP passive Persistences information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to31536000. Unit: second.	N/A
GetOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
GetLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
GetStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
GetEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
MatchLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
MatchStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchEnd	Ending pattern for the UDP payload	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	stickiness.			
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/TCPPayloadPersistences

This table contains information about TCP payload persistences.

XML structure

```
<SLB>
  <TCPPayloadPersistences>
    <TCPPayloadPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </TCPPayloadPersistence>
  </TCPPayloadPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPPayloadPersistences
Table type	Multi-instance table
Row name	TCPPayloadPersistence
Restrictions	Only TCP payload persistences can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the TCP payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the TCP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the TCP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

SLB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```
<SLB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
      <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
```

```
  </VServerArpInterfaces>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

SLB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<SLB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
```

```
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip. • 2—Deflate	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
RequestVersion	Enable compress the HTTP	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	response of version 1.0.			
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB. • 32—32KB. • 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB. • 32—32KB.	N/A

SLB/HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```
<SLB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>
      <Name></Name>
      <RuleName></RuleName>
      <AfterRuleName></AfterRuleName>
      <MoveTopOrBottom></MoveTopOrBottom>
      <Type></Type>
      <FilterType></FilterType>
      <Expression></Expression>    </HTTPCompressionParameterRule>
  </HTTPCompressionParameterRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName and MoveTopOrBottom can not configure together. AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterRuleName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.
Type	Type of the rule.	N/A	Enumeration: • **0**—Permit. • **1**—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: • **0**—URL. • **1**—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

SLB/ProtectionPolicies

This table contains information about protection policies.

XML structure

```
<SLB>
  <ProtectionPolicies>
    <ProtectionPolicy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Warning></Warning>
      <Drop></Drop>
      <Verify></Verify>
      <TotalCnt></TotalCnt>
    </ProtectionPolicy>
  </ProtectionPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ProtectionPolicies
Table type	Multi-instance table
Row name	ProtectionPolicy
Restrictions	Only protection policies can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the protection policy.	N/A	Enumeration: • 0—HTTP	When a protection policy is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the protection policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
Warning	Enable warning action of the protection policy.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
Drop	Enable drop action of the protection policy.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column cannot be configged with Verify together.
Verify	Enable verify action of the protection policy	N/A	• 0—Not configured. • 1—Insert header(default). • 2—Inject JS.	This column cannot be configged with Drop together.
TotalCnt	Total number of Protection policy entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/HTTPProtectionPolicyRules

This table contains information about HTTP protection policy rules.

XML structure

```
<SLB>
  <HTTPProtectionPolicyRules>
    <HTTPProtectionPolicyRule>
      <Name></Name>
      <RuleName></RuleName>
      <AfterRuleName></AfterRuleName>
      <MoveTopOrBottom></MoveTopOrBottom>
      <URL></URL>     <CaseSensitive></CaseSensitive>
      <StatTime></StatTime>
      <IPReqThreshold></IPReqThreshold>
      <JsidReqThreshold></JsidReqThreshold>
      <CookieName></CookieName>
    <HTTPProtectionPolicyRule>
  </HTTPProtectionPolicyRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPProtectionPolicyRules

Table type	Multi-instance table
Row name	HTTPProtectionPolicyRule
Restrictions	Only protection policy rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the protection policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName and MoveTopOrBottom can not configure together. AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterRuleName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.
URL	Regular expression of the protection URL.	N/A	String. Length: 1 to 255 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
StatTime	Statistical duration	N/A	Unsigned integer. Value range: 1 to 900.	N/A
IPReqThreshold	IP threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
JsidReqThreshold	Jsessionid threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	This column and CookieName must be configured together.
CookieName	Cookie name of the Jsessionid	N/A	String. Length: 0 to 63 characters.	This column and Jsid-ReqThreshold must be configured together.

SLB/VirtualServerSumStats

This table contains information about total virtual servers sum stats.

XML structure

```
<SLB>
  <VirtualServerSumStats>
    <VirtualServerSumStat>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ActiveConnections></ActiveConnections>
      <HttpRequestPerSec></HttpRequestPerSec>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <TotalVirtualServerNumber></TotalVirtualServerNumber>
      <ActiveVirtualServerNumber></ActiveVirtualServerNumber>
      <WarnVirtualServerNumber></WarnVirtualServerNumber>
      <FailureVirtualServerNumber></FailureVirtualServerNumber>
      <ForbiddenVirtualServerNumber></ForbiddenVirtualServerNumber>
      <SSLConnectionsPerSec></SSLConnectionsPerSec>
      <SSLActiveConnections></SSLActiveConnections>
      <SSLInBandwidth></SSLInBandwidth>
      <SSLOutBandwidth></SSLOutBandwidth>
      <CompressBytes></CompressBytes>
      <ReceiveBytes></ReceiveBytes>
    </VirtualServerSumStat>
  </VirtualServerSumStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VirtualServerSumStats
Table type	Multi-instance table
Row name	VirtualServerSumStat
Restrictions	Total of virtual servers static can be gotten by this table..

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Connections PerSec	Connections per second that all virtual servers	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	received.		Unit: cps.	
ActiveConnections	Active connections that all virtual servers received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
HttpRequestPerSec	Http request per second that all virtual servers received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InBandwidth	Inbound bandwidth of all virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound bandwidth of all virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
TotalVirtualServerNumber	Total number of virtual servesr.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ActiveVirtualServerNumber	Active number of virtual servers.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
WarnVirtualServerNumber	Warn number of virtual servers.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FailureVirtualServerNumber	Failure number of virtual servers.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ForbiddenVirtualServerNumber	Forbidden number of virtual servers.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SSLConnectionsPerSec	SSL connections per second that virtual servers received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLActiveConnections	SSL active connections that all virtual servers received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLInBandwidth	SSL inbound bandwidth of all virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLOutBan	SSL outbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
dwidth	bandwidth of all virtual servers.		Value range: 0 to 2^{32}-1.	
CompressBytes	Number of compress bytes that rom service host.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ReceiveBytes	Number of receive traffic that from service host.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A

SLB/ServicePoolSumStats

This table contains information about total service pools sum stats.

XML structure

```
<SLB>
  <ServicePoolSumStats>
    <ServicePoolSumStat>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ActiveConnections></ActiveConnections>
      <HttpRequestPerSec></HttpRequestPerSec>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <TotalServicePoolNumber></TotalServicePoolNumber>
      <ActiveServicePoolNumber></ActiveServicePoolNumber>
      <WarnServicePoolNumber></WarnServicePoolNumber>
      <OfflineServicePoolNumber></OfflineServicePoolNumber>
      <FailureServicePoolNumber></FailureServicePoolNumber>
    </ServicePoolSumStat>
  </ServicePoolSumStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolSumStats
Table type	Multi-instance table
Row name	ServicePoolSumStat
Restrictions	Total of service pools static can be gotten by this table..

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionsPerSec	Connections per second that all service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ActiveConnections	Active connections that all service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
HttpRequestPerSec	Http request per second that all service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
InBandwidth	Inbound bandwidth of all service pools.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound bandwidth of all service pools.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
TotalServicePoolNumber	Total number of service pools.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ActiveServicePoolNumber	Active number of service pools.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
WarnServicePoolNumber	Warn number of service pools.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
OfflineServicePoolNumber	Offline number of service pools.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FailureServicePoolNumber	Failure number of service pools.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

SLB/VirtualServerStats

This table contains stat information about virtual server.

XML structure

```
<SLB>
  <VirtualServerStats>
```

```
  <VirtualServerStat>
    <Name></Name>
    <TotalConnections></TotalConnections>
    <ActiveConnections></ActiveConnections>
    <MaxConnections></MaxConnections>
    <ConnectionsPerSec></ConnectionsPerSec>
    <MaxConnectionPerSec></MaxConnectionPerSec>
    <ClientSidePKTsIn></ClientSidePKTsIn>
    <ClientSidePKTSOut></ClientSidePKTSOut>
    <DroppedPackets></DroppedPackets>
    <ClientSideBytesIn></ClientSideBytesIn>
    <ClientSideBytesOut></ClientSideBytesOut>
    <Bandwidth></Bandwidth>
    <MaxBandwidth></MaxBandwidth>
    <ReceivedRequests></ReceivedRequests>
    <DroppedRequests></DroppedRequests>
    <SentResponses></SentResponses>
    <DroppedResponses></DroppedResponses>
    <InBandwidth></InBandwidth>
    <OutBandwidth></OutBandwidth>
    <InMaxBandwidth></InMaxBandwidth>
    <OutMaxBandwidth></OutMaxBandwidth>
    <MaxConnectionsTime></MaxConnectionsTime>
    <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
    <MaxBandwidthTime></MaxBandwidthTime>
    <InMaxBandwidthTime></InMaxBandwidthTime>
    <OutMaxBandwidthTime></OutMaxBandwidthTime>
    <ClientSidePKTsPerSecIn></ClientSidePKTsPerSecIn>
    <ClientSidePKTsPerSecOut></ClientSidePKTsPerSecOut>     <Type></Type>
    <TotalCnt></TotalCnt>
    <IPProtocol></IPProtocol>
    <Ipv4Address></Ipv4Address>
    <Ipv6Address></Ipv6Address>
    <State></State>
    <PolicyNumber></PolicyNumber>
    <PortNumberList></PortNumberList>
    <TotalServicePoolNumber></TotalServicePoolNumber>
    <ActiveServicePoolNumber></ActiveServicePoolNumber>
    <WarnServicePoolNumber></WarnServicePoolNumber>
    <OfflineServicePoolNumber></OfflineServicePoolNumber>
    <FailureServicePoolNumber></FailureServicePoolNumber>
    <HttpRequestPerSec></HttpRequestPerSec>
    <SSLConnectionsPerSec></SSLConnectionsPerSec>
    <SSLActiveConnections></SSLActiveConnections>
    <SSLInBandwidth></SSLInBandwidth>
    <SSLOutBandwidth></SSLOutBandwidth>
  </VirtualServerStat>
</VirtualServerStats>
```

</SLB>

Item	Description
Feature name	SLB
Table name	VirtualServerStats
Table type	Multi-instance table
Row name	VirtualServerStat
Restrictions	Only stats of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
TotalConnections	Total connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ClientSidePKTsIn	Number of packets that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ClientSidePKTsOut	Number of packets that the virtual server sent to	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client.			
DroppedPackets	Number of packets that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ClientSideBytesIn	Number of bytes that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ClientSideBytesOut	Number of bytes that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Dropped Responses	Number of responses that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the virtual	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.		Unit: KB/s.	
InMaxBandwidth	Inbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxConnectionsTime	Time when the virtual server received the maximum number of connections.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxConnectionPerSeTime	Time when the virtual server received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the virtual server.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ClientSidePKTsPerSecIn	Number of packets per second that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ClientSidePKTsPerSecOut	Number of packets per second that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
Type	Type of the virtualserver.	N/A	Enumeration: • 0—IP. • 1—TCP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—UDP. • 3—HTTP. • **7**—RADIUS. • 8—SIP-UDP. • 9—SIP-TCP. • 13—HTTPS. • 14—TCPL7. • 15—SSL	
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
IPProtocol	The protocol type of IP address.	N/A	Enumeration: • 1—IPv4. • 2—IPv6. • 3—IP Both.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
State	State of the virtual server.	N/A	Enumeration: • 0—Active. • 1—Warn • 2—Failure • 3—Forbidden	N/A
PolicyNumber	The number of policy for the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20.
TotalServicePoolNumber	Total number of service pool for the virtual	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.		2^{32}-1.	
ActiveServicePoolNumber	Activenumber of service pool for the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
WarnServicePoolNumber	Warn number of service pool for the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
OfflineServicePoolNumber	Offline number of service pool for the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
FailureServicePoolNumber	Failure number of service pool for the virtual server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
HttpRequestPerSec	Http request per second that all service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLConnectionsPerSec	SSL connections per second for the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLActiveConnections	SSL active connections for the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLInBandwidth	SSL inbound bandwidth for thl virtual server received .	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
SSLOutBandwidth	SSL outbound bandwidth for the virtual server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/MatchSchedulePolicyStats

This table contains stat information about virtual server.

XML structure

```
<SLB>
```

```
  <MatchSchedulePolicyStats>
    <MatchSchedulePolicyStat>
      <VirtualServerName></VirtualServerName>
      <PolicyName></PolicyName>
      <Type></Type>
      <ServicePoolName></ServicePoolName>
      <TotalCnt></TotalCnt>
      <AbnormalCountRate></AbnormalCountRate>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ActiveConnections></ActiveConnections>
      <MatchRuleList>
        <RuleName></RuleName>
        <RuleType></RuleType>
        <SrcIpv4Address></SrcIpv4Address>
        <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
        <SrcIpv4AddressStart></SrcIpv4AddressStart>
        <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
        <SrcIpv6Address></SrcIpv6Address>
        <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
        <SrcIpv6AddressStart></SrcIpv6AddressStart>
        <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
        <InterfaceName></InterfaceName>
        <BodyPattern></BodyPattern>
        <BodyOffset></BodyOffset>
        <CookieName></CookieName>
        <CookiePattern></CookiePattern>
        <HeaderName></HeaderName>
        <HeaderPattern></HeaderPattern>
        <URI></URI>
        <Method></Method>
        <ExtType></ExtType>
        <Version></Version>
        <PayloadPattern></PayloadPattern>
        <Not></Not>
        <AttributeType></AttributeType>
        <AttributePattern></AttributePattern>
        <CaseSensitive></CaseSensitive>
      </MatchRuleList>    </MatchSchedulePolicyStat>
  </MatchSchedulePolicyStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	MatchSchedulePolicyStats
Table type	Multi-instance table

Row name	MatchSchedulePolicyStat
Restrictions	Only match policy of virtual server can be gotten by this table..

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
PolicyName	Schedule policy name of vitual server .	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server. pools received.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—HTTP. • **7**—RADIUS. • 8—SIP-UDP. • 9—SIP-TCP. • 11—TCPL7. • 12—HTTPS. • 13—SSL.	N/A
ServicePoolName	Schedule service pool name of vitual server .	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
AbnormalCountRate	Per second match sechude policy that without active pool	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ActiveConnections	Active connections that the service pools received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MatchRuleList	The list of match schedule	Data structure	Members include: • ID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy match rules		• Type. • SrcIpv4Address. • SrcIpv4PrefixLength. • SrcIpv4AddressStart. • SrcIpv4AddressEnd. • SrcIpv6Address. • SrcIpv6PrefixLength. • SrcIpv6AddressStart. • SrcIpv6AddressEnd. • InterfaceName. • ContentOffset. • ContentExpression. • CookieName. • CookieValue. • HeaderName. • HeaderValue. • URI. • Method. • ExtType. • Version. • PayloadPattern. • Not. • CaseSensitive. • AttributeType. AttributeExpression	
RuleName	Name of the Schedule policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleType	Type of the Schedule policy.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URI. • 9—Method. • 10—Version. • 11—Payload	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			12—RADIUS	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	N/A	String. Dotted decimal notation.	N/A
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	N/A	String. Dotted decimal notation.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
SrcIpv6AddressStart	The start IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
SrcIpv6AddressEnd	The end IPv6 adress of Source range IPv6 match rule.	N/A	Hexadecimal string, colon-separated.	N/A
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	N/A
BodyPattern	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	N/A
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	N/A
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
URI	Regular expression matched the URI.	N/A	String. Length: 0 to 255 characters.	N/A
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. **1—1.1.**	N/A
PayloadPattern	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	N/A
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) 1—Matching condition is opposite	N/A
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			AttributeType is specified.	
AttributePattern	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case sensitive. 1—Case insensitive(default).	N/A

SLB/ServicePoolStats

This table contains stat information about service pool.

XML structure

```
<SLB>
  <ServicePoolStats>
    <ServicePoolStat>
      <Name></Name>     <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <TotalCnt></TotalCnt>
      <Predictor></Predictor>
      <State></State>
      <TotalPoolMember></TotalPoolMember>
      <ActivePoolMember></ActivePoolMember>
      <BusyPoolMember></BusyPoolMember>
      <OfflinePoolMember></OfflinePoolMember>
      <FailurePoolMember></FailurePoolMember>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <HttpRequestPerSec></HttpRequestPerSec>
    </ServicePoolStat>
```

```
  </ServicePoolStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolStats
Table type	Multi-instance table
Row name	ServicePoolStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
TotalConnections	Total connections that the service pool received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the service pool received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the service pool received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the service pool received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the service pool sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSideBytesIn	Number of bytes that the	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service pool received from device.		2^{64}-1. Unit: Byte.	
ServerSideBytesOut	Number of bytes that the service pool sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the service pool received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the service pool dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the service pool sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the service pool dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Predictor	Predictor algorithm for LB to select a service host to serve a client request.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Least time. • 13—Dynamic round-robin. • 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. 20—Least time member.	
State	Status of the service pool.	N/A	Enumeration: • 0—Active. • 1—Warn. • 2—Offline • 3—Failure	
TotalPoolMember	Total member number of the service pool.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ActivePoolMember	Active member number of the service pool.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
BusyPoolMember	Busy member number of the service pool.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
OfflinePool Member	Offline member number of the service pool.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FailurePool Member	Failure member number of the service pool.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InBandwidth	Inbound bandwidth of thel service pools.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound bandwidth of the service	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pools.		Unit: KB/s.	
HttpRequestPerSec	Http request per second that service pool.received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ServicePoolMemberStats

This table contains stat information about server farm member.

XML structure

```
<SLB>
  <ServicePoolMemberStats>
    <ServicePoolMemberStat
      <PoolName></PoolName>
      <NodeName></NodeName>
      <PortNumber></PortNumber>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <RstPackets></RstPackets>
      <MaxRstPackets></MaxRstPackets>
      <RstProtectRetryTimes></RstProtectRetryTimes>
      <MaxRstProtectRetryTimes></MaxRstProtectRetryTimes>
      <ZeroWindowPackets></ZeroWindowPackets>
      <MaxZeroWindowPackets></MaxZeroWindowPackets>
      <ZeroWindowProtectRetryTimes></ZeroWindowProtectRetryTimes>
```

```
      <MaxZeroWindowProtectRetryTimes></MaxZeroWindowProtectRetryTimes>
      <AbnormalURLTimes></AbnormalURLTimes>
      <MaxAbnormalURLTimes></MaxAbnormalURLTimes>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <ServerSidePKTsPerSecIn></ServerSidePKTsPerSecIn>
      <ServerSidePKTsPerSecOut></ServerSidePKTsPerSecOut>
      <TotalCnt></TotalCnt>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <State></State>
      <IPProtocol></IPProtocol>
      <HttpRequestPerSec></HttpRequestPerSec>
    </ServicePoolMemberStat>
  </ServicePoolMemberStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolMemberStats
Table type	Multi-instance table
Row name	ServicePoolMemberStat
Restrictions	Only stats of server farm member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node name member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
TotalConne	Total	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ctions	connections that the server farm member received.		Value range: 0 to 2^{64}-1.	
ActiveConnections	Active connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSideBytesIn	Number of bytes that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ServerSideBytesOut	Number of bytes that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: KB/s.	
MaxBandwidth	Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
Dropped Requests	Number of requests that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
SentResponses	Number of responses that the server farm member sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
RstPackets	RST packets	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxRstPackets	Maximum number of RST packets	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RstProtectRetryTimes	RST protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxRstProtectRetryTimes	Maximum RST protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ZeroWindowPackets	Zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
MaxZeroWindowPackets	Maximum number of zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
ZeroWindowProtectRetryTimes	Zero-window protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxZeroWindowProtectRetryTimes	Maximum zero-window protection times	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
AbnormalURLTimes	Times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxAbnormalURLTimes	Maximum times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnectionsTime	Time when the server farm member received the maximum number of connections.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxConnectionPerSeTime	Time when the server farm member received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the server farm member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the server farm	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.			
OutMaxBandwidthTime	Outbound maximum bandwidth time of the server farm member.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ServerSidePKTsPerSecIn	Number of packets per second that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ServerSidePKTsPerSecOut	Number of packets per second that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
State	State of the service pool member.	N/A	Enumeration: • 0—Available. • 1—busy2—Offline • 3—Failed	N/A
IPProtocol	The protocol type of IP address.	N/A	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
HttpRequestPerSec	Http request per second that service pool member received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ServiceHostStats

This table contains stat information about service host.

XML structure

```
<SLB>
  <ServiceHostStats>
```

```
    <ServiceHostStat>
      <Name></Name>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <MaxConnectionsTime></MaxConnectionsTime>
      <MaxConnectionPerSecTime></MaxConnectionPerSecTime>
      <MaxBandwidthTime></MaxBandwidthTime>
      <InMaxBandwidthTime></InMaxBandwidthTime>
      <OutMaxBandwidthTime></OutMaxBandwidthTime>
      <ServerSidePKTsPerSecIn></ServerSidePKTsPerSecIn>
      <ServerSidePKTsPerSecOut></ServerSidePKTsPerSecOut>
      <TotalCnt></TotalCnt>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <HttpRequestPerSec></HttpRequestPerSec>
    </ServiceHostStat>
  </ServiceHostStats>
</SLB>
```


Table description

Item	Description
Feature name	SLB
Table name	ServiceHostsStats
Table type	Multi-instance table
Row name	ServiceHostsStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service host	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
TotalConnections	Total connections that the service host received.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ActiveConnections	Active connections that the service host received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
MaxConnections	Max connections that the r service host received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
ConnectionsPerSec	Connections per second that the real server received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the service host received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the service host received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSidePKTsOut	Number of packets that the service host sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedPackets	Number of packets that the service host dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
ServerSideBytesIn	Number of bytes that the service host received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: Byte.	N/A
ServerSideBytesOut	Number of bytes that the service host	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sent.		Unit: Byte.	
Bandwidth	Bandwidth of the service host.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the service host received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedRequests	Number of requests that the service host dropped.	N/A	Unsigned integer. Value range: 0 to2^{64}-1.	N/A
SentResponses	Number of responses that the service host sent to device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
DroppedResponses	Number of responses that the service host dropped.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A
InBandwidth	Inbound Bandwidth of the service host.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the service host.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the service host.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the service host.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: KB/s.	N/A
MaxConnectionsTime	Time when the service host received the maximum number of connections.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxConnectionPerSeTime	Time when the service host received the maximum number of connections per second.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
MaxBandwidthTime	Maximum bandwidth time of the service host.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
InMaxBandwidthTime	Inbound maximum bandwidth time of the service host.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OutMaxBandwidthTime	Outbound maximum bandwidth time of the service host.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
ServerSidePKTsPerSecIn	Number of packets per second that the service host received from device.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
ServerSidePKTsPerSecOut	Number of packets per second that the service host sent.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1. Unit: pps.	N/A
TotalCnt	The number of total virtual servers.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
HttpRequestPerSec	Http request per second that service host received.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/ClientSumStats

This table contains information about client sum stats.

XML structure

```
<SLB>
  <ClientSumStats>
    <ClientSumStat>
      <ClientList>
        <ClientIpv4Address></ClientIpv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <Connections></Connections>
      </ClientList>
    </ClientSumStat>
  </ClientSumStats>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ClientSumStats
Table type	Multi-instance table
Row name	ClientSumStat
Restrictions	Total of client static can be gotten by this table..

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientList	list of the client.	Data structure	Client static.	N/A
ClientIpv4Address	Client IP address.	N/A	String. Dotted decimal notation.	Example: 1.1.0.0.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Connections	Total connections of the Client.	N/A	Unsigned integer. Value range: 0 to 2^{64}-1.	N/A

SLB/IShellFiles

This table contains information about ishell files.

XML structure

```
<SLB>
  <IShellFiles>
    <IShellFile>
      <FileName></FileName>
      <Content></Content>
    </IShellFile >
  </IShellFiles>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IShellFiles
Table type	Multi-instance table
Row name	IShellFile
Restrictions	Only ishell file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The Name of the Ishell file.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Content	The Content information of the Ishell file.	N/A	Length: The sum of Header and Body 255 is less than 16384 characters.	The null string indicates the label is not configured.

Contents

SLB 1
SLB/ClearVirtualServerStats 1
XML structure 1
Table description 1
Columns 1
SLB/ClearAllVirtualServerStats 1
XML structure 2
Table description 2
Columns 2
SLB/ClearServiceHostStats 2
XML structure 2
Table description 3
Columns 3
SLB/ClearAllServiceHostStats 3
XML structure 3
Table description 3
Columns 4
SLB/ClearServicePoolMemberStats 4
XML structure 4
Table description 4
Columns 4

SLB

SLB/ClearVirtualServerStats

This table is used to clear the statistics of the virtual server.

XML structure

```
<SLB>
  <ClearVirtualServerStats>
    <ClearVirtualServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearVirtualServerStat>
  </ClearVirtualServerStats>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearVirtualServerStats
Table type	Multi-instance table
Row name	ClearVirtualServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified virtual server.	N/A	This column must be empty.	• N/A

SLB/ClearAllVirtualServerStats

This table is used to clear all virtual servers' statistics.

XML structure

```
<SLB>
  <ClearAllVirtualServerStats>
    <Clear></Clear>
  </ClearAllVirtualServerStats>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllVirtualServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all virtual servers' statistics.	N/A	This column must be empty.	• N/A

SLB/ClearServiceHostStats

This table is used to clear the statistics of the service host.

XML structure

```
<SLB>
  <ClearServiceHostStats>
    <ClearServiceHostStat>
      <Name></Name>
      <Clear></Clear>
    </ClearServiceHostStat>
  </ClearServiceHostStats>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearServiceHostStats
Table type	Multi-instance table
Row name	ClearServiceHostStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified service host.	N/A	This column must be empty.	• N/A

SLB/ClearAllServiceHostStats

This table is used to clear all service hosts statistics.

XML structure

```
<SLB>
  <ClearAllServiceHostStats>
    <Clear></Clear>
  </ClearAllServiceHostStats>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllServiceHostStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all service hosts statistics.	N/A	This column must be empty.	• N/A

SLB/ClearServicePoolMemberStats

This table is used to clear the statistics of the server farm member.

XML structure

```
<SLB>
  <ClearServicePoolMemberStats>
    <ClearServicePoolMemberStat>
      <ServicePool></ServicePool>
      <ServiceHost></ServiceHost>
      <PortNumber></PortNumber>
      <Clear></Clear>
    </ClearServicePoolMemberStat>
  </ClearServicePoolMemberStats>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearServicePoolMemberStats
Table type	Multi-instance table
Row name	ClearServicePoolMemberStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServicePool	Name of the service pool.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
ServiceHost	Name of the service pool member.	N/A	String, case-insensitive. • Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
Clear	Action of clearing the specified service pool member.	N/A	This column must be empty.	N/A

Contents

Contents i
SLB 1
SLB/HTTPVirtualServers 1
XML structure 1
Table description 2
Columns 2
SLB/HTTPSVirtualServers 4
XML structure 4
Table description 5
Columns 5
SLB/TCPProxyVirtualServers 8
XML structure 8
Table description 9
Columns 9
SLB/SSLVirtualServers 11
XML structure 11
Table description 12
Columns 12
SLB/TCPVirtualServers 14
XML structure 14
Table description 15
Columns 15
SLB/UDPVirtualServers 17
XML structure 17
Table description 18
Columns 18
SLB/SIPUDPVirtualServers 20
XML structure 20
Table description 21
Columns 21
SLB/SIPTCPVirtualServers 23
XML structure 23
Table description 23
Columns 24
SLB/RADIUSVirtualServers 25
XML structure 25
Table description 26
Columns 26
SLB/IPVirtualServers 28
XML structure 28
Table description 29
Columns 29
SLB/VServerLimitRules 31
XML structure 31
Table description 32
Columns 32
SLB/VServerSSLServerPolicies 34
XML structure 34
Table description 34
Columns 35
SLB/VServerSchedulePolicies 35
XML structure 35
Table description 35
Columns 35
SLB/VServerModifyPolicies 36

XML structure 36
</SLB>Table description 36
Columns 37
SLB/ServicePools 37
XML structure 37
Table description 38
Columns 38
SLB/ServicePoolProbes 41
XML structure 41
Table description 41
Columns 41
SLB/SPoolGenerateHostAndMembers 42
XML structure 42
Table description 42
Columns 42
SLB/ServicePoolMembers 43
XML structure 44
Table description 44
Columns 44
SLB/SPoolMemberProbes 45
XML structure 45
Table description 46
Columns 46
SLB/ExternalScripts 46
XML structure 46
Table description 47
Columns 47
SLB/ExternalMonitors 47
XML structure 47
Table description 48
Columns 48
SLB/ExternalMonitorProcessParameter 49
XML structure 49
Table description 49
Columns 49
SLB/RSTProbeTemplates 49
XML structure 50
Table description 50
Columns 50
SLB/ZeroWindowProbeTemplates 51
XML structure 51
Table description 52
Columns 52
SLB/HTTPPassiveProbeTemplates 53
XML structure 53
Table description 53
Columns 54
SLB/ServiceHosts 55
XML structure 55
Table description 55
Columns 55
SLB/ServiceHostProbes 57
XML structure 57
Table description 57
Columns 57
SLB/HTTPSchedulePolicies 57
XML structure 57
Table description 58
Columns 58
SLB/HTTPSSchedulePolicies 60
XML structure 60
Table description 61

Columns 61
SLB/TCPProxySchedulePolicies 63
XML structure 63
Table description 64
Columns 64
SLB/SSLSchedulePolicies 65
XML structure 65
Table description 65
Columns 66
SLB/TCPSchedulePolicies 66
XML structure 66
Table description 67
Columns 67
SLB/UDPSchedulePolicies 68
XML structure 68
Table description 68
Columns 68
SLB/SIPTCPSchedulePolicies 69
XML structure 69
Table description 69
Columns 70
SLB/SIPUDPSchedulePolicies 70
XML structure 70
Table description 71
Columns 71
SLB/RADIUSSchedulePolicies 72
XML structure 72
Table description 72
Columns 72
SLB/IPSchedulePolicies 73
XML structure 73
Table description 73
Columns 74
SLB/SchedulePolicyMatchRules 74
XML structure 74
Table description 75
Columns 76
SLB/HTTPContents 79
XML structure 79
Table description 79
Columns 80
SLB/HTTPModifyPolicies 80
XML structure 80
Table description 80
Columns 81
SLB/ModifyPolicyMatchRules 81
XML structure 81
Table description 82
Columns 82
SLB/HTTPModPolicyRewriteHeaders 85
XML structure 85
Table description 85
Columns 86
SLB/HTTPModPolicyRewriteBodies 89
XML structure 89
Table description 89
Columns 90
SLB/HTTPModPolicyRewriteURIs 90
XML structure 90
Table description 91
Columns 91
SLB/HTTPModPolicySSLURIs 92

XML structure 93
Table description 93
Columns 93
SLB/TCPProxyParameters 94
XML structure 94
Table description 94
Columns 95
SLB/HTTPParameters 96
XML structure 96
Table description 96
Columns 97
SLB/HTTPCompressionParameters 98
XML structure 98
Table description 98
Columns 99
SLB/OneConnectParameters 100
XML structure 100
Table description 100
Columns 101
SLB/AddressPortPersistences 101
XML structure 101
Table description 102
Columns 102
SLB/RADIUSPersistences 103
XML structure 103
Table description 103
Columns 104
SLB/HTTPCookiePersistences 104
XML structure 104
Table description 105
Columns 105
SLB/HTTPContentPersistences 107
XML structure 107
Table description 107
Columns 108
SLB/UDPPayloadPersistences 108
XML structure 108
Table description 109
Columns 109
SLB/TCPPayloadPersistences 110
XML structure 110
Table description 110
Columns 111
SLB/HTTPBodyPersistences 111
XML structure 111
Table description 112
Columns 112
SLB/HTTPHeaderPersistences 113
XML structure 113
Table description 113
Columns 114
SLB/SSLPersistences 115
XML structure 115
Table description 115
Columns 115
SLB/SIPPersistences 116
XML structure 116
Table description 116
Columns 117
SLB/HTTPPassivePersistences 117
XML structure 117
Table description 117

Columns ····· 118
SLB/HTTPPassivePersistenceMethods ····· 118
XML structure ····· 118
Table description ····· 119
Columns ····· 119
SLB/UDPPassivePersistences ····· 120
XML structure ····· 120
Table description ····· 121
Columns ····· 121
SLB/VServerArpInterfaces ····· 122
XML structure ····· 122
Table description ····· 122
Columns ····· 123
SLB/HTTPCompressionParameters ····· 123
XML structure ····· 123
Table description ····· 123
Columns ····· 124
SLB/HTTPCompressionParameterRules ····· 125
XML structure ····· 125
Table description ····· 125
Columns ····· 126
SLB/ProtectionPolicies ····· 126
XML structure ····· 126
Table description ····· 127
Columns ····· 127
SLB/HTTPProtectionPolicyRules ····· 128
XML structure ····· 128
Table description ····· 128
Columns ····· 128
SLB/IShellFiles ····· 129
XML structure ····· 129
Table description ····· 130
Columns ····· 130

SLB

SLB/HTTPVirtualServers

This table contains information about HTTP virtual servers.

XML structure

```
<SLB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <RebalancePerRequest></RebalancePerRequest>
      <InsertXFFHeader></InsertXFFHeader>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <HTTPParameter></HTTPParameter>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <OneConnectParameter></OneConnectParameter>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP virtual servers can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 80.	N/A
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). 1—Enable.	N/A
InsertXFFHeader	Enable insert header of X-Forwarded_For.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DefaultSe	Name of the	N/A	String,	The null string indicates the label

Column name	Column description	Column type	Data type and restrictions	Remarks
rvicePool	default serice pool.		case-insensitive. Length: 1 to 63 characters.	is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The null string indicates the label is not configured.
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression	N/A	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the virtual server.		characters.	
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/HTTPSVirtualServers

This table contains information about HTTPS virtual servers.

XML structure

```
<SLB>
  <HTTPSVirtualServers>
    <HTTPSVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
```

```
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <RebalancePerRequest></RebalancePerRequest>
      <InsertXFFHeader></InsertXFFHeader>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <HTTPParameter></HTTPParameter>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <OneConnectParameter></OneConnectParameter>
      <HTTPProtectionPolicy></HTTPProtectionPolicy>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </HTTPSVirtualServer>
  </HTTPSVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSVirtualServers
Table type	Multi-instance table
Row name	HTTPSVirtualServer
Restrictions	Only HTTPS virtual servers can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	N/A
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
InsertXFFHeader	Enable insert header of X-Forwarded_For.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPCompressionParameter	Parameter profile whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter profile whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPProtectionPolicy	Name of the HTTP protection policy	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/TCPProxyVirtualServers

This table contains information about TCP-L7 virtual servers.

XML structure

```
<SLB>
  <TCPProxyVirtualServers>
    <TCPProxyVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupSPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </TCPProxyVirtualServer>
```

```
  </TCPProxyVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPProxyVirtualServers
Table type	Multi-instance table
Row name	TCPProxyVirtualServer
Restrictions	Only TCP-Proxy virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Items range: 1 to 32. When a virtual server is created, the column must be specified.	
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: cps.	
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SSLVirtualServers

This table contains information about SSL virtual servers.

XML structure

```
<SLB>
  <SSLVirtualServers>
    <SSLVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <SSLClientPolicy></SSLClientPolicy>
      <Persistence></Persistence>
      <BackupSPersistence></BackupPersistence>
      <IPToS></IPToS>
      <TCPProxyParameterClientSide></TCPProxyParameterClientSide>
      <TCPProxyParameterServerSide></TCPProxyParameterServerSide>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
```

```
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </SSLVirtualServer>
  </SSLVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLVirtualServers
Table type	Multi-instance table
Row name	SSLVirtualServer
Restrictions	Only SSL virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber List	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The null string indicates the label is not configured.
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
TCPProxyParameterClientSide	Client-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPProxyParameterServerSide	Server-side TCP proxy parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit.		Value range: 0 to 2^{32}-1. Unit : KB/s.	
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/TCPVirtualServers

This table contains information about TCP virtual servers.

XML structure

```
<SLB>
  <TCPVirtualServers>
    <TCPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
```

```
    </TCPVirtualServer>
  </TCPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPVirtualServers
Table type	Multi-instance table
Row name	TCPVirtualServer
Restrictions	Only TCP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.

Column name	Column description	Column type	Data type and restrictions	Remarks
			or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit.		2^{32}-1. Unit : KB/s.	
RateLimitIn Bandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOu tBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroup ID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/UDPVirtualServers

This table contains information about UDP virtual servers.

XML structure

```
<SLB>
  <UDPVirtualServers>
    <UDPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <IShellFileName></IShellFileName>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
```

```
      <TrafficGroupID></TrafficGroupID>
    </UDPVirtualServer>
  </UDPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPVirtualServers
Table type	Multi-instance table
Row name	UDPVirtualServer
Restrictions	Only UDP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.

Column name	Column description	Column type	Data type and restrictions	Remarks
			of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable . • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
IShellFileName	Name of the IShell File	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IP packet sent to server.		Value range: 0 to 255. By default, no IPToS is specified.	
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SIPUDPVirtualServers

This table contains information about SIPUDP virtual servers.

XML structure

```
<SLB>
  <SIPUDPVirtualServers>
    <SIPUDPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
```

```
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </SIPUDPVirtualServer>
  </SIPUDPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPUDPVirtualServers
Table type	Multi-instance table
Row name	SIPUDPVirtualServer
Restrictions	Only SIP-UDP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber List	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			value is 5060.	
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable . • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/SIPTCPVirtualServers

This table contains information about SIPTCP virtual servers.

XML structure

```
<SLB>
  <SIPTCPVirtualServers>
    <SIPTCPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </SIPTCPVirtualServer>
  </SIPTCPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	SIPTCPVirtualServers
Table type	Multi-instance table
Row name	SIPTCPVirtualServer
Restrictions	Only SIP-TCPvirtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber List	Port of virtual server.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 5060.	N/A
DefaultServi cePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEna ble	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Enable.	
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```
<SLB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Description></Description>
```

```
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <UDPPerPacket></UDPPerPacket>
      <DefaultServicePool></DefaultServicePool>
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with

Column name	Column description	Column type	Data type and restrictions	Remarks
			address is specified.	mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupPersi	Name of the	N/A	String,	This column cannot be configured if

Column name	Column description	Column type	Data type and restrictions	Remarks
stence	backup persistence.		case-insensitive. Length: 1 to 63 characters.	the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/IPVirtualServers

This table contains information about IP virtual servers.

XML structure

```
<SLB>
  <IPVirtualServers>
    <IPVirtualServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumberList></PortNumberList>
      <DefaultServicePool></DefaultServicePool>
```

```
      <SnatMode></SnatMode>
      <SNATPool></SNATPool>
      <ServiceEnable></ServiceEnable>
      <Persistence></Persistence>
      <BackupPersistence></BackupPersistence>
      <IPToS></IPToS>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <VrrpVrid></VrrpVrid>
      <TrafficGroupID></TrafficGroupID>
    </IPVirtualServer>
  </IPVirtualServers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IPVirtualServers
Table type	Multi-instance table
Row name	IPVirtualServer
Restrictions	Only IP virtual servers can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	The column cannot be configured if no IPv4 address is configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 32.	
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 32.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
DefaultServicePool	Name of the default serice pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SnatMode	The mode of SNAT	N/A	Enumeration: • 0—None (default). • 1—Snat-pool. • 2—Auto-map. ~~3—Tcp-option.~~	Tcp-option is NOT supported in V9 NO.1 version, it will be supported in V9 NO.2 version.
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Persistence	Name of the persistence.	N/A	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
BackupPersistence	Name of the backup persistence.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default persistence is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit : KB/s.	N/A
VrrpVrid	Identifier of the virtual router.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
TrafficGroupID	Identifier of the cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

SLB/VServerLimitRules

This table contains information about virtual server limit rules.

XML structure

```
<SLB>
  <VServerLimitRules>
   <VServerLimitRule>
     <VirtualServerName></VirtualServerName>
     <RuleName></RuleName>
     <AfterRuleName></AfterRuleName>
     <MoveTopOrBottom></MoveTopOrBottom>
     <Type></Type>
```

```
    <Ipv4Address></Ipv4Address>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Ipv4AddressStart></Ipv4AddressStart>
    <Ipv4AddressEnd></Ipv4AddressEnd>
    <Ipv6AddressStart></Ipv6AddressStart>
    <Ipv6AddressEnd></Ipv6AddressEnd>
    <ThresholdHigh></ThresholdHigh>
    <ThresholdLow></ThresholdLow>
   </VServerLimitRule>
  </VServerLimitRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerLimitRules
Table type	Multi-instance table
Row name	VServerLimitRule
Restrictions	Only virtual server limit rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the limit rule name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted before.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName and MoveTopOrBottom can not configure together AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterRuleName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the limit rule.	N/A	Enumeration: • 0—any • 1—perSrc.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Ipv4AddressStart	Start IP address	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	End IP address	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv6AddressStart	Start IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	Example: 2::2. Loopback address,

Column name	Column description	Column type	Data type and restrictions	Remarks
				multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

SLB/VServerSSLServerPolicies

This table contains information about Virtual Server SSL server policy

XML structure

```
<SLB>
  <VServerSSLServerPolicies>
    <VServerSSLServerPolicy>
      <VirtualServerName></VirtualServerName>
      <SSLServerPolicy></SSLServerPolicy>    </VServerSSLServerPolicy>
  </VServerSSLServerPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerSSLServerPolicies
Table type	Multi-instance table
Row name	VServerSSLServerPolicy
Restrictions	Only Virtual server ssl server policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
SSLServerPolicy	Name of the SSL server policy.	Index	String, case-insensitive. Length: 0 to 31 characters.	N/A

SLB/VServerSchedulePolicies

This table contains information about virtual server quote schedule policies.

XML structure

```
<SLB>
  <VServerSchedulePolicies>
    <VServerSchedulePolicy>
      <VirtualServerName></VirtualServerName>
      <PolicyName></PolicyName>     <AfterPolicyName></AfterPolicyName>
      <MoveTopOrBottom></MoveTopOrBottom>
    </VServerSchedulePolicy>
  </VServerSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerSchedulePolicies
Table type	Multi-instance table
Row name	VServerSchedulePolicie
Restrictions	Only schedule policie can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the schedule policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterPolicyName	Name of the schedule policy that the row will be inserted before.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterPolicyName and MoveTopOrBottom can not configure together. AfterPolicyName must be an existing policy. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterPolicyName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.

SLB/VServerModifyPolicies

This table contains information about virtual server quote modify policy.

XML structure

```
<SLB>
  <VServerModifyPolicies>
    <VServerModifyPolicy>
      <VirtualServerName></VirtualServerName>
      <ModifyPolicyName></ModifyPolicyName>
    </VServerModifyPolicy>
  </VServerModifyPolicies>
```

</SLB>Table description

Item	Description
Feature name	SLB
Table name	VServerModifyPolicies
Table type	Multi-instance table
Row name	VServerModifyPolicy
Restrictions	Only virtual server quote modify policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ModifyPolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

SLB/ServicePools

This table contains information about service pool.

XML structure

```
<SLB>
  <ServicePools>
    <ServicePool>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectHostMinNumber></SelectHostMinNumber>
      <SelectHostMaxNumber></SelectHostMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <BusyAction></BusyAction>
      <QueueLength></QueueLength>
      <QueueTimeout></QueueTimeout>
      <SnatEnable></SnatEnable>
      <DnatEnable></DnatEnable>
    </ServicePool>
  </ServicePools>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePools
Table type	Multi-instance table
Row name	ServicePool
Restrictions	Only service pool can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of theservice pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a service host to serve a client request.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Least time. • 13—Dynamic round-robin.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. • 20—Least time member.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to128.	N/A
SelectHostMinNumber	Minimum number of the active service host in the service pool.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectHostMaxNumber	Maximum number of the active service host in the service pool.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SlowOnlineEnable	Enable the service pool slow online.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any service host fails in a service poo.	N/A	Enumeration: • 0—Keep. • 1—Reset. • 2—Reschedule.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProbeSuccessCriteria	The condition that service host is available through probes.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
BusyAction	Busy protection policies for server nodes	N/A	Enumeration: • 0—Drop(default). • 1—Enqueue. • 2—Force.	N/A
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
QueueTimeout	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enque (1).
SnatEnable	Enable the Snat.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DnatEnable	Enable the Dnat.	N/A	Enumeration: • 0—Disable. • 1—Enable(defau	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			lt).	

SLB/ServicePoolProbes

This table contains information about Service Pool Probe that only uses NQA template.

XML structure

```
<SLB>
  <ServicePoolProbes>
    <ServicePoolProbe>
      <PoolName></PoolName>
      <Probe></Probe>
    </ServicePoolProbe>
  </ServicePoolProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolProbes
Table type	Multi-instance table
Row name	ServicePoolProbe
Restrictions	Only service pool probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the service pool.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

SLB/SPoolGenerateHostAndMembers

This table contains information about service pool generate hosts and members.

XML structure

```
<SLB>
  <SPoolGenerateHostAndMembers>
    <SPoolGenerateHostAndMember>
      <PoolName></PoolName>
      <PortNumber></PortNumber>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
      <Weight></Weight>
      <Priority></Priority>
    </SPoolGenerateHostAndMembers>
  </SPoolGenerateHostAndMembers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SPoolGenerateHostAndMembers PoolMembers
Table type	Multi-instance table
Row name	SPoolGenerateHostAndMember
Restrictions	Only service pool generate host and member can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4Addr	Start IPv4	N/A	String.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
essStart	address.		Dotted decimal notation. By default, no Ipv4Address is specified.	Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. Ipv4Address and Ipv6Address can not configure together. When Ipv4AddressEnd is not configged, Ipv4AddressStart means one IPv4 address, otherwise it means the start address of an IPv4 range.
Ipv4AddressEnd	End IPv4 address.	N/A	String. Dotted decimal notation. By default, no Ipv4Address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. Ipv4Address and Ipv6Address can not configure together. This column cannot be configged when Ipv4AddressStart is not configged.
Ipv6AddressStart	Start IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no Ipv6Address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. Ipv4Address and Ipv6Address can not configure together. When Ipv6AddressEnd is not configged, Ipv6AddressStart means one IPv6 address, otherwise it means the start address of an IPv6 range.
Ipv6AddressEnd	End IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no Ipv6Address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. Ipv6Address and Ipv6Address can not configure together. This column cannot be configged when Ipv6AddressStart is not configged.
Weight	Weight of the service pool member.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the service pool member.	N/A	Unsigned integer. Value range: 1 to 8.	N/A

SLB/ServicePoolMembers

This table contains information about service pool member.

XML structure

```
<SLB>
  <ServicePoolMembers>
    <ServicePoolMember>
      <PoolName></PoolName>
      <NodeName></NodeName>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <ServiceEnable></ServiceEnable>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
    </ServicePoolMember>
  </ServicePoolMembers>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServicePoolMembers
Table type	Multi-instance table
Row name	ServicePoolMember
Restrictions	Only service pool member can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node name member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the service pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the service pool member.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the service pool member.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
ServiceEnable	ServiceEnable state for the service pool member.	N/A	Enumeration: • 0—Online (default). • 1—Slow online. • 2—Offline.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps.	N/A
ProbeSuccessCriteria	Probe success criteria for the service pool member.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A

SLB/SPoolMemberProbes

This table contains information about Service Pool Member Probe that only uses NQA template.

XML structure

```
<SLB>
  <SPoolMemberProbes>
    </SPoolMemberProbe>
      <PoolName></PoolName>
      <NodeName></NodeName>
      <PortNumber></PortNumber>
      <Probe></Probe>
    </SPoolMemberProbe>
```

```
  </SPoolMemberProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SPoolMemberProbes
Table type	Multi-instance table
Row name	SPoolMemberProbe
Restrictions	Only service pool member probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	Name of the service pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NodeName	Name of the node name member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Probe	Probe method for the service pool member.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

SLB/ExternalScripts

This table contains information about external monitor script files.

XML structure

```
<SLB>
  <ExternalScripts>
    <ExternalScript>
      <FileName></FileName>
    </ExternalScript>
```

```
  </ExternalScripts>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalScripts
Table type	Multi-instance table
Row name	ExternalScript
Restrictions	Only external monitor script file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the external monitor script file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

SLB/ExternalMonitors

This table contains information about an external monitor.

XML structure

```
<SLB>
  <ExternalMonitors>
    <ExternalMonitor>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <Timeout></Timeout>
      <ExternalScript></ExternalScript>
      <Argument></Argument>
      <EnvVariablesList>
        <VariableName></VariableName>
        <VariableValue></VariableValue>
      </EnvVariablesList>
    </ExternalMonitor>
  </ExternalMonitors>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalMonitors
Table type	Multi-instance table
Row name	ExternalMonitor
Restrictions	Only external monitor can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the external monitor.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the external monitor.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 86400. By default, the value is 5. Unit: second.	N/A
Timeout	Response timeout of the external monitor.	N/A	Unsigned integer. Value range: 1 to 86400. By default, the value is 3. Unit: second.	N/A
ExternalScript	External monitor script of the external monitor.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
Argument	Argument for the external monitor	N/A	String, Length: 1 to 255 characters.	N/A
EnvVariablesList	Environment variable list	Data structure	Members include: • VariableName • VariableValue	N/A
VariableName	Environment variable name for external	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	monitor.			
VariableValue	Environment variable value for external monitor.	N/A	String, Length: 1 to 255 characters.	N/A

SLB/ExternalMonitorProcessParameter

This table contains information about the external monitor process parameter.

XML structure

```
<SLB>
  <ExternalMonitorProcessParameter>
    <ProcessLimit></ProcessLimit>
  </ExternalMonitorProcessParameter>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ExternalMonitorProcessParameter
Table type	Single-instance table
Row name	N/A
Restrictions	Only external monitor process parameter can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessLimit	Maximum number of processes.	N/A	Unsigned integer, Value range:10 to 1000. By default, the value is 100.	N/A

SLB/RSTProbeTemplates

This table contains information about RST probe template.

XML structure

```
<SLB>
  <RSTProbeTemplates>
    <RSTProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <PacketLimit></PacketLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
      <RecoverTimeInterval></RecoverTimeInterval>
    </RSTProbeTemplate>
  </RSTProbeTemplates>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RSTProbeTemplates
Table type	Multi-instance table
Row name	RSTProbeTemplate
Restrictions	Only RST probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packet limit of RST probe	N/A	Unsigned integer: Value range: 1 to	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	template.		4294967295. By default, the value is 1000000.	
ProtectAction	Protection action of RST probe template.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0	The busy type protection action is valid and value 0 means keep retrying.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A

SLB/ZeroWindowProbeTemplates

This table contains information about Zero Window probe template.

XML structure

```
<SLB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
      <RecoverTimeInterval></RecoverTimeInterval>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the zero window probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window probe template.	N/A	Unsigned integer: Value range: 1 to 100. By default, the value is 40. Unit: %	N/A.
ProtectAction	Protection action of zero window probe.	N/A	Enumeration: • 0—Busy (default). • 1—Auto-shutdown.	N/A.
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255.	The busy type protection action is valid and value 0 means keep retrying.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 0	
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A

SLB/HTTPPassiveProbeTemplates

This table contains information about an HTTP passive probe template.

XML structure

```
<SLB>
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <RecoverTimeInterval></RecoverTimeInterval>
      <URLList>
        <CheckUrl></CheckUrl>     </URLList>
      <StatusCodeList>
        <StatusCode></StatusCode>
      </StatusCodeList>
    </HTTPPassiveProbeTemplate>
  </HTTPPassiveProbeTemplates>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5. By default, the value is 1. Unit: second.	N/A
URLThreshold	URL threshold of the HTTP passive probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 10000.	N/A.
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
URLList	URL list for the HTTP passive probe template.	Data structure	Members include: URL.	N/A
CheckUrl	URL for the HTTP passive probe template.	N/A	String, Length: 1 to 255 characters.	A URL list can contain a maximum of 10 URLs.
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

SLB/ServiceHosts

This table contains information about Service Host.

XML structure

```
<SLB>
  <ServiceHosts>
    <ServiceHost>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <Weight></Weight>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ServiceType></ServiceType>
    </ServiceHost>
  </ServiceHosts>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServiceHosts
Table type	Multi-instance table
Row name	ServiceHost
Restrictions	Only Service Host can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the Service Host.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the Service Host.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Dotted decimal notation. By default, no Ipv4Address is specified.	Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. Ipv4Address an Ipv6Address can not configure together.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no Ipv6Address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. Ipv4Address an Ipv6Address can not configure together.
Weight	Weight of the Service Host.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. Unit: qps. By default, the value is 0, which indicates the rate is not limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1. By default, the value is 0 which indicates that probe success criteria is all.	N/A
ServiceState	ServiceState for the Service Host.	N/A	Enumeration: • 0—Online(default). • 1—Slow online. • 2—Offline	N/A

SLB/ServiceHostProbes

This table contains information about Servicel Host Probe that only uses NQA template.

XML structure

```
<SLB>
  <ServiceHostProbes>
    <ServiceHostProbe>
      <ServiceHost></ServiceHost>
      <Probe></Probe>
    </ServiceHostProbe>
  </ServiceHostProbes>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ServiceHostProbes
Table type	Multi-instance table
Row name	ServiceHostProbe
Restrictions	Only Servicel Host Probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceHost	Name of the Servicel Host.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the Servicel Host.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

SLB/HTTPSchedulePolicies

This table contains information about HTTP Schedule policies.

XML structure

```
<SLB>
```

```
  <HTTPSchedulePolicies>
    <HTTPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>     <ResponseFileName></ResponseFileName>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <ResponsePreContent></ResponsePreContent>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <FallbackPreContent></FallbackPreContent>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
    </HTTPSchedulePolicy>
  </HTTPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSchedulePolicies
Table type	Multi-instance table
Row name	HTTPSchedulePolicy
Restrictions	Only http Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of HTTP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the policy.	N/A	Enumeration:	When ForwardType changes from Service

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Drop (default). • 3—Service pool. • 9—Response.	pool (3) to drop (1) or response (9), service pool becomes default value.
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • • 1—Match next schedule policy. • 2—Response. • 3—Fin close (default). • 4—Rst close.	The column can be configured when ForwardType is Service pool (3) or there is no ForwardType column.
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service pool (3).
ResponseFile Name	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
ZipFileWorkp ath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured.
ResponseZip File	Full path and name of the zip file for the response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when

Column name	Column description	Column type	Data type and restrictions	Remarks
				ZipFileWorkpath is not configured.
ResponsePreContent	Name of the predefined content for response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9).
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
FallbackPreContent	Name of the predefined content file for fallback.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	The column can be configured when ForwardType is Response (1) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The column can be configured when ForwardType is Service pool (3) or there is no ForwardType column.

SLB/HTTPSSchedulePolicies

This table contains information about HTTPS Schedule policies.

XML structure

```
<SLB>
  <HTTPSSchedulePolicies>
    <HTTPSSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
```

```
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
      <ResponseFileName></ResponseFileName>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <ResponsePreContent></ResponsePreContent>
      <FallbackResponseRawFile></FallbackResponseRawFile>
      <FallbackPreContent></FallbackPreContent>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
    </HTTPSSchedulePolicy>
  </HTTPSSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPSSchedulePolicies
Table type	Multi-instance table
Row name	HTTPSSchedulePolicy
Restrictions	Only https Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	HTTPSSchedulePolicy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from Service pool (3) to drop (1) or response (9), service pool

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9—Response.	becomes default value.
Fallback	Fallback action when real server select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 2—Response. • 3—Fin close (default). • 4—Rst close.	The column can be configured when ForwardType is Service pool (3) or there is no ForwardType column.
ServicePool	Name of the Service Pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).
ResponseFile Name	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
ZipFileWorkp ath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured. The column must start witch device name.
ResponseZip File	Full path and name of the zip file for the response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9). The column cannot be configured when ZipFileWorkpath is not

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured. The column must start witch device name.
ResponsePreContent	Name of the predefined content file for response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column must start witch device name.
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: • flash:/lb/1.html chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
FallbackPreContent	Name of the predefined content file for fallback.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	The column can be configured when ForwardType is Drop(1).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The column can be configured when ForwardType is Service Pool(3).

SLB/TCPProxySchedulePolicies

This table contains information aboutTCP-L7Schedule policies.

XML structure

```
<SLB>
  <TCPProxySchedulePolicies>
    <TCPProxySchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
```

```
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <TCPDropType></TCPDropType>
      <ServicePool></ServicePool>
    </TCPProxySchedulePolicy>
  </TCPProxySchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPProxySchedulePolicies
Table type	Multi-instance table
Row name	TCPProxySchedulePolicy
Restrictions	Only TCP-Proxy http Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The name of TCP proxy scheduling policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 3—Fin close (default). • 4—Rst close.	The column can be configured when ForwardType is Service Pool (3).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close.	The column can be configured when ForwardType is Drop (1).

Column name	Column description	Column type	Data type and restrictions	Remarks
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SSLSchedulePolicies

This table contains information about SSLSchedule policies.

XML structure

```
<SLB>
  <SSLSchedulePolicies>
    <SSLSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
      <TCPDropType></TCPDropType>
      <SSLClientPolicy></SSLClientPolicy>
    </SSLSchedulePolicy>
  </SSLSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLSchedulePolicies
Table type	Multi-instance table
Row name	SSLSchedulePolicy
Restrictions	Only SSL http Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of SSL Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 1—Match next schedule policy. • 3—Fin close (default). • 4—Rst close.	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the Service pool for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: • 0—Fin close(default). • 1—Rst close	The column can be configured when ForwardType is Drop(1).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The column can be configured when ForwardType is Service Pool (3).

SLB/TCPSchedulePolicies

This table contains information about TCP Schedule policies.

XML structure

```
<SLB>
  <TCPSchedulePolicies>
    <TCPSchedulePolicy>
```

```
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </TCPSchedulePolicy>
  </TCPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	TCPSchedulePolicies
Table type	Multi-instance table
Row name	TCPSchedulePolicy
Restrictions	Only TCP http Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of TCP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy. •	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the	N/A	String, case-insensitive.	The column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
	Service pool for the policy.		Length: 0 to 63 characters.	configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/UDPSchedulePolicies

XML structure

```
<SLB>
  <UDPSchedulePolicies>
    <UDPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </UDPSchedulePolicy>
  </UDPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPSchedulePolicies
Table type	Multi-instance table
Row name	UDPSchedulePolicy
Restrictions	Only UDP http Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of UDP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the UDP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy. •	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the Service pool for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SIPTCPSchedulePolicies

This table contains information about SIP TCP Schedule policies.

XML structure

```
<SLB>
  <SIPTCPSchedulePolicies>
    <SIPTCPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <ServicePool></ServicePool>
    </SIPTCPSchedulePolicy>
  </SIPTCPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	SIPTCPSchedulePolicies
Table type	Multi-instance table
Row name	SIPTCPSchedulePolicy
Restrictions	Only SIP TCP Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1), Service pool become default value.
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SIPUDPSchedulePolicies

This table contains information about SIP UDP Schedule policies.

XML structure

```
<SLB>
  <SIPUDPSchedulePolicies>
    <SIPUDPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
```

```
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </SIPUDPSchedulePolicy>
  </SIPUDPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPUDPSchedulePolicies
Table type	Multi-instance table
Row name	SIPUDPSchedulePolicy
Restrictions	Only SIP UDP Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy. •	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType

Column name	Column description	Column type	Data type and restrictions	Remarks
				becomes Service Pool (3).

SLB/RADIUSSchedulePolicies

This table contains information about RADIUS Schedule policies.

XML structure

```
<SLB>
  <RADIUSSchedulePolicies>
    <RADIUSSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </RADIUSSchedulePolicy>
  </RADIUSSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSSchedulePolicies
Table type	Multi-instance table
Row name	RADIUSSchedulePolicy
Restrictions	Only RADIUS Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of TCP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the TCP Schedule Policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy. •	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/IPSchedulePolicies

This table contains information about IP Schedule policies.

XML structure

```
<SLB>
  <IPSchedulePolicies>
    <IPSchedulePolicy>
      <PolicyName></PolicyName>
      <Description></Description>
      <MatchMode></MatchMode>
      <ForwardType></ForwardType>
      <Fallback></Fallback>
      <ServicePool></ServicePool>
    </IPSchedulePolicy>
  </IPSchedulePolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IPSchedulePolicies

Table type	Multi-instance table
Row name	IPSchedulePolicy
Restrictions	Only IP Schedule policies can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The Name of IP Schedule Policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	The rule matched policy.	N/A	Enumeration: • 0—Match any(default). • 1—Match all.	N/A
ForwardType	Forward mode of the IP Schedule policy.	N/A	Enumeration: • 1—Drop (default). • 2—Forward all. • 3—Service Pool.	When ForwardType changes from service pool (3) to drop (1) or forward all (2), Service pool become default value.
Fallback	Fallback action when Service pool select failed.	N/A	Enumeration: • 0—Drop (default). • 1—Match next schedule policy. •	The column can be configured when ForwardType is Service Pool (3).
ServicePool	Name of the Service pool for the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column can be configured when ForwardType is Service Pool (3) or there is no ForwardType column. When the column is configured, ForwardType becomes Service Pool (3).

SLB/SchedulePolicyMatchRules

This table contains information about Schedule policy match rules.

XML structure

```
<SLB>
  <SchedulePolicyMatchRules>
    <SchedulePolicyMatchRule>
```

```
      <PolicyName></PolicyName>
      <RuleName></RuleName>     <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv4AddressStart></SrcIpv4AddressStart>
      <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <SrcIpv6AddressStart></SrcIpv6AddressStart>
      <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
      <InterfaceName></InterfaceName>
      <BodyExpression></BodyExpression>
      <BodyOffset></BodyOffset>
      <CookieName></CookieName>
      <CookiePattern></CookiePattern>     <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <URI></URI>
      <Method></Method>
      <ExtType></ExtType>
      <Version></Version>
      <PayloadPattern></PayloadExpression>     <Not></Not>
      <AttributeType></AttributeType>
      <AttributePattern></AttributePattern>
      <CaseSensitive></CaseSensitive>
    </SchedulePolicyMatchRule>
  </SchedulePolicyMatchRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SchedulePolicyMatchRules
Table type	Multi-instance table
Row name	SchedulePolicyMatchRule
Restrictions	Only Schedule policy match rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	SchedulePolicyMatchRule.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URI. • 9—Method. • 10—Version. • 11—Payload. • 12—RADIUS.	Only HTTP and HTTPS type schedule policies support Content(5), Cookie(6), Header(7), URI(8), Method(9), Version(10). Only TCPL7 and SSL type schedule policies support Payload(11). Only RADIUS type schedule policy supports RADIUS(12).
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	This column can be configured only when the type is Source range IPv4(1). Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	SrcIpv4AddressStart and SrcIpv4AddressEnd should be configured together. Example: 1.1.1.1. Loopback addresses, multicast addresses,

Column name	Column description	Column type	Data type and restrictions	Remarks
				broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (2).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
SrcIpv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	This column can be configured only when the type is Source range IPv6 (3). Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
SrcIpv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	SrcIpv6AddressStart and SrcIpv6AddressEnd should be configured together. Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (4).
BodyExpression	Regular expression matched the	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Content (5).

Column name	Column description	Column type	Data type and restrictions	Remarks
	content.			
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	This column can be configured only when ContentExpression is configured.
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Cookie (6).
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when CookieName is configured.
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is HTTP Header (7).
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when HeaderName is configured.
URI	Regular expression matched the URI.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is URI (8).
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Method (9).When the ExtType is Nonuser-defined (0), Method can only be configured one of these methods: GET, CONNECT, DELETE, HEAD, OPTIONS, TRACE, PUT, AND POST.
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). • **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. • **1—1.1.**	N/A
PayloadPattern	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	This column can be configured only when the type is payload (11).
Not	Whether the matching condition is opposite	N/A	Enumeration: • 0—Matching condition is not opposite (default) • 1—Matching condition is opposite	This column can be configured only when PayloadExpression is configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	This column can be configured only when the type is RADIUS (12).
AttributePattern	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is RADIUS (12).
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	This column can be configured only when the type is cookie(6)、header(7)、URI(8)、payload(11).

SLB/HTTPContents

This table contains information about HTTP content.

XML structure

```
<SLB>
  <HTTPContents>
    <HTTPContent>
      <ContentName></ContentName>
      <Description></Description>
      <Header></Header>
      <Body></Body>
    </HTTPContent>
  </HTTPContents>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPContents
Table type	Multi-instance table
Row name	HTTPContent
Restrictions	Only HTTP content can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContentName	The Name of the HTTP content.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the content.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Header	The header information of the HTTP content.	N/A	String, case-sensitive. Length: The sum of Header and Body 255 is less than 16000 characters.	The null string indicates the label is not configured.
Body	The body information of the HTTP content.	N/A	Length: The sum of Header and Body 255 is less than 16000 characters.	The null string indicates the label is not configured.

SLB/HTTPModifyPolicies

This table contains information about the HTTP modify policy.

XML structure

```
<SLB>
  <HTTPModifyPolicies>
    <HTTPModifyPolicy>
      <Name></Name>
      <Description></Description>
      <MatchMode></MatchMode>
    <HTTPModifyPolicy>
  </HTTPModifyPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModifyPolicies
Table type	Multi-instance table
Row name	HTTPModifyPolicy
Restrictions	Only L7 HTTP modify policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the HTTP modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the HTTP modify policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchMode	Match mode	N/A	Enumeration: • 0—Match Any (default). 1—Match All.	N/A

SLB/ModifyPolicyMatchRules

This table contains information about Modify policy match rules.

XML structure

```
<SLB>
  <ModifyPolicyMatchRules>
    <ModifyPolicyMatchRule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>     <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv4AddressStart></SrcIpv4AddressStart>
      <SrcIpv4AddressEnd></SrcIpv4AddressEnd>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <SrcIpv6AddressStart></SrcIpv6AddressStart>
      <SrcIpv6AddressEnd></SrcIpv6AddressEnd>
      <InterfaceName></InterfaceName>
      <BodyPattern></BodyPattern>
      <BodyOffset></BodyOffset>

      <CookieName></CookieName>
      <CookiePattern></CookiePattern>
      <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <URI></URI>
      <Method></Method>
      <ExtType></ExtType>
      <Version></Version>
      <CaseSensitive></CaseSensitive>
```

```
    </ModifyPolicyMatchRule>
  </ModifyPolicyMatchRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ModifyPolicyMatchRules
Table type	Multi-instance table
Row name	ModifyPolicyMatchRule
Restrictions	Only modify policy match rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source range IPv4. • 2—Source IPv6. • 3—Source range IPv6. • 4—Interface. • 5—Content. • 6—Cookie. • 7—Header. • 8—URL. • 9—Method. • 10—Version.	Only HTTP and HTTPS type modify policies support Content(5), Cookie(6), Header(7), URI(8), Method(9), Version(10).
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv4AddressStart	The start IPv4 adress of Source range IPv4 match	Index	IPv4: String, dotted decimal notation.	This column can be configured only when the type is Source range IPv4(1).

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule.			Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
SrcIpv4AddressEnd	The end IPv4 adress of Source range IPv4 match rule.	Index	IPv4: String, dotted decimal notation.	SrcIpv4AddressStart and SrcIpv4AddressEnd should be configured together. Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (2).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
SrcIpv6AddressStart	Start IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	This column can be configured only when the type is Source range IPv6 (3). Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
SrcIpv6AddressEnd	End IPv6 address	Index	IPv6: Hexadecimal string, colon-separated.	SrcIpv6AddressStart and SrcIpv6AddressEnd should be configured together. Example: 2::2. Loopback address,

Column name	Column description	Column type	Data type and restrictions	Remarks
				multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (4).
BodyPattern	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Content (5).
BodyOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	This column can be configured only when BodyPattern is configured.
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Cookie (6).
CookiePattern	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when CookieName is configured.
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is HTTP Header (7).
HeaderPattern	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when HeaderName is configured.
URI	Regular expression matched the URI.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is URI (8).
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Method (9).When the ExtType is Nonuser-defined (0), Method can only be configured one of these methods: GET, CONNECT, DELETE, HEAD, OPTIONS, TRACE, PUT, AND POST.

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtType	Identification of the type for user-defined.	N/A	Enumeration: • **0**—Nonuser-defined (default). • **1**—User-defined.	N/A
Version	The version of HTTP.	N/A	Enumeration: • **0**—1.0. • **1—1.1.**	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	This column can be configured only when the type is cookie(6)、header(7)、URI(8).

SLB/HTTPModPolicyRewriteHeaders

This table contains information about HTTP Schedule policy rewrite headers.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteHeaders>
    <HTTPModPolicyRewriteHeader>
      <PolicyName></PolicyName>
      <Type></Type>
      <Direction></Direction>
      <HeaderName></HeaderName>
      <HeaderPattern></HeaderPattern>
      <CaseSensitive></CaseSensitive>
      <HeaderExpress></HeaderExpress>
      <Replace></Replace>
      <Encode></Encode>    </HTTPModPolicyRewriteHeader>
  </HTTPModPolicyRewriteHeaders>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteHeaders
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteHeader
Restrictions	Only HTTP mod policy rewrite headers can be configured by this table.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: • 0—Header Delete. • 1—Header Insert. • 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: • 0—Request and Response. • 1—Request. • 2—Response.	N/A
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 1 to 63 characters.	HeaderName cannot contain any one of characters following: 0 to 31 and 127 to 255 in the ASCII table, character as "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	This column has validity in Header Insert process. You cannot configure this column if the type is not Header Insert. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address. %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer

Column name	Column description	Column type	Data type and restrictions	Remarks
				of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2).
Replace	Replaced string that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2). Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port.

Column name	Column description	Column type	Data type and restrictions	Remarks
				%id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be

Column name	Column description	Column type	Data type and restrictions	Remarks
				constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. 2—Base64	Encode
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPModPolicyRewriteBodies

This table contains information about HTTP modify policy rewrite cbodies.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteBodies>
    <HTTPModPolicyRewriteBody>
      <PolicyName></PolicyName>
      <RewriteValue></RewriteValue>

      <ReplaceValue></ReplaceValue>
    </HTTPModPolicyRewriteBody>
  </HTTPModPolicyRewriteBodies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteBodies
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteBody
Restrictions	Only HTTP modify policy rewrite bodiess can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
RewriteValue	Content value need to be replaced in response.	Index	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message. %pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.

SLB/HTTPModPolicyRewriteURIs

This table contains information about HTTP modify policy rewrite uris.

XML structure

```
<SLB>
  <HTTPModPolicyRewriteURIs>
    <HTTPModPolicyRewriteURI>
      <PolicyName></PolicyName>
      <LocationURI></LocationURI>
      <CaseSensitive></CaseSensitive>
      <Replace></Replace>
      <Encode></Encode>    </HTTPModPolicyRewriteURI>
  </HTTPModPolicyRewriteURIs>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicyRewriteURIs
Table type	Multi-instance table
Row name	HTTPModPolicyRewriteURI
Restrictions	Only HTTP modify policy rewrite uris can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP request line.	Index	String. Length: 0 to 127 characters.	N/A
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	This column only can be configured when LocationURL is configured. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild

Column name	Column description	Column type	Data type and restrictions	Remarks
				time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: • 0—None. • 1—URL. 2—Base64	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/HTTPModPolicySSLURIs

This table contains information about HTTP modify policy ssl uris.

XML structure

```
<SLB>
  <HTTPModPolicySSLURIs>
    <HTTPModPolicySSLURI>
      <PolicyName></PolicyName>
      <LocationURI></LocationURI>
      <CaseSensitive></CaseSensitive>
      <ClearPort></ClearPort>
      <SSLPort></SSLPort>    </HTTPModPolicySSLURI>
  </HTTPModPolicySSLURIs>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPModPolicySSLURIs
Table type	Multi-instance table
Row name	HTTPModPolicySSLURI
Restrictions	Only HTTP modify policy ssl uris can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the modify policy.	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 1 to 63 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	This column can only be configured when LocationURL is configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	This column can only be configured when LocationURL is configured.

SLB/TCPProxyParameters

This table contains information about TCP parameter profile.

XML structure

```
<SLB>
  <TCPProxyParameters>
    <TCPProxyParameter>
      <Name></Name>
      <Description></Description>
      <WindowSize></WindowSize>
      <TimeWaitTime></TimeWaitTime>
      <IdleTimeout></IdleTimeout>
      <MSS></MSS>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
    </TCPProxyParameter>
  </TCPProxyParameters>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPProxyParameters
Table type	Multi-instance table
Row name	TCPProxyParameter
Restrictions	Only TCP proxy parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
WindowSize	Starting value of the receive window size.	N/A	Unsigned integer. Value range: 8192 to 65535. By default, 65535 is configured.	N/A
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 2 is configured.	N/A
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second. By default, 10 is configured.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 1800 is configured.	N/A
KeepAliveInterval	Interval time of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 10 is configured.	N/A
KeepAliveCount	Number of times of	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	keep-alive retransmission		65535. By default, 3 is configured.	
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A

SLB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```
<SLB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>
      <Description></Description>
      <ServerConnectionReuse></ServerConnectionReuse>
      <HeaderMaxParseLength></HeaderMaxParseLength>
      <ContentMaxParseLength></ContentMaxParseLength>
      <CookieEncryptName></CookieEncryptName>
      <CookieCipherPassword></CookieCipherPassword>
      <CookieSimplePassword></CookieSimplePassword>
      <ExceedLength></ExceedLength>
    </HTTPParameter>
  </HTTPParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPParameters
Table type	Multi-instance table
Row name	HTTPParameter

Restrictions	Only HTTP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535. By default, 4096 is configured.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 4096.	N/A
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: • 0—Keep (default). • 1—Drop.	N/A
CookieEncryptName	Name of the cookie that excepted to be encrypted.	N/A	String.Length: 1 to 63 characters.	CookieEncryptName and CookiePassword are mutually dependent and both of them should be set in a single message.
CookieCipherPassword	Specify an cookie key in encrypted form.	N/A	String. Length: 1 to 73 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or

Column name	Column description	Column type	Data type and restrictions	Remarks
				CookieSimplePassword, but not both.
CookieSimplePassword	Specify an cookie key in plaintext form.	N/A	String. Length: 1 to 31 characters.	This column must be configured together with CookieEncryptName; Configure CookieCipherPassword or CookieSimplePassword, but not both.
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: • 0—Keep (default). • 1—Drop.	N/A

SLB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<SLB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Description></Description>
      <RequestVersion></RequestVersion>
      <Level></Level>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
      <InsertVary></InsertVary>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9 By default, 1 is configured.	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip (default). • 2—Deflate.	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, 1024 is configured.	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB(default). • 16—16KB. • 32—32KB. • 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 32—32KB.	
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
DeleteAccept Encoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A

SLB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```
<SLB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourcePrefix></IPv6SourcePrefix>
    </OneConnectParameter>
  </OneConnectParameters>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	OneConnectParameters
Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
IPv4Source Mask	IPv4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6Source Prefix	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 0.	N/A

SLB/AddressPortPersistences

This table contains information about address-port persistences.

XML structure

```
<SLB>
  <AddressPortPersistences>
    <AddressPortPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <MethodType></MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PriorBusyEnable></PriorBusyEnable>
      <EffectiveScope></EffectiveScope>
    </AddressPortPersistence>
```

```
  </AddressPortPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	AddressPortPersistences
Table type	Multi-instance table
Row name	AddressPortPersistence
Restrictions	Only address-port persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
MethodType	IPv4 sticky method of the address-port sticky group.	N/A	Enumeration: • .1—Source IP persistence (default). • 2—Source IP port stickiness. • 3—Destination IP stickiness. • 4—Destination IP port stickiness. • 5—Source IP and destination IP stickiness. • 6—Source IP port and destination IP port stickiness.	N/A
Ipv4PrefixLength	IPv4 mask for IPv4 sticky	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when Ipv4MethodType is not

Column name	Column description	Column type	Data type and restrictions	Remarks
	method.			none (0).
Ipv6PrefixLength	IPv6 prefix for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when Ipv6MethodType is not none (0).
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
EffectiveScope	Effective scopeof sticky entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. 2—Global	N/A

SLB/RADIUSPersistences

This table contains information about RADIUS persistences.

XML structure

```
<SLB>
  <RADIUSPersistences>
    <RADIUSPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <PriorBusyEnable></PriorBusyEnable>
      <EffectiveScope></EffectiveScope>
    </RADIUSPersistence>
  </RADIUSPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	RADIUSStickyGroups
Table type	Multi-instance table
Row name	RADIUSStickyGroup
Restrictions	Only RADIUS sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
AttributeCode	Code of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is user-name(1).	The codes corresponding to some well-known radius types are as follows: • 1—User-Name • 8—Framed-Ip-Addres s
PriorBusyEna ble	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
EffectiveScop e	Effective scope of sticky entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. 2—Global	N/A

SLB/HTTPCookiePersistences

This table contains information about HTTP cookie persistences.

XML structure

```
<SLB>
  <HTTPCookiePersistences>
    <HTTPCookiePersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <CaseSensitive></CaseSensitive>
      <Offset></Offset>
```

```
      <Length></Length>
      <Start></Start>
      <End></End>
      <CheckAll></CheckAll>
      <PriorBusyEnable></PriorBusyEnable>
      <HTTPOnly></HTTPOnly>
      <Secure></Secure>
      <CookieDomain></CookieDomain>
      <CookiePath></CookiePath>
    </HTTPCookiePersistence>
  </HTTPCookiePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPCookiePersistences
Table type	Multi-instance table
Row name	HTTPCookiePersistence
Restrictions	Only HTTP cookie persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
Type	Sticky method of HTTP cookie sticky group.	N/A	Enumeration: • 1—Cookie insert persistence (default). • 2—Cookie rewrite stickiness • 3—Cookie get stickiness	Only when the type is cookie rewrite (3), configurations of offset, length, start and end can be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
CookieName	Name of the cookie.	N/A	String. Length: 0 to 63 characters.	When Type is rewrite (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," "." ";" ":" "\" """ "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
HTTPOnly	HTTP cookie attribute for HTTP only.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
Secure	HTTP cookie attribute for secure.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column can be configured only when the type is Cookie insert stickiness(1) or Cookie rewrite stickiness(2).
CookieDomain	HTTP cookie attribute for domain.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Cookie insert

Column name	Column description	Column type	Data type and restrictions	Remarks
				stickiness(1).
CookiePath	HTTP cookie attribute for path.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is Cookie insert stickiness(1).
Range	Range of sticky entries	N/A	Enumeration: • 0—Pool(default). • 1—VirtualServerIP. • 2—Global	This column can be configured only when the type is Cookie get stickiness(3).

SLB/HTTPContentPersistences

This table contains information about HTTP content persistences.

XML structure

```
<SLB>
  <HTTPContentPersistences>
    <HTTPContentPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>     <PriorBusyEnable></PriorBusyEnable>
    </HTTPContentPersistence>
  </HTTPContentPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTContentPersistences
Table type	Multi-instance table
Row name	HTTPContentPersistence
Restrictions	Only HTTP content persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default,60s is configured. 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/UDPPayloadPersistences

This table contains information about UDP payload persistences.

XML structure

```
<SLB>
  <UDPPayloadPersistences>
    <UDPPayloadPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
```

```
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </UDPPayloadPersistence>
  </UDPPayloadPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPPayloadPersistences
Table type	Multi-instance table
Row name	UDPPayloadPersistence
Restrictions	Only UDP payload persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default,60s is configured. 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/TCPPayloadPersistences

This table contains information about TCP payload persistences.

XML structure

```
<SLB>
  <TCPPayloadPersistences>
    <TCPPayloadPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </TCPPayloadPersistence>
  </TCPPayloadPersistences>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	TCPPayloadPersistences
Table type	Multi-instance table
Row name	TCPPayloadPersistence
Restrictions	Only TCP payload persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default,60s is configured. 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/HTTPBodyPersistences

This table contains information about HTTP body persistences.

XML structure

```
<SLB>
  <HTTPBodypersistences>
    <HTTPBodypersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Offset></Offset>
```

```
      <Length></Length>
      <Start></Start>
      <End></End>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPBodypersistence>
  </HTTPBodypersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPBodypersistences
Table type	Multi-instance table
Row name	HTTPBodypersistencep
Restrictions	Only HTTP body persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s . 0 indicates the sticky entry will nerver age out.	N/A
Offset	Offset to the first byte of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	HTTP content stickiness.			
End	Ending pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/HTTPHeaderPersistences

This table contains information about HTTP header persistences.

XML structure

```
<SLB>
  <HTTPHeaderPersistences>
    <HTTPHeaderPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CaseSensitive></CaseSensitive>
      <PriorBusyEnable></PriorBusyEnable>
    </HTTPHeaderPersistence>
  </HTTPHeaderPersistences>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPHeaderPersistences
Table type	Multi-instance table
Row name	HTTPHeaderPersistence
Restrictions	Only HTTP header persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of HTTP header sticky group.	N/A	Enumeration: • 1—URL stickiness. • 2—Host stickiness (default) • 3—Method stickiness • 4—Version stickiness • 5—Name stickiness	Only when the type is URL stickiness (1) or host stickiness (2) or name stickiness (5) , configurations of offset, length, start, and end can be configured.
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When Type is method stickiness (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """" "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
Offset	Offset to the first byte of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CaseSensitive	Whether the payload content expression is case	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	insensitive			
End	Ending pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/SSLPersistences

This table contains information about SSL persistences.

XML structure

```
<SLB>
  <SSLPersistences>
    <SSLPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <PriorBusyEnable></PriorBusyEnable>
    </SSLPersistence>
  </SSLPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SSLPersistences
Table type	Multi-instance table
Row name	SSLPersistence
Restrictions	Only SSL persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of SSL sticky group.	N/A	Enumeration: • 1—SSL Session-ID stickiness.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/SIPPersistences

This table contains information about SIP persistences.

XML structure

```
<SLB>
  <SIPPersistences>
    <SIPPersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>     <PriorBusyEnable></PriorBusyEnable>
    </SIPPersistence>
  </SIPPersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	SIPPersistences
Table type	Multi-instance table
Row name	SIPPersistence
Restrictions	Only SIP persistences can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: The value takes 0 or is in the range of 10 to 604800. Unit: second. By default, the value is 60s. 0 indicates the sticky entry will nerver age out.	N/A
Type	Sticky method of SIP sticky group.	N/A	Enumeration: • 1—SIP Call-ID stickiness.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/HTTPPassivePersistences

This table contains information about HTTP passive persistences.

XML structure

```
<SLB>
  <HTTPPassivePersistences>
    <HTTPPassivePersistence
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>     <PriorBusyEnable></PriorBusyEnable>
      <HTTPPassiveCheckAll></HTTPPassiveCheckAll>
    </HTTPPassivePersistence>
  </HTTPPassivePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	HTTPPassivePersistences
Table type	Multi-instance table
Row name	HTTPPassivePersistence
Restrictions	Only HTTP passive persistencescan be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
PriorBusyEnable	Stickiness-over-busyness.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
HTTPPassiveCheckAll	Enable checking for all packets for an HTTP passive sticky group.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/HTTPPassivePersistenceMethods

This table contains information about HTTP passive persistence methods.

XML structure

```
<SLB>
  <HTTPPassivePersistenceMethods>
    <HTTPPassivePersistenceMethod>
      <Name></Name>
      <PktActionType></PktActionType>
      <Name></Name>
      <MethodType></MethodType>
      <HeaderType></HeaderType>
      <HeaderName></HeaderName>
```

```
      <Length></Length>
      <Start></Start>
      <End></End>
      <CaseSensitive></CaseSensitive>
    </HTTPPassivePersistenceMethod>
  </HTTPPassivePersistenceMethods>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPPassiveStickyMethodGroups
Table type	Multi-instance table
Row name	HTTPPassiveStickyMethodGroup
Restrictions	Only HTTP passive sticky group method can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky method group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PktActionType	Action type of.	Index	Enumeration: • 0—Get. • 1—Match.	N/A
MethodName	Name of method.	Index	String, case-insensitive. Length: 1 to 63 characters.	One type of action max support four methods.
MethodType	Sticky method of HTTP passive sticky group.	N/A	Enumeration: • 0—None (default). • 1—Header method. • 2—Content method.	Only when the MethodType is Header method (1), configurations of HeaderType,HeaderName can be configured.
HeaderType	Header type of HTTP passive sticky group.	N/A	Enumeration: • 0—None (default). • 1—URL stickiness. • 2—Name stickiness.	Only when the MethodType is Header method (1), HeaderType and, HeaderName can be configured. When the PktActionType(2),this column can be 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When MethodType is header method, this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" "," ";" ":" "\" """ "/" "[" "]" "?" "=" "{" "}" SP HT are not supported either.
Length	Length of the HTTP header or content value.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is configured, the other cannot be configured.
Start	Beginning pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP passive stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A

SLB/UDPPassivePersistences

This table contains information about UDP passive persistences.

XML structure

```
<SLB>
  <UDPPassivePersistences>
    <UDPPassivePersistence>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <GetOffset></GetOffset>
      <GetLength></GetLength>
      <GetStart></GetStart>
      <GetEnd></GetEnd>
      <MatchOffset></MatchOffset>
      <MatchLength></MatchLength>
      <MatchStart></MatchStart>
      <MatchEnd></MatchEnd>
      <PriorBusyEnable></PriorBusyEnable>
```

```
    </UDPPassivePersistence>
  </UDPPassivePersistences>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	UDPPassivePersistences
Table type	Multi-instance table
Row name	UDPPassivePersistence
Restrictions	Only UDP passive persistencescan be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
GetOffset	Offset to the first byte of the UDP payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
GetLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is configured, the other cannot be configured.
GetStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
GetEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchOffset	Offset to the first byte of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	UDP payload.		Value range: 0 to 1000. By default, 0 is configured.	
MatchLength	Length of the UDP payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is configured, the other cannot be configured.
MatchStart	Beginning pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchEnd	Ending pattern for the UDP payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
PriorBusyEnable	Stickiness-over-busyness.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A

SLB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```
<SLB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
  </VServerArpInterfaces>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be gotten by this table.
Support for row creation and	Yes

deletion	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: • IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

SLB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```
<SLB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</SLB>
```

Table description

Item	Description
Feature name	SLB

Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9 By default, 1 is configured.	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: • 1—Gzip (default). • 2—Deflate.	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to 2^{32}-1. By default, 1024 is configured.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: • 0—Disable. • 1—Enable(default).	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB(default). • 16—16KB.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 32—32KB. • 64—64KB.	
WindowSize	Window size of compression.	N/A	Enumeration: • 1—1KB. • 2—2KB. • 4—4KB. • 8—8KB. • 16—16KB(default). • 32—32KB.	N/A

SLB/HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```
<SLB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>
      <Name></Name>
      <RuleName></RuleName>
      <AfterRuleName></AfterRuleName>
      <MoveTopOrBottom></MoveTopOrBottom>
      <Type></Type>
      <FilterType></FilterType>
      <Expression></Expression>
    </HTTPCompressionParameterRule>
  </HTTPCompressionParameterRules>
</SLB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the match rule.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName and MoveTopOrBottom can not configure together. AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterRuleName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.
Type	Type of the rule.	N/A	Enumeration: • 0—Permit. • 1—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: • 0—URL. • 1—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

SLB/ProtectionPolicies

This table contains information about protection policies.

XML structure

```
<SLB>
  <ProtectionPolicies>
    <ProtectionPolicy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Warning></Warning>
      <Drop></Drop>
```

```
      <Verify></Verify>
      <TotalCnt></TotalCnt>
    </ProtectionPolicy>
  </ProtectionPolicies>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	ProtectionPolicies
Table type	Multi-instance table
Row name	ProtectionPolicy
Restrictions	Only protection policies can be configged by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the protection policy.	N/A	Enumeration: • 0—HTTP	When a protection policy is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the protection policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Warning	Enable warning action of the protection policy.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	N/A
Drop	Enable drop action of the protection policy.	N/A	Enumeration: • 0—Disable(default). • 1—Enable.	This column cannot be configged with Verify together.
Verify	Enable verify action of the protection policy	N/A	• 0—Not configured. • 1—Insert header(default). • 2—Inject JS.	This column cannot be configged with Drop together.

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalCnt	Total number of Protection policy entries.	N/A	Unsigned integer. Value range: 0 to 2^{32}-1.	N/A

SLB/HTTPProtectionPolicyRules

This table contains information about HTTP protection policy rules.

XML structure

```
<SLB>
  <HTTPProtectionPolicyRules>
    <HTTPProtectionPolicyRule>
      <Name></Name>
      <RuleName></RuleName>
      <AfterRuleName></AfterRuleName>
      <MoveTopOrBottom></MoveTopOrBottom>
      <URL></URL>     <CaseSensitive></CaseSensitive>
      <StatTime></StatTime>
      <IPReqThreshold></IPReqThreshold>
      <JsidReqThreshold></JsidReqThreshold>
      <CookieName></CookieName>
    <HTTPProtectionPolicyRule>
  </HTTPProtectionPolicyRules>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	HTTPProtectionPolicyRules
Table type	Multi-instance table
Row name	HTTPProtectionPolicyRule
Restrictions	Only protection policy rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the protection	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		Length: 1 to 63 characters.	
RuleName	Name of the protection policy rule	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AfterRuleName	Name of the limit rule that the row will be inserted after.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AfterRuleName and MoveTopOrBottom can not configure together. AfterRuleName must be an existing rule. By default, indicates the row will be inserted at last.
MoveTopOrBottom	The position that want to move.	N/A	Enumeration: • 0—Move none. • 1—Move top. • 2—Move bottom.	AfterRuleName and MoveTopOrBottom can not configure together. By default, indicates the row will be inserted at last.
URL	Regular expression of the protection URL.	N/A	String. Length: 1 to 255 characters.	N/A
CaseSensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: • 0—Case insensitive (default). • 1—Case sensitive.	N/A
StatTime	Statistical duration	N/A	Unsigned integer. Value range: 1 to 900. By default, the value is 120.	N/A
IPReqThreshold	IP threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
JsidReqThreshold	Jsessionid threshold of triggering protection	N/A	Unsigned integer. Value range:1 to 4294967295.	This column and CookieName must be configured together.
CookieName	Cookie name of the Jsessionid	N/A	String. Length: 0 to 63 characters.	This column and Jsid-ReqThreshold must be configured together.

SLB/IShellFiles

This table contains information about ishell files.

XML structure

```
<SLB>
```

```
  <IShellFiles>
    <IShellFile>
      <FileName></FileName>
      <Content></Content>
    </IShellFile >
  </IShellFiles>
</SLB>
```

Table description

Item	Description
Feature name	SLB
Table name	IShellFiles
Table type	Multi-instance table
Row name	IShellFile
Restrictions	Only ishell file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The Name of the Ishell file.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Content	The Content information of the Ishell file.	N/A	Length: The sum of Header and Body 255 is less than 16384 characters.	The null string indicates the label is not configured.

Contents

TPA 1
TPA/Glb6SendtoCPU 1
XML structure 1
Table description 1
Columns 1
TPA/If6SendtoCPU 2
XML structure 2
Table description 2
Columns 2

TPA

TPA/Glb6SendtoCPU

This table contains global Third-Party Application IPv6 SendToCPU information.

XML structure

```
<TPA>
  <Glb6SendtoCPU>
    <Global6>
      <Protocol></Protocol>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <DstIpv6Address></DstIpv6Address>
    </Global6>
  </Glb6SendtoCPU>
</TPA>
```

Table description

Item	Description
Feature name	TPA
Table name	Glb6SendtoCPU
Table type	Multi-instance table
Row name	Global6
Restrictions	This table supports only global settings.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Protocol number	Index	Unsigned integer. Value range: 1 to 255.	N/A
SrcPort	Source port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to null.
DstPort	Destination port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort

Column name	Column description	Column type	Data type and restrictions	Remarks
				or both. If Protocol is not 6 or 7, set SrcPort to null.
DstIpv6Address	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	If Protocol is 6 (TCP), this column must be null. If Protocol is not 6, specify a multicast IPv6 address for this column or set it to null.

TPA/If6SendtoCPU

This table contains Third-Party Application IPv6 SendToCPU information for interfaces.

XML structure

```
<TPA>
  <If6SendtoCPU>
    <Interface6>
      <IfIndex></IfIndex>
      <Protocol></Protocol>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <DstIpv6Address></DstIpv6Address>
    </Interface6>
  </If6SendtoCPU>
</TPA>
```

Table description

Item	Description
Feature name	TPA
Table name	If6SendtoCPU
Table type	Multi-instance table
Row name	Interface6
Restrictions	Applicable to only Layer 3 interfaces, excluding management Ethernet interfaces and loopback interface.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Protocol	Protocol number	Index	Unsigned integer. Value range: 1 to 255.	N/A
SrcPort	Source port number of protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to null.
DstPort	Destination port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to null.
DstIpv6Address	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	If Protocol is 6 (TCP), this column must be null. If Protocol is not 6, specify a multicast IPv6 address for this column or set it to null.

Contents

TPA/Glb6SendtoCPU 1
XML structure 1
Table description 1
Columns 1
TPA/If6SendtoCPU 2
XML structure 2
Table description 2
Columns 2

TPA/Glb6SendtoCPU

This table contains global Third-Party Application IPv6 SendToCPU information.

XML structure

```
<TPA>
  <Glb6SendtoCPU>
    <Global6>
      <Protocol></Protocol>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <DstIpv6Address></DstIpv6Address>
    </Global6>
  </Glb6SendtoCPU>
</TPA>
```

Table description

Item	Description
Feature name	TPA
Table name	Glb6SendtoCPU
Table type	Multi-instance table
Row name	Global6
Restrictions	This table supports only global settings.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Protocol number	Index	Unsigned integer. Value range: 1 to 255.	N/A
SrcPort	Source port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to invalid value(4294967295).
DstPort	Destination port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to invalid value(4294967295).

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIpv6Address	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	If Protocol is 6 (TCP), this column must be null. If Protocol is not 6, specify a multicast IPv6 address for this column or set it to invalid value(::).

TPA/If6SendtoCPU

This table contains Third-Party Application IPv6 SendToCPU information for interfaces.

XML structure

```
<TPA>
  <If6SendtoCPU>
    <Interface6>
      <IfIndex></IfIndex>
      <Protocol></Protocol>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <DstIpv6Address></DstIpv6Address>
    </Interface6>
  </If6SendtoCPU>
</TPA>
```

Table description

Item	Description
Feature name	TPA
Table name	If6SendtoCPU
Table type	Multi-instance table
Row name	Interface6
Restrictions	Applicable to only Layer 3 interfaces, excluding management Ethernet interfaces and loopback interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Protocol	Protocol number	Index	Unsigned integer. Value range: 1 to 255.	N/A
SrcPort	Source port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to invalid value(4294967295).
DstPort	Destination port number of the protocol	Index	Unsigned integer. Value range: 1 to 65535.	If Protocol is 6 (TCP) or 17 (UDP), specify a valid SrcPort or DstPort or both. If Protocol is not 6 or 7, set SrcPort to invalid value(4294967295).
DstIpv6Address	Destination IPv6 address	Index	Hexadecimal string, colon-separated.	If Protocol is 6 (TCP), this column must be null. If Protocol is not 6, specify a multicast IPv6 address for this column or set it to invalid value(::).

Contents

TPA/Glb6SendtoCPU 2
TPA/If6SendtoCPU 2

TPA/Glb6SendtoCPU

Message	Explanation
You must specify a destination IPv6 address if the destination IPv6 address of the packets is an IPv6 multicast address. 目的地址配置仅支持组播IPv6地址。	You must specify a destination IPv6 address if the destination IPv6 address of the packets is an IPv6 multicast address. 目的地址配置仅支持组播 IPv6 地址。
If the protocol is TCP, you must configure SrcPort or DstPort or both, but cannot configure DstIpv6Address. TCP协议，必须配置端口号，不能配置地址。	If the protocol is TCP (protocol number 6), you must configure SrcPort or DstPort or both, but cannot configure DstIpv6Address. TCP的协议号为6，必须配置源端口或目的端口或源和目的端口都配，不能配置目的地址。
If the protocol is UDP, you must configure SrcPort or DstPort or both, and can optionally configure DstIpv6Address. UDP协议，必须配置端口号，配置地址可选。	UDP (protocol number 17) must configure SrcPort or DstPort or both, and can optionally configure DstIpv6Address. UDP的协议号为17，必须配置源端口或目的端口或源和目的端口都配，配置目的地址可选。
For protocols excluding TCP and UDP, you cannot configure SrcPort or DstPort, but can optionally configure DstIpv6Address. 除TCP和UDP的其它协议，不能配置端口号，配置地址可选。	For protocols excluding TCP (protocol number 6) and UDP (protocol number 17), you cannot configure SrcPort or DstPort, but can optionally configure DstIpv6Address. 除TCP（协议号为6）和UDP（协议号为17）的其它协议，不能配置端口号，配置目的地址可选。

TPA/If6SendtoCPU

Message	Explanation
You must specify a destination IPv6 address if the destination IPv6 address of the packets is an IPv6 multicast address. 目的地址配置仅支持组播IPv6地址。	You must specify a destination IPv6 address if the destination IPv6 address of the packets is an IPv6 multicast address. 目的地址配置仅支持组播 IPv6 地址。
If the protocol is TCP, you must configure SrcPort or DstPort or both, but cannot configure DstIpv6Address. TCP协议，必须配置端口号，不能配置地址。	If the protocol is TCP (protocol number 6), you must configure SrcPort or DstPort or both, but cannot configure DstIpv6Address. TCP的协议号为6，必须配置源端口或目的端口或源和目的端口都配，不能配置目的地址。
If the protocol is UDP, you must configure SrcPort or DstPort or both, and can optionally configure DstIpv6Address. UDP协议，必须配置端口号，配置地址可选。	UDP (protocol number 17) must configure SrcPort or DstPort or both, and can optionally configure DstIpv6Address. UDP的协议号为17，必须配置源端口或目的端口或源和目的端口都配，配置目的地址可选。
For protocols excluding TCP and UDP, you cannot configure SrcPort or DstPort, but can optionally configure DstIpv6Address. 除TCP和UDP的其它协议，不能配置端口号，配置地址可选。	For protocols excluding TCP (protocol number 6) and UDP (protocol number 17), you cannot configure SrcPort or DstPort, but can optionally configure DstIpv6Address. 除TCP（协议号为6）和UDP（协议号为17）的其它协议，不能配置端口号，配置目的地址可选。

Contents

Virtualization 1
Virtualization/DockerStats 1
XML structure 1
Table description 1
Columns 1
Virtualization /KVMVirshDominfos 2
XML structure 2
Table description 2
Columns 3

Virtualization

Virtualization/DockerStats

This table contains Docker stats information.

XML structure

```
<Virtualization>
  <DockerStats>
    <DockerStat>
      <Name></Name>
      <ID></ID>
      <CpuUsage></CpuUsage>
      <MemoryUsage></MemoryUsage>
      <MemoryLimit></MemoryLimit>
    <DockerStat>
  </DockerStats>
</Virtualization>
```

Table description

Item	Description
Feature name	Virtualization
Table name	DockerStats
Table type	Multi-instance table
Row name	DockerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full name of the container	Index	String. Length: 1 to 65535 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	The container ID	N/A	String. Length: 12 characters.	ID example: dd229174b900.
CpuUsage	The container CPU usage(%)	N/A	DOUBLE.	N/A
MemoryUsed	The container Used memory space	N/A	String. Length: 1 to 65535 characters.	N/A
MemoryLimit	The container memory limit	N/A	String. Length: 1 to 65535 characters.	N/A

Virtualization /KVMVirshDominfos

This table contains kvm virsh domain information.

XML structure

```
<Virtualization>
  <KVMVirshDominfos>
    <KVMVirshDominfo>
      <Name></Name>
      <ID></ID>
      <State></State>
      <VCPUNumber></VCPUNumber>
      <VCPUTime></VCPUTime>
      <MemoryLimit></MemoryLimit>
      <UsedMemory></UsedMemory>
    <KVMVirshDominfo>
  </KVMVirshDominfos>
</Virtualization>
```

Table description

Item	Description
Feature name	Virtualization
Table name	KVMVirshDominfos
Table type	Multi-instance table

Row name	KVMVirshDominfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full name of the virtural machine	Index	String Length: 1 to 65535 characters.	N/A
Id	Virtural machine id	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
State	Virtural machine state	N/A	String Value range: 0 to 7.	N/A
VCPUNumber	Virtural machine VCPU number	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VCPUTime	Virtural machine VCPU time	N/A	String Length: 1 to 65535 characters.	N/A
MemoryLimit	Virtural machine memory limit	N/A	String Length: 1 to 65535 characters.	N/A
UsedMemory	Virtural machine used memory	N/A	String Length: 1 to 65535 characters.	N/A

Contents

Vtunnel 1
Vtunnel/TunnelServer 1
XML structure 1
Table description 1
Columns 1
Vtunnel/IPv4Address 2
XML structure 2
Table description 2
Columns 2
Vtunnel/Nat 2
XML structure 3
Table description 3
Columns 3
Vtunnel/ClientMap 3
XML structure 3
Table description 4
Columns 4

Vtunnel

Vtunnel/TunnelServer

This table contains Vtunnel server configuration information.

XML structure

```
<Vtunnel>
  <TunnelServer>
    <Port></Port>
    <SrcAddr></SrcAddr>
  </TunnelServer>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	TunnelServer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	TCP port of Vtunnel	N/A	Unsigned integer. Value range: 1 to 65535.	Example:8000
SrcAddr	The source IPv4address of the Vtunnel	N/A	String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Vtunnel/IPv4Address

This table contains Vtunnel IPv4Address configuration information.

XML structure

```
<Vtunnel>
  <IPv4Address>
    <IPv4Addr></IPv4Addr>
    <IPv4AddrMask></IPv4AddrMask>
  </IPv4Address>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	IPv4Address
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addr	The IPv4address of the vtunnel interface	N/A	String, dotted decimal notation.	IPv4 example: 1.1.1.1.
IPv4AddrMask	The IPv4address Mask	N/A	String, dotted decimal notation.	IPv4 netmask: 255.255.255.0.

Vtunnel/Nat

This table contains Vtunnel Nat configuration information.

XML structure

```
<Vtunnel>
  <Nat>
    <NatEnable></NatEnable>
  </Nat>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	Nat
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NatEnable	Nat enable	N/A	Boolean: • true—Enable. • false—Disable(default).	N/A

Vtunnel/ClientMap

This table contains Vtunnel ClientMap configuration information.

XML structure

```
<Vtunnel>
  <ClientMap>
    <Map>
```

```
      <DstAddr></DstAddr>
      <DstAddrMask></DstAddrMask>
      <ClientAddr></ClientAddr>
    </Map>
  </ClientMap>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	ClientMap
Table type	Multi-instance table
Row name	Map
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAddr	The Destination IPv4address of the tunnel	Index	String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DstAddrMask	The Destination IPv4address mask	Index	String, dotted decimal notation.	IPv4 netmask: 255.255.255.0. The Destination address is the value of DstAddr and DstAddrMask.
ClientAddr	The Destination IPv4address of the tunnel	Index	String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Contents

Vtunnel 1
Vtunnel/TunnelServer 1
XML structure 1
Table description 1
Columns 1
Vtunnel/IPv4Address 2
XML structure 2
Table description 2
Columns 2
Vtunnel/Nat 2
XML structure 3
Table description 3
Columns 3
Vtunnel/ClientMap 3
XML structure 3
Table description 4
Columns 4
Vtunnel/TunnelSessions 4
XML structure 4
Table description 5
Columns 5

Vtunnel

Vtunnel/TunnelServer

This table contains Vtunnel server configuration information.

XML structure

```
<Vtunnel>
  <TunnelServer>
    <Port></Port>
    <SrcAddr></SrcAddr>
  </TunnelServer>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	TunnelServer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	TCP port of Vtunnel	N/A	Unsigned integer. Value range: 1 to 65535.	Example:8000
SrcAddr	The source IPv4address of the Vtunnel	N/A	String, dotted decimal notation.	IPv4 example: 1.1.1.1.

Vtunnel/IPv4Address

This table contains Vtunnel IPv4Address configuration information.

XML structure

```
<Vtunnel>
  <IPv4Address>
    <IPv4Addr></IPv4Addr>
    <IPv4AddrMask></IPv4AddrMask>
  </IPv4Address>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	IPv4Address
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addr	The IPv4address of the Vtunnel interface	N/A	String, dotted decimal notation.	IPv4 example: 1.1.1.1.
IPv4AddrMask	The IPv4address Mask	N/A	String, dotted decimal notation.	IPv4 netmask: 255.255.255.0.

Vtunnel/Nat

This table contains Vtunnel Nat configuration information.

XML structure

```
<Vtunnel>
  <Nat>
    <NatEnable></NatEnable>
  <Nat>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	Nat
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NatEnable	Nat enable	N/A	Boolean: • true—Enable. • false—Disable.	N/A

Vtunnel/ClientMap

This table contains Vtunnel ClientMap configuration information.

XML structure

```
<Vtunnel>
  <ClientMap>
    <Map>
      <DstAddr></DstAddr>
      <DstAddrMask></DstAddrMask>
      <ClientAddr></ClientAddr>
```

```
    </Map>
  </ClientMap>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	ClientMap
Table type	Multi-instance table
Row name	Map
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAddr	The Destination IPv4address of the tunnel	Index	String, dotted decimal notation.	IPv4 example: 1.1.1.1.
DstAddrMask	The Destination IPv4address mask	Index	String, dotted decimal notation.	IPv4 netmask: 255.255.255.0.
ClentAddr	The Destination IPv4address of the tunnel	Index	String, dotted decimal notation.	IPv4 example: 1.1.1.2.

Vtunnel/TunnelSessions

This table contains Vtunnel Sessions information.

XML structure

```
<Vtunnel>
  <TunnelSessions>
    <TunnelSession>
```

```
      <ClientIPAddr></ClientIPAddr>
      <ClientSerial></ClientSerial>
    </TunnelSession>
  </TunnelSessions>
</Vtunnel>
```

Table description

Item	Description
Feature name	Vtunnel
Table name	TunnelSessions
Table type	Multi-instance table
Row name	TunnelSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientIPAddr	The Client IPv4address of the vtunnel	Index	String, dotted decimal notation.	IPv4 example: 1.1.1.1.
ClientSerial	The equipment serial number of the client	N/A	String. Length: 1 to 128 characters	example: NXM59CN013411009EA7600.

Contents

VAMC 1
EnableAllClient 1
XML structure 1
Table description 1
Columns 1
ResetClientFsm 1
XML structure 1
Table description 2
Columns 2
ResetAllClientFsm 2
XML structure 2
Table description 2
Columns 3
ResetClientStats 3
XML structure 3
Table description 3
Columns 3
ResetAllClientStats 3
XML structure 4
Table description 4
Columns 4

VAMC

EnableAllClient

This table is used to enable all VAM clients.

XML structure

```
<ADVPN>
  <EnableAllClient>
    <Enable></Enable>
  </EnableAllClient>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	EnableAllClient
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable all VAM clients	NA	Boolean: • true—Enable • false—Disable	Must not be empty.

ResetClientFsm

This table is used to reset FSMs for VAM clients.

XML structure

```
<ADVPN>
  <ResetClientFsm>
    <Reset>
      <IPVersion></IPVersion>
      <ClientName></ClientName>
    </Reset>
  </ResetClientFsm>
```

```
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetClientFsm
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The type of the VAM client	Index	Enumeration: • 4—IPv4 • 6—IPv6	N/A
ClientName	The name of the VAM client	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

ResetAllClientFsm

```
This table is used to reset all VAM clients.
```

XML structure

```
<ADVPN>
  <ResetAllClientFsm>
    <Reset>
      <IPVersion></IPVersion>
    </Reset>
  </ResetAllClientFsm>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetAllClientFsm
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The version of the IP protocol	Index	Enumeration: • 4—IPv4 • 6—IPv6	Must not be empty.

ResetClientStats

This table is used to to clear statistics of a VAM client.

XML structure

```
<ADVPN>
  <ResetClientStats>
    <Reset>
      <ClientName></ClientName>
    </Reset>
  </ResetClientStats>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetClientStats
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The name of the VAM client	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

ResetAllClientStats

This table is used to clear all client statistics.

XML structure

```
<ADVPN>
  <ResetAllClientStats>
    <Reset></Reset>
  </ResetAllClientStats>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetAllClientStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Clear all client statistics	NA	Must be empty.

Contents

VAMC 1
VamcClients 1
XML structure 1
Table description 1
Columns 2
VamcServerCfg 3
XML structure 3
Table description 3
Columns 4

VAMC

VamcClients

This table is used to configure VAM clients.

XML structure

```
<ADVPN>
  <VamcClients>
    <VamcClient>
      <ClientName></ClientName>
      <AdvpnDomain></AdvpnDomain>
      <Enable></Enable>
      <DumbTime></DumbTime>
      <PreSharedKey>
        <Type></Type>
        <Value></Value>
      </PreSharedKey>
      <Retry>
        <Interval></Interval>
        <Count></Count>
      </Retry>
      <Authentication>
        <UserName></UserName>
        <PasswordType></PasswordType>
        <Password></Password>
      </Authentication>
    </VamcClient>
  </VamcClients>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	VamcClients
Table type	Multi-instance table
Row name	VamcClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
AdvpnDomain	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
Enable	Whether the VAM client is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
DumbTime	The dumb time interval	N/A	Unsigned integer Value range: 10 to 600 The default value is 120	N/A
PreSharedKey	The pre-shared key	Data structure	Members include: • Type • Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: • 1—simple • 2—cipher	N/A
Value	The pre-shared key	N/A	String	The plaintext key is a case-sensitive string of 1 to 31 characters. The ciphertext key is a case-sensitive string of 1 to 73 characters.
Retry	The parameters for resending request packet	Data structure	Members include: • Interval • Count	N/A
Interval	The time interval of resending packets	N/A	Unsigned integer Value range: 3 to 30 The default is 5 seconds	N/A
Count	The number of resent packets	N/A	Unsigned integer Value range: 1 to 6 The default is 3	N/A
Authentication	The parameters for authentication	Data structure	Members include: • Username • PasswordType • Password	N/A
Username	The user name	N/A	String Length: 1 to 253	Cannot contains slashes (/), back slashes (\), colons (:), asterisks (*), question marks (?), left angle brackets (<), right angle brackets (>), quotation marks ("),

Column name	Column description	Column type	Data type and restrictions	Remarks
				vertical bars (|), and at signs (@).
PasswordType	The type of the password	N/A	Enumeration: • 1—simple • 2—cipher	N/A
Password	The value of the password	N/A	String	The plaintext password is a case-sensitive string of 1 to 63 characters. The ciphertext password is a case-sensitive string of 1 to 117 characters.

VamcServerCfg

This table is used to configure the VAM servers with which VAM clients register.

XML structure

```
<ADVPN>
  <VamcServerCfg>
    <VamcServer>
      <ClientName></ClientName>
      <PriServer>
        <AddressType></AddressType>
        <Address></Address>
        <Port></Port>
      </PriServer>
      <SecServer>
        <AddressType></AddressType>
        <Address></Address>
        <Port></Port>
      </SecServer>
    </VamcServer>
  </VamcServerCfg>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	VamcServerCfg
Table type	Multi-instance table
Row name	VamcServer

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The client name	Index	String. Length: 1 to 63 characters.	Case-insensitive and contains only letters, digits, and dots (.).
PriServer	The primary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the primary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the primary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A
SecServer	The secondary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the secondary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

Contents

VAMC 1
VamcClients 1
XML structure 1
Table description 1
Columns 1
VamcServerCfg 2
XML structure 3
Table description 3
Columns 3
ClientFsms 4
XML structure 5
Table description 5
Columns 5
IPv4ShortcutStats 7
XML structure 8
Table description 8
Columns 8
IPv6ShortcutStats 9
XML structure 9
Table description 9
Columns 9
IPv4ShortcutRules 10
XML structure 10
Table description 10
Columns 11
IPv6ShortcutRules 12
XML structure 12
Table description 13
Columns 13
ClientStats 15
XML structure 15
Table description 16
Columns 16

VAMC

VamcClients

This table displays VAM clients configuration.

XML structure

```
<ADVPN>
  <VamcClients>
    <VamcClient>
      <ClientName></ClientName>
      <AdvpnDomain></AdvpnDomain>
      <Enable></Enable>
      <DumbTime></DumbTime>
      <Retry>
        <Interval></Interval>
        <Count></Count>
      </Retry>
      <Authentication>
        <UserName></UserName>
      </Authentication>
    </VamcClient>
  </VamcClients>
</ADVPN>
```

Table description

Item	Description
Feature name	VAMC
Table name	VamcClients
Table type	Multi-instance table
Row name	VamcClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client	Index	String	Case-insensitive and

	name		Length: 1 to 63 characters	contains only letters, digits, and dots (.).
AdvpnDomain	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
Enable	Whether the VAM client is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
DumbTime	The dumb time interval	N/A	Unsigned integer Value range: 10 to 600 The default value is 120	N/A
Retry	The parameters for resending request packet	Data structure	Members include: • Interval • Count	N/A
Interval	The time interval of resending packets	N/A	Unsigned integer Value range: 3 to 30 The default is 5 seconds	N/A
Count	The number of resent packets	N/A	Unsigned integer Value range: 1 to 6 The default is 3	N/A
Authentication	The parameters for authentication	Data structure	Members include: • Username	N/A
Username	The user name	N/A	String Length: 1 to 253	Cannot contains slashes (/), back slashes (\), colons (:), asterisks (*), question marks (?), left angle brackets (<), right angle brackets (>), quotation marks ("), vertical bars (|), and at signs (@).

VamcServerCfg

This table displays the VAM servers with which VAM clients register.

XML structure

```
<ADVPN>
  <VamcServerCfg>
    <VamcServer>
    <ClientName></ClientName>
      <PriServer>
        <AddressType></AddressType>
        <Address></Address>
        <Port></Port>
      </PriServer>
      <SecServer>
        <AddressType></AddressType>
        <Address></Address>
        <Port></Port>
      </SecServer>
    </VamcServer>
  </VamcServerCfg>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	VamcServerCfg
Table type	Multi-instance table
Row name	VamcServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The client name	Index	String. Length: 1 to 63 characters.	Case-insensitive and contains only letters, digits, and dots (.).
PriServer	The primary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the	N/A	Enumeration:	Must not be empty.

Column name	Column description	Column type	Data type and restrictions	Remarks
	primary server address		• 1—IPv4 • 2—IPv6 • 3—Host	
Address	The host name or IP address of the primary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A
SecServer	The secondary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the secondary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

ClientFsms

This table display FSM information for VAM clients.

XML structure

```
<ADVPN>
  <ClientFsms>
    <Fsm>
      <ClientName></ClientName>
      <ServerType></ServerType>
      <IPVersion></IPVersion>
      <EnableStatus></EnableStatus>
      <DomainName></DomainName>
      <ServerHost></ServerHost>
      <ServerAddress></ServerAddress>
      <PrivateAddress></PrivateAddress>
      <TunnelID></TunnelID>
      <FsmState></FsmState>
      <FsmActive></FsmActive>
      <ClientType></ClientType>
      <HoldingTime></HoldingTime>
      <EncryptionAlg></EncryptionAlg>
      <AuthenticationAlg></AuthenticationAlg>
      <KeepaliveInterval></KeepaliveInterval>
      <KeepaliveCount></KeepaliveCount>
      <HubsNum></HubsNum>
    </Fsm>
  </ClientFsms>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	ClientFsms
Table type	Multi-instance table
Row name	Fsm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerType	The type of the server	Index	Enumeration: • **0**—Primary server • **1**—Secondary server	N/A
IPVersion	The type of the private address under the ADVPN tunnel	Index	Enumeration: • **0**—IPv4 • **1**—IPv6	N/A
EnableStatus	Whether the VAM client is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerHost	The host name of VAM server	N/A	String Length: 1 to 253 characters	Hostname can contains letters, digits, hyphens (-), and underscores (_).
ServerAddress	The VAM server host	N/A	String.	IPv4 address IPv6 address
PrivateAddress	Private address that the VAM client has registered with the VAM server.	N/A	String.	IPv4 address IPv6 address
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
FsmState	Current state of the VAM client FSM	N/A	Enumeration: • **0**—Offline • **1**—Init1 • **2**—Init2 • **3**—Reg • 4—Online1 • 5—Online2 • 6—Dumb	N/A
ClientType	VAM client type	N/A	Enumeration: • 0—Unknown • **1**—Spoke • **2**—Hub	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HoldingTime	Duration that the VAM client has been in the current state	N/A	Unsigned integer	Unit: seconds
EncryptionAlg	Negotiated encryption algorithm	N/A	Enumeration: • 0—Unknown • **1**—None • **2**—DES • **3**—3DES • 4—AES-CBC-128 • 5—AES-CBC-192 • 6—AES-CBC-256 • 7—AES-CTR-128 • 8—AES-CTR-192 • 9—AES-CTR-256	N/A
AuthenticationAlg	Negotiated authentication algorithm	N/A	Enumeration: • 0—Unknown • **1**—None • **2**—HMAC-MD5-96 • **3**—HMAC-MD5 • 4—HMAC-SHA1-96 • 5—HMAC-SHA1 • 6—HMAC-SHA2-256 • 7—HMAC-AES-XCBC-MAC	N/A
KeepaliveInterval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535	Unit: second
KeepaliveCount	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6	N/A
HubsNum	Number of hubs on the VAM server	N/A	Unsigned integer	N/A

IPv4ShortcutStats

This table displays IPv4 spoke-to-spoke tunnel establishment rule statistics for VAM clients.

XML structure

```
<ADVPN>
  <IPv4ShortcutStats>
    <IPv4Shortcut>
      <ClientName></ClientName>
      <DomainName></DomainName>
      <ClientType></ClientType>
      <RuleNumber></RuleNumber>
    </IPv4Shortcut>
  </IPv4ShortcutStats>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	IPv4ShortcutStats
Table type	Multi-instance table
Row name	IPv4Shortcut
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ClientType	VAM client type	N/A	Enumeration: • **0**—Unknown • **1**—Spoke • **2**—Hub	N/A
RuleNumber	The number of IPv4 ACL rule received by the VAM client	N/A	Unsigned integer	N/A

IPv6ShortcutStats

This table displays IPv6 spoke-to-spoke tunnel establishment rule statistics for VAM clients.

XML structure

```
<ADVPN>
  <IPv6ShortcutStats>
    <IPv6Shortcut>
      <ClientName></ClientName>
      <DomainName></DomainName>
      <ClientType></ClientType>
      <RuleNumber></RuleNumber>
    </IPv6Shortcut>
  </IPv6ShortcutStats>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	IPv6ShortcutStats
Table type	Multi-instance table
Row name	IPv6Shortcut
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ClientType	VAM client type	N/A	Enumeration: • **0**—Unknown • **1**—Spoke • **2**—Hub	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	IPv6 ACL rule number received by the VAM client	N/A	Unsigned integer	N/A

IPv4ShortcutRules

This table displays spoke-to-spoke tunnel establishment rules for VAM clients.

XML structure

```
<ADVPN>
  <IPv4ShortcutRules>
    <Rule>
      <ClientName></ClientName>
      <RuleNumber></RuleNumber>
      <Operation></Operation>
      <Protocol></Protocol>
      <Source>
        <StartAddr></StartAddr>
        <EndAddr></EndAddr>
        <StartPort></StartPort>
        <EndPort></EndPort>
      </Source>
      <Destination>
        <StartAddr></StartAddr>
        <EndAddr></EndAddr>
        <StartPort></StartPort>
        <EndPort></EndPort>
      </Destination>
    </Rule>
  </IPv4ShortcutRules>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	IPv4ShortcutRules
Table type	Multi-instance table
Row name	Rule

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
RuleNumber	ACL rule number	Index	Unsigned integer	N/A
Operation	The operation of a rule	N/A	Enumeration: • **1**—Permit. • **2**—Deny • **3**—Discard	N/A
Protocol	Matching IP protocol number	N/A	Unsigned integer	Protocols common to RFC 1700, POSIX, and X/Open
Source	Matching source IP address range and port number range.	Data structure	Members include: • StartAddr • EndAddr • StartPort • EndPort	N/A
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv4 address.
EndAddr	Matching end address of the source IPv6 address range	N/A	String.	IPv4 address.
StartPort	Matching start port number of the source port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the source port number range	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Matching destination IP address range and port number range	Data structure	Members include: • StartAddr • EndAddr • StartPort • EndPort	N/A
StartAddr	Matching start address of the destination IPv6 address range	N/A	String.	IPv4 address
EndAddr	Matching end address of the destination IPv6 address range	N/A	String.	IPv4 address.
StartPort	Matching start port number of the destination port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the destination port number range	N/A	Unsigned integer	N/A

IPv6ShortcutRules

This table displays spoke-to-spoke tunnel establishment rules for VAM clients.

XML structure

```
<ADVPN>
  <IPv6ShortcutRules>
    <Rule>
      <ClientName></ClientName>
      <RuleNumber></RuleNumber>
      <Operation></Operation>
      <Protocol></Protocol>
      <Source>
```

```
      <StartAddr></StartAddr>
      <EndAddr></EndAddr>
      <StartPort></StartPort>
      <EndPort></EndPort>
    </Source>
    <Destination>
      <StartAddr></StartAddr>
      <EndAddr></EndAddr>
      <StartPort></StartPort>
      <EndPort></EndPort>
    </Destination>
  </Rule>
 </IPv6ShortcutRules>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	IPv6ShortcutRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
RuleNumber	ACL rule number	Index	Unsigned integer	N/A
Operation	The operation of a rule	N/A	Enumeration: • **1**—Permit. • **2**—Deny • **3**—Discard	N/A
Protocol	Matching IP protocol number	N/A	Unsigned integer	Protocols common to RFC 1700, POSIX, and X/Open

Column name	Column description	Column type	Data type and restrictions	Remarks
Source	Matching source IP address range and port number range.	Data structure	Members include: • StartAddr • EndAddr • StartPort • EndPort	N/A
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv6 address.
EndAddr	Matching end address of the source IPv6 address range	N/A	String.	IPv6 address.
StartPort	Matching start port number of the source port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the source port number range	N/A	Unsigned integer	N/A
Destination	Matching destination IP address range and port number range	Data structure	Members include: • StartAddr • EndAddr • StartPort • EndPort	N/A
StartAddr	Matching start address of the destination IPv6 address range	N/A	String.	IPv6 address.
EndAddr	Matching end address of the destination IPv6 address range	N/A	String.	IPv6 address.
StartPort	Matching start port number of	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the destination port number range			
EndPort	Matching end port number of the destination port number range	N/A	Unsigned integer	N/A

ClientStats

This table displays VAM client statistics.

XML structure

```
<ADVPN>
  <ClientStats>
    <ClientStat>
      <ClientName></ClientName>
      <ServerType></ServerType>
      <ServerAddress></ServerAddress>
      <EnableStatus></EnableStatus>
      <PacketSent>
        <InitReqNum></InitReqNum>
        <SentInitFinNum></SentInitFinNum>
        <RegReqNum></RegReqNum>
        <AuthenResNum></AuthenResNum>
        <AddrReqNum></AddrReqNum>
        <NetworkRegReqNum></NetworkRegReqNum>
        <UpdateReqNum></UpdateReqNum>
        <LogoutReqNum></LogoutReqNum>
        <HubInfoResNum></HubInfoResNum>
        <DataFlowInfoResNum></DataFlowInfoResNum>
        <SentKeepaliveNum></SentKeepaliveNum>
        <SentErrorNum></SentErrorNum>
      </PacketSent>
      <PacketReceived>
        <InitResNum></InitResNum>
        <RecvInitFinNum></RecvInitFinNum>
        <AuthenReqNum></AuthenReqNum>
        <RegResNum></RegResNum>
        <AddrResNum></AddrResNum>
        <NetworkRegResNum></NetworkRegResNum>
        <UpdateResNum></UpdateResNum>
        <HubInfoReqNum></HubInfoReqNum>
```

```
      <DataFlowInfoReqNum></DataFlowInfoReqNum>
      <LogoutResNum></LogoutResNum>
      <RecvKeepaliveNum></RecvKeepaliveNum>
      <RecvErrorNum></RecvErrorNum>
      <RecvUnkonwnNum></RecvUnkonwnNum>
    </PacketReceived>
  </ClientStat>
 </ClientStats>
</ADVPN>
```

Table description

Item	Description
Feature name	VMAC
Table name	ClientStats
Table type	Multi-instance table
Row name	ClientStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerType	The type of the server	Index	Enumeration: • **0**—Primary server • **1**—Secondary server	N/A
ServerAddress	The host name of the VAM server	N/A	String Length: 1 to 253 characters	Hostname can contains letters, digits, hyphens (-), and underscores (_).
EnableStatus	Whether the VAM client is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
PacketSent	The number of packets sent to the VAM server	Data structure	Members include: • InitReqNum • SentInitFinNum	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• RegReqNum • AuthenResNum • AddrReqNum • NetworkRegReqNum • UpdateReqNum • LogoutReqNum • HubInfoResNum • DataFlowInfoResNum • SentKeepaliveNum • SentErrorNum	
InitReqNum	The number of Initialization request	N/A	Unsigned integer	N/A
SentInitFinNum	The number of Initialization complete	N/A	Unsigned integer	N/A
RegReqNum	The number of Register request	N/A	Unsigned integer	N/A
AuthenResNum	The number of Authentication information	N/A	Unsigned integer	N/A
AddrReqNum	The number of Address resolution request	N/A	Unsigned integer	N/A
NetworkRegReqNum	The number of Network registration request	N/A	Unsigned integer	N/A
UpdateReqNum	The number of Update request	N/A	Unsigned integer	N/A
LogoutReqNum	The number of Logout request	N/A	Unsigned integer	N/A
HubInfoResNum	The number of Hub information response	N/A	Unsigned integer	N/A
DataFlowInfoResNum	The number of Data flow information	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	response			
SentKeepaliveNum	The number of Keepalive	N/A	Unsigned integer	N/A
SentErrorNum	The number of Error notification	N/A	Unsigned integer	N/A
PacketReceived	The number of packets received from VAM server	Data structure	Members include: • InitResNum • RecvInitFinNum • AuthenReqNum • RegResNum • AddrResNum • NetworkRegResNum • UpdateResNum • HubInfoReqNum • DataFlowInfoReqNum • LogoutResNum • RecvKeepaliveNum • RecvErrorNum • RecvUnkonwnNum	N/A
InitResNum	The number of Initialization response	N/A	Unsigned integer	N/A
RecvInitFinNum	The number of Initialization complete	N/A	Unsigned integer	N/A
AuthenReqNum	The number of Register response	N/A	Unsigned integer	N/A
RegResNum	The number of Authentication request	N/A	Unsigned integer	N/A
AddrResNum	The number of Address resolution response	N/A	Unsigned integer	N/A
NetworkRegResNum	The number of Network registration response	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UpdateResNum	The number of Update response	N/A	Unsigned integer	N/A
HubInfoReqNum	The number of Logout response	N/A	Unsigned integer	N/A
DataFlowInfoReqNum	The number of Hub information request	N/A	Unsigned integer	N/A
LogoutResNum	The number of Data flow information request	N/A	Unsigned integer	N/A
RecvKeepaliveNum	The number of Keepalive	N/A	Unsigned integer	N/A
RecvErrorNum	The number of Error notification	N/A	Unsigned integer	N/A
RecvUnkonwnNum	The number of Unkonwn	N/A	Unsigned integer	N/A

Contents

VAMS 1
EnableAllDomains 1
XML structure 1
Table description 1
Columns 1
ResetAllAddressMapInfo 1
XML structure 1
Table description 2
Columns 2
ResetAddressMapInfo 2
XML structure 2
Table description 2
Columns 3
ResetAllDomainsStats 3
XML structure 3
Table description 3
Columns 3
ResetDomainStats 4
XML structure 4
Table description 4
Columns 4

VAMS

EnableAllDomains

This table is used to enable the VAM server for all ADVPN domains.

XML structure

```
<VAMS>
  <EnableAllDomains>
    <Enable></Enable>
  </EnableAllDomains>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	EnableAllDomains
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the VAM server for all ADVPN domains	N/A	Boolean: • true—Enable • false—Disable	Must not be empty.

ResetAllAddressMapInfo

This table is used to clear all private-public address mapping information registered by VAM clients on the VAM server, by specifying the IP version of private addresses.

XML structure

```
<VAMS>
  <ResetAllAddressMapInfo>
    <Reset>
      <IPVersion></IPVersion>
    </Reset>
```

```
  </ResetAllAddressMapInfo>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAllAddressMapInfo
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The IP version of private addresses	N/A	Enumeration: • 4—IPv4 • 6—IPv6	Must not be empty.

ResetAddressMapInfo

This table is used to clear IPv4 private-public address mapping information registered by VAM clients on the VAM server.

XML structure

```
<VAMS>
  <ResetAddressMapInfo>
    <Reset>
      <IPVersion></IPVersion>
      <AdvpnDomainName></AdvpnDomainName>
      <PrivateAddress></PrivateAddress>
    </Reset>
  </ResetAddressMapInfo>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAddressMapInfo
Table type	Multi-instance table
Row name	Reset

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The IP version of private addresses	Index	Enumeration: • 4—IPv4 • 6—IPv6	Must not be empty.
AdvpnDomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	Private address	N/A	String	If this column is not specified, all map information of the specified ADVPN domain will be deleted.

ResetAllDomainsStats

This table is used to clear statistics about all ADVPN domains on the VAM server.

XML structure

```
<VAMS>
  <ResetAllDomainsStats>
    <Reset></Reset>
  </ResetAllDomainsStats>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAllDomainsStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	CLear all domain statistics on the	N/A	Must be empty

Column name	Column description	Column type	Data type and restrictions
	VAM server		

ResetDomainStats

This table is used to clear statistics about the specified ADVPN domain on the VAM server.

XML structure

```
<VAMS>
  <ResetDomainStats>
    <Reset>
      <AdvpnDomainName></AdvpnDomainName>
    </Reset>
  </ResetDomainStats>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetDomainStats
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvpnDomainName	The ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).

Contents

VAMS 1
ServerGlobalCfg 1
XML structure 1
Table description 1
Columns 1
AdvpnDomains 1
XML structure 1
Table description 2
Columns 2
HubGroups 4
XML structure 4
Table description 5
Columns 5
IPv4Hubs 6
XML structure 6
Table description 7
Columns 7
IPv6Hubs 8
XML structure 9
Table description 9
Columns 9
IPv4Spokes 11
XML structure 11
Table description 11
Columns 12
IPv6Spokes 12
XML structure 12
Table description 12
Columns 13

VAMS

ServerGlobalCfg

This table is used to configure the global configuration of VAM server.

XML structure

```
<VAMS>
  <ServerGlobalCfg>
    <ListenPort></ListenPort>
  </ServerGlobalCfg>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ServerGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ListenPort	The UDP port number for receiving VAM packets	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000

AdvpnDomains

This table is used to configure ADVPN domains on the VAM server.

XML structure

```
<VAMS>
  <AdvpnDomains>
    <AdvpnDomain>
      <DomainName></DomainName>
```

```
      <DomainID></DomainID>
      <AuthenAlgList>
        <AuthenAlgItem></AuthenAlgItem>
      </AuthenAlgList>
      <AuthenMethod>
        <Method></Method>
        <ISPName></ISPName>
      </AuthenMethod>
      <EncryptAlgList>
        <EncryptAlgItem></EncryptAlgItem>
      </EncryptAlgList>
      <Keepalive>
        <Interval></Interval>
        <RetryTime></RetryTime>
      </Keepalive>
      <RetryInterval></RetryInterval>
      <PreSharedKey>
        <Type></Type>
        <Value></Value>
      </PreSharedKey>
      <Enable></Enable>
    </AdvpnDomain>
  </AdvpnDomains>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	AdvpnDomains
Table type	Multi-instance table
Row name	AdvpnDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenAlgList	The algorithms for VAM protocol packet authentication	Data structure	Members include: • AuthenAlgItem	AuthenAlgItem: the maxOccurs is 5.
AuthenAlgItem	The algorithm for VAM protocol packet authentication	N/A	Enumeration: • 1—NONE • 3—MD5 • 5—SHA-1 • 6—SHA-256 • 7—AES-XCBC-MAC	N/A
AuthenMethod	Authentication mode that the VAM server uses to authenticate clients	N/A	Members include: • Method • ISPName	N/A
Method	Authentication method	N/A	Enumeration: • 1—None • 2—PAP • 3—CHAP	The default value is 3. If the value is 1, the ISPName will be ignored.
ISPName	ISP domain for authentication	N/A	String Length: 1 to 255 characters The default is empty	Case-insensitive and can't contain \, |, /, :, *, ?, ", <, > and @.
EncryptAlgList	The algorithms for VAM protocol packet encryption	Data structure	Members include: • EncryptAlgItem	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: • 1—NONE • 2—DES-CBC • 3—3DES-CBC • 4—AES-CBC-128 • 5—AES-CBC-192 • 6—AES-CBC-256 • 7—AES-CTR-128 • 8—AES-CTR-192 • 9—AES-CTR-256	N/A
Keepalive	The parameters of keep-alive packet	Data structure	Members include: • Interval • Retry	N/A
Interval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535 The default value is 180	Unit: second.
RetryTime	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6 The default value is 3	N/A
RetryInterval	The time interval for the server	N/A	Unsigned integer Value range: 3 to 30	Unit: second.

Column name	Column description	Column type	Data type and restrictions	Remarks
	resending request packet		The default value is 5	
PreSharedKey	The pre-shared key	Data structure	Members include: • Type • Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: • 1—simple • 2—cipher	If the Value is empty, the Type will be ignored.
Value	The pre-shared key	N/A	String The default value is empty	The plaintext key is a case-sensitive string of 1 to 31 characters. The ciphertext key is a case-sensitive string of 1 to 73 characters.
Enable	Whether the ADVPN domain is enabled.	N/A	Boolean: • true—Enable • false—Disable	The default value is false.

HubGroups

This table is used to configure hub groups on the VAM server.

XML structure

```
<VAMS>
  <HubGroups>
    <HubGroup>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <DomainID></DomainID>
      <IPv4Shortcut>
        <AclMode></AclMode>
        <AclNum></AclNum>
        <AclName></AclName>
      </IPv4Shortcut>
      <IPv6Shortcut>
        <AclMode></AclMode>
        <AclNum></AclNum>
        <AclName></AclName>
      </IPv6Shortcut>
    </HubGroup>
  </HubGroups>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	HubGroups
Table type	Multi-instance table
Row name	HubGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
IPv4Shortcut	ACL to control establishing IPv4 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—ByNumber • 2—ByName • 3—All	The default value is 0, which means not specifing the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv4 basic ACLs. 3000 to 3999 for IPv4 advanced ACLs.
AclName	ACL Name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be “all”.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Shortcut	ACL to control establishing IPv6 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—Number • 2—Name • 3—All	The default value is 0, which means not specifing the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv6 basic ACLs. 3000 to 3999 for IPv6 advanced ACLs.
AclName	ACL Name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be “all”.

IPv4Hubs

This table is used to configure the private IPv4 address of hubs on the VAM server.

XML structure

```
<VAMS>
  <IPv4Hubs>
    <IPv4Hub>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <PrivateAddress></PrivateAddress>
      <DomainID></DomainID>
      <PublicAddress>
        <IPVersion></IPVersion>
        <IPAddress></IPAddress>
      </PublicAddress>
      <AdvpnPort></AdvpnPort>
      <LinkProtocol></LinkProtocol>
      <RegPublicAddress>
        <RegIPVersion></RegIPVersion>
        <RegIPAddress></RegIPAddress>
      </RegPublicAddress>
```

```
    <RegAdvpnPort></RegAdvpnPort>
   </IPv4Hub>
  </IPv4Hubs>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Hubs
Table type	Multi-instance table
Row name	IPv4Hub
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	The private IPv4 address of the hub	Index	IPv4 address	Must be an unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
PublicAddress	The public address of the hub	Data structure	Members include: • IPVersion • IPAddress	Use IPVersion to specify the IP version of the public address: IPv4, IPv6. Use IPAddress to store the public address. If you are not specify the public address, you can not specify the “PublicAddress” tag , the sub-tag “IPVersion” and “IPAddress”.
IPVersion	IP version of the public address	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If IPVersion is 4, the IPAddress is an IPv4 address If IPVersion is 6, the IPAddress is an IPv6

				address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If you are not specify the ADVPN port number, you can not specify the “AdvpnPort” tag.
LinkProtocol	Link protocol of the hub	N/A	Enumeration: • 1—GRE • 2—UDP • 3—GRE with IPsec protection • 4—UDP with IPsec protection	As a best practice, specify the link protocol of the hub.
RegPublicAddress	Public address of the hub before NAT	Data structure	Members include: • RegIPVersion • RegIPAddress	Use RegIPVersion to specify the IP version (Ipv4 or Ipv6) of the public address before NAT. Use RegIPAddress to specify the public address before NAT. If the public address before NAT is not needed, do not specify RegPublicAddress, RegIPVersion, or RegIPAddress.
RegIPVersion	IP version of the public address before NAT	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If RegIPVersion is 4, the RegIPAddress is an IPv4 address If RegIPVersion is 6, the RegIPAddress is an IPv6 address.
RegIPAddress	Public IP address before NAT	N/A	IPv4:String,dotted decimal notation. IPv6: Hexadecimal string,colon-separated. The default is empty.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
RegAdvpnPort	ADVPN port number of the hub before NAT	N/A	Unsigned integer Value range: 1025 to 65535	If the ADVPN port number before NAT is not needed, do not specify RegAdvpnPort.

IPv6Hubs

This table is used to configure the private IPv6 address of hubs on the VAM server.

XML structure

```
<VAMS>
  <IPv6Hubs>
    <IPv6Hub>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <PrivateAddress></PrivateAddress>
      <DomainID></DomainID>
      <PublicAddress>
        <IPVersion></IPVersion>
        <IPAddress></IPAddress>
      </PublicAddress>
      <AdvpnPort></AdvpnPort>
      <LinkProtocol></LinkProtocol>
      <RegPublicAddress>
        <RegIPVersion></RegIPVersion>
        <RegIPAddress></RegIPAddress>
      </RegPublicAddress>
      <RegAdvpnPort></RegAdvpnPort>
      <LinkLocalAddress></LinkLocalAddress>
    </IPv6Hub>
  </IPv6Hubs>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Hubs
Table type	Multi-instance table
Row name	IPv6Hub
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
PrivateAddress	The private IPv6 address of the hub	Index	IPv6 address	Must be a global unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public address of the hub	Data structure	Members include: • IPVersion • IPAddress	Use IPVersion to specify the IP version of the public address: IPv4, IPv6. Use IPAddress to store the public address. If users are not specify the public address, you can not specify the “PublicAddress” tag , the sub-tag “IPVersion” and “IPAddress”.
IPVersion	IP version of public address	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If IPVersion is 4, the IPAddress is an IPv4 address If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If you are not specify the ADVPN port number, you can not specify the “AdvpnPort” tag.
LinkProtocol	Link protocol of the hub	N/A	Enumeration: • 1—GRE • 2—UDP • 3—GRE with IPsec protection • 4—UDP with IPsec protection	As a best practice, specify the the link protocol of the hub
RegPublicAddress	Public address of the hub before NAT	Data structure	Members include: • RegIPVersion • RegIPAddress	Use RegIPVersion to specify the IP version (Ipv4 or Ipv6) of the public address before NAT. Use RegIPAddress to specify the public address before NAT. If the public address before NAT is not needed,do not specify RegPublicAddress,RegIPVersion, or RegIPAddress.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegIPVersion	IP version of the public address before NAT	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If RegIPVersion is 4, the RegIPAddress is an IPv4 address If RegIPVersion is 6, the RegIPAddress is an IPv6 address.
RegIPAddress	Public IP address before NAT	N/A	IPv4:String,dotted decimal notation. IPv6:Hexadecimal string,colon-separated. The default is empty.	IPv4 example: 1.1.1.1. IPv6 Address: 1:2:3:4:5:6:7:8
RegAdvpnPort	ADVPN port number of the hub before NAT	N/A	Unsigned integer Value range: 1025 to 65535	If the ADVPN port number before NAT is not needed,not specify RegAdvpnPort.
LinkLocalAddress	IPv6 link local address of the hub	N/A	String. The default is empty.	IPv6 Address

IPv4Spokes

This table is used to configure the private IPv4 address range of spokes on the VAM server.

XML structure

```
<VAMS>
  <IPv4Spokes>
    <IPv4Spoke>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <DomainID></DomainID>
    </IPv4Spoke>
  </IPv4Spokes>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Spokes
Table type	Multi-instance table
Row name	IPv4Spoke
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv4Address	The start IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.1.
EndIPv4Address	The end IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv6Spokes

This table is used to configure the private IPv6 address range of spokes on the VAM server.

XML structure

```
<VAMS>
  <IPv6Spokes>
    <IPv6Spoke>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <DomainID></DomainID>
    </IPv6Spoke>
  </IPv6Spokes>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Spokes
Table type	Multi-instance table
Row name	IPv6Spoke

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv6Address	The start IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:1.
EndIPv6Address	The end IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

Contents

VAMS 2

VamsGlbStats 2
XML structure 2
Table description 2
Columns 2
ServerGlobalCfg 3
XML structure 3
Table description 3
Columns 3
AdvpnDomains 3
XML structure 3
Table description 4
Columns 4
DomainStats 6
XML structure 6
Table description 7
Columns 8
HubGroups 12
XML structure 12
Table description 12
Columns 13
IPv4Hubs 14
XML structure 14
Table description 15
Columns 15
IPv6Hubs 17
XML structure 17
Table description 18
Columns 18
IPv4Spokes 20
XML structure 20
Table description 20
Columns 21
IPv6Spokes 21
XML structure 21
Table description 21
Columns 22
IPv4AddressMaps 22
XML structure 22
Table description 23
Columns 23
IPV6AddressMaps 25
XML structure 25
Table description 25
Columns 26
IPv4NetworkRoutes 27
XML structure 27
Table description 28
Columns 28
IPv6NetworkRoutes 29
XML structure 29
Table description 29
Columns 29

VAMS

VamsGlbStats

This table displays the global configuration of VAM server.

XML structure

```
<VAMS>
  <VamsGlbStats>
    <TotalAdvpnNum></TotalAdvpnNum>
    <TotalSpokeNum></TotalSpokeNum>
    <TotalHubNum></TotalHubNum>
  </VamsGlbStats>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	VamsGlbStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TotalAdvpnNum	Total number of configured ADVPN domains	N/A	Unsigned integer Value range: 0 to 65535
TotalSpokeNum	Total number of configured spokes	N/A	Unsigned integer Value range: 0 to 65535
TotalHubNum	Total number of configured hubs	N/A	Unsigned integer Value range: 0 to 65535

ServerGlobalCfg

This table displays the global configuration of the VAM server.

XML structure

```
<VAMS>
  <ServerGlobalCfg>
    <ListenPort></ListenPort>
  </ServerGlobalCfg>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	ServerGlobalCfg
Table type	Multi -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListenPort	The UDP port number for receiving VAM packets	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

AdvpnDomains

This table displays ADVPN domains configuration on the VAM server.

XML structure

```
<VAMS>
  <AdvpnDomains>
    <AdvpnDomain>
```

```
      <DomainName></DomainName>
      <DomainID></DomainID>
      <AuthenAlgList>
        <AuthenAlgItem></AuthenAlgItem>
      </AuthenAlgList>
      <AuthenMethod>
        <Method></Method>
        <ISPName></ISPName>
      </AuthenMethod>
      <EncryptAlgList>
        <EncryptAlgItem></EncryptAlgItem>
      </EncryptAlgList>
      <Keepalive>
        <Interval></Interval>
        <RetryTime></RetryTime>
      </Keepalive>
      <RetryInterval></RetryInterval>
      <PreSharedKey>
        <Type></Type>
        <Value></Value>
      </PreSharedKey>
      <Enable></Enable>
    </AdvpnDomain>
  </AdvpnDomains>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	AdvpnDomains
Table type	Multi-instance table
Row name	AdvpnDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer	An unique ID must be specified when you

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 65535	create an ADVPN domain.
AuthenAlgList	The algorithms for VAM protocol packet authentication	Data structure	Members include: • AuthenAlgItem	AuthenAlgItem: the maxOccurs is 5.
AuthenAlgItem	The algorithm for VAM protocol packet authentication	N/A	Enumeration: • 1—NONE • 3—MD5 • 5—SHA-1 • 6—SHA-256 • 7—AES-XCBC-MAC	N/A
AuthenMethod	Authentication mode that the VAM server uses to authenticate clients	N/A	Members include: • Method • ISPName	N/A
Method	Authentication method	N/A	Enumeration: • 1—None • 2—PAP • 3—CHAP	The default value is 3. If the value is 1, the ISPName will be ignored.
ISPName	ISP domain for authentication	N/A	String Length: 1 to 255 characters The default is empty.	Case-insensitive and cannot contain \, |, /, :, *, ?, ", <, > and @.
EncryptAlgList	The algorithms for VAM protocol packet encryption	Data structure	Members include: • EncryptAlgItem	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: • 1—NONE • 2—DES-CBC • 3—3DES-CBC • 4—AES-CBC-128 • 5—AES-CBC-192 • 6—AES-CBC-256 • 7—AES-CTR-128 • 8—AES-CTR-192	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9—AES-CTR-256	
Keepalive	The parameters of keep-alive packet	Data structure	Members include: • Interval • Retry	N/A
Interval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535 The default value is 180	Unit: second.
RetryTime	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6 The default value is 3	N/A
RetryInterval	The time interval for the server resending request packet	N/A	Unsigned integer Value range: 3 to 30 The default value is 5	Unit: second.
PreSharedKey	The pre-shared key	Data structure	Members include: • Type • Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: • 1—simple • 2—cipher	This column will not return to user.
Value	The pre-shared key	N/A	String	This column will not return to user.
Enable	The status of advpn domain	N/A	Boolean: • true—Enabled • false—Disabled	The default value is false.

DomainStats

This table displays the ADVPN domain statistics.

XML structure

```
<VAMS>
  <AdvpnDomainStats>
    <DomainStats>
      <DomainName></DomainName>
      <ServerStatus></ServerStatus>
```

```
      <HoldingTime></HoldingTime>
      <RegSpokeNumber></RegSpokeNumber>
      <RegHubNumber></RegHubNumber>
      <RegIPv4AddrMapNum></RegIPv4AddrMapNum>
      <RegIPv6AddrMapNum></RegIPv6AddrMapNum>
      <RegIPv4NetworkNum></RegIPv4NetworkNum>
      <RegIPv6NetworkNum></RegIPv6NetworkNum>
      <PacketsReceived>
        <InitReqTimes></InitReqTimes>
        <InitFinReqTimes></InitFinReqTimes>
        <RegReqTimes></RegReqTimes>
        <AuthenInfoTimes></AuthenInfoTimes>
        <AddrResolveReqTimes></AddrResolveReqTimes>
        <NetworkRegReqTimes></NetworkRegReqTimes>
        <UpdateReqTimes></UpdateReqTimes>
        <LogoutReqTimes></LogoutReqTimes>
        <HubInfoResTimes></HubInfoResTimes>
        <DataFlowInfoResTimes></DataFlowInfoResTimes>
        <RecvKeepReqTimes></RecvKeepReqTimes>
        <RecvErrNoticeTimes></RecvErrNoticeTimes>
        <RecvUnkonwnTimes></RecvUnkonwnTimes>
      </PacketsReceived>
      <PacketsSend>
        <InitResTimes></InitResTimes>
        <InitFinResTimes></InitFinResTimes>
        <AuthenReqTimes></AuthenReqTimes>
        <RegResTimes></RegResTimes>
        <AddrResolveResTimes></AddrResolveResTimes>
        <NetworkRegResTimes></NetworkRegResTimes>
        <UpdateResTimes></UpdateResTimes>
        <HubInfoReqTimes></HubInfoReqTimes>
        <DataFlowInfoReqTimes></DataFlowInfoReqTimes>
        <LogoutResTimes></LogoutResTimes>
        <SendKeepResTimes></SendKeepResTimes>
        <SendErrNoticeTimes></SendErrNoticeTimes>
      </PacketsSend>
    </DomainStats>
  </AdvpnDomainStats>
</VAMS>
```


Table description

Item	Description
Feature name	VAMS
Table name	DomainStats
Table type	Multi-instance table
Row name	Domain

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerStatus	Whether the VAM server is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
HoldingTime	Duration time that elapses after the VAM service is enabled	N/A	Unsigned integer	Unit: second
RegSpokeNumber	The number of spoke registered in a ADVPN domain	N/A	Unsigned integer	N/A
RegHubNumber	The number of hub registered in a ADVPN domain	N/A	Unsigned integer	N/A
RegIPv4AddressMapNumber	Total number of IPv4 private address mappings	N/A	Unsigned integer	N/A
RegIPv6AddressMapNumber	Total number of IPv6 private address mappings	N/A	Unsigned integer	N/A
RegIPv4NetworkNumber	Total number of IPv4 private networks	N/A	Unsigned integer	N/A
RegIPv6NetworkNumber	Total number of IPv6 private networks	N/A	Unsigned integer	N/A
PacketsRecei	The number of	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ved	received packets	structure	• InitReqTimes • InitFinReqTimes • RegReqTimes • AuthenInfoTimes • AddrResolveReqTimes • NetworkRegReqTimes • UpdateReqTimes • LogoutReqTimes • HubInfoResTimes • DataFlowInfoResTimes • RecvKeepReqTimes • RecvErrNoticeTimes • RecvUnkonwnTimes	
InitReqTimes	The number of initialization request packets	N/A	Unsigned integer	N/A
InitFinReqTimes	The number of initialization complete packets	N/A	Unsigned integer	N/A
RegReqTimes	The number of register request packets	N/A	Unsigned integer	N/A
AuthenInfoTimes	The number of authentication information request packets	N/A	Unsigned integer	N/A
AddrResolveReqTimes	The number of address resolution request packets	N/A	Unsigned integer	N/A
NetworkRegReqTimes	The number of network registration request packets	N/A	Unsigned integer	N/A
UpdateReqTimes	The number of update request packets	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LogoutReqTimes	The number of logout request packets	N/A	Unsigned integer	N/A
HubInfoResTimes	The number of hub information response packets	N/A	Unsigned integer	N/A
DataFlowInfoResTimes	The number of data flow information response packets	N/A	Unsigned integer	N/A
RecvKeepReqTimes	The number of received keepalive packets	N/A	Unsigned integer	N/A
RecvErrNoticeTimes	The number of received error notification packets	N/A	Unsigned integer	N/A
RecvUnkonwnTimes	The number of received unknown packets	N/A	Unsigned integer	N/A
PacketsSend	The number of sent packets	Data structure	Members include: • InitResTimes • InitFinResTimes • AuthenReqTimes • RegResTimes • AddrResolveResTimes • NetworkRegResTimes • UpdateResTimes • HubInfoReqTimes • DataFlowInfoReqTimes • LogoutResTimes • SendKeepResTimes • SendErrNoticeTimes	N/A
InitResTimes	The number of initialization	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	response packets			
InitFinResTimes	The number of initialization complete packets	N/A	Unsigned integer	N/A
AuthenReqTimes	The number of authentication request packets	N/A	Unsigned integer	N/A
RegResTimes	The number of register response packets	N/A	Unsigned integer	N/A
AddrResolveResTimes	The number of address resolution response packets	N/A	Unsigned integer	N/A
NetworkRegResTimes	The number of network registration response packets	N/A	Unsigned integer	N/A
UpdateResTimes	The number of update response packets	N/A	Unsigned integer	N/A
HubInfoReqTimes	The number of hub information request packets	N/A	Unsigned integer	N/A
DataFlowInfoReqTimes	The number of data flow information request packets	N/A	Unsigned integer	N/A
LogoutResTimes	The number of logout response packets	N/A	Unsigned integer	N/A
SendKeepResTimes	The number of send keepalive packets	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SendErrNoticeTimes	The number of send error notification packets	N/A	Unsigned integer	N/A

HubGroups

This table displays hub groups configuration on the VAM server.

XML structure

```
<VAMS>
  <HubGroups>
    <HubGroup>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <DomainID></DomainID>
      <IPv4Shortcut>
        <AclMode></AclMode>
        <AclNum></AclNum>
        <AclName></AclName>
      </IPv4Shortcut>
      <IPv6Shortcut>
        <AclMode></AclMode>
        <AclNum></AclNum>
        <AclName></AclName>
      </IPv6Shortcut>
    </HubGroup>
  </HubGroups>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	HubGroups
Table type	Multi-instance table
Row name	HubGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
IPv4Shortcut	ACL to control establishing IPv4 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—ByNumber • 2—ByName • 3—All	The default value is 0, which means not specifing the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv4 basic ACLs. 3000 to 3999 for IPv4 advanced ACLs.
AclName	ACL name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be “all”.
IPv6Shortcut	ACL to control	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	establishing IPv6 spoke-to-spoke tunnels	structure	• AclMode • AclNum • AclName	
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—Number • 2—Name • 3—All	The default value is 0, which means not specifing the IPv6 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv6 basic ACLs. 3000 to 3999 for IPv6 advanced ACLs.
AclName	ACL name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be “all”.

IPv4Hubs

This table displays the private IPv4 address configuration of hubs on the VAM server.

XML structure

```
<VAMS>
  <IPv4Hubs>
    <IPv4Hub>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <PrivateAddress></PrivateAddress>
      <DomainID></DomainID>
      <PublicAddress>
        <IPVersion></IPVersion>
```

```
      <IPAddress></IPAddress>
    </PublicAddress>
    <AdvpnPort></AdvpnPort>
    <LinkProtocol></LinkProtocol>
    <RegPublicAddress>
      <RegIPVersion></RegIPVersion>
      <RegIPAddress></RegIPAddress>
    </RegPublicAddress>
    <RegAdvpnPort></RegAdvpnPort>
  </IPv4Hub>
 </IPv4Hubs>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Hubs
Table type	Multi-instance table
Row name	IPv4Hub
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	The private IPv4 address of the hub	Index	IPv4 address	Must be an unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public address of the hub	Data structure	Members include: • IPVersion	If users are not specify the public address, this tag and

			• IPAddress	its sub-tags will not display to user.
IPVersion	IP version of public address	N/A	Enumeration: • 4—IPv4 • 6—IPv6	Use IPVersion to display the IP version of the public address. If IPVersion is 4, the IPAddress is an IPv4 address. If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If users are not specify the ADVPN port number, the VAM server uses the port number registered by the hub.
LinkProtocol	Link protocol of the hub	N/A	Enumeration: • 1—GRE • 2—UDP • 3—GRE with IPsec protection • 4—UDP with IPsec protection	As a best practice, specify the link protocol of the hub.
RegPublicAddress	Public address of the hub before NAT	Data structure	Members include: • RegIPVersion • RegIPAddress	Use RegIPVersion to specify the IP version (Ipv4 or Ipv6) of the public address before NAT. Use RegIPAddress to specify the public address before NAT. If the public address before NAT is not needed, do not specify RegPublicAddress, RegIPVersion, or RegIPAddress.

RegIPVersion	IP version of the public address before NAT	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If RegIPVersion is 4, the RegIPAddress is an IPv4 address If RegIPVersion is 6, the RegIPAddress is an IPv6 address.
RegIPAddres s	Public IP address before NAT	N/A	IPv4:String,dotted decimal notation. IPv6: Hexadecimal string,colon-separated. The default is empty.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
RegAdvpnPor t	ADVPN port number of the hub before NAT	N/A	Unsigned integer Value range: 1025 to 65535	If the ADVPN port number before NAT is not needed, do not specify RegAdvpnPort.

IPv6Hubs

This table displays the private IPv6 address configuration of hubs on the VAM server.

XML structure

```
<VAMS>
<IPv6Hubs>
    <IPv6Hub>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <PrivateAddress></PrivateAddress>
      <DomainID></DomainID>
      <PublicAddress>
        <IPVersion></IPVersion>
        <IPAddress></IPAddress>
      </PublicAddress>
      <AdvpnPort></AdvpnPort>
      <LinkProtocol></LinkProtocol>
      <RegPublicAddress>
        <RegIPVersion></RegIPVersion>
        <RegIPAddress></RegIPAddress>
      </RegPublicAddress>
      <RegAdvpnPort></RegAdvpnPort>
      <LinkLocalAddress></LinkLocalAddress>

    </IPv6Hub>
```

```
  </IPv6Hubs>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Hubs
Table type	Multi-instance table
Row name	IPv6Hub
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	The private IPv6 address of the hub	Index	IPv6 address	Must be a global unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public address of the hub	Data structure	Members include: • IPVersion • IPAddress	If users are not specify the public address, this tag and its sub-tags will not display to user.
IPVersion	IP version of public address	N/A	Enumeration: • 4—IPv4 • 6—IPv6	Use IPVersion to display the IP version of the public address. If IPVersion is 4, the IPAddress is an IPv4 address. If IPVersion

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If users are not specify the ADVPN port number, the VAM server uses the port number registered by the hub.
LinkProtocol	Link protocol of the hub	N/A	Enumeration: • 1—GRE • 2—UDP • 3—GRE with IPsec protection • 4—UDP with IPsec protection	As a best practice, specify the the link protocol of the hub
RegPublicAddress	The public address of the hub before NAT	Data structure	Members include: • RegIPVersion • RegIPAddress	Use RegIPVersion to specify the IP version(Ipv4 or Ipv6) of the public address before NAT. Use RegIPAddress to specify the public address before NAT. If the public address before NAT is not needed,do not specify RegPublicAddress,RegIPVersion, or RegIPAddress.
RegIPVersion	IP version of the public address before NAT	N/A	Enumeration: • 4—IPv4 • 6—IPv6	If RegIPVersion is 4, the RegIPAddress is an IPv4 address If RegIPVersion is 6, the RegIPAddress is an IPv6 address.
RegIPAddress	Public IP address before	N/A	IPv4:String,dotted decimal notation.	Pv4 example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	NAT		IPv6:Hexadecimal string,colon-separated. The default is empty.	IPv6 Address: 1:2:3:4:5:6:7:8
RegAdvpnPort	ADVPN port number of the hub before NAT	N/A	Unsigned integer Value range: 1025 to 65535	If the ADVPN port number before NAT is not needed,not specify RegAdvpnPort.
LinkLocalAddress	IPv6 link local address of the hub	N/A	String. The default is empty.	IPv6 Address

IPv4Spokes

This table displays the private IPv4 address range configuration of spokes on the VAM server.

XML structure

```
<VAMS>
  <IPv4Spokes>
    <IPv4Spoke>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <DomainID></DomainID>
    </IPv4Spoke>
  </IPv4Spokes>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Spokes
Table type	Multi-instance table
Row name	IPv4Spoke
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv4Address	The start IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.1.
EndIPv4Address	The end IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv6Spokes

This table displays the private IPv6 address range of spokes on the VAM server.

XML structure

```
<VAMS>
<IPv6Spokes>
    <IPv6Spoke>
      <DomainName></DomainName>
      <HubGroupName></HubGroupName>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <DomainID></DomainID>
    </IPv6Spoke>
  </IPv6Spokes>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS

Table name	IPv6Spokes
Table type	Multi-instance table
Row name	IPv6Spoke
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv6Address	The start IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:1.
EndIPv6Address	The end IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv4AddressMaps

This table displays IPv4 private-public address mapping information

XML structure

```
<VAMS>
  <IPv4AddressMaps>
    <IPv4AddressMap>
      <DomainName></DomainName>
      <PrivateAddress></PrivateAddress>
      <ClientType></ClientType>
      <HubGroupName></HubGroupName>
      <HoldingTime></HoldingTime>
      <LinkProtocol></LinkProtocol>
      <PublicAddress></PublicAddress>
```

```
      <PublicPort></PublicPort>
      <RegisteredAddress></RegisteredAddress>
      <RegisteredPort></RegisteredPort>
      <IPsecAddress></IPsecAddress>
      <IPsecPort></IPsecPort>
      <BehindNAT></BehindNAT>
    </IPv4AddressMap>
  </IPv4AddressMaps>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4AddressMaps
Table type	Multi-instance table
Row name	IPv4AddressMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	Private IPv4 address that the VAM client has registered with the VAM server	Index	IPv4 address	N/A
ClientType	VAM client type	N/A	Enumeration: • 0—Unknown • 1—Spoke • 2—Hub	N/A
HubGroupName	Hub group to which the VAM client belongs	N/A	String Length: 1 to 31 characters	N/A
HoldingTime	Duration time that elapses	N/A	Unsigned integer The default value is 0	Unit: second

Column name	Column description	Column type	Data type and restrictions	Remarks
	since the VAM client successfully registered with the server			
LinkProtocol	Link layer protocol used by the VAM client for ADVPN tunnel establishment	N/A	Enumeration: • 0—Unknown • 1—GRE • 2—UDP • 3—IPsec-GRE • 4—IPsec-UDP	N/A
PublicAddress	VAM client's public IP address that has been NATed	N/A	String	N/A
PublicPort	VAM client's ADVPN port number that has been NATed	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
RegisteredAddress	Public address that the VAM client has registered with the VAM server	N/A	String	N/A
RegisteredPort	ADVPN port number that the VAM client has registered with the VAM server	N/A	Unsigned integer. Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
IPsecAddress	IP address used by the VAM client for IPsec tunnel establishment	N/A	String	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
IPsecPort	UDP port number used by the VAM client for IPsec tunnel establishment	N/A	Unsigned integer. Value range: 1025 to 65535	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.

Column name	Column description	Column type	Data type and restrictions	Remarks
BehindNAT	Whether the registered client is behind a NAT	N/A	Boolean: • true—Yes • false—No	N/A

IPV6AddressMaps

This table displays IPv6 private-public address mapping information.

XML structure

```
<VAMS>
  <IPv6AddressMaps>
    <IPv6AddressMap>
      <DomainName></DomainName>
      <PrivateAddress></PrivateAddress>
      <HubGroupName></HubGroupName>
      <ClientType></ClientType>
      <HoldingTime></HoldingTime>
      <LinkProtocol></LinkProtocol>
      <PublicAddress></PublicAddress>
      <PublicPort></PublicPort>
      <RegisteredAddress></RegisteredAddress>
      <RegisteredPort></RegisteredPort>
      <IPsecAddress></IPsecAddress>
      <IPsecPort></IPsecPort>
      <BehindNAT></BehindNAT>
    </IPv6AddressMap>
  </IPv6AddressMaps>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6AddressMaps
Table type	Multi-instance table
Row name	IPv6AddressMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	Private IPv6 address that the VAM client has registered with the VAM server	Index	IPv6 address	N/A
HubGroupName	Hub group to which the VAM client belongs	N/A	String. Length: 1 to 31 characters	N/A
ClientType	VAM client type	N/A	Enumeration: • 1—Spoke • 2—Hub	N/A
HoldingTime	Duration time that elapses since the VAM client successfully registered with the server	N/A	Unsigned integer The default value is 0	Unit: seconds
LinkProtocol	Link layer protocol used by the VAM client for ADVPN tunnel establishment	N/A	Enumeration: • 1—GRE • 2—UDP • 3—IPsec-GRE • 4—IPsec-UDP	N/A
PublicAddress	VAM client's public IP address that has been NATed	N/A	String	N/A
PublicPort	VAM client's ADVPN port number that has been NATed	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
RegisteredAddress	Public address that the VAM	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client has registered with the VAM server			
RegisteredPort	ADVPN port number that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
IPsecAddress	IP address used by the VAM client for IPsec tunnel establishment	N/A	String	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
IPsecPort	UDP port number used by the VAM client for IPsec tunnel establishment	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
BehindNAT	Whether the registered client is behind a NAT	N/A	Boolean: • true—Yes • false—No	N/A

IPv4NetworkRoutes

This table displays the IPv4 private networks for VAM clients registered with the VAM server.

XML structure

```
<VAMS>
  <IPv4NetworkRoutes>
    <IPv4NetworkRoute>
      <DomainName></DomainName>
      <NetworkAddress></NetworkAddress>
      <MaskLength></MaskLength>
      <PrivateAddress></PrivateAddress>
      <Preference></Preference>
    </IPv4NetworkRoute>
  </IPv4NetworkRoutes>
</VAMS>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4NetworkRoutes
Table type	Multi-instance table
Row name	IPv4NetworkRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
NetworkAddress	Private IPv4 network address for an ADVPN tunnel interface	Index	IPv4 address	N/A
MaskLength	Private IPv4 network mask length for an ADVPN tunnel interface	Index	Unsigned integer Value range: 0 to 32	N/A
PrivateAddress	Private IPv4 address that the VAM client has registered with the VAM server	Index	IPv4 address	N/A
Preference	Preference of the private route that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1 to 255 The default is 8	N/A

IPv6NetworkRoutes

This table displays the IPv6 private networks for VAM clients registered with the VAM server.

XML structure

```
<VAMS>
  <IPv6NetworkRoutes>
    <IPv6NetworkRoute>
      <DomainName></DomainName>
      <NetworkAddress></NetworkAddress>
      <MaskLength></MaskLength>
      <PrivateAddress></PrivateAddress>
      <Preference></Preference>
    </IPv6NetworkRoute>
  </IPv6NetworkRoutes>
</VAMS>
```

Table description

Item	Description
Feature name	VAM
Table name	IPv6NetworkRoutes
Table type	Multi-instance table
Row name	IPv6NetworkRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
NetworkAddress	Private IPv6 network address for an ADVPN tunnel interface	Index	IPv6 address.	N/A
MaskLength	Private IPv6 network prefix	Index	Unsigned integer Value range: 0 to 128	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	length for an ADVPN tunnel interface.			
PrivateAddress	Private IPv6 address that the VAM client has registered with the VAM server	N/A	IPv6 address	N/A
Preference	Preference of the private route that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1 to 255 The default is 8	N/A

Contents

VBR 1
VBR/PE/SetConfiguration 1
XML structure 1
Table description 1
Columns 1
VBR/PE/Configuration 1
XML structure 2
Responsed XML structure 2
Table description 2
Columns 2
Responsed columns 3
VBR/CB/UpgradePEXs 3
XML structure 3
Table description 3
Columns 4

VBR

VBR/PE/SetConfiguration

This table contains PEX local forwarding capability information on a PEX.

XML structure

```
<VBR>
  <PE>
    <SetConfiguration>
      <LocalForwarding></LocalForwarding>
      <ShutdownIfWhenOffline></ShutdownIfWhenOffline>
    </SetConfiguration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	SetConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalForwarding	Whether PEX local forwarding capability is enabled	N/A	Boolean: • **true**. • **false** (default).	N/A
ShutdownIfWhenOffline	Whether all user-side ports will be shut down when the PEX is offline	N/A	Boolean: • **true**. • **false** (default).	N/A

VBR/PE/Configuration

This table manages configuration for PEXs.

XML structure

```
<VBR>
  <PE>
    <Configuration>
      <Save/>
      <Recover>
        <Associate></Associate>
        <Name></Name>
      </Recover>
    </Configuration>
  </PE>
</VBR>
```

Responsed XML structure

```
<VBR>
  <PE>
    <Configuration>
      <Name></Name>
    </Configuration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Associate	Virtual chassis number or slot number of a PEX	N/A	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
Name	Configuration file	N/A	String.	The file name is in the

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 255 characters.	format of pex_*peid*.cfg. The *peid* argument represents the virtual chassis number or slot number of the PEX. For example: pex_100.cfg.

Responsed columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Configuration file name	N/A	String. Length: 1 to 255 characters.	The configuration file name is pex.cfg. This object responds to the save operation.

VBR/CB/UpgradePEXs

This table contains PEX upgrade information on PEX.

XML structure

```
<VBR>
  <CB>
    <UpgradePEXs>
      <Server></Server>
      <FtpUserName></FtpUserName>
      <Password></Password>
      <IPEFile></IPEFile>
      <PEXDeviceList></PEXDeviceList>
      <Patch>
        <PatchFile></PatchFile>
        <Action></Action>
      </Patch>
      <DeleteIPEFile></DeleteIPEFile>
    </UpgradePEXs>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	UpgradePEXs

Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Server	IP address of the FTP server.	N/A	String, dotted decimal notation.	N/A
FtpUserName	User's name of the FTP server entered by user.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Password	password of the FtpUserName	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
IPEFile	Name of an .ipe image pckage file in the system.	N/A	String. Length: 1 to 127 characters.	N/A
PEXDeviceList	List of PEX device that user selected for upgrade.	N/A	Number string. It is a comma-separated list of PEX items. An item can be an individual PEX ID or a PEX ID range. Use a hyphen (-) to separate the start and end PEXs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 100,102,103,105-108,110-120.
PatchFile	Name of a patch image pckage file in the system.	N/A	String. Length: 1 to 127 characters.	"patch" means this is a patch image file.
Action	Specify which action to handle the patch image file.	N/A	Enumeration: • **1**—activate. • **2**—deactivate.	Action of "activate" will update the patch image file that the user selected, "deactivate" will unload the selected patch file.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Contents

VBR 1
VBR/CB/Groups 1
XML structure 1
Table description 1
Columns 1
VBR/CB/CascadePorts 1
XML structure 2
Table description 2
Columns 2

VBR

VBR/CB/Groups

This table contains PEX group information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <Groups>
      <Group>
        <ID></ID>
        <Description></Description>
      </Group>
    </Groups>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	PEX group ID.	index	Unsigned integer.	N/A
Description	PEX group description.	N/A	String, case-insensitive. Length: 1 to 79 characters. Default: PEX group XXX (XXX represents the PEX group ID).	N/A

VBR/CB/CascadePorts

This table contains cascade port configuration information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <CascadePorts>
      <CascadePort>
        <IfIndex></IfIndex>
        <Group></Group>
        <Associate></Associate>
        <LocalForwarding></LocalForwarding>
        <ShutdownIfWhenPEOffline></ShutdownIfWhenPEOffline>
      </CascadePort>
    </CascadePorts>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	CascadePorts
Table type	Multi-instance table
Row name	CascadePort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Aggregate interface index.	index	Unsigned integer.	Some versions support interface name. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	PEX group ID.	N/A	Unsigned integer.	If this column has a valid value, the PEX connection capability of the aggregate interface is enabled. In other situations, the PEX connection capability of the aggregate interface is not enabled.
Associate	Associated virtual chassis number or slot number of the PEX port.	N/A	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • **true**. • **false** (default).	N/A
ShutdownIfWhenPEOffline	Whether all user-side ports on the PEX will be shut down when the PEX is offline.	N/A	Boolean: • **true** • **false** (default).	N/A

Contents

VBR 1
VBR/PE/SetConfiguration 1
XML structure 1
Table description 1
Columns 1
VBR/PE/UpstreamPorts 1
XML structure 2
Table description 2
Columns 2
VBR/CB/Groups 3
XML structure 3
Table description 3
Columns 3
VBR/CB/CascadePorts 4
XML structure 4
Table description 4
Columns 5
VBR/CB/ExtendPorts 6
XML structure 6
Table description 6
Columns 7
VBR/CB/UpstreamPorts 7
XML structure 7
Table description 8
Columns 8
VBR/CB/UpgradeOpResults 8
XML structure 8
Table description 9
Columns 9
VBR/CB/PEInfos 9
XML structure 10
Table description 10
Columns 10

VBR

VBR/PE/SetConfiguration

This table contains PEX local forwarding capability information on a PEX.

XML structure

```
<VBR>
  <PE>
    <SetConfiguration>
      <LocalForwarding></LocalForwarding>
      <ShutdownIfWhenOffline></ShutdownIfWhenOffline>
    </SetConfiguration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	SetConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	N/A
ShutdownIfWhenOffline	Whether all user-side ports will be shut down when the PEX is offline.	N/A	Boolean: • **true**—Shut down. • **false**—Not shut down.	N/A

VBR/PE/UpstreamPorts

This table contains upstreamports on the PEX.

XML structure

```
<VBR>
  <PE>
    <UpstreamPorts>
      <UpstreamPort>
        <IfIndex></IfIndex>
        <PortInfo>
          <Name></Name>
          <Chassis></Chassis>
          <Slot></Slot>
          <SubSlot></SubSlot>
          <Combo></Combo>
        </PortInfo>
      </UpstreamPort>
    </UpstreamPorts>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	UpstreamPorts
Table type	Multi-instance table
Row name	UpstreamPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	UpstreamPort IfIndex	index	Unsigned integer.	UpstreamPort IfIndex on PEX
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	Full name of an interface on PEX
Chassis	Chassis ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 0.
Slot	Slot ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no subslot number, return 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Combo	Combo mode of an interface	N/A	Enumeration: • **1**—fiber mode • **2**—copper mode	Applicable to only Ethernet interfaces.

VBR/CB/Groups

This table contains PEX group information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <Groups>
      <Group>
        <ID></ID>
        <Description></Description>
      </Group>
    </Groups>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	PEX group ID.	index	Unsigned integer.	N/A
Description	PEX group description.	N/A	String, case-insensitive. Length: 1 to 79	N/A

VBR/CB/CascadePorts

This table contains cascade port configuration information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <CascadePorts>
      <CascadePort>
        <IfIndex></IfIndex>
        <Group></Group>
        <Associate></Associate>
        <Member>
          <Local></Local>
          <Neighbour></Neighbour>
        </Member>
        <LocalForwarding></LocalForwarding>
        <ShutdownIfWhenPEOffline></ShutdownIfWhenPEOffline>
        <Tier></Tier>
        <Parent></Parent>
        <DeviceMAC></DeviceMAC>
      </CascadePort>
    </CascadePorts>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	CascadePorts
Table type	Multi-instance table
Row name	CascadePort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Aggregate interface index.	index	Unsigned integer.	Some versions support interface name. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Group	PEX group ID.	N/A	Unsigned integer.	If this column has a valid value, the PEX connection capability of the aggregate interface is enabled. In other situations, the PEX connection capability of the aggregate interface is not enabled.
Associate	Associated virtual chassis number or slot number of the PEX port.	N/A	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
Member	Member Interfaces of CascadePort	Data structure	Member: • Local • Neighbour	Multi-instance
Local	Local Interface name	N/A	String. Length: 2 to 47 characters.	N/A
Neighbour	Neighbour Interface name	N/A	String. Length: 2 to 47 characters.	N/A
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • **true**—Enabled. • **false**—Not enabled.	N/A
ShutdownIfWhenPEOffline	Whether all user-side ports on the PEX will be shut down when the PEX is offline.	N/A	Boolean: • **true**—Shut down. • **false**—Not shut down.	N/A
Tier	Tier of the PEX	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Parent	Parent node of current PEX node	N/A	Unsigned integer.	If this column has an invalid value 0XFFFF, then current PEX's parent is CB. In other situations, this column's value is the ID of PEX.
DeviceMAC	PEX Device's bridge MAC address	N/A	String. Format: HH-HH-HH-HH-HH-HH	N/A

VBR/CB/ExtendPorts

This table contains extendport list of the PEX.

XML structure

```
<VBR>
  <CB>
    <ExtendPorts>
      <ExtendPort>
        <AssociateID></AssociateID>
        <IfIndex></IfIndex>
        <PortInfo>
          <Chassis></Chassis>
          <Slot></Slot>
          <SubSlot></SubSlot>
        </PortInfo>
      </ExtendPort>
    </ExtendPorts>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	ExtendPorts
Table type	Multi-instance table
Row name	ExtendPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssociateID	Associated virtual chassis number or slot number of the PEX .	index	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
IfIndex	ExtendPort IfIndex	index	Unsigned integer.	N/A
Chassis	Chassis ID which the ExtendPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	Slot ID which the ExtendPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot ID which the ExtendPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no subslot number, return 0.

VBR/CB/UpstreamPorts

This table contains upstreamports on the PEX.

XML structure

```
<VBR>
  <CB>
    <UpstreamPorts>
      <UpstreamPort>
        <AssociateID></AssociateID>
        <IfIndex></IfIndex>
        <PortInfo>
          <Name></Name>
          <Chassis></Chassis>
          <Slot></Slot>
          <SubSlot></SubSlot>
          <Combo></Combo>
        </PortInfo>
      </UpstreamPort>
    </UpstreamPorts>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	UpstreamPorts
Table type	Multi-instance table
Row name	UpstreamPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssociateID	Associated virtual chassis number or slot number of the PEX .	index	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
IfIndex	UpstreamPort IfIndex	index	Unsigned integer.	N/A
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
Chassis	Chassis ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 0.
Slot	Slot ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SubSlot	SubSlot ID which the UpstreamPort belonged to.	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no subslot number, return 0.
Combo	Combo mode of an interface	N/A	Enumeration: • **1**—fiber mode • **2**—copper mode	Applicable to only Ethernet interfaces.

VBR/CB/UpgradeOpResults

This table contains information of the upgrading status of PEX.

XML structure

```
<VBR>
```

```
  <CB>
    <UpgradeOpResults>
      <UpgradeOpResult>
        <AssociateID></AssociateID>
        <UpgradeStatus></UpgradeStatus>
        <FailedReason></FailedReason>
      </UpgradeOpResult>
    </UpgradeOpResults>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	UpgradeOpResults
Table type	Multi-instance table
Row name	UpgradeOpResult
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AssociateID	Associated virtual chassis number or slot number of the PEX .	index	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
UpgradeStatus	Upgrade status of the PEX.	N/A	Enumeration: • **0**—not upgrade • **1**—loading • **2**—loaded • **3**—upgrading • **4**—commited	N/A
FailedReason	Failed reason of this PEX.	N/A	String. Length: 1 to 192 characters.	Usefully only in failure.

VBR/CB/PEInfos

This table contains informations of version and model of the PEX.

XML structure

```
<VBR>
  <CB>
    <PEInfos>
      <PEInfo>
        <Associate></Associate>
        <Model></Model>
        <Version></Version>
      </PEInfo>
    </PEInfos>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	PEInfos
Table type	Multi-instance table
Row name	PEInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Associate	Associate virtual chassis number or slot number of the PEX .	index	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
Model	PEX model	N/A	String. Length: 0 to 255 characters.	N/A
Version	PEX version	N/A	String. Length: 0 to 255 characters.	N/A

Contents

VCF 1
VCF/Role 1
XML structure 1
Table description 1
Columns 1
VCF/Underlay 1
XML structure 1
Table description 2
Columns 2
VCF/UnderlayParam 2
XML structure 2
Table description 2
Columns 3

VCF

VCF/Role

This table contains VCF role name information.

XML structure

```
<VCF>
  <Role>
    <Name></Name>
  </Role>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Role name	N/A	String: • **access**—Access node. • **leaf**—Leaf node. • **spine**—Spine node. • **aggr**—Aggregate node.	N/A

VCF/Underlay

This table contains VCF underlay information.

XML structure

```
<VCF>
  <Underlay>
    <PauseStatus></PauseStatus>
```

```
  </Underlay>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Underlay
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PauseStatus	Paused state of automated underlay network deployment	N/A	Boolean: • **true**—Automated underlay network deployment is paused. • **false**—Automated underlay network deployment is running.	N/A

VCF/UnderlayParam

This table contains VCF underlay parameter information.

XML structure

```
<VCF>
  <UnderlayParam>
    <username></username>
    <password></password>
  </UnderlayParam>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	UnderlayParam
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
username	Underlay Netconf username	N/A	String: • Any. (max length 63)	N/A
password	Underlay Netconf password	N/A	String: Any. (max length 63)	N/A

Contents

VCF 1
VCF/Topos 1
XML structure 1
Table description 1
Columns 1
VCF/Role 2
XML structure 2
Table description 2
Columns 3
VCF/Underlay 3
XML structure 3
Table description 3
Columns 4
VCF/UnderlayParam 4
XML structure 5
Table description 5
Columns 5

VCF

VCF/Topos

This table contains VCF topology information.

XML structure

```
<VCF>
  <Topos>
    <TopoItem>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
      <PeerInterface></PeerInterface>
      <LocalInterface></LocalInterface>
      <Role></Role>
      <SystemName></SystemName>
      <PeerIP></PeerIP>
      <LoopbackIP></LoopbackIP>
      <Loopback1IP></Loopback1IP>
    </TopoItem>
  </Topos>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Topos
Table type	Multi-instance table
Row name	TopoItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfInex	Interface index	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML API Configuration
MacAddress	MAC address	index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PeerInterface	Neighbor interface name	index	String. Length: 1 to 47 characters.	
Role	Neighbor role	N/A	Enumeration: • 1—spine. • 2—leaf. • 3—access. • 4—computer. • 5—aggr.	
LocalInterface	Interface name	N/A	String. Length: 1 to 47 characters.	
SystemName	System name	N/A	String. Length: 0 to 255 characters.	0 denotes Null.
PeerIP	Neighbor management address.	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
LoopbackIP	Neighbor Loopback0 address.	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.
Loopback1IP	Neighbor Loopback1 address.	N/A	IPv4: String, dotted decimal notation.	Example: 1.1.1.1.

VCF/Role

This table contains VCF role name information.

XML structure

```
<VCF>
  <Role>
    <Name></Name>
  </Role>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Role
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Role name	N/A	String: • access • leaf • spine • aggr	

VCF/Underlay

This table contains VCF underlay information.

XML structure

```
<VCF>
  <Underlay>
    <PauseStatus></PauseStatus>
    <Completion></Completion>
    <Maddr></Maddr>
    <Mask></Mask>
    <Mac></Mac>
    <StandByMac></StandByMac>
    <StandByMac2></StandByMac2>
    <SN></SN>
    <Execution></Execution>
  </Underlay>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Underlay
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PauseStatus	Underlay pause status	N/A	Boolean: • true—pause • false—running	
Completion	Underlay completon	N/A	Boolean: • true—completion • false—incompletion	If Vlan-interface4094 or Vsi-interface4094 have ipv4, completion status will be set true.
Maddr	Management address	N/A	Unsigned integer. Length: 32 bits.	Vlan-interface4094 or Vsi-interface4094 ipAdress.
Mask	Management address Mask	N/A	Unsigned integer. Length: 32 bits.	Vlan-interface4094 or Vsi-interface4094 mask .
Mac	Briage MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
StandByMac	Standby Original Briage MAC	N/A	Six groups of two hexadecimal digits, hyphen-separated	StandByMac default 00-00-00-00-00-00. If irf mode,”StandByMac” means standby original Briage Mac .Example: 00-0c-af-e3-5d-c1.
StandByMac2	Briage MAC of local standby MPU on a subordinate member	N/A	Six groups of two hexadecimal digits, hyphen-separated	StandByMac2 default 00-00-00-00-00-00. If irf mode,”StandByMac2” means Briage MAC of local standby MPU on a subordinate member .Example: 00-0c-af-e3-5d-c1. Note that, after switchover occured, the bridge MAC of device may be that of previous local active MPU or local standby MPU on the previous subordinate member.
SN	Device serial number	N/A	String	
Execution	Finished phase	N/A	String	Example: 1.0.1,1.0,2, means, Underlay has finished phase: 1.0.1, 1.0.2

VCF/UnderlayParam

This table contains VCF underlay parameter information.

XML structure

```
<VCF>
  <UnderlayParam>
    <username></username>
     <password></password>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	UnderlayParam
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
username	Underlay Netconf username	N/A	String: • Any. (max length 63)	N/A
password	Underlay Netconf password	N/A	String: Any. (max length 63)	N/A

Contents

VCF 1
VCF/Role 1

VCF

VCF/Role

Message	Explanation
The role name only support spine leaf access and aggr. 该角色名只支持spine，leaf，access，aggr四种。	The role name only support spine, leaf, access and aggr. 角色名仅支持 spine，leaf，access，aggr 四种。

Contents

Virtualization 1
Virtualization/DockerStats 1
XML structure 1
Table description 1
Columns 1
Virtualization /KVMVirshDominfos 2
XML structure 2
Table description 2
Columns 3

Virtualization

Virtualization/DockerStats

This table contains Docker stats information.

XML structure

```
<Virtualization>
  <DockerStats>
    <DockerStat>
      <Name></Name>
      <ID></ID>
      <CpuUsage></CpuUsage>
      <MemoryUsage></MemoryUsage>
      <MemoryLimit></MemoryLimit>
    <DockerStat>
  </DockerStats>
</Virtualization>
```

Table description

Item	Description
Feature name	Virtualization
Table name	DockerStats
Table type	Multi-instance table
Row name	DockerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full name of the container	Index	String Length: 1 to 512 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	The container ID	N/A	String. Length: 12 characters.	ID example: dd229174b900.
CpuUsage	The container CPU usage(%)	N/A	String Length: 1 to 512 characters.	N/A
MemoryUsed	The container Used memory space	N/A	String Length: 1 to 512 characters.	N/A
MemoryLimit	The container memory limit	N/A	String Length: 1 to 512 characters.	N/A

Virtualization /KVMVirshDominfos

This table contains kvm virsh domin information.

XML structure

```
<Virtualization>
  <KVMVirshDominfos>
    <KVMVirshDominfo>
      <Name></Name>
      <ID></ID>
      <State></State>
      <VCPUNumber></VCPUNumber>
      <VCPUTime></VCPUTime>
      <MemoryLimit></MemoryLimit>
      <UsedMemory></UsedMemory>
    <KVMVirshDominfo>
  </KVMVirshDominfos>
</Virtualization>
```

Table description

Item	Description
Feature name	Virtualization
Table name	KVMVirshDominfos

Table type	Multi-instance table
Row name	KVMVirshDominfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Full name of the virtural machine	N/A	String Length: 1 to 512 characters.	N/A
Id	Virtural machine id	N/A	String Length: 1 to 512 characters.	N/A
State	Virtural machine state	N/A	String Length: 1 to 512 characters.	N/A
VCPUNumber	Virtural machine VCPU number	N/A	String Length: 1 to 512 characters.	N/A
VCPUTime	Virtural machine VCPU time	N/A	String Length: 1 to 512 characters.	N/A
MemoryLimit	Virtural machine memory limit	N/A	String Length: 1 to 512 characters.	N/A
UsedMemory	Virtural machine used memory	N/A	String Length: 1 to 512 characters.	N/A

Contents

VLAN 1
VLAN/BatchVLANs 1
XML structure 1
Responsed XML structure 1
Table description 1
Columns 1
Responsed columns 2

VLAN

VLAN/BatchVLANs

This table is used to batch create or delete VLANs.

XML structure

```
<VLAN>
  <BatchVlans>
    <CreateVlanList></CreateVlanList>
    <DestroyVlanList></DestroyVlanList>
  </BatchVlans>
</VLAN>
```

Responsed XML structure

```
<VLAN>
  <BatchVlans>
    <CreateVlanList></CreateVlanList>
    <DestroyVlanList></DestroyVlanList>
  </BatchVlans>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	BatchVlans
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions	Remarks
CreateVlanList	List of VLANs to create	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma	Example: 2,3,5-8,10-20.

Column name	Column description	Data type and restrictions	Remarks
		or hyphen, or include any whitespace characters.	
DestoryVlanList	List of VLANs to delete	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20.

Responsed columns

Column name	Column description	Data type and restrictions	Remarks
CreateVlanList	List of VLANs that have been created successfully	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20. Responsed only when CreateVlanList is submitted.
DestoryVlanList	List of VLANs that have been deleted successfully	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20. Responsed only when DestoryVlanList is submitted.

Contents

VLAN 3

VLAN/VLANs 3
XML structure 3
Table description 3
Columns 3
VLAN/AccessInterfaces 5
XML structure 5
Table description 5
Columns 6
VLAN/TrunkInterfaces 6
XML structure 6
Table description 6
Columns 7
VLAN/HybridInterfaces 7
XML structure 7
Table description 7
Columns 8
VLAN/QinQ 9
XML structure 9
Table description 9
Columns 9
VLAN/QinQPorts 10
XML structure 10
Table description 10
Columns 10
VLAN/VLANnetworkNto1mapping 11
XML structure 11
Table description 12
Columns 12
VLAN/VLAN1to1mapping 12
XML structure 12
Table description 13
Columns 13
VLAN/VLANuserNto1mapping 13
XML structure 13
Table description 14
Columns 14
VLAN/VLAN1to2mapping 14
XML structure 15
Table description 15
Columns 15
VLAN/VLAN2to2mapping 16
XML structure 16
Table description 16
Columns 16
VLAN/VLAN0to2mapping 17
XML structure 17
Table description 17
Columns 18
VLAN/VLAN2to3mapping 18
XML structure 18
Table description 18
Columns 19
VLAN/VoiceInfo 19
XML structure 19
Table description 20
Columns 20

VLAN/VoiceOUI ····· 20
XML structure ····· 20
Table description ····· 21
Columns ····· 21
VLAN/VoicePorts ····· 21
XML structure ····· 21
Table description ····· 22
Columns ····· 22
VLAN/MACPorts ····· 23
XML structure ····· 23
Table description ····· 23
Columns ····· 23
VLAN/VLANGroups ····· 24
XML structure ····· 24
Table description ····· 24
Columns ····· 24

VLAN

VLAN/VLANs

This table contains basic VLAN information.

XML structure

```
<VLAN>
  <VLANs>
    <VLANID>
      <ID></ID>
      <Description></Description>
      <Name></Name>
      <AccessPortList></AccessPortList>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4Mask></Ipv4Mask>
      </Ipv4>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </BroadcastSuppression>
    </VLANID>
  </VLANs>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLANID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	VLAN description	N/A	String. Length: 1 to 255 characters. Default: **VLAN** *vlan-id*. The *vlan id* argument uses the four-digit form. If the VLAN ID has less than four digits, leading zeros are added.	Example: VLAN 0001.
Name	VLAN name	N/A	String. Length: 1 to 32 characters. Default: **VLAN** *vlan-id*. The *vlan id* argument uses the four-digit form. If the VLAN ID has less than four digits, leading zeros are added.	Example: VLAN 0001.
AccessPortList	Access port list of the VLAN	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a VLAN does not have an access port list.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table.
Ipv4	IPv4 address of the VLAN interface	Data structure	Members include: • Ipv4Address. • Ipv4Mask.	You must configure both the IP address and mask if the operation is **merge**, **create**, or **replace**. You can configure only the IP address if the operation is **delete** or **remove**.
Ipv4Address	IPv4 address of the VLAN interface	N/A	String, dotted decimal notation.	Example: 1.1.1.1. When you perform the **merge**, **create**, or **replace** operation, the system creates the VLAN interface automatically if the VLAN interface has not been created.
Ipv4Mask	IPv4 address mask	N/A	String, dotted decimal notation.	Example: 55.255.255.0.
BroadcastSuppr	BroadcastSu	Data structure	Members include:	

Column name	Column description	Column type	Data type and restrictions	Remarks
ession	ppression of a VLAN		• ConfigValue. • Unit	
ConfigValue	Config broadcast suppression value of a VLAN	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum rate. • kbps: 0 to the maximum rate	Only support config one unit at the same time
Unit	Broadcast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	The Value of Each type can config see ConfigValue

VLAN/AccessInterfaces

This table contains information about Access ports.

XML structure

```
<VLAN>
  <AccessInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PVID></PVID>
    </Interface>
  </AccessInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	AccessInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in *Ifmgr NETCONF XML API Configuration Reference*.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/TrunkInterfaces

This table contains information about Trunk ports.

XML structure

```
<VLAN>
  <TrunkInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PermitVlanList></PermitVlanList>
      <PVID></PVID>
    </Interface>
  </TrunkInterfaces>
</VLAN>
```

Table description

Item	**Description**
Feature name	VLAN
Table name	TrunkInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in *Ifmgr NETCONF XML API Configuration Reference*.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<PermitVlanList base:incremental="true ">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/HybridInterfaces

This table contains information about Hybrid ports.

XML structure

```
<VLAN>
  <HybridInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
      <PVID></PVID>
    </Interface>
  </HybridInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	HybridInterfaces

Item	Description
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in *Ifmgr NETCONF XML API Configuration Reference*.
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **TaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<UntaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **UntaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<TaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/QinQ

This table contains QinQ information of all ports.

XML structure

```
<VLAN>
  <QinQ>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
  </QinQ>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQ
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTPID	TPID value in the service VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1.
CustomerTPID	TPID value in the customer VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1.

Table 1 Reserved EtherType values

Protocol type	Value
ARP	2054
PUP	512
RARP	32821
IP	2048
IPv6	34525
PPPoE	34915/34916
MPLS	34887/34888

IPX/SPX	33079
IS-IS	32768
LACP	34825
LLDP	35020
802.1X	34958
802.1ag	35074
Cluster	34983
Reserved	65533/65534/65535

VLAN/QinQPorts

This table contains QinQ information for a port.

XML structure

```
<VLAN>
  <QinQPorts>
    <Interface>
      <IfIndex></IfIndex>
      <QinQ></QinQ>
      <ServiceTPID></ServiceTPID>
      <CustomerTPID></CustomerTPID>
      <TransVlanList></TransVlanList>
    </Interface>
  </QinQPorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see Ifmgr in *Ifmgr NETCONF XML API Configuration Reference*.
QinQ	Whether QinQ is enabled on the port.	N/A	Boolean: • **true** • **false**	N/A
ServiceTPID	TPID value in the service VLAN tag on the port.	N/A	Unsigned integer. Value range:1 to 65535.	Excluding the reserved EtherType values listed in Table 1.
CustomerTPID	TPID value in the customer VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1.
TransVlanList	List of transparent VLANs on the port.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. This VLANs cannot exist in CustomerOuterVlan on table VLAN/VLANMapping.

VLAN/VLANnetworkNto1mapping

This table contains network-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANnetworkNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <NNI></NNI>
    </Interface>
  </VLANnetworkNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANnetworkNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
			•	
			•	
NNI	Whether the network-side interface for VLAN mapping is enabled on the port.	N/A	Boolean: • **true** • **false**	N/A

VLAN/VLAN1to1mapping

This table contains VLAN one-to-one mapping information.

XML structure

```
<VLAN>
  <VLAN1to1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalVlan></OriginalVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLAN1to1mapping>
```

```
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1to1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OriginalVlan	Original VLAN for one to one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for one to one mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

VLAN/VLANuserNto1mapping

This table contains user-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANuserNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalStartVlan></OriginalStartVlan>
      <OriginalEndVlan></OriginalEndVlan>
      <TranslatedVlan></TranslatedVlan>
```

```
    </Interface>
  </VLANuserNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANuserNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OriginalStartVlan	Start VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
Original EndVlan	End VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for many-to-one VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN1to2mapping

This table contains one-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN1to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <CustomerStartVlan></CustomerStartVlan>
      <CustomerEndVlan></CustomerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN1to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1To2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CustomerStartVlan	Start VLAN of the customer VLAN for one-to-two vlan mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
CustomerEndVlan	End VLAN of the customer VLAN for one-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NestedVlan	Nest VLAN for one-to-two VLAN	N/A	Unsigned integer.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	mapping.		Value range: 1 to 4094.	

VLAN/VLAN2to2mapping

This table contains VLAN two-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN2to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterVlan></OuterVlan>
      <InnerVlan></InnerVlan>
      <TranslatedOuterVlan></TranslatedOuterVlan>
      <TranslatedInnerVlan></TranslatedInnerVlan>
    </Interface>
  </VLAN2to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
OuterVlan	Outer VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerVlan	Inner VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedOuterVlan	Translated outer VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedInnerVlan	Translated inner VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN0to2mapping

This table contains zero-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN0to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <ServiceOuterVlan></ServiceOuterVlan>
      <ServiceInnerVlan></ServiceInnerVlan>
    </Interface>
  </VLAN0to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN0to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ServiceOuterVlan	Outer service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
ServiceInnerVlan	Inner service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to3mapping

This table contains two-to-three VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN2to3mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterStartVlan></OuterStartVlan>
      <OuterEndVlan></OuterEndVlan>
      <InnerStartVlan></InnerStartVlan>
      <InnerEndVlan></InnerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN2to3mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to3mapping
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OuterStartVlan	Start VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OuterEndVlan	End VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
InnerStartVlan	Start VLAN of the inner vlan for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerEndVlan	End VLAN of the inner VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
NestedVlan	Nest VLAN for two-to-three VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VoiceInfo

This table contains voice VLAN information.

XML structure

```
<VLAN>
  <VoiceInfo>
```

```
    <AgingTime></AgingTime>
    <LLDPTrack></LLDPTrack>
    <Mode></Mode>
  </VoiceInfo>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Voice VLAN aging time.	N/A	Unsigned integer, in minutes. Value range: 5 to 43200 minutes.	By default, the aging time is 1440 minutes.
LLDPTrack	Whether LLDP is enabled for automatic IP phone discovery.	N/A	Boolean: • **true** • **false**	N/A
Mode	Voice VLAN security mode.	N/A	Enumeration: • **1—Security.** • 2—**Normal.**	By default, the voice VLAN security mode is enabled.

VLAN/VoiceOUI

This table contains voice VLAN OUI address information.

XML structure

```
<VLAN>
  <VoiceOUI>
    <OUI>
      <Address></Address>
      <Mask></Mask>
      <Description></Description>
    </OUI>
  </VoiceOUI>
```

```
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceOUI
Table type	Multi-instance table
Row name	OUI
Restrictions	This table does not support replace operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Source MAC address of voice traffic	Index	Six groups of two hexadecimal digits, hyphen-separated.	For example, 12-34-12-34-12-34.
Mask	Valid length of the OUI address by a mask.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	The mask contains consecutive 1s and 0s. For example, FF-FF-00-00-00-00.
Description	OUI address description.	N/A	Case-sensitive string of 1 to 30 characters.	N/A

VLAN/VoicePorts

This table contains voice VLAN information for a port.

XML structure

```
<VLAN>
  <VoicePorts>
    <Interface>
      <IfIndex></IfIndex>
      <Vlan></Vlan>
      <Mode></Mode>
      <QoS>
        <Trust></Trust>
        <CoS></CoS>
        <DSCP></DSCP>
      </QoS>
    </Interface>
  </VoicePorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoicePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in *Ifmgr NETCONF XML API Configuration Reference*.
Vlan	Voice VLAN ID on the port.	N/A	Unsigned integer. Value range: 2 to 4094	Valid only on a hybrid or trunk port operating in automatic voice VLAN assignment mode.
Mode	Voice VLAN assignment mode on the port:.	N/A	Enumeration: • **1**—Automatic. • **2**—Manual.	By default, a port operates in automatic voice VLAN assignment mode.
QoS	QoS information of voice VLAN on the port.	N/A	Include: • **Trust.** • **CoS.** • **DSCP.**	N/A
Trust	Whether the Qos priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: • **true** • **false**	When a port trusts the QoS priority settings in incoming voice VLAN packets, the port does not modify their CoS and DSCP values.
CoS	CoS value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 7	Valid only when the Trust label above is false. The value is 6

Column name	Column description	Column type	Data type and restrictions	Remarks
				by default.
DSCP	DSCP value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 63	Valid only when the Trust label above is false,. The value is 46 by default.

VLAN/MACPorts

This table contains MAC-based VLAN information for a port.

XML structure

```
<VLAN>
  <MACPorts>
    <Interface>
      <IfIndex></IfIndex>
      <MACVlanEnable></MACVlanEnable>
      <MACVlanTriggerEnable></MACVlanTriggerEnable>
    </Interface>
  </MACPorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	MACPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only ports where MAC-based VLAN can be configured are included. Some versions support interface name. For relevant information, see the XSD document of your product. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MACVlanEnable	MAC-based vlan enable on the port.	N/A	Enumeration: • **1**—Disable. • **2**—Enable.	N/A
MACVlanTrigger Enable	MAC-based vlan Trigger enable on the port.	N/A	Enumeration: • **1**—Disable. • **2**—Enable.	N/A

VLAN/VLANGroups

This table contains information about VLAN groups.

XML structure

```
<VLAN>
  <VLANGroups>
    <VLANGroup>
      <GroupName></GroupName>
      <VlanList></VlanList>
    </VLANGroup>
  </VLANGroups>
</VLAN>
```

Table description

Item	**Description**
Feature name	VLAN
Table name	VLANGroups
Table type	Multi-instance table
Row name	VLANGroup
Restrictions	N/A
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	VLAN group name	Index	String.	Case sensitive. The

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	first character must be a letter.
VlanList	VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<VlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

Contents

VLAN 1

VLAN/VLANs 1
XML structure 1
Table description 1
Columns 2
VLAN/Interfaces 4
XML structure 4
Table description 4
Columns 4
VLAN/AccessInterfaces 6
XML structure 6
Table description 6
Columns 6
VLAN/TrunkInterfaces 7
XML structure 7
Table description 7
Columns 7
VLAN/HybridInterfaces 8
XML structure 8
Table description 8
Columns 8
VLAN/QinQ 9
XML structure 9
Table description 9
Columns 10
VLAN/QinQPorts 10
XML structure 10
Table description 10
Columns 11
VLAN/QinQCapabilities 11
XML structure 11
Table description 12
Columns 12
VLAN/VLANnetworkNto1mapping 12
XML structure 12
Table description 13
Columns 13
VLAN/VLAN1to1mapping 13
XML structure 13
Table description 14
Columns 14
VLAN/VLANuserNto1mapping 14
XML structure 14
Table description 15
Columns 15
VLAN/VLAN1to2mapping 15
XML structure 16
Table description 16
Columns 16
VLAN/VLAN2to2mapping 17
XML structure 17
Table description 17
Columns 17
VLAN/VLAN0to2mapping 18
XML structure 18
Table description 18
Columns 18

VLAN/VLAN2to3mapping 19
XML structure 19
Table description 19
Columns 20
VLAN/VoiceInfo 20
XML structure 20
Table description 21
Columns 21
VLAN/VoiceOUI 21
XML structure 21
Table description 22
Columns 22
VLAN/VoicePorts 22
XML structure 22
Table description 23
Columns 23
VLAN/MACPorts 24
XML structure 24
Table description 24
Columns 24
VLAN/VLANGroups 25
XML structure 25
Table description 25
Columns 26

VLAN

VLAN/VLANs

This table contains basic VLAN information.

XML structure

```
<VLAN>
  <VLANs>
    <VLANID>
      <ID></ID>
      <Description></Description>
      <Name></Name>
      <RouteIfIndex></RouteIfIndex>
      <UntaggedPortList></UntaggedPortList>
      <TaggedPortList></TaggedPortList>
      <AccessPortList></AccessPortList>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4Mask></Ipv4Mask>
      </Ipv4>
      <Shared></Shared>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </BroadcastSuppression>
    </VLANID>
  </VLANs>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLANID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	VLAN description	N/A	String. Length: 1 to 255 characters.	N/A
Name	VLAN name	N/A	String. Length: 1 to 32 characters.	N/A
RouteIfIndex	VLAN interface index	N/A	Unsigned integer.	This column is not displayed if the VLAN interface does not exist. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UntaggedPortList	List of ports that are assigned to the VLAN as untagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic with the VLAN tag removed.
TaggedPortList	List of ports that are assigned to the VLAN as tagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic without removing the VLAN tag.
AccessPortList	Access port list of the	N/A	Number string.	Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
	VLAN		It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a VLAN does not have an access port list.	1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table.
Ipv4	IPv4 address of the VLAN interface	Data structure	Members include: • Ipv4Address. • Ipv4Mask.	You must configure both the IP address and mask if the operation is **merge**, **create**, or **replace**. You can configure only the IP address if the operation is **delete** or **remove**.
Ipv4Address	IPv4 address of the VLAN interface	N/A	String, dotted decimal notation.	Example: 1.1.1.1. When you perform the **merge**, **create**, or **replace** operation, the system creates the VLAN interface automatically if the VLAN interface has not been created.
Ipv4Mask	IPv4 address mask	N/A	String, dotted decimal notation.	Example: 55.255.255.0.
Shared	Whether the VLAN is shared	N/A	Boolean: • true • false	N/A
BroadcastSuppression	BroadcastSuppression of a VLAN	Data structure	Members include: • ConfigValue. • ActualValue • Unit	
ConfigValue	Config broadcast suppression value of a VLAN	N/A	Unsigned integer. Value range: • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum rate. • kbps: 0 to the maximum rate	Only support config one unit at the same time
ActualValue	Actual broadcast suppression value of a VLAN	N/A	Unsigned integer. Value range: • **ratio: 0 to 100**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• pps: 0 to 1.4881 * the maximum rate. kbps: 0 to the maximum rate	
Unit	Broadcast suppression unit	N/A	Enumeration: • **1**—ratio • **2**—pps • **3**—kbps	The Value of Each type can config see ConfigValue

VLAN/Interfaces

This table contains VLAN information for a port.

XML structure

```
<VLAN>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <LinkType></LinkType>
      <PVID></PVID>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
      <PermitVlanList></PermitVlanList>
    </Interface>
  </Interfaces>
</VLAN>
```

Table description

Item	**Description**
Feature name	VLAN
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions

Column name	Column description	Column type	Data type and restrictions	Remarks
				support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of the interface, including the interface type and number	N/A	String. Length: 2 to 47 characters.	N/A
LinkType	Port link type	N/A	Enumeration: • **1**—Access. • **2**—Trunk. • **3**—Hybrid.	N/A
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available only for trunk and hybrid ports.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any	Example: 1,2,3,5-8,10-20. The column is available only for trunk ports.

Column name	Column description	Column type	Data type and restrictions	Remarks
			whitespace characters.	

VLAN/AccessInterfaces

This table contains information about Access ports.

XML structure

```
<VLAN>
  <AccessInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PVID></PVID>
    </Interface>
  </AccessInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	AccessInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/TrunkInterfaces

This table contains information about Trunk ports.

XML structure

```
<VLAN>
  <TrunkInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PermitVlanList></PermitVlanList>
      <PVID></PVID>
    </Interface>
  </TrunkInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	TrunkInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or	N/A

			include any whitespace characters.	
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/HybridInterfaces

This table contains information about Hybrid ports.

XML structure

```
<VLAN>
  <HybridInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
      <PVID></PVID>
    </Interface>
  </HybridInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	HybridInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UntaggedVlanList	List of VLANs to	N/A	Number string.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	which the port is assigned as an untagged VLAN member		It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	N/A
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/QinQ

This table contains QinQ information of all ports.

XML structure

```
<VLAN>
  <QinQ>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
  </QinQ>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQ
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTPID	TPID value in the service VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CustomerTPID	TPID value in the customer VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

VLAN/QinQPorts

This table contains QinQ information for a port.

XML structure

```
<VLAN>
  <QinQPorts>
    <Interface>
      <IfIndex></IfIndex>
      <QinQ></QinQ>
      <ServiceTPID></ServiceTPID>
      <CustomerTPID></CustomerTPID>
      <TransVlanList></TransVlanList>
    </Interface>
  </QinQPorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QinQ	Whether QinQ is enabled on the port.	N/A	Boolean: • **true** • **false**	N/A
ServiceTPID	The TPID value in the service VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CustomerTPID	The TPID value in the customer VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TransVlanList	List of transparent VLANs on the port.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. This VLANs cannot exist in CustomerOuterVlan on table VLAN/VLANMapping.

VLAN/QinQCapabilities

This table contains QinQ capabilities information.

XML structure

```
<VLAN>
  <QinQCapabilities>
    <GlobalServiceTPID></GlobalServiceTPID>
    <GlobalCustomerTPID></GlobalCustomerTPID>
    <QinQState></QinQState>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
    <TransVlan></TransVlan>
```

```
  </QinQCapabilities>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQCapabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalServiceTPID	Whether service TPID for all interfaces can be configured.	N/A	Boolean: • **true** • **false**	N/A
GlobalCustomerTPID	Whether customer TPID for all interfaces can be configured.	N/A	Boolean: • **true** • **false**	N/A
QinQState	Whether QinQ state can be configured on ports.	N/A	Boolean: • **true** • **false**	N/A
ServiceTPID	Whether service TPID can be configured on ports.	N/A	Boolean: • **true** • **false**	N/A
CustomerTPID	Whether customer TPID can be configured on ports.	N/A	Boolean: • **true** • **false**	N/A
TransVlan	Whether transparent VLAN can be configured on ports.	N/A	Boolean: • **true** • **false**	N/A

VLAN/VLANnetworkNto1mapping

This table contains network-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANnetworkNto1mapping>
```

```
    <Interface>
      <IfIndex></IfIndex>
      <NNI></NNI>
    </Interface>
  </VLANnetworkNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANnetworkNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
NNI	Whether the network-side interface for many-to-one VLAN mapping is enabled on the port.	N/A	Boolean: • **true** • **false**	N/A

VLAN/VLAN1to1mapping

This table contains one-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN1to1mapping>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <OriginalVlan></OriginalVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLAN1to1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1to1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OriginalVlan	Original VLAN for one to one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for one to one mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

VLAN/VLANuserNto1mapping

This table contains user-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANuserNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
```

```
      <OriginalStartVlan></OriginalStartVlan>
      <OriginalEndVlan></OriginalEndVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLANuserNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANuserNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OriginalStartVlan	Start VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OriginalEndVlan	End VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for many-to-one VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN1to2mapping

This table contains one-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN1to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <CustomerStartVlan></CustomerStartVlan>
      <CustomerEndVlan></CustomerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN1to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CustomerStartVlan	Start VLAN of the customer VLAN for one-to-two vlan mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
CustomerEndVlan	End VLAN of the customer VLAN for one-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NestedVlan	Nest VLAN for one-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to2mapping

This table contains two-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN2to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterVlan></OuterVlan>
      <InnerVlan></InnerVlan>
      <TranslatedOuterVlan></TranslatedOuterVlan>
      <TranslatedInnerVlan></TranslatedInnerVlan>
    </Interface>
  </VLAN2to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OuterVlan	Outer VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerVlan	Inner VLAN for two-to-two VLAN	Index	Unsigned integer.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	mapping.		Value range: 1 to 4094.	
TranslatedOuterVlan	Translated outer VLAN for two-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedInnerVlan	Translated inne VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN0to2mapping

This table contains zero-to-two VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN0to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <ServiceOuterVlan></ServiceOuterVlan>
      <ServiceInnerVlan></ServiceInnerVlan>
    </Interface>
  </VLAN0to2mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN0to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				“Appendix” in Ifmgr NETCONF XML API Configuration Reference.
ServiceOuterVlan	Outer service VLAN for zero-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
ServiceInnerVlan	Inner service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to3mapping

This table contains two-to-three VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN2to3mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterStartVlan></OuterStartVlan>
      <OuterEndVlan></OuterEndVlan>
      <InnerStartVlan></InnerStartVlan>
      <InnerEndVlan></InnerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN2to3mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to3mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
OuterStartVlan	Start VLAN of ther outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OuterEndVlan	End VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
InnerStartVlan	Start VLAN of the inner vlan for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerEndVlan	End VLAN of the inner VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
NestedVlan	Nest VLAN for two-to-three VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VoiceInfo

This table contains voice VLAN basic information.

XML structure

```
<VLAN>
  <VoiceInfo>
    <AgingTime></AgingTime>
    <LLDPTrack></LLDPTrack>
    <Mode></Mode>
    <CurNum></CurNum>
  </VoiceInfo>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Voice VLAN aging time.	N/A	Unsigned integer, in minutes. Value range: 5 to 43200 minutes.	By default, the aging time is 1440 minutes.
LLDPTrack	Whether LLDP is enabled for automatic IP phone discovery.	N/A	Boolean: • **true** • **false**	N/A
Mode	Voice VLAN security mode.	N/A	Enumeration: • **1—Security** • 2—**Normal**	By default, the voice VLAN security mode is enabled.
CurNum	Number of existing voice VLANs.	N/A	Unsigned integer.	N/A

VLAN/VoiceOUI

This table contains voice VLAN OUI address information.

XML structure

```
<VLAN>
  <VoiceOUI>
    <OUI>
      <Address></Address>
      <Mask></Mask>
      <Description></Description>
    </OUI>
  </VoiceOUI>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceOUI
Table type	Multi-instance table
Row name	OUI
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Source MAC address of voice traffic	Index	Six groups of two hexadecimal digits, hyphen-separated.	For example, 1234-1234-1234.
Mask	Valid length of the OUI address by a mask.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	The mask contains consecutive 1s and 0s. For example, FFFF-0000-0000.
Description	OUI address description.	N/A	Case-sensitive string of 1 to 30 characters.	N/A

VLAN/VoicePorts

This table contains voice VLAN information for a port.

XML structure

```
<VLAN>
  <VoicePorts>
    <Interface>
      <IfIndex></IfIndex>
      <Vlan></Vlan>
      <Mode></Mode>
      <QoS>
        <Trust></Trust>
        <CoS></CoS>
        <DSCP></DSCP>
      </QoS>
    </Interface>
  </VoicePorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoicePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only includes ports where voice VLAN can be configured. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Vlan	Voice VLAN ID on the port.	N/A	Unsigned integer. Value range: 2 to 4094	Valid only on a hybrid or trunk port operating in automatic voice VLAN assignment mode.
Mode	Voice VLAN assignment mode on the port:.	N/A	Enumeration: • **1**—Automatic. • **2**—Manual.	By default, a port operates in automatic voice VLAN assignment mode.
QoS	QoS information of voice VLAN on the port.	N/A	Include: • **Trust.** • **CoS.** • **DSCP.**	N/A
Trust	Whether the Qos priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: • **true** • **false**	When a port trusts the QoS priority settings in incoming voice VLAN packets, the port does not modify their CoS and DSCP values.

Column name	Column description	Column type	Data type and restrictions	Remarks
CoS	CoS value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 7	Valid only when the Trust label above is false. The value is 6 by default.
DSCP	The DSCP values for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 63	Valid only when the Trust label above is false. The value is 46 by default.

VLAN/MACPorts

This table contains MAC-based VLAN information for a port.

XML structure

```
<VLAN>
  <MACPorts>
    <Interface>
      <IfIndex></IfIndex>
      <MACVlanEnable></MACVlanEnable>
      <MACVlanTriggerEnable></MACVlanTriggerEnable>
    </Interface>
  </MACPorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	MACPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only ports where MAC-based VLAN can be configured are included. Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
MacVlanEnable	MAC-based vlan enable on the port.	N/A	Enumeration: • **1**—Disable. • **2**—Enable.	N/A
MACVlanTrigger Enable	MAC-based vlan Trigger enable on the port.	N/A	Enumeration: • **1**—Disable. • **2**—Enable.	N/A

VLAN/VLANGroups

This table contains information about VLAN groups.

XML structure

```
<VLAN>
  <VLANGroups>
    <VLANGroup>
      <GroupName></GroupName>
      <VlanList></VlanList>
    </VLANGroup>
  </VLANGroups>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANGroups
Table type	Multi-instance table
Row name	VLANGroup
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	VLAN group name	Index	String. Length: 1 to 31 characters.	Case sensitive. The first character must be a letter.
VlanList	VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<VlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

Vlan 2
Vlan/Vlans 2
Vlan/AccessInterfaces 5
Vlan/VoiceInfo 6
Vlan/VoiceOUI 7
Vlan/VoicePorts 7
Vlan/VLANMapping 9
Vlan/QinQ 13

Vlan

Vlan/Vlans

Message	Explanation
Please set the link type of the port to access first. 请先把接口链路类型改成Access。	During executing merge operation for vlan type of interfaces info table, please set the link type of the port to access first. 在对接口信息表的 vlan type 进行 Merge 操作时，请先把接口链路类型改成 Access。
The VLAN doesn't support the operation. 该VLAN不支持当前操作。	During executing merge operation for vlan type of interfaces info table, the VLAN doesn't support it. 在对接口信息表的 vlan type 进行 Merge 操作时，该 VLAN 不支持当前操作。
Can't change the link type of %s because it is not an access port. 不能更改%s的链路类型因为它当前不是Access端口。	During executing merge operation for vlan type of interfaces info table, it can't change the link type because it is not an access port. 在对接口信息表的 vlan type 进行 Merge 操作时，不能更改该端口的链路类型因为它当前不是 Access 端口。
Failed to configure some VLANs. 部分VLAN设置失败。	During executing set operation for adding vlan for port by vlan list, it failed to configure some VLANs. 根据 vlanlist 对端口进行添加 vlan ，部分 VLAN 设置失败。
Can't assign ports to or remove ports from the default VLAN. 不能向缺省VLAN添加或者删除端口。	During executing merge operation for port range of vlan info table, it can't assign ports to or remove ports from the default VLAN. 对 vlan 信息表的 portrange 字段进行 merge 操作时，不能向缺省 VLAN 添加或者删除端口。
Invalid IP address or subnet mask. 无效IP地址或子网掩码。	During executing merge operation for IpInfo of vlan info table, the IP address or subnet mask is invalid. 对 vlan 信息表的 portrange 字段进行 merge 操作时，无效 IP 地址或子网掩码。
The IP address you entered is in the same subnet as the IP address of another interface. 不同接口的IP地址不能在相同网段。	暂未引用

The VLAN name already exists. VLAN名称已经存在。	During executing merge operation for vlan name of vlan info table, it already exists. 对 vlan 信息表的 VlanName 字段进行 merge 操作时，VLAN 名称已经存在。
Cannot use the default name of another VLAN. 不能配置成其它VLAN的默认VLAN名称。	During executing merge operation for vlan name of vlan info table, it cannot use the default name of another VLAN. 对 vlan 信息表的 VlanName 字段进行 merge 操作时，不能配置成其它 VLAN 的默认 VLAN 名称。
The port %u doesn't exist. 端口%u不存在。	During executing merge operation for port range of vlan info table, the port doesn't exist. 对 vlan 信息表的 portrange 字段进行 merge 操作时，该端口不存在。
The port %u is not an access port. 端口%u不是一个Access端口。	During executing merge operation for port range of vlan info table, the port is not an access port. 对 vlan 信息表的 portrange 字段进行 merge 操作时，该端口不是一个 Access 端口。
Allocated VLANs can't be set as the port PVID. 已经被分配的VLAN不能设置成端口PVID。	During executing merge operation for port range of vlan info table, allocated VLANs can't be set as the port PVID. 对 vlan 信息表的 portrange 字段进行 merge 操作时，已经被分配的 VLAN 不能设置成端口 PVID。
Maximum number of addresses on the interface already reached. 接口下的已配置的地址数达到上限。	During executing merge operation for IpInfo of vlan info table, the maximum number of addresses on the interface already reached. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，接口下的已配置的地址数达到上限。
Please configure the primary address first. 请先配置主地址。	During executing merge operation for IpInfo of vlan info table, please configure the primary address first. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，请先配置主地址。
Please delete secondary addresses first. 请先删除从地址。	During executing merge operation for IpInfo of vlan info table, please delete secondary addresses first. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，请先删除从地址。
Address types don't match. IP地址类型不匹配。	During executing merge operation for IpInfo of vlan info table, address types don't match.

	对 vlan 信息表的 IpInfo 字段进行 merge 操作时，IP 地址类型不匹配。
The IP address doesn't exist. 该IP地址不存在。	During executing merge operation for IpInfo of vlan info table, the IP address doesn't exist. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，该 IP 地址不存在。
Operation failed. 操作失败。	During executing merge operation for IpInfo of vlan info table, the operation failed. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，操作失败。
This IP address has been assigned to another MDC. 该IP地址已经分配给其它MDC。	During executing merge operation for IpInfo of vlan info table, this IP address has been assigned to another MDC. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，该 IP 地址已经分配给其它 MDC。
Can't change a primary IP address to a secondary IP address. 不能直接将主地址转成从地址。	During executing merge operation for IpInfo of vlan info table, it can't change a primary IP address to a secondary IP address. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，不能直接将主地址转成从地址。
This address conflicts with the IP address of another interface. 与其他接口地址冲突。	During executing merge operation for IpInfo of vlan info table, this address conflicts with the IP address of another interface. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，与其他接口地址冲突。
Operation is not supported. 操作不支持。	During executing set operation for voice-vlan qos, the operation is not supported. 对 vlan 信息表的 IpInfo 字段进行 merge 操作时，操作不支持。
The VLAN doesn't exist. 该VLAN不存在。	During executing merge operation for vlans table, the VLAN doesn't exist. 在对 vlans 信息表进行 Merge 操作时，该 VLAN 不存在。
MAC VLAN can be enabled on only hybrid ports. MAC VLAN 功能仅支持在 Hybrid 端口上配置。	During executing set operation for mac ports table, MAC VLAN can be enabled on only hybrid ports. 在对 mac ports 表进行设置操作时，MAC VLAN 功能仅支持在 Hybrid 端口上配置。
Please disable MAC VLAN trigger first.	During executing set operation for mac ports table,

请先关闭端口上的 MAC VLAN 动态触发功能。	Please disable MAC VLAN trigger first. 在对 mac ports 表进行设置操作时，请先关闭端口上的 MAC VLAN 动态触发功能。
Operation is not supported. 端口不支持开启 MAC VLAN 功能。	During executing set operation for mac ports table, Operation is not supported. 在对 mac ports 表进行设置操作时，端口不支持开启 MAC VLAN 功能。
Cannot delete the system default VLAN. 无法删除系统默认 VLAN。	During executing set operation for vlans table, the system default VLAN cannot be deleted. 在对 VLAN 表进行设置操作时，不能删除系统默认 VLAN。
Please specify the ROLT interface of its member ports. 请同时输入 OLT 成员端口对应的 OLT 冗余接口。	During executing AccessPortList operation for vlans table, cannot specify only the OLT member ports. 在对 VLAN 表进行 AccessPortList 操作时，不能只输入 OLT 成员接口。

Vlan/AccessInterfaces

Message	Explanation
The VLAN doesn't exist. 该VLAN不存在。	During executing merge operation for PVID of AccessInterfaces table, the VLAN doesn't exist. 在对 Access 接口信息表的 PVID 进行 Merge 操作时，该 VLAN 不存在。
This is not a hybrid port. 不是一个Hybrid端口。	During executing merge operation for PVID of AccessInterfaces table, this is not a hybrid port. 在对 Access 接口信息表的 PVID 进行 Merge 操作时，不是一个 Hybrid 端口。
This is not a trunk port. 不是一个Trunk端口。	During executing merge operation for PVID of AccessInterfaces table, this is not a trunk port. 在对 Access 接口信息表的 PVID 进行 Merge 操作时，不是一个 Trunk 端口。
This is not an access port. 不是一个Access端口。	During executing merge operation for PVID of AccessInterfaces table, this is not an access port. 在对 Access 接口信息表的 PVID 进行 Merge 操作时，不是一个 Access 端口。
The VLAN doesn't exist.	During executing merge operation for PVID of

该VLAN不存在。	AccessInterfaces table, the VLAN doesn't exist. 在对 Access 接口信息表的 PVID 进行 Merge 操作时，该 VLAN 不存在。
The operation failed because the OLT interface is a member port of an ROLT interface. 操作失败，该接口已经是 OLT 冗余口的成员端口。	During executing set operation for interfaces table, the operation failed because the OLT interface is a member port of an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，该接口已经是 OLT 冗余口成员端口。
The operation failed because the OLT interface is joining or leaving an ROLT interface. 操作失败，接口正在加入或退出 OLT 冗余口。	During executing set operation for interfaces table, the operation failed because the OLT interface is joining or leaving an ROLT interface. 在对接口信息表进行 set 操作时，操作失败，接口正在加入或退出 OLT 冗余口。

Vlan/VoiceInfo

Message	Explanation
Can't change the port mode because the port is assigned to the voice VLAN. 端口已加入语音VLAN，不能切换端口模式。	During executing set operation for mode of voice info table, it can't change the port mode because the port is assigned to the voice VLAN. 在对 Voice 信息表的 mode 进行设置操作时，该端口已加入语音 VLAN，故不能切换端口模式。
Can't change the port mode because the access port is enabled with the voice VLAN feature. Access端口已使能语音VLAN，不能切换端口模式。	During executing set operation for mode of voice info table, it can't change the port mode because the access port is enabled with the voice VLAN feature. 在对 Voice 信息表的 mode 进行设置操作时，Access 端口已使能语音 VLAN，不能切换端口模式。
Can't change the voice VLAN mode to security, because some ports in the VLAN don't support this mode. 不能更改语音VLAN为安全模式，因为一些端口不支持语音VLAN安全模式。	During executing set operation for mode of voice info table, it can't change the voice VLAN mode to security, because some ports in the VLAN don't support this mode. 在对 Voice 信息表的 mode 进行设置操作时，不能更改语音 VLAN 为安全模式，因为一些端口不支持语音 VLAN 安全模式。
Please create the VLAN first. 请先创建该VLAN。	During executing set operation for voice info table, please create the VLAN first. 在对 Voice 信息表进行设置操作时，请先创建该 VLAN。

Vlan/VoiceOUI

Message	Explanation
Invalid MAC address. MAC地址不合法。	During executing set operation for address of voiceOUI table, the MAC address is invalid. 在对 VoiceOUI 信息表的 address 字段进行设置操作时，MAC 地址不合法。
Invalid OUI mask. OUI掩码错误。	During executing set operation for address of voiceOUI table, the OUI mask is invalid. 在对 VoiceOUI 信息表的 address 字段进行设置操作时，OUI 掩码错误。
Maximum number of OUI addresses already reached. 已到达OUI上限。	暂未引用
The OUI address already exists. 本OUI地址已存在。	During executing set operation for address of voiceOUI table, the OUI address already exists. 在对 VoiceOUI 信息表的 address 字段进行设置操作时，本 OUI 地址已存在。
Not enough resources available. 资源不足。	During executing set operation for address of voiceOUI table, no enough resources are available. 在对 VoiceOUI 信息表的 address 字段进行设置操作时，资源不足。

Vlan/VoicePorts

Message	Explanation
The VLAN is not a voice VLAN. 本VLAN不是语音VLAN。	During executing set operation for voice port table, the VLAN is not a voice VLAN. 在对 Voice port 信息表的进行设置操作时，本 VLAN 不是语音 VLAN。
Another voice VLAN has been enabled on this port. 本端口已经使能了另外一个语音VLAN。	During executing set operation for voice port table, another voice VLAN has been enabled on this port. 在对 Voice port 信息表的进行设置操作时，本端口已经使能了另外一个语音 VLAN。
Trunk and hybrid ports that are in automatic mode and enabled with the	During executing set operation for voice port table, trunk and hybrid ports that are in automatic mode

voice VLAN feature can't be added to or removed from the voice VLAN manually. 自动模式下，已使能了语音VLAN的Trunk或Hybrid端口不能手动加入、退出语音VLAN。	and enabled with the voice VLAN feature can't be added to or removed from the voice VLAN manually. 在对 Voice port 信息表的进行设置操作时，在自动模式下已使能了语音 VLAN 的 Trunk 或 Hybrid 端口不能手动加入、退出语音 VLAN。
Can't delete the voice VLAN. 语音VLAN不能删除。	暂未引用
Can't change the link type of trunk or hybrid ports that are enabled with the voice VLAN feature. 使能了语音VLAN的Trunk或Hybrid端口不能切换链路类型。	During executing set operation for vlan port table, it can't change the link type of trunk or hybrid ports that are enabled with the voice VLAN feature. 在对 Voice port 信息表的进行设置操作时，使能了语音 VLAN 的 Trunk 或 Hybrid 端口不能切换链路类型。
Can't configure QoS settings on ports that are enabled with the voice VLAN feature. 使能了语音VLAN的端口不能设置QoS参数。	During executing set operation for voice port table, it can't configure QoS settings on ports that are enabled with the voice VLAN feature. 在对 Voice port 信息表的进行设置操作时，使能了语音 VLAN 的端口不能设置 QoS 参数。
Can't configure nonstatic VLANs as voice VLANs. 非静态VLAN不能配置为语音VLAN。	During executing set operation for voice port table, it can't configure nonstatic VLANs as voice VLANs. 在对 Voice port 信息表的进行设置操作时，非静态 VLAN 不能配置为语音 VLAN。
Parameter settings conflict. 参数配置冲突。	During executing set operation for voice port table, parameter settings conflict. 在对 voice port 信息表的 VLANID 进行 Merge 操作时，参数配置冲突。
Can't enable the automatic mode on an access port. Access端口不能配置为自动模式。	During executing set operation for voice port table, it can't enable the automatic mode on an access port. 在对 voice port 信息表进行设置操作时，Access 端口不能配置为自动模式。
Can't enable the voice VLAN feature on trunk or hybrid ports that are operating in automatic mode and have been assigned to voice VLANs. 自动模式下，已加入语音VLAN的Trunk或Hybrid端口不能使能语音VLAN。	During executing set operation for voice port table, it can't enable the voice VLAN feature on trunk or hybrid ports that are operating in automatic mode and have been assigned to voice VLANs. 在对 voice port 信息表进行设置操作时，在自动模式下已加入语音 VLAN 的 Trunk 或 Hybrid 端口不能使能语音 VLAN。
Can't configure the system default VLAN as a voice VLAN.	During executing set operation for voice port table, it can't configure the system default VLAN as a voice

默认VLAN不能配置为语音VLAN。	VLAN. 在对 voice port 信息表进行设置操作时，默认 VLAN 不能配置为语音 VLAN。
Super VLANs don't support the configuration. Super VLAN不支持该配置。	During executing set operation for voice port table, super VLANs don't support the configuration. 在对 voice port 信息表进行设置操作时，Super VLAN 不支持该配置。
Can't configure protocol-based VLANs as voice VLANs. 协议VLAN不能配置为语音VLAN。	During executing set operation for voice port table, can't configure protocol-based VLANs as voice VLANs. 在对 voice port 信息表进行设置操作时，协议 VLAN 不能配置为语音 VLAN。

Vlan/VLANMapping

Message	Explanation
Can't enable network-side many-to-one VLAN mapping on the port, because user-side many-to-one VLAN mapping has been enabled. 接口已经配置了用户侧N:1 VLAN映射，不能再配置网络侧N:1 VLAN映射。	During executing set operation for VLAN Mapping table, can't enable network-side many-to-one VLAN mapping on the port, because user-side many-to-one VLAN mapping has been enabled. 在对 VLAN Mapping 映射表的进行设置操作时，接口已经配置了用户侧 N:1 VLAN 映射，不能再配置网络侧 N:1 VLAN 映射。
Can't enable user-side many-to-one VLAN mapping on the port, because network-side many-to-one VLAN mapping has been enabled. 接口已经配置了网络侧 N:1 VLAN 映射，不能再配置用户侧 N:1 VLAN 映射。	During executing set operation for VLAN Mapping table, can't enable user-side many-to-one VLAN mapping on the port, because network-side many-to-one VLAN mapping has been enabled. 在对 VLAN Mapping 映射表的进行设置操作时，接口已经配置了网络侧 N:1 VLAN 映射，不能再配置用户侧 N:1 VLAN 映射。
The input translated or nested VLANs conflict with existing VLAN mapping entries on the interface. 配置的转换后 VLAN 或添加的外层 VLAN 与接口已有 VLAN 映射表项冲突。	During executing set operation for VLAN Mapping table, the input translated or nested VLANs conflict with existing VLAN mapping entries on the interface. 在对 VLAN Mapping 映射表的进行设置操作时，配置的转换后 VLAN 或添加的外层 VLAN 与接口已有 VLAN 映射表项冲突。
The input original VLANs conflict with existing VLAN mapping entries on the interface. 配置的原始 VLAN 与接口已有 VLAN 映射表项	During executing set operation for VLAN Mapping table, the input original VLANs conflict with existing VLAN mapping entries on the interface.

冲突。	在对 VLAN Mapping 映射表的进行设置操作时，配置的原始 VLAN 与接口已有 VLAN 映射表项冲突。
The VLAN mapping configuration conflicts with QinQ transparent VLAN configuration on the interface. VLAN 映射的配置与接口上 QinQ 透传 VLAN 的配置冲突。	During executing set operation for VLAN Mapping table, the VLAN mapping configuration conflicts with QinQ transparent VLAN configuration on the interface. 在对 VLAN Mapping 映射表的进行设置操作时，VLAN 映射的配置与接口上 QinQ 透传 VLAN 的配置冲突。
The configuration conflicts with QinQ configuration. 配置与接口上 QinQ 的配置冲突。	During executing set operation for VLAN Mapping table, the configuration conflicts with QinQ configuration. 在对 VLAN Mapping 映射表的进行设置操作时，配置与接口上 QinQ 的配置冲突。
Failed to remove VLAN mapping configuration from the interface. Please make sure the removed VLANs are in the configured VLAN range. 取消 VLAN 映射的配置失败，请检查指定的 VLAN 范围。	During executing set operation for VLAN Mapping table, failed to remove VLAN mapping configuration from the interface. Please make sure the removed VLANs are in the configured VLAN range. 在对 VLAN Mapping 映射表的进行设置操作时，取消 VLAN 映射的配置失败，请检查指定的 VLAN 范围。
Configuration failed because of conflicts. 存在冲突，配置失败。	During executing set operation for VLAN Mapping table, configuration failed because of conflicts. 在对 VLAN Mapping 映射表的进行设置操作时，存在冲突，配置失败。
The operation is not supported on the port. 不支持本操作。	During executing set operation for VLAN Mapping table, the operation is not supported on the port. 在对 VLAN Mapping 映射表的进行设置操作时，不支持本操作。
Not enough resources for the operation on the interface. 硬件资源不足，配置失败。	During executing set operation for VLAN Mapping table, Not enough resources for the operation on the interface. 在对 VLAN Mapping 映射表的进行设置操作时，硬件资源不足，配置失败。
Can't execute the command multiple times on the interface. To modify the configuration, first remove the original configuration. 不支持多次执行本命令，请先取消原有配置后重新执行。	During executing set operation for VLAN Mapping table, can't execute the command multiple times on the interface. To modify the configuration, first remove the original configuration. 在对 VLAN Mapping 映射表的进行设置操作时，不支持多次执行本命令，请先取消原有配置后重新执行。
To modify the two-to-three VLAN mapping, first remove the original configuration. 接口上已经存在指定内、外层 VLAN ID 的 2:3 VLAN 映射表项，请先取消原有配置后重新执	During executing set operation for VLAN Mapping table, first remove the original configuration when to modify the two-to-three VLAN mapping.

行。	在对 VLAN Mapping 映射表的进行设置操作时，接口上已经存在指定内、外层 VLAN ID 的 2:3 VLAN 映射表项，请先取消原有配置后重新执行。
Can't configure both two-to-three VLAN mapping and two-to-two VLAN mapping for the same double-tagged packets on the interface. 对于同一报文，不允许同时配置 2:2 VLAN 映射和 2:3 VLAN 映射。	During executing set operation for VLAN Mapping table, can't configure both two-to-three VLAN mapping and two-to-two VLAN mapping for the same double-tagged packets on the interface. 在对 VLAN Mapping 映射表的进行设置操作时，对于同一报文，不允许同时配置 2:2 VLAN 映射和 2:3 VLAN 映射。
Configuration failed on the interface. 配置失败。	During executing set operation for VLAN Mapping table, configuration failed on the interface. 在对 VLAN Mapping 映射表的进行设置操作时，配置失败。
Cannot map VLAN to itself. 不能映射成自己。	During executing set operation for VLAN Mapping table, cannot map VLAN to itself. 在对 VLAN Mapping 映射表的进行设置操作时，不能映射成自己。
The end VLAN ID must be equal to or greater than the start VLAN ID. 指定 VLAN 列表时，VLAN 范围的结束值必须大于等于起始值。	During executing check operation for VLAN range list , the end VLAN ID must be equal to or greater than the start VLAN ID. 在对 VLAN range list 列表的进行检查操作时, VLAN 范围的结束值必须大于等于起始值。
The input original VLAN range(s) overlapped. 输入的原始 VLAN 叠套了。	During executing check operation for CVLAN range cross , the input original VLAN range(s) overlapped. 对 CVLAN range cross 的进行检查操作时，输入的原始 VLAN 叠套了。
Please input both the inner and outer VLAN IDs. 请同时输入为 Untagged 报文添加的外层 VLAN ID 和内层 VLAN ID。	During executing set operation for VLAN Mapping 0To2 table, please input both the inner and outer VLAN IDs. 在对 VLAN Mapping 0To2 table 映射表的进行设置操作时，请同时输入为 Untagged 报文添加的外层 VLAN ID 和内层 VLAN ID。
Invalid interface name or interface index. 无效的接口名称或接口索引。	暂未引用
This operation is not supported on the interface. 接口不支持本操作。	During executing set operation for VLAN Mapping 2To3 table, this operation is not supported on the interface. 在对 VLAN Mapping 2To3 table 映射表的进行设置操作时，接口不支持本操作。

Can't configure both an original outer VLAN ID range and an original inner VLAN ID range for the two-to-three VLAN mapping. 配置 2:3 映射时，原始内层 VLAN 和原始外层 VLAN 不允许都指定为 VLAN 列表。	During executing set operation for VLAN Mapping 2To3 table, can't configure both an original outer VLAN ID range and an original inner VLAN ID range for the two-to-three VLAN mapping. 在对 VLAN Mapping 2To3 table 映射表的进行设置操作时,原始内层 VLAN 和原始外层 VLAN 不允许都指定为 VLAN 列表。
Please input the original outer VLAN ID, the original inner VLAN ID, the translated outer VLAN ID, and the translated inner VLAN ID. 配置 2:2VLAN 映射时，请同时输入原始外层 VLAN ID、内层 VLAN ID 和转换后的外层 VLAN ID、内层 VLAN ID。	During executing set operation for VLAN Mapping 2To2 table, please input the original outer VLAN ID, the original inner VLAN ID, the translated outer VLAN ID, and the translated inner VLAN ID. 在对 VLAN Mapping 2To2 table 映射表的进行设置操作时,请同时输入原始外层 VLAN ID、内层 VLAN ID 和转换后的外层 VLAN ID、内层 VLAN ID。
Please input the translated VLAN ID or nested VLAN ID. 请输入转换后 VLAN 或添加的外层 VLAN。	During executing set operation for VLAN Mapping 1To1 or 1To2 table, please input the translated VLAN ID or nested VLAN ID. 在对 VLAN Mapping 1To2 或者 1To2 table 映射表的进行设置操作时，请输入转换后 VLAN 或添加的外层 VLAN。
Please input the original outer VLAN ID or VLAN ID range, original inner VLAN ID or VLAN ID range, and the nested VLAN ID. 配置 2:3 VLAN 映射时，请同时输入原始外层 VLAN ID 或 VLAN 列表、原始内层 VLAN ID 或 VLAN 列表和添加的 VLAN ID。	During executing set operation for VLAN Mapping 2To3 table, please input the original outer VLAN ID or VLAN ID range, original inner VLAN ID or VLAN ID range, and the nested VLAN ID. 在对 VLAN Mapping 2To3 table 映射表的进行设置操作时，请同时输入原始外层 VLAN ID 或 VLAN 列表、原始内层 VLAN ID 或 VLAN 列表和添加的 VLAN ID。
Please input the original VLAN ID or VLAN ID range, and the translated VLAN ID. 配置用户侧 N:1 VLAN 映射时，请同时输入原始 VLAN ID 或 VLAN 列表和转换后 VLAN ID。	During executing set operation for VLAN Mapping NTo1 table, please input the original VLAN ID or VLAN ID range, and the translated VLAN ID. 在对 VLAN Mapping NTo1 table 映射表的进行设置操作时，请同时输入原始 VLAN ID 或 VLAN 列表和转换后 VLAN ID。
Please specify both the TranslatedOuterVlan label and the TranslatedInnerVlan label, or specify none of them. 请同时指定 TranslatedOuterVlan 标签和 TranslatedInnerVlan 标签，或同时都不指定这两个标签。	During executing set operation for VLAN Mapping 2To2 table, please specify both the TranslatedOuterVlan label and the TranslatedInnerVlan label, or specify none of them. 在对 VLAN Mapping 2To2 table 映射表的进行设置操作时,请同时指定 TranslatedOuterVlan 标签和 TranslatedInnerVlan 标签，或同时都不指定这两个标签。

Please specify both the ServiceOuterVlan label and the ServiceInnerVlan label, or specify none of them. 请同时指定 ServiceOuterVlan 标签和 ServiceInnerVlan。	During executing set operation for VLAN Mapping 0To2 table, please specify both the ServiceOuterVlan label and the ServiceInnerVlan label, or specify none of them. 在对 VLAN Mapping 0To2 table 映射表的进行设置操作时，请同时指定 ServiceOuterVlan 标签 ServiceInnerVlan
The configuration conflicts with two-to-two VLAN mapping on the port. 配置与接口上 2:2 VLAN 映射的配置冲突。	During executing set operation for VLAN Mapping 2To2 table,the configuration conflicts with two-to-two VLAN mapping on the port. 在对 VLAN Mapping 2To2 table 映射表的进行设置操作时，配置与接口上 2:2 VLAN 映射的配置冲突。
The configuration conflicts with network-side many-to-one VLAN mapping on the port. 配置与接口上网络侧 N:1 VLAN 映射的配置冲突。	During executing set operation for VLAN Mapping NTo1 table, the configuration conflicts with network-side many-to-one VLAN mapping on the port. 在对 VLAN Mapping NTo1 table 映射表的进行设置操作时，配置与接口上网络侧 N:1 VLAN 映射的配置冲突。

Vlan/QinQ

Message	**Explanation**
Failed to set Ethernet-type on the port because QinQ has been enabled. 接口已开启 QinQ 功能，不能再配置 VLAN Tag 的 TPID 值。	During executing set operation for QinQ table, failed to set Ethernet-type on the port because QinQ has been enabled. 在对 QinQ 表的进行设置操作时，接口已开启 QinQ 功能，不能再配置 VLAN Tag 的 TPID 值。
Failed to enable QinQ on the port because the Ethernet-type setting has been configured. 接口已配置 VLAN Tag 的 TPID 值，不能再开启 QinQ 功能。	During executing set operation for QinQ table, failed to enable QinQ on the port because the Ethernet-type setting has been configured. 在对 QinQ 表的进行设置操作时，接口已配置 VLAN Tag 的 TPID 值，不能再开启 QinQ 功能。
The input inner VLAN conflicts with existing VLAN mappings on the interface. 输入的内层 VLAN 与接口已有 VLAN 映射表项冲突。	During executing set operation for QinQ table, the input inner VLAN conflicts with existing VLAN mappings on the interface. 在对 QinQ 表的进行设置操作时，输入的内层 VLAN 与接口已有 VLAN 映射表项冲突。
Please first remove VLAN mapping	During executing set operation for QinQ table, Please

configuration from the port. 请先清除接口上的 VLAN 映射配置。	first remove VLAN mapping configuration from the port. 在对 QinQ 表的进行设置操作时，请先清除接口上的 VLAN 映射配置。
The transparent VLANs conflict with VLAN mapping configuration on the port. QinQ 透传 VLAN 的配置与接口上 VLAN 映射的配置冲突。	During executing set operation for QinQ table, the transparent VLANs conflict with VLAN mapping configuration on the port. 在对 QinQ 表的进行设置操作时，QinQ 透传 VLAN 的配置与接口上 VLAN 映射的配置冲突。

Contents

VMM 1
VMM/CreateVMPassword 1
XML structure 1
Table description 1
Columns 1
VMM/DeleteVMPassword 1
XML structure 2
Table description 2
Columns 2

VMM

VMM/CreateVMPassword

This table is used to create password for a virtual machine.

XML structure

```
<VMM>
  <CreateVMPassword>
    <VM>
      <IpAddress></IpAddress>
      <Password></Password>
    </VM>
  </CreateVMPassword>
</VMM>
```

Table description

Item	Description
Feature name	VMM
Table name	CreateVMPassword
Table type	Multi-instance table
Row name	VM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IP address of a virtual machine	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated..	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Password	The password to be created	N/A	String. Length: 4 to 32 characters.	

VMM/DeleteVMPassword

This table is used to delete the password of a virtual machine.

XML structure

```
<VMM>
  <DeleteVMPassword>
    <VM>
      <IpAddress></IpAddress>
    </VM>
  </DeleteVMPassword>
</VMM>
```

Table description

Item	Description
Feature name	VMM
Table name	DeleteVMPassword
Table type	Multi-instance table
Row name	VM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IP address of a virtual machine	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated..	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Contents

VOICE 1

VOICE/VoiceSetup 1
XML structure 1
Table description 1
Columns 1
VOICE/VoiceGlobalCfg 1
XML structure 1
Table description 2
Columns 2
VOICE/SipCfg 2
XML structure 2
Table description 3
Columns 3
VOICE/Entitys 5
XML structure 5
Table description 5
Columns 6
VOICE/VoipRegisterGlobalCfg 6
XML structure 6
Table description 7
Columns 7
VOICE/VoipRegisterDNs 7
XML structure 7
Table description 8
Columns 8
VOICE/VoipRegisterPools 8
XML structure 8
Table description 9
Columns 9
VOICE/VoipRegisterPools/PoolNumberCfgs 10
XML structure 10
Table description 10
Columns 11
VOICE/ ImsApplicationServers 11
XML structure 11
Table description 11
Columns 12

VOICE

VOICE/VoiceSetup

This table contains VOICE Voice Setup parameters.

XML structure

```
<VOICE>
  <VoiceSetup>
    <Service></Service>
  </VoiceSetup>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoiceSetup
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Service	Whether to enable the VOICE feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)

VOICE/VoiceGlobalCfg

This table contains VOICE Voice global Config parameters.

XML structure

```
<VOICE>
  <VoiceGlobalCfg>
    <AllowConnectionSip2Sip></AllowConnectionSip2Sip>
  </VoiceGlobalCfg>
```

```
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoiceGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AllowConnectionSip2Sip	Whether to enable SIP-to-SIP calling	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)

VOICE/SipCfg

This table contains VOICE assistant Sip Config.

XML structure

```
<VOICE>
  <SipCfg>
    <ImsRegistrarServer>
      <Enable></Enable>
      <MinExpires></MinExpires>
      <MaxExpires></MaxExpires>
    </ImsRegistrarServer>
    <ImsAuthenticateRegister></ImsAuthenticateRegister>
    <ImsIpsecProfile></ImsIpsecProfile>
    <VoipRegistrarServer>
      <Enable></Enable>
      <MinExpires></MinExpires>
      <MaxExpires></MaxExpires>
    </VoipRegistrarServer>
    <SubscribeServer>
      <Enable></Enable>
      <EventList></EventList>
```

```
      <MinExpires></MinExpires>
      <MaxExpires></MaxExpires>
    </SubscribeServer>
    <OptionsPingExpires></OptionsPingExpires>
    <RingBackTone></RingBackTone>
  </SipCfg>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	SipCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImsRegistrarServer	Config IMS registration services	Data structure	Members include: • Enable. • MinExpires. • MaxExpires	N/A
Enable	Whether to enable IMS registration	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.	Default: 60 seconds The MinExpires must be less than or equal to the MaxExpires.
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.	Default: 3600 seconds. The MinExpires must be less than or equal to the MaxExpires.

Column name	Column description	Column type	Data type and restrictions	Remarks
ImsAuthenticateRegister	Config IMS registration authentication	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A
ImsIpsecProfile	Config IMS IPSEC profile	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
VoipRegistrarServer	Config voip registration services	Data structure	Members include: • Enable. • MinExpires. • MaxExpires	N/A
Enable	Whether to enable voip registration	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.	Default: 60 seconds The MinExpires must be less than or equal to the MaxExpires.
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.	Default: 3600 seconds. The MinExpires must be less than or equal to the MaxExpires.
SubscribeServer	Config device subscription registration status service	Data structure	Members include: • Enable. • Event • MinExpires. • MaxExpires	N/A
Enable	Whether to enable device receive the subscription request of the UE as a subscriber	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A
EventList	Subscribe to registration events type	N/A	Enumeration: • **1**—registrar-state.	N/A
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.	Default: 60 seconds The MinExpires must be less than or equal to the MaxExpires

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.	Default: 3600 seconds. The MinExpires must be less than or equal to the MaxExpires.
OptionsPingExpires	Specifies the global interval for sending OPTIONS messages during a session	N/A	Non-negative integer. Value range: 60 to 1200 in seconds.	N/A
RingBackTone	Whether to enable the ringback tone in voice calls	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A

VOICE/Entitys

This table contains VOICE assistant Entity.

XML structure

```
<VOICE>
  <Entitys>
    <Entity>
      <Index></Index>
      <Type></Type>
      <Description></Description>
      <MatchTemplate></MatchTemplate>
      <Voip>
        <SipAddress></SipAddress>
        <SipPort></SipPort>
      </Voip>
      <Priority></Priority>
    </Entity>
  </Entitys>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	Entitys

Item	Description
Table type	Multi-instance table
Row name	Entity
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entity Tag.	Index	Non-negative integer. Value range: 1 to 2147483647.	N/A
Type	Entity type.	N/A	Enumeration: • **1**—Voip.	This node must be included in the set operation
Description	Description for a voice entity.	N/A	String, case-sensitive. Length: 1 to 80 characters.	N/A
MatchTemplate	number template	N/A	String, case-insensitive. Length: 1 to 255 characters.	number templa (Format: [+] { regilar-expression [T] [$] | T})
Voip	Voip configure	Data structure	Members include: • SipAddress. • SipPort.	N/A
SipAddress	configure a call destination IP address for a VoIP entity	N/A	IPv4: String, dotted decimal notation.	N/A
SipPort	configure a call destination port number for a VoIP entity	N/A	Non-negative integer. Value range: 1 to 65535	Default: 0
Priority	The priority for a voice entity	N/A	Non-negative integer. Value range: 0 to 10	Default: 0

VOICE/VoipRegisterGlobalCfg

This table contains Voip register global config.

XML structure

```
<VOICE>
  <VoipRegisterGlobalCfg>
```

```
    <Mode></Mode>
    <AuthenticateRegister></AuthenticateRegister>
    <MaxDn></MaxDn>
    <MaxPool></MaxPool>
  </VoipRegisterGlobalCfg>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	The voice server mode	N/A	Enumeration: **1**—alive. 2—alone	N/A
AuthenticateRegister	Is register need authenticate.	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)	N/A
MaxDn	The maximum number of DNs.	N/A	Non-negative integer. Value range: 1 to 200.	N/A
MaxPool	The maximum number of pools	N/A	Non-negative integer. Value range: 1 to 200.	N/A

VOICE/VoipRegisterDNs

This table contains VOICE assistant DNs.

XML structure

```
<VOICE>
  <VoipRegisterDNs>
    <VoipRegisterDN>
      <Index></Index>
```

```
      <VoipNumber></VoipNumber>
      <Priority></Priority>
    </VoipRegisterDN>
  </VoipRegisterDNs>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterDNs
Table type	Multi-instance table
Row name	VoipRegisterDN
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Voip DN tag.	Index	Non-negative integer. Value range: 1 to 200.	N/A
VoipNumber	Telephone number.	N/A	String, case-sensitive. Length: 1 to 31 characters.	The number template allowed to register is a string of 1 ~ 31 characters, with the value range of digits 0 ~ 9 and $,$ can only be configured in the last digit of the number,
Priority	Priority level	N/A	Non-negative integer. Value range: 0 to 10.	Default 0

VOICE/VoipRegisterPools

This table contains VOICE register pools

XML structure

```
<VOICE>
  <VoipRegisterPools>
    <VoipRegisterPool>
```

```
      <Index></Index>
      <Priority></Priority>
      <UAId>
        <Ip></Ip>
        <Mac></Mac>
        <Network></Network>
        <NetworkMaskLen></NetworkMaskLen>
      </UAId>
      <AuthenticateUserInfo>
        <UserName></UserName>
        <Password></Password>
      </AuthenticateUserInfo>
      <PoolNumberCfgs>
        <PoolNumberCfg>
          <Index></Index>
          <VoipNumber></VoipNumber>
          <DN></DN>
        <PoolNumberCfg>
      <PoolNumberCfgs>
    </VoipRegisterPool>
  </VoipRegisterPools>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterPools
Table type	Multi-instance table
Row name	VoipRegisterPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Pool tag.	Index	Non-negative integer. Value range: 1 to 200.	N/A
Priority	Priority level	N/A	Non-negative integer. Value range: 0 to 10.	Default 0

Column name	Column description	Column type	Data type and restrictions	Remarks
UAId	UA Id.	Data structure	Members include: • Ip. • Mac. • Network. • NetworkMaskLen.	Choose one of IP, Mac and network.
Ip	UA ip.	N/A	IPv4: String, dotted decimal notation.	N/A
Mac	UA Mac	N/A	MAC address in the H-H-H format.	Example: 0011-0011-0011.
Network	UA network	N/A	IPv4: String, dotted decimal notation.	N/A
NetworkMaskLen	UA network mask len	N/A	Non-negative integer. Value range: 0 to 32.	N/A
AuthenticateUserInfo	configure authenticate user info	Data structure	Members include: • UserName. • Password.	N/A
UserName	configure user name for authenticate	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Password	configure user password for authenticate	N/A	String, case-sensitive. Length: 1 to 16 characters.	N/A

VOICE/VoipRegisterPools/PoolNumberCfgs

This table contains VOICE VoipRegisterPools/PoolNumberCfgs.

XML structure

```
Please refer to the XML structure of VoipRegisterPools
```

Table description

Item	Description
Feature name	VOICE
Table name	PoolNumberCfgs
Table type	Multi-instance table
Row name	PoolNumberCfg
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Number tag.	Index	Non-negative integer. Value range: 1 to 10.	N/A
VoipNumber	number template	N/A	String, case-insensitive. Length: 1 to 31 characters.	The number template allowed to register is a string of 1 ~ 31 characters, with the value range of digits 0 ~ 9 and $,$ can only be configured in the last digit of the number,
DN	DN tag	N/A	Non-negative integer. Value range: 1 to 200.	Select one of number and dn

VOICE/ ImsApplicationServers

This table contains IMS application servers for voice assistant.

XML structure

```
<VOICE>
  <ImsApplicationServers>
    <ImsApplicationServer>
      <ServerName></ServerName>
      <Address></Address>
      <DnsName></DnsName>
      <Port></Port>
      <OptionsKeepAliveEnable></OptionsKeepAliveEnable>
      <UpInterval></UpInterval>
      <DownInterval></DownInterval>
      <Retry></Retry>
    </ImsApplicationServer>
  </ImsApplicationServers>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	ImsApplicationServers

Item	Description
Table type	Multi-instance table
Row name	ImsApplicationServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Application server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
Address	IP address of the application server	N/A	IPv4: String, dotted decimal notation.	N/A
DnsName	Domain name of the application server	N/A	String, case-insensitive. Length: 1 to 253 characters.	The domain name can include letters, digits, hyphens (-), underscores (_), and dots (.).
Port	Port number of the application server	N/A	Non-negative integer. Value range: 1 to 65535.	Default: 5060.
OptionsKeepAliveEnable	Whether to enable the keepalive detection function of the application server	N/A	Boolean: • **true**—Enabled • **false**—Disabled (default).	N/A
UpInterval	Keepalive interval for sending OPTIONS messages when the application server is available	N/A	Non-negative integer. Value range: 5 to 1200, in seconds.	Default: 60.
DownInterval	Keepalive interval for sending OPTIONS messages when the application server is unavailable	N/A	Non-negative integer. Value range: 5 to 1200, in seconds.	Default: 30.

Column name	Column description	Column type	Data type and restrictions	Remarks
Retry	Retry count for OPTIONS keepalive retransmission	N/A	Non-negative integer. Value range: 1 to 10.	Default: 5.

Contents

VOICE 1

VOICE/VoiceSetup 1
XML structure 1
Table description 1
Columns 1
VOICE/VoiceGlobalCfg 1
XML structure 1
Table description 2
Columns 2
VOICE/SipCfg 2
XML structure 2
Table description 3
Columns 3
VOICE/Entitys 4
XML structure 4
Table description 5
Columns 5
VOICE/VoipRegisterGlobalCfg 6
XML structure 6
Table description 6
Columns 6
VOICE/VoipRegisterDNs 7
XML structure 7
Table description 7
Columns 7
VOICE/VoipRegisterPools 8
XML structure 8
Table description 8
Columns 9
VOICE/VoipRegisterPools/PoolNumberCfgs 9
XML structure 9
Table description 9
Columns 10
VOICE/SipCall 10
XML structure 10
Table description 11
Columns 11
VOICE/ ImsApplicationServers 12
XML structure 12
Table description 13
Columns 13

VOICE

VOICE/VoiceSetup

This table contains VOICE Voice Setup parameters.

XML structure

```
<VOICE>
  <VoiceSetup>
    <Service></Service>
  </VoiceSetup>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoiceSetup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Service	Whether to enable the VOICE feature	N/A	Boolean: • **true**—Enabled • **false**—Disabled

VOICE/VoiceGlobalCfg

This table contains VOICE Voice GlobalConfig parameters.

XML structure

```
<VOICE>
  <VoiceGlobalCfg>
    <AllowConnectionSip2Sip></AllowConnectionSip2Sip>
  </VoiceGlobalCfg>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoiceGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AllowConnectionSip2Sip	Whether to enable SIP-to-SIP calling	N/A	Boolean: • **true**—Enabled • **false**—Disabled

VOICE/SipCfg

This table contains VOICE assistant Sip Config..

XML structure

```
<VOICE>
  <SipCfg>
    <ImsRegistrarServer>
     <Enable></Enable>
     <MinExpires></MinExpires>
     <MaxExpires></MaxExpires>
    </ImsRegistrarServer>
    <ImsAuthenticateRegister></ImsAuthenticateRegister>
    <ImsIpsecProfile></ImsIpsecProfile>
    <VoipRegistrarServer>
       <Enable></Enable>
       <MinExpires></MinExpires>
       <MaxExpires></MaxExpires>
    </VoipRegistrarServer>
    <SubscribeServer>
     <Enable></Enable>
     <EventList></EventList>
     <MinExpires></MinExpires>
     <MaxExpires></MaxExpires>
    </SubscribeServer>
    <OptionsExpires></OptionsExpires>
    <RingBackTone></RingBackTone>
```

```
  </SipCfg>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	SipCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ImsRegistrarServer	Config IMS registration services	Data structure	Members include: • Enable. • MinExpires. • MaxExpires
Enable	Whether to enable IMS registration	N/A	Boolean: • **true**—Enabled • **false**—Disabled
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.
ImsAuthenticateRegister	Config IMS registration authentication	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
ImsIpsecProfile	Config IMS IPSEC profile	N/A	String, case-sensitive. Length: 1 to 63 characters.
VoipRegistrarServer	Config voip registration services	Data structure	Members include: • Enable. • MinExpires. • MaxExpires
Enable	Whether to enable voip registration	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.

Column name	Column description	Column type	Data type and restrictions
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.
SubscribeServer	Config device subscription registration status service	Data structure	Members include: • Enable. • Event • MinExpires. • MaxExpires
Enable	Whether to enable device receive the subscription request of the UE as a subscriber	N/A	Boolean: • **true**—Enabled • **false**—Disabled
EventList	Subscribe to registration events type	N/A	Enumeration: • **1**—registrar-state.
MinExpires	Minimal registration expiration time	N/A	Non-negative integer. Value range: 60 to 3600 in seconds.
MaxExpires	Maximal registration expiration time	N/A	Non-negative integer. Value range: 120 to 86400 in seconds.
OptionsExpires	Specifies the global interval for sending OPTIONS messages during a session	N/A	Non-negative integer. Value range: 60 to 1200 in seconds.
RingBackTone	Whether to enable the ringback tone in voice calls	N/A	Boolean: • **true**—Enabled • **false**—Disabled

VOICE/Entitys

This table contains VOICE assistant Voip Entity.

XML structure

```
<VOICE>
  <Entitys>
    <Entity>
      <Index></Index>
      <Type></Type>
      <CreateSourceType></CreateSourceType>
      <Description></Description>
      <MatchTemplate></MatchTemplate>
      <Voip>
        <SipAddress></SipAddress>
```

```
        <SipPort></SipPort>
        <ImsSipNumber></ImsSipNumber>
      </Voip>
      <Priority></Priority>
    </Entity>
  </Entitys>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipEntitys
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Voip Entity name.	Index	Non-negative integer. Value range: 1 to 2147483647.
Type	Entity type.	N/A	Enumeration: • **1**—Voip.
CreateSourceType	Create Source type	N/A	Enumeration: • **0**—static • **1**—voip • **3**—ims
Description	Description for a voice entity.	N/A	String, case-sensitive. Length: 1 to 80 characters.
MatchTemplate	number template	N/A	String, case-sensitive. Length: 1 to 255 characters.
Voip	Voip configure	Data structure	Members include: • SipAddress. • SipPort.. • ImsSipNumber.
SipAddress	configure a call destination IP address for a VoIP entity	N/A	IPv4: String, dotted decimal notation.
SipPort	configure a call destination port number for a VoIP entity	N/A	Non-negative integer. Value range: 0 to 65535

Column name	Column description	Column type	Data type and restrictions
ImsSipNumber	Ims Sip Number	N/A	String, case-sensitive. Length: 1 to 255 characters.
Priority	The priority for a voice entity	N/A	Non-negative integer. Value range: 0 to 10

VOICE/VoipRegisterGlobalCfg

This table contains Voip register global config.

XML structure

```
<VOICE>
  <VoipRegisterGlobalCfg>
    <Mode></Mode>
    <AuthenticateRegister></AuthenticateRegister>
    <MaxDn></MaxDn>
    <MaxPool></MaxPool>
  </VoipRegisterGlobalCfg>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Mode	The voice server mode	N/A	Enumeration: **1**—alive. 2—alone
AuthenticateRegister	Is register need authenticate.	N/A	Boolean: • **true**—Enabled • **false**—Disabled(default)
MaxDn	The maximum number of DNs.	N/A	Non-negative integer. Value range: 1 to 200.

Column name	Column description	Column type	Data type and restrictions
MaxPool	The maximum number of pools	N/A	Non-negative integer. Value range: 1 to 200.

VOICE/VoipRegisterDNs

This table contains VOICE assistant DNs.

XML structure

```
<VOICE>
  <VoipRegisterDNs>
    <VoipRegisterDN>
      <Index></Index>
      <VoipNumber></VoipNumber>
      <Priority></Priority>
    </VoipRegisterDN>
  </VoipRegisterDNs>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterDNs
Table type	Multi-instance table
Row name	VoipRegisterDN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Voip DN tag.	Index	Non-negative integer. Value range: 1 to 200.
VoipNumber	Telephone number.	N/A	String, case-sensitive. Length: 1 to 31 characters.
Priority	Priority level	N/A	Non-negative integer. Value range: 0 to 10.

VOICE/VoipRegisterPools

This table contains VOICE register pools

XML structure

```
<VOICE>
  <VoipRegisterPools>
    <VoipRegisterPool>
      <Index></Index>
      <Priority></Priority>
      <UAId>
        <Ip></Ip>
        <Mac></Mac>
        <Network></Network>
        <NetworkMaskLen></NetworkMaskLen>
      </UAId>
      <AuthenticateUserInfo>
        <UserName></UserName>
        <Password></Password>
      </AuthenticateUserInfo>
      <PoolNumberCfgs>
        <PoolNumberCfg>
          <Index></Index>
          <VoipNumber></VoipNumber>
          <DN></DN>
        <PoolNumberCfg>
      </PoolNumberCfgs>
    </VoipRegisterPool>
  </VoipRegisterPools>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	VoipRegisterPools
Table type	Multi-instance table
Row name	VoipRegisterPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Pool tag.	Index	Non-negative integer. Value range: 1 to 200.
Priority	Priority level	N/A	Non-negative integer. Value range: 0 to 10.
UAId	UA Id.	Data structure	Members include: • Ip. • Mac. • Network. • NetworkMaskLen.
Ip	UA ip.	N/A	IPv4: String, dotted decimal notation.
Mac	UA Mac	N/A	MAC address in the H-H-H format.
Network	UA network	N/A	IPv4: String, dotted decimal notation.
NetworkMaskLen	UA network mask len	N/A	Non-negative integer. Value range: 0 to 32.
AuthenticateUserInfo	configure authenticate user info	Data structure	Members include: • UserName. • Password.
UserName	configure user name for authenticate	N/A	String, case-sensitive. Length: 1 to 63 characters.
Password	configure user password for authenticate	N/A	String, case-sensitive. Length: 1 to 16 characters.

VOICE/VoipRegisterPools/PoolNumberCfgs

This table contains VOICE VoipRegisterPools/PoolNumberCfgs.

XML structure

```
Please refer to the XML structure of VoipRegisterPools
```

Table description

Item	Description
Feature name	VOICE
Table name	PoolNumberCfgs

Item	Description
Table type	Multi-instance table
Row name	PoolNumberCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Number tag.	Index	Non-negative integer. Value range: 1 to 10.
VoipNumber	number template	N/A	String, case-insensitive. • Length: 1 to 31 characters.
DN	DN tag	N/A	Non-negative integer. Value range: 1 to 200.

VOICE/SipCall

This table contains VOICE assistant Sip Call

XML structure

```
<VOICE>
  <SipCalls>
    <SipCall>
      <CallIndex></CallIndex>
      <CallId></CallId>
      <CallStatus></CallStatus>
      <CallingNumber></CallingNumber>
      <CalledNumber></CalledNumber>
      <LocalIPAddress></LocalIPAddress>
      <LocalPort></LocalPort>
      <RemoteIPAddress></RemoteIPAddress>
      <RemotePort></RemotePort>
      <MediaStream>
        <MediaType></MediaType>
        <MediaStatus></MediaStatus>
        <NegotiatedCodec></NegotiatedCodec>
        <CodecPayload></CodecPayload>
        <LocalIPAddress></LocalIPAddress>
        <LocalPort></LocalPort>
        <RemoteIPAddress></RemoteIPAddress>
        <RemotePort></RemotePort>
      </MediaStream>
```

```
    </SipCall>
  </SipCalls>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	SipCalls
Table type	Multi-instance table
Row name	SipCall
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
CallIndex	SIP messages call number	Index	Non-negative integer. Value range: 1 to 20000.
CallId	SIP messages call ID	N/A	Non-negative integer. Value range: 1 to 2147483647.
CallStatus	SIP messages CallStatus	N/A	Enumeration: • **0**—Originating. • **1**—Answering • **2**—Connected • **3**—Releasing
CallingNumber	SIP messages calling number	N/A	String, case-insensitive. Length: 1 to 255 characters
CalledNumber	SIP messages called number	N/A	String, case-insensitive. Length: 1 to 255 characters
LocalIPAddress	Source IP address for SIP messages.	N/A	IPv4: String, dotted decimal notation.
LocalPort	Source port number for SIP messages.	N/A	Value range: 1 to 65535.
RemoteIPAddress	Destination IP address for SIP messages.	N/A	IPv4: String, dotted decimal notation.
RemotePort	Destination port number for SIP messages.	N/A	Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
MediaStream	SIP messages media stream table	Data structure	Members include: • MediaType. • MediaStatus. • Payload • LocalIPAddress • LocalPort • RemoteIPAddress • RemotePort
MediaType	SIP messages media type	N/A	Enumeration: • **0**—voice. • **1**—video
MediaStatus	SIP messages media status	N/A	Enumeration: • **0**—sendonly. • **1**—sendrecv
NegotiatedCodec	SIP messages Negotiated Codec	N/A	String, case-insensitive. Length: 1 to 255 characters
CodecPayload	SIP messages Codec load type	N/A	Non-negative integer. Value range: 0 to 127.
LocalIPAddress	Source IP address and port number for SIP messages	N/A	IPv4: String, dotted decimal notation.
LocalPort	Source IP address and port number for SIP messages	N/A	Value range: 1 to 65535.
RemoteIPAddress	Destination IP address for SIP messages.	N/A	IPv4: String, dotted decimal notation.
RemotePort	Destination port number for SIP messages.	N/A	Value range: 1 to 65535.

VOICE/ ImsApplicationServers

This table contains IMS application servers for voice assistant.

XML structure

```
<VOICE>
  <ImsApplicationServers>
    <ImsApplicationServer>
      <ServerName></ServerName>
      <Address></Address>
      <DnsName></DnsName>
      <Port></Port>
      <OptionsKeepAliveEnable></OptionsKeepAliveEnable>
```

```
      <State></State>
      <UpInterval></UpInterval>
      <DownInterval></DownInterval>
      <Retry></Retry>
    </ImsApplicationServer>
  </ImsApplicationServers>
</VOICE>
```

Table description

Item	Description
Feature name	VOICE
Table name	ImsApplicationServers
Table type	Multi-instance table
Row name	ImsApplicationServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ServerName	Application server name	Index	String, case-sensitive. Length: 1 to 32 characters.
Address	IP address of the application server	N/A	IPv4: String, dotted decimal notation.
DnsName	Domain name of the application server	N/A	String, case-insensitive. Length: 1 to 253 characters. The domain name can include letters, digits, hyphens (-), underscores (_), and dots (.).
Port	Port number of the application server	N/A	Non-negative integer. Value range: 1 to 65535.
OptionsKeepAliveEnable	Whether to enable the keepalive detection function of the application server	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
State	Keepalive state of the application server	N/A	Enumeration: • Unavailable. • Available.

Column name	Column description	Column type	Data type and restrictions
UpInterval	Keepalive interval for sending OPTIONS messages when the application server is available	N/A	Non-negative integer. Value range: 5 to 1200, in seconds.
DownInterval	Keepalive interval for sending OPTIONS messages when the application server is unavailable	N/A	Non-negative integer. Value range: 5 to 1200, in seconds.
Retry	Retry count for OPTIONS keepalive retransmission	N/A	Non-negative integer. Value range: 1 to 10.

LDPBackupPeers

Contents

VPLS 1

VPLS/SignalingLDPs 1
XML structure 1
Table description 1
Columns 1
VPLS/LDPPeers 2
XML structure 2
Table description 3
Columns 3
VPLS/LDPPeers/BFDSession 4
XML structure 4
Table description 5
Columns 5
VPLS/LDPPeers/MacLimit 5
XML structure 5
Table description 6
Columns 6
VPLS/LDPBackupPeers 6
XML structure 6
Table description 7
Columns 7
VPLS/LDPBackupPeers/BFDSession 8
XML structure 8
Table description 8
Columns 9
VPLS/SignalingStatics 9
XML structure 9
Table description 9
Columns 10
VPLS/StaticPeers 10
XML structure 10
Table description 11
Columns 11
VPLS/StaticPeers/BFDSession 13
XML structure 13
Table description 13
Columns 13
VPLS/StaticPeers/MacLimit 14
XML structure 14
Table description 14
Columns 15
VPLS/StaticBackupPeers 15
XML structure 15
Table description 16
Columns 16
VPLS/StaticBackupPeers/BFDSession 17
XML structure 17
Table description 17
Columns 17
VPLS/Etree 18
XML structure 18
Table description 18
Columns 19
VPLS/AutoDiscoverys 19
XML structure 19
Table description 20
Columns 20

VPLS/AutoDiscoverys/RdRt 20
XML structure 20
Table description 21
Columns 21
VPLS/AutoDiscoverys/RdRt/VpnTarget 21
XML structure 21
Table description 22
Columns 22
VPLS/AutoDiscoverys/SignalingProtocolLDP 22
XML structure 22
Table description 23
Columns 23
VPLS/AutoDiscoverys/SignalingProtocolBGP 23
XML structure 23
Table description 24
Columns 24
VPLS/AutoDiscoverys/SignalingProtocolBGP/ADSite 24
XML structure 24
Table description 25
Columns 25

VPLS

VPLS/SignalingLDPs

This table contains PW information of VPLS signaling LDP.

XML structure

```
<VPLS>
  <SignalingLDPs>
    <SignalingLDP>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
      <PwRedundancyMode></PwRedundancyMode>
    </SignalingLDP>
  </SignalingLDPs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingLDPs
Table type	Multi-instance table
Row name	SignalingLDP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create SignalingLDPs.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	Only works and must be specified when the revertive type is WTR.
PwRedundancy Mode	PW redundancy mode	N/A	Enumeration: • 0—slave (default). • 1—Master. • 2—Independent.	N/A

VPLS/LDPPeers

This table contains PW peer information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
```

```
      </BFDSession>
      <EtreeLeaf></EtreeLeaf>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </LDPPeer>
  </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability. This column cannot be modified.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	Statistics for the PW	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
MacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

VPLS/LDPPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
```

```
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
  </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/LDPPeers/MacLimit

This table contains information about MacLimit for LDP Peer.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </LDPPeer>
```

```
  </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	MacLimit
Table type	Single-instance table
Restrictions	Support for this column depends on the device model. You must create a LDPPeer instance first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a LDPPeer instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ForwardAction	Action mode	N/A	Enumeration: • 0—Forward(default) • 1—Discard	N/A
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/LDPBackupPeers

This table contains PW backup peer information of VPLS using signaling LDP.

XML structure

```
<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
```

```
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
      <ETreeLeaf></ETreeLeaf>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy	N/A	String.	This column

Column name	Column description	Column type	Data type and restrictions	Remarks
	related to the PW		Length: 1 to 126 characters.	cannot be modified.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
ETreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

VPLS/LDPBackupPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/SignalingStatics

This table contains PW information of VPLS signaling STATIC.

XML structure

```
<VPLS>
  <SignalingStatics>
    <SignalingStatic>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </SignalingStatic>
  </SignalingStatics>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingStatics
Table type	Multi-instance table
Row name	SignalingStatic

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create SignalingStatics .
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	Only works and must be specified when the revertive type is WTR.

VPLS/StaticPeers

This table contains PW peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
```

```
        <Type></Type>
        <Value></Value>
        <CIR></CIR>
        <CBS></CBS>
        <EBS></EBS>
        <PIR></PIR>
      </Policing>
    </TrafficPolicing>
    <EtreeMode></EtreeMode>
    <BFDSession>
      <LocalDiscriminator></LocalDiscriminator>
      <RemoteDiscriminator></RemoteDiscriminator>
    </BFDSession>
    <EtreeLeaf></EtreeLeaf>
    <MacLimit>
      <ForwardAction></ForwardAction>
      <AlarmEnable></AlarmEnable>
      <MacMaximum></MacMaximum>
    </MacLimit>
  </StaticPeer>
 </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4294967295.	
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. This column cannot be modified.
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability. This column cannot be modified.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession	Subtable	N/A	Support for this column depends on

Column name	Column description	Column type	Data type and restrictions	Remarks
	configuration			the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
MacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

VPLS/StaticPeers/BFDSession

This table contains BFD Session information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String.	You must create a

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a StaticPeers instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/StaticPeers/MacLimit

This table contains information about MacLimit for static Peer.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	MacLimit
Table type	Single-instance table
Restrictions	Support for this column depends on the device model. You must create a LDPPeer instance first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a StaticPeers instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ForwardAction	Action mode	N/A	Enumeration: • 0—Forward(default) • 1—Discard	N/A
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	N/A
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/StaticBackupPeers

This table contains PW backup peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
      <ETreeLeaf></ETreeLeaf>
    </StaticBackupPeer>
  </StaticBackupPeers>
```

```
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
ETreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

VPLS/StaticBackupPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/Etree

This table contains Etree information of VPLS.

XML structure

```
<VPLS>
   <VsiName></VsiName>
   <Etree>
     <EtreeType></EtreeType>
     <EtreeVlan>
        <RootVlanID></RootVlanID>
        <LeafVlanID></LeafVlanID>
     </EtreeVlan>
   </Etree>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	Etree
Table type	Multi-instance table
Row name	Etree
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create
EtreeType	Etree Type	N/A	Enumeration: • 1—Static. • 2—Dynamic	N/A
RootVlanID	Root vlan ID	N/A	Unsigned integer.	N/A
LeafVlanID	Leaf vlan ID	N/A	Unsigned integer.	N/A

VPLS/AutoDiscoverys

This table contains information about AutoDiscoverys.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <VsiName></VsiName>
      <TunnelPolicyName></TunnelPolicyName>
      <PWClassName></PWClassName>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTargetType></RouteTargetType>
          <RouteTarget></RouteTarget>
        </VpnTarget>
      </RdRt>
      <SignalingProtocol></SignalingProtocol>
      <SignalingProtocolLDP>
        <VplsID></VplsID>
      </SignalingProtocolLDP>
      <SignalingProtocolBGP>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
        </ADSite>
      </SignalingProtocolBGP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	AutoDiscoverys
Table type	Multi-instance table
Row name	AutoDiscovery
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi first.
TunnelPolicyName	Name of the tunnel policy	N/A	String. Length: 1 to 126 characters..	N/A
PWClassName	PW class name	N/A	String. Length: 1 to 19 characters.	N/A
RdRt	Route distinguisher and route targets	Subtable	N/A	N/A
SignalingProtocol	Signaling Protocol	N/A	Enumeration: • **1**—LDP • **2**—BGP	This column cannot be modified.
SignalingProtocolLDP	Signaling Protocol LDP	Subtable	N/A	The SignalingProtocol must be LDP.
SignalingProtocolBGP	Signaling Protocol BGP	Subtable	N/A	The SignalingProtocol must be BGP.

VPLS/AutoDiscoverys/RdRt

This table contains information about AutoDiscovery route distinguisher and route targets.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
```

```
        <RouteTargetType></RouteTargetType>
        <RouteTarget></RouteTarget>
      </VpnTarget>
    </RdRt>
  </AutoDiscovery>
 </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	RdRt
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
RouteDistinguisher	Route distinguisher	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	This column cannot be modified.
VpnTarget	VPN route targets	Sublist	N/A	N/A

VPLS/AutoDiscoverys/RdRt/VpnTarget

This table contains information about AutoDiscovery route targets.

XML structure

```
<VPLS>
 <AutoDiscoverys>
  <AutoDiscovery>
   <RdRt>
    <VpnTarget>
     <RouteTargetType></RouteTargetType>
     <RouteTarget></RouteTarget>
    </VpnTarget>
```

```
      </RdRt>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	VpnTarget
Table type	Multi-instance table
Row name	VpnTarget
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
RouteTargetType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RouteTarget	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VPLS/AutoDiscoverys/SignalingProtocolLDP

This table contains information about Signaling Protocol LDP of AutoDiscovery.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolLDP>
        <VplsID></VplsID>
      </SignalingProtocolLDP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingProtocolLDP
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
VplsID	VPLS ID	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	Cannot be modified after creation.The SignalingProtocol must be LDP.

VPLS/AutoDiscoverys/SignalingProtocolBGP

This table contains information about Signaling Protocol BGP of AutoDiscovery.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolBGP>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
        </ADSite>
      </SignalingProtocolBGP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingProtocolBGP
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
ADSite	Local Site	Subtable	N/A	N/A

VPLS/AutoDiscoverys/SignalingProtocolBGP/ADSite

This table contains information about Site of Signaling Protocol BGP.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolBGP>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
        </ADSite>
      </SignalingProtocolBGP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	ADSite
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the SignalingProtocol BGP first.
SiteID	Local Site ID	N/A	Unsigned integer. The value range varies by device model.	Cannot be modified after creation. You must specify this column when the operation is create, merge or replace.
Range	Specify the range of the sites included within the VPN	N/A	Unsigned integer. Value range: 2 to (maximum value of SiteId +1). Default: 10.	Range can only increase and can not decrease.
DefaultOffset	Specify the starting number for the sites in the VPN	N/A	Unsigned integer. Value range: 0 to 1. Default: 0.	Cannot be modified after creation.

LDPBackupPeers

Contents

VPLS 1

VPLS/SignalingLDPs 1
XML structure 1
Table description 1
Columns 1
VPLS/LDPPeers 2
XML structure 2
Table description 3
Columns 3
VPLS/LDPPeers/BFDSession 4
XML structure 4
Table description 5
Columns 5
VPLS/LDPPeers/MacLimit 5
XML structure 5
Table description 6
Columns 6
VPLS/LDPBackupPeers 6
XML structure 6
Table description 7
Columns 7
VPLS/LDPBackupPeers/BFDSession 8
XML structure 8
Table description 9
Columns 9
VPLS/SignalingStatics 9
XML structure 9
Table description 10
Columns 10
VPLS/StaticPeers 10
XML structure 10
Table description 11
Columns 11
VPLS/StaticPeers/BFDSession 13
XML structure 13
Table description 13
Columns 14
VPLS/StaticPeers/MacLimit 14
XML structure 14
Table description 14
Columns 15
VPLS/StaticBackupPeers 15
XML structure 15
Table description 16
Columns 16
VPLS/StaticBackupPeers/BFDSession 17
XML structure 17
Table description 17
Columns 18
VPLS/RmtMACs 18
XML structure 18
Table description 18
Columns 19
VPLS/PWs 19
XML structure 19
Table description 20
Columns 20

VPLS/Etree ····· 22
XML structure ····· 22
Table description ····· 23
Columns ····· 23
VPLS/AutoDiscoverys ····· 23
XML structure ····· 23
Table description ····· 24
Columns ····· 24
VPLS/AutoDiscoverys/RdRt ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 25
VPLS/AutoDiscoverys/RdRt/VpnTarget ····· 26
XML structure ····· 26
Table description ····· 26
Columns ····· 26
VPLS/AutoDiscoverys/SignalingProtocolLDP ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 27
VPLS/AutoDiscoverys/SignalingProtocolBGP ····· 27
XML structure ····· 27
Table description ····· 28
Columns ····· 28
VPLS/AutoDiscoverys/SignalingProtocolBGP/ADSite ····· 28
XML structure ····· 28
Table description ····· 29
Columns ····· 29

VPLS

VPLS/SignalingLDPs

This table contains PW information of VPLS signaling LDP.

XML structure

```
<VPLS>
  <SignalingLDPs>
    <SignalingLDP>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
      <PwRedundancyMode></PwRedundancyMode>
    </SignalingLDP>
  </SignalingLDPs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingLDPs
Table type	Multi-instance table
Row name	SignalingLDP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	N/A
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	N/A
PwRedundancy Mode	PW redundancy mode	N/A	Enumeration: • 0—slave (default). • 1—Master. • 2—Independent.	N/A

VPLS/LDPPeers

This table contains PW peer information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
      <EtreeLeaf></EtreeLeaf>
      <MacLimit>
```

```
      <ForwardAction></ForwardAction>
      <AlarmEnable></AlarmEnable>
      <MacMaximum></MacMaximum>
    </MacLimit>
  </LDPPeer>
 </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
Statistics	Statistics for the PW	N/A	Boolean: • true—Enabled. • false—Disabled(d	Support for this command depends on the device

Column name	Column description	Column type	Data type and restrictions	Remarks
			efault).	model.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing .
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
MacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

VPLS/LDPPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
```

```
  </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/LDPPeers/MacLimit

This table contains information about MacLimit for LDP Peer.

XML structure

```
<VPLS>
  <LDPPeers>
    <LDPPeer>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </LDPPeer>
  </LDPPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	MacLimit
Table type	Single-instance table
Restrictions	Support for this column depends on the device model. You must create a LDPPeer instance first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a LDPPeer instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ForwardAction	Action mode	N/A	Enumeration: • 0—Forward(default) • 1—Discard	N/A
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/LDPBackupPeers

This table contains PW backup peer information of VPLS using signaling LDP.

XML structure

```
<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
```

```
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
      <EtreeLeaf></EtreeLeaf>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
Statistics	Statistics for the PW	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

VPLS/LDPBackupPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/SignalingStatics

This table contains PW information of VPLS signaling STATIC.

XML structure

```
<VPLS>
  <SignalingStatics>
    <SignalingStatic>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </SignalingStatic>
  </SignalingStatics>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingStatics
Table type	Multi-instance table
Row name	SignalingStatic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create SignalingStatics .
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	Only works and must be specified when the revertive type is WTR.

VPLS/StaticPeers

This table contains PW peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
```

```
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
      <EtreeLeaf></EtreeLeaf>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—optimized .	
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A
MacLimit	MacLimit configuration	Subtable	N/A	Support for this column depends on the device model.

VPLS/StaticPeers/BFDSession

This table contains BFD Session information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a StaticPeer instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/StaticPeers/MacLimit

This table contains PW information of VPLS signaling STATIC.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <MacLimit>
        <ForwardAction></ForwardAction>
        <AlarmEnable></AlarmEnable>
        <MacMaximum></MacMaximum>
      </MacLimit>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	MacLimit
Table type	Single-instance table
Restrictions	Support for this column depends on the device model. You must create a StaticPeer instance first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	You must create a StaticPeer instance first.
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ForwardAction	Action mode	N/A	Enumeration: • 0—Forward(default) • 1—Discard	N/A
AlarmEnable	Whether enable alarm	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MacMaximum	The maximum of MAC	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/StaticBackupPeers

This table contains PW backup peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <EtreeMode></EtreeMode>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
```

```
      <EtreeLeaf></EtreeLeaf>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: • true—Hub. • false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 126 characters.	N/A
TunnelPolicy	Tunnel policy related to the	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PW		Length: 1 to 126 characters.	
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
EtreeMode	E-tree mode	N/A	Enumeration: • 1—compatible • 2—optimized .	N/A
BFDSession	BFDSession configuration	Subtable	N/A	Support for this column depends on the device model.
EtreeLeaf	Configure the PW as a leaf in the E-TREE network	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

VPLS/StaticBackupPeers/BFDSession

This table contains BFD Session information of VPLS using LDP signaling.

XML structure

```
<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPLS/RmtMACs

This table contains information about remote MAC addresses of eachVPLS VSI.

XML structure

```
<VPLS>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <LinkID></LinkID>
      <MACState></MACState>
      <Aging></Aging>
      <AgingTime></AgingTime>
    </MAC>
  </RmtMACs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	RmtMACs
Table type	Multi-instance table

Item	Description
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
LinkID	Link ID of the Mac	N/A	Unsigned integer.	N/A
MACState	State	N/A	Enumeration: • 0—dynamic.	N/A
Aging	Whether in aging state	N/A	• true—Aging. • false—Not aging	N/A
AgingTime	When it is true in aging state	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/PWs

This table contains information of PW.

XML structure

```
<VPLS>
  <PWs>
    <PW>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Protocol></Protocol>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <MTU></MTU>
      <TunnelGroupID></TunnelGroupID>
      <TunnelNHLFEIDs>
        <TunnelNHLFEID></TunnelNHLFEID>
      </TunnelNHLFEIDs>
      <IsMainPW></IsMainPW>
      <HubSpoke></HubSpoke>
      <SplitHorizon></SplitHorizon>
```

```
      <ControlWord></ControlWord>
      <PWType></PWType>
      <LinkID></LinkID>
      <State></State>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </OutputStatistics>
    </PW>
  </PWs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	PWs
Table type	Multi-instance table
Row name	PW
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Protocol	Signaling protocol.	N/A	Enumeration: • 1—STATIC • 2—LDP	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A

OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
MTU	MTU	N/A	Unsigned integer.	N/A
TunnelGroupID	Tunnel group ID.	N/A	Unsigned integer(64).	N/A
TunnelNHLFEIDs	List of Tunnel NHLFE IDs	N/A	Members include: • TunnelNHLFEID	N/A
TunnelNHLFEID	Tunnel NHLFE ID	N/A	Unsigned integer.	Repeat supported.
IsMainPW	Is main PW or not.	N/A	Boolean: • true—Main PW. • false—Backup PW.	N/A
HubSpoke	Hub spoke capability.	N/A	Enumeration: • 0—None • 1—Hub • 2—Spoke	N/A
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: • true—Enabled(default). • false—Disabled.	N/A.
ControlWord	Whether using control word.	N/A	Boolean: • true—Enabled • false—Disabled.	N/A
PWType	PW type.	N/A	Enumeration: • 0—Unknown • 1—FR_DLCI_MARTINI • 2—ATM_AAL5_SDU_VCC • 3—ATM_CELL_TRANSPORT • 4—VLAN • 5—ETHERNET • 6—HDLC • 7—PPP • 8—CESOM • 9—ATM_CELL_VCC • 10—ATM_CELL_VPC • 11—IP_INTERWORKING • 12—ATM_CELL_1TO1_VCC • 13—ATM_CELL_1TO1_VPC • 14—ATM_AAL5_PDU_VCC • 15—FR_PORT • 16—CEP • 17—TDM_SATOP_E1 • 18—TDM_SATOP_T1 • 19—TDM_SATOP_E3 • 20—TDM_SATOP_T3 • 21—TDM_CESOPSN_BASIC	N/A

			• 22—TDMoIP_AAL1_Mode • 23—TDM_CESOPSN_WITH_CAS • 24—TDMoIP_AAL2_Mode • 25—FR_DLCI	
LinkID	Link ID of the PW	N/A	Unsigned integer.	N/A
State	State of the PW	N/A	Enumeration: • 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate	N/A
InputStatistics	Input statistcs	N/A	Members include: • Octets • Packets • Errors • Discards	N/A
OutputStatistics	Output statistics	N/A	Members include: • Octets • Packets • Errors • Discards	N/A
Octets	Packet octets	N/A	Unsigned integer(64).	N/A
Packets	Packet number	N/A	Unsigned integer(64).	N/A
Errors	Error packet number	N/A	Unsigned integer(64).	N/A
Discards	Discarded packet number	N/A	Unsigned integer(64).	N/A

VPLS/Etree

This table contains Etree information of VPLS.

XML structure

```
<VPLS>
   <VsiName></VsiName>
   <Etree>
     <EtreeType></EtreeType>
     <EtreeVlan>
         <RootVlanID></RootVlanID>
         <LeafVlanID></LeafVlanID>
     </EtreeVlan>
   </Etree>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	Etree
Table type	Multi-instance table
Row name	Etree
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create
EtreeType	Etree Type	Index	Enumeration: • 1—Static. • 2—Dynamic	N/A
RootVlanID	Root vlan ID	N/A	Unsigned integer.	N/A
LeafVlanID	Leaf vlan ID	N/A	Unsigned integer.	N/A

VPLS/AutoDiscoverys

This table contains information about AutoDiscoverys.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <VsiName></VsiName>
      <TunnelPolicyName></TunnelPolicyName>
      <PWClassName></PWClassName>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTargetType></RouteTargetType>
          <RouteTarget></RouteTarget>
        </VpnTarget>
      </RdRt>
      <SignalingProtocol></SignalingProtocol>
      <SignalingProtocolLDP>
```

```
      <VplsID></VplsID>
    </SignalingProtocolLDP>
    <SignalingProtocolBGP>
      <ADSite>
        <SiteID></SiteID>
        <Range></Range>
        <DefaultOffset></DefaultOffset>
      </ADSite>
    </SignalingProtocolBGP>
  </AutoDiscovery>
 </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	AutoDiscoverys
Table type	Multi-instance table
Row name	AutoDiscovery
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi first.
TunnelPolicyName	Name of the tunnel policy	N/A	String. Length: 1 to 126 characters..	N/A
PWClassName	PW class name	N/A	String. Length: 1 to 19 characters.	N/A
RdRt	Route distinguisher and route targets	Subtable	N/A	N/A
SignalingProtocol	Signaling Protocol	N/A	Enumeration: • **1**—LDP • **2**—BGP	This column cannot be modified.
SignalingProtocolLDP	Signaling Protocol LDP	Subtable	N/A	The SignalingProtocol must be LDP.
SignalingProtocolBGP	Signaling Protocol BGP	Subtable	N/A	The SignalingProtocol must be BGP.

VPLS/AutoDiscoverys/RdRt

This table contains information about AutoDiscovery route distinguisher and route targets.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTargetType></RouteTargetType>
          <RouteTarget></RouteTarget>
        </VpnTarget>
      </RdRt>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	RdRt
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
RouteDistinguisher	Route distinguisher	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	This column cannot be modified.
VpnTarget	VPN route targets	Sublist	Members include: • RouteTarget. • RouteTargetType	N/A

VPLS/AutoDiscoverys/RdRt/VpnTarget

This table contains information about AutoDiscovery route targets.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <RdRt>
        <VpnTarget>
          <RouteTargetType></RouteTargetType>
          <RouteTarget></RouteTarget>
        </VpnTarget>
      </RdRt>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	VpnTarget
Table type	Multi-instance table
Row name	VpnTarget
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
RouteTargetType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RouteTarget	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VPLS/AutoDiscoverys/SignalingProtocolLDP

This table contains information about Signaling Protocol LDP of AutoDiscovery.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolLDP>
        <VplsID></VplsID>
      </SignalingProtocolLDP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingProtocolLDP
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
VplsID	VPLS ID	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	Cannot be modified after creation.

VPLS/AutoDiscoverys/SignalingProtocolBGP

This table contains information about Signaling Protocol BGP of AutoDiscovery.

XML structure

```
<VPLS>
```

```
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolBGP>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
        </ADSite>
      </SignalingProtocolBGP>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingProtocolBGP
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the AutoDiscovery first.
ADSite	Local Site	Subtable	N/A	N/A

VPLS/AutoDiscoverys/SignalingProtocolBGP/ADSite

This table contains information about Site of Signaling Protocol BGP.

XML structure

```
<VPLS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <SignalingProtocolBGP>
        <ADSite>
          <SiteID></SiteID>
```

```
        <Range></Range>
        <DefaultOffset></DefaultOffset>
      </ADSite>
    </SignalingProtocolBGP>
  </AutoDiscovery>
 </AutoDiscoverys>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	ADSite
Table type	Singal-instance table
Row name	N/A
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create the Vsi and the SignalingProtocol BGP first.
SiteID	Local Site ID	N/A	Unsigned integer. The value range varies by device model.	Cannot be modified after creation. You must specify this column when the operation is create,merge or replace.
Range	Specify the range of the sites included within the VPN	N/A	Unsigned integer. Value range: 2 to (maximum value of SiteId +1). Default: 10.	Range can only increase and can not decrease.
DefaultOffset	Specify the starting number for the sites in the VPN	N/A	Unsigned integer. Value range: 0 to 1. Default: 0.	Cannot be modified after creation.

Contents

VPLS 2
VPLS/SIGNALINGLDPS 2
VPLS/RMTMACS 2
VPLS/LDPPEERS 3
VPLS/LDPBACKUPPEERS 3
VPLS/SIGNALINGSTATICS 4
VPLS/STATICPEERS 4
VPLS/STATICBACKUPPEERS 5
VPLS/PWS 6

VPLS

VPLS/SIGNALINGLDPS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPLS/RMTMACS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。

VPLS/LDPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。
The same ESI has been used. 该ESI值已被其它口使用。	When the ESI has been used by others, it cannot be configured. ESI值已被其他口使用时，不允许被配置。
Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。	Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。

VPLS/LDPBACKUPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

	1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	1.The create value attribute column does not allow modification. 2.The merge value attributed column is different from the lower hair attribute column. 1.create value 属性列不允许修改。 2.merge value 属性列与下发属性列不同。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPLS/SIGNALINGSTATICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPLS/STATICPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。

的情况。	
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Parameters don't exist. 参数不存在。	The configturation of delete has a default value and doesn't allow delete. Delete配置有默认值且不允许删除。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
The same ESI has been used. 该ESI值已被其它口使用。	When the ESI has been used by others, it cannot be configured. ESI值已被其他口使用时，不允许被配置。
Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。	Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。

VPLS/STATICBACKUPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET 操作时，所设的值不符合模块要求。
Executes the set command,and the variable	Executes the set command,and the variable exists,but the

exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	assignment fails because the condition is not satisfied in the currnet environment. 执行 SET 命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPLS/PWS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

Contents

VPWS 1
VPWS/XCGs 1
XML structure 1
Table description 1
Columns 1
VPWS/Connections 2
XML structure 2
Table description 3
Columns 3
VPWS/Connections/CCC 5
XML structure 5
Table description 5
Columns 5
VPWS/LDPPeers 6
XML structure 6
Table description 7
Columns 7
VPWS/LDPPeers/BFDSession 8
XML structure 8
Table description 8
Columns 9
VPWS/LDPBackupPeers 9
XML structure 9
Table description 10
Columns 10
VPWS/LDPBackupPeers/BFDSession 10
XML structure 10
Table description 11
Columns 11
VPWS/StaticPeers 12
XML structure 12
Table description 12
Columns 13
VPWS/StaticPeers/BFDSession 14
XML structure 14
Table description 14
Columns 15
VPWS/L3Interfaces 15
XML structure 15
Table description 16
Columns 16
VPWS/L3Interfaces/BypassAcs 17
XML structure 17
Table description 18
Columns 18
VPWS/ACs 18
XML structure 18
Table description 19
Columns 19
VPWS/StaticBackupPeers 20
XML structure 20
Table description 20
Columns 21
VPWS/StaticBackupPeers/BFDSession 21
XML structure 21
Table description 22
Columns 22
VPWS/BypassPeers 23

XML structure 23
Table description 23
Columns 23
VPWS/AutoDiscoverys 24
XML structure 24
Table description 25
Columns 25
VPWS/AutoDiscoverys/RdRt 25
XML structure 25
Table description 26
Columns 26
VPWS/AutoDiscoverys/RdRt/VpnTarget 26
XML structure 26
Table description 27
Columns 27
VPWS/AutoDiscoverys/ADSites 27
XML structure. 27
Table description 28
Columns 28
VPWS/AutoDiscoverys/ADSites/Connections 28
XML structure 28
Table description 29
Columns 29
VPWS/SignalingStaticSRv6s 29
XML structure 29
Table description 30
Columns 30
VPWS/StaticSRv6Peers 31
XML structure 31
Table description 31
Columns 32
VPWS/SRv6BackupPeers 32
XML structure 32
Table description 33
Columns 33
VPWS/SRv6BypassAcs 34
XML structure 34
Table description 34
Columns 34

VPWS

VPWS/XCGs

This table contains information about XCGs.

XML structure

```
<VPWS>
  <XCGs>
    <XCG>
      <XCGName></XCGName>
      <Description></Description>
      <AdminStatus></AdminStatus>
    </XCG>
  </XCGs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	XCGs
Table type	Multi-instance table
Row name	XCG
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCGName	Index	String. Length: 1 to 31 characters.	N/A
Description	description for the XCG	N/A	String. Length: 1 to 80 characters.	N/A
AdminStatus	Administratively status	N/A	Enumeration: • 1—Administratively up(default). • 2—Administratively down.	N/A

VPWS/Connections

This table contains information about XCGs.

XML structure

```
<VPWS>
  <Connections>
    <Connection>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Interworking></Interworking>
      <MTU></MTU>
      <ArpSuppression></ArpSuppression>
      <DualReceive></DualReceive>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
      <PwRedundancyMode></PwRedundancyMode>
      <SRv6Locator>
        <LocatorName></LocatorName>
        <Dx2lLocatorName></Dx2lLocatorName>
        <AutoSid></AutoSid>
      </SRv6Locator>
      <DiffServMode>
        <IngressMode></IngressMode>
        <ServiceClass></ServiceClass>
        <EgressMode></EgressMode>
        <TrustType></TrustType>
      </DiffServMode>
        <CCC>
          <XCGName></XCGName>
          <ConnectionName></ConnectionName>
          <InLabel></InLabel>
          <OutLabel></OutLabel>
          <NextHop></NextHop>
          <OutInterface></OutInterface>
          <PWClass></PWClass>
       </CCC>
    </Connection>
  </Connections>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
Interworking	Interworking for a cross-connect	N/A	Enumeration: • 1—None(default). • 2—IPV4.	Support for this command depends on the device model.
MTU	MTU	N/A	Unsigned integer. Value range: The value range varies by device model. Default: 1500 bytes.	N/A
ArpSuppression	ARP flooding suppression	N/A	Boolean: true—Enabled. false—Disabled(default).	Support for this command depends on the device model.
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec. Default: 0 sec.	Only works when the revertive type is WTR.

Column name	Column description	Column type	Data type and restrictions	Remarks
PwRedundancyMode	PW redundancy mode	N/A	Enumeration: • 0—slave (default). • 1—Master. • 2—Independent.	N/A
SRv6Locator	Attributes of segment-routing ipv6 locator	N/A	Members include: • LocatorName • AutoSid.	N/A
LocatorName	Locator Name	N/A	String. Length: 1 to 31 characters.	You must and only need specify this column when you remove or delete the Locator, and the AutoSid column is ignored
Dx2lLocatorName	Dx2lLocatorName	N/A	String. Length: 1 to 31 characters.	N/A
AutoSid	Auto Sid	N/A	Boolean: • true—Enabled (default). • false—Disabled.	The column is available when the value of LocatorName is specifid
DiffServMode	DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode • TrustType	N/A
IngressMode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
ServiceClass	Service class value	N/A	Enumeration: • 0—be • 1—af1. • 2—af2. • 3—af3. • 4—af4. • 5—ef. • 6—cs6. • 7—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
TrustType	Trusted protocol type	N/A	Enumeration: • 2—Inner-dot1p. • 3—DSCP.	Use this column only when the value for the EgressMode column is 3.
CCC	ccc	Subtable	N/A	N/A

VPWS/Connections/CCC

This table contains information about CCC.

XML structure

```
<VPWS>
  <XCGName></XCGName>
  <ConnectionName></ConnectionName>
  <CCC>
    <InLabel></InLabel>
    <OutLabel></OutLabel>
    <NextHop></NextHop>
    <OutInterface></OutInterface>
    <PWClass></PWClass>
  </CCC>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHop	Specify the nexthop	N/A	String, dotted decimal notation.	Support for this command depends on the device model.
OutInterface	Interface name	N/A	String Length: 1 to 20 characters.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.

VPWS/LDPPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <Admin></Admin>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
  </LDPPeers>
```

```
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Admin	Administration PW	N/A	Boolean: • true—Enabled. • false—Disabled (default).	This column cannot be modified. When the Admin attribute of the PW is true, the AdminPWInterface attribute must be an invalid value of 0; when the Admin attribute of the PW is false, the AdminPWInterface attribute can have any

Column name	Column description	Column type	Data type and restrictions	Remarks
				value. Only Support for loopback interface.For relevant information, see the XSD document of your product.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/LDPPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
  </LDPPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table

Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/LDPBackupPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/LDPBackupPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <XCGName></XCGName>
```

```
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/StaticPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <Admin></Admin>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticPeers
Table type	Multi-instance table

Row name	StaticPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Admin	Administration PW	N/A	Boolean: • true—Enabled. • false—Disabled(default).	This column cannot be modified.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String.	This column cannot

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/StaticPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```
<VPWS>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
      <L2splicing></L2splicing>
      <AcStatistics></AcStatistics>
      <BypassAcs>
        <BypassAc>
          <PeerAddr></PeerAddr>
          <PWID></PWID>
          <TunnelPolicy></TunnelPolicy>
          <PWClass></PWClass>
        </BypassAc>
      </BypassAcs>
    </L3Interface>
  </L3Interfaces>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	Access mode of the AC	N/A	Enumeration: • **1**—VLAN.	By default, the value is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Ethernet.	Cannot be modified after creation. For VLAN interfaces, the default access mode is VLAN. For other Layer 3 interfaces, the default access mode is Ethernet.For Layer 3 subinterfaces, the default access mode is VLAN.
L2-splicing	Whether to splice an LDP PW and an EVPN VPWS over SRv6 PW	N/A	Boolean: • true. • false (default).	Cannot be modified after creation.
AcStatistics	Whether statistics function is enabled	N/A	Boolean: • true. false (default).	Deleting or removing XCGName and ConnectionName will delete this member
BypassAcs	Sublist	N/A	N/A	N/A

VPWS/L3Interfaces/BypassAcs

This table contains Bypass Acs information of VPWS.

XML structure

```
<VPWS>
  <L3Interfaces>
    <L3Interface>
      <BypassAcs>
        <BypassAc>
          <PeerAddr></PeerAddr>
          <PWID></PWID>
          <TunnelPolicy></TunnelPolicy>
          <PWClass></PWClass>
        </BypassAc>
      </BypassAcs>
    </L3Interface>
  </L3Interfaces>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BypassAcs
Table type	Multi-instance table
Row name	BypassAcs
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.

VPWS/ACs

This table contains information about ACs.

XML structure

```
<VPWS>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
      <Statistics></Statistics>
    </AC>
  </ACs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
ConnectionName	Connection Name	N/A	String. • Length: 1 to 20 characters.	You must create the connection first. You must specify this column when the operation is create, merge or replace.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Can not be modified after creation.
AccessMode	The access mode of this AC	N/A	Enumeration: • **1**—Vlan. • 2—Ethernet.	By default, the value is 1. Can not be modified after creation.
Statistics	Whether statistics function is enabled	N/A	Boolean: • true. • false (default).	N/A

VPWS/StaticBackupPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticBackupPeers
Table type	Multi-instance table

Row name	StaticBackupPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/StaticBackupPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <StaticBackupPeers>
    <StaticBackupPeer>
```

```
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/BypassPeers

This table contains Bypass PW peer information of VPWS.

XML structure

```
<VPWS>
  <BypassPeers>
    <BypassPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <PwBypass></PwBypass>
    </BypassPeer>
  </BypassPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BypassPeers
Table type	Multi-instance table
Row name	BypassPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
PwBypass	Pw Bypass	N/A	Boolean: • true. • false	N/A

VPWS/AutoDiscoverys

This table contains information about AutoDiscoverys.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <PWClass></PWClass>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
      <ADSites>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
          <Connections>
            <Connection>
              <RemoteSiteID></RemoteSiteID>
              <TunnelPolicy></TunnelPolicy>
            </Connection>
          </Connections>
        </ADSite>
      </ADSites>
    </AutoDiscovery>
```

```
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoDiscoverys
Table type	Multi-instance table
Row name	AutoDiscovery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
PWClass	PW class name	N/A	String. Length: 1 to 19 characters.	N/A
RdRt	Subtable	Subtable	N/A	N/A
ADSites	Sublist	Sublist	N/A	N/A

VPWS/AutoDiscoverys/RdRt

This table contains information about route targets.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
   </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoDiscoveryRTs
Table type	Singal-instance table
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
RouteDistinguisher	Route distinguisher	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
VpnTarget	sublist	N/A	N/A	N/A

VPWS/AutoDiscoverys/RdRt/VpnTarget

This table contains information about route targets.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <RdRt>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpnTarget
Table type	Multi-instance table
Row name	VpnTarget
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. • Length: 1 to 31 characters.	You must create the XCG first.
RouteTargetType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RouteTarget	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VPWS/AutoDiscoverys/ADSites

This table is a sublist of AutoDiscoverys This table contains information about ADSites.

XML structure.

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <ADSites>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
          <Connections>
            <Connection>
              <RemoteSiteID></RemoteSiteID>
              <TunnelPolicy></TunnelPolicy>
            </Connection>
```

```
        </Connections>
      </ADSite>
    </ADSites>
  </AutoDiscovery>
 </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoRemoteSites
Table type	Multi-instance table
Row name	AutoRemoteSite
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. • Length: 1 to 31 characters.	You must create the XCG first.
SiteID	Site ID	Index	Unsigned integer. Value range: 0 to 256.	N/A
Range	Specify the range of the sites included within the VPN	N/A	Unsigned integer. Value range: 2 to 257. Default: 10.	Range can only increase and can not decrease.
DefaultOffset	Specify the starting number for the sites in the VPN	N/A	Unsigned integer. Value range: 0 to 1. Default: 0.	Cannot be modified after creation.
Connections	Sublist	N/A	N/A	N/A

VPWS/AutoDiscoverys/ADSites/Connections

This table is a sublist of ADSites, This table contains information about Connections.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <ADSites>
```

```
      <ADSite>
        <SiteID></SiteID>
        <Connections>
          <Connection>
            <RemoteSiteID></RemoteSiteID>
            <TunnelPolicy></TunnelPolicy>
          </Connection>
        </Connections>
      </ADSite>
    </ADSites>
  </AutoDiscovery>
 </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	ADSites
Table type	Multi-instance table
Row name	ADSite
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
SiteID	Site ID	Index	Unsigned integer. Value range: 0 to 256.	N/A
RemoteSiteID	Connection Remote SiteID	Index	Unsigned integer. Value range: 0 to256.	N/A
TunnelPolicy	Tunnel PolicyName	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SignalingStaticSRv6s

This table contains PW peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SignalingStaticSRv6s>
```

```
    <SignalingStaticSRv6>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <TunnelPolicy></TunnelPolicy>
      <DefaultColor></DefaultColor>
      <SegmentRouting>
        <SegmentRoutingIteration></SegmentRoutingIteration>
        <TrackBFD></TrackBFD>
      </SegmentRouting>
    </SignalingStaticSRv6>
  </SignalingStaticSRv6s>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SignalingStaticSRv6s
Table type	Multi-instance table
Row name	SignalingStaticSRv6
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
DefaultColor	Default color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SegmentRouting	Segment routing	Data structure	Members include: • SegmentRoutingIteration	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	configuration		• TrackBFD	
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration(default).1—Best effort. • 2—Traffic engineering. • 3—Traffic engineering and best effort, traffic engineering preferred	This column cannot be modified.
TrackBFD	Track BFD	N/A	Boolean: • true. • false (default).	This column takes effect only when SegmentRoutingIteration includes Traffic engineering

VPWS/StaticSRv6Peers

This table contains SRv6 peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <StaticSRv6Peers>
    <StaticSRv6Peer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
      <RemoteOpcode></RemoteOpcode>
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </StaticSRv6Peer>
  </StaticSRv6Peers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticSRv6Peers
Table type	Multi-instance table
Row name	StaticSRv6Peer
Restrictions	This column cannot be modified.

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name	Index	String. Length: 1 to 31 character	N/A
RemoteOpcode	Remote Opcode	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SRv6BackupPeers

This table contains Backup peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SRv6BackupPeers>
    <SRv6BackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <MainPeerAddr></MainPeerAddr>
      <MainRemoteLocatorName></MainRemoteLocatorName>
      <MainOpcode></MainOpcode>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
      <RemoteOpcode></RemoteOpcode>
```

```
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </SRv6BackupPeer>
  </SRv6BackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SRv6BackupPeers
Table type	Multi-instance table
Row name	SRv6BackupPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
MainPeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
MainRemoteLocatorName	Remote locator name of the main peer	Index	String. Length: 1 to 31 characters.	N/A
MainOpcode	Remote Opcode of the main peer	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name of the backup peer	Index	String. Length: 1 to 31 characters.	N/A
RemoteOpcode	Remote Opcode os the backup peer	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SRv6BypassAcs

This table contains Bypass peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SRv6BypassAcs>
    <SRv6BypassAc>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <IfIndex></IfIndex>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
      <RemoteOpcode></RemoteOpcode>
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </SRv6BypassAc>
  </SRv6BypassAcs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SRv6BypassAcs
Table type	Multi-instance table
Row name	SRv6BypassAcs
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String.	You must create

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
IfIndex	Interface index	Index	Unsigned integer.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name	Index	String. Length: 1 to 31 characters.	N/A
RemoteOpcode	RemoteOpcode	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

Contents

VPWS 1

VPWS/XCGs 1
XML structure 1
Table description 1
Columns 1
VPWS/Connections 1
XML structure 2
Table description 2
Columns 3
VPWS/Connections /CCC 4
XML structure 4
Table description 5
Columns 5
VPWS/LDPPeers 6
XML structure 6
Table description 6
Columns 7
VPWS/LDPPeers/BFDSession 8
XML structure 8
Table description 8
Columns 8
VPWS/LDPBackupPeers 9
XML structure 9
Table description 9
Columns 10
VPWS/StaticPeers 10
XML structure 10
Table description 11
Columns 11
VPWS/StaticPeers/BFDSession 12
XML structure 12
Table description 13
Columns 13
VPWS/StaticBackupPeers 13
XML structure 13
Table description 14
Columns 14
VPWS/StaticBackupPeers/BFDSession 15
XML structure 15
Table description 16
Columns 16
VPWS/L3Interfaces 16
XML structure 16
Table description 17
Columns 17
VPWS/L3Interfaces/BypassAcs 18
XML structure 19
Table description 19
Columns 19
VPWS/ACs 19
XML structure 20
Table description 20
Columns 20
VPWS/PWs 21
XML structure 22
Table description 22
Columns 23

VPWS/BypassPeers ····· 25
XML structure ····· 25
Table description ····· 25
Columns ····· 26
VPWS/AutoDiscoverys ····· 26
XML structure ····· 26
Table description ····· 27
Columns ····· 27
VPWS/AutoDiscoverys/RdRt ····· 28
XML structure ····· 28
Table description ····· 28
Columns ····· 28
VPWS/AutoDiscoverys/RdRt/VpnTarget ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
VPWS/AutoDiscoverys/ADSites ····· 30
XML structure. ····· 30
Table description ····· 30
Columns ····· 30
VPWS/AutoDiscoverys/ADSites/Connections ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 32
VPWS/SignalingStaticSRv6s ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33
VPWS/StaticSRv6Peers ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
VPWS/SRv6BackupPeers ····· 34
XML structure ····· 35
Table description ····· 35
Columns ····· 35
VPWS/SRv6BypassAcs ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37

VPWS

VPWS/XCGs

This table contains information about XCGs.

XML structure

```
<VPWS>
  <XCGs>
    <XCG>
      <XCGName></XCGName>
      <Description></Description>
      <AdminStatus></AdminStatus>
    </XCG>
  </XCGs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	XCGs
Table type	Multi-instance table
Row name	XCG
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCGName	Index	String. Length: 1 to 31 characters.	N/A
Description	description for the XCG	N/A	String. Length: 1 to 80 characters.	N/A
AdminStatus	Administratively status	N/A	Enumeration: • 1—Administratively up(default). • 2—Administratively down.	N/A

VPWS/Connections

This table contains information about XCGs.

XML structure

```
<VPWS>
  <Connections>
    <Connection>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Interworking></Interworking>
      <MTU></MTU>
      <ArpSuppression></ArpSuppression>
      <DualReceive></DualReceive>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
      <PwRedundancyMode></PwRedundancyMode>
      <SRv6Locator>
        <LocatorName></LocatorName>
        <Dx2lLocatorName></Dx2lLocatorName>
        <AutoSid></AutoSid>
      </SRv6Locator>
      <DiffServMode>
        <IngressMode></IngressMode>
        <ServiceClass></ServiceClass>
        <EgressMode></EgressMode>
        <TrustType></TrustType>
      </DiffServMode>
      <CCC>
          <XCGName></XCGName>
          <ConnectionName></ConnectionName>
          <InLabel></InLabel>
          <OutLabel></OutLabel>
          <NextHop></NextHop>
          <OutInterface></OutInterface>
          <PWClass></PWClass>
     </CCC>
    </Connection>
  </Connections>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table

Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
Interworking	Interworking for a cross-connect	N/A	Enumeration: • 1—None(default). • 2—IPV4.	Support for this command depends on the device model.
MTU	MTU	N/A	Unsigned integer. Value range: The value range varies by device model. Default: 1500 bytes.	N/A
ArpSuppression	ARP flooding suppression	N/A	Boolean: true—Enabled. false—Disabled(default).	Support for this command depends on the device model.
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec. Default: 0 sec.	Only works when the revertive type is WTR.
PwRedundancyMode	PW redundancy mode	N/A	Enumeration: • 0—slave (default). • 1—Master. • 2—Independent.	N/A
SRv6Locator	Attributes of segment-routing ipv6 locator	N/A	Members include: • LocatorName • AutoSid.	N/A
LocatorName	Locator Name	N/A	String.	You must and only need specify this

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	column when you remove or delete the Locator, and the AutoSid column is ignored
Dx2lLocatorName	Dx2lLocatorName	N/A	String. Length: 1 to 31 characters.	N/A
AutoSid	Auto Sid	N/A	Boolean: • true—Enabled. • false—Disabled.	The column is available when the value of `LocatorName` is specifid
DiffServMode	DiffServ mode configuration	Data structure	Members include: • IngressMode • ServiceClass • EgressMode • TrustType	N/A
IngressMode	DiffServ mode in the inbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
ServiceClass	Service class value	N/A	Enumeration: • 0—be • 1—af1. • 2—af2. • 3—af3. • 4—af4. • 5—ef. • 6—cs6. • 7—cs7.	N/A
EgressMode	DiffServ mode in the outbound direction	N/A	Enumeration: • 1—Uniform. • 2—Pipe. • 3—Short-pipe.	N/A
TrustType	Trusted protocol type	N/A	Enumeration: • 2—Inner-dot1p. • 3—DSCPp.	Use this column only when the value for the EgressMode column is 3.
CCC	ccc	Subtable	N/A	N/A

VPWS/Connections /CCC

This table contains information about CCC.

XML structure

```
<VPWS>
    <XCGName></XCGName>
```

```
    <ConnectionName></ConnectionName>
    <CCC>
      <InLabel></InLabel>
      <OutLabel></OutLabel>S
      <NextHop></NextHop>
      <OutInterface></OutInterface>
      <PWClass></PWClass>
    </CCC>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
NextHop	Specify the nexthop	N/A	String, dotted decimal notation.	Support for this command depends on the device model.
OutInterface	Interface name	N/A	String Length: 1 to 20 characters.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.

VPWS/LDPPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <Admin></Admin>
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
  </LDPPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Admin	Administration PW	N/A	Boolean: • true—Enabled. • false—Disabled(default).	This column cannot be modified. When the Admin attribute of the PW is true, the AdminPWInterface attribute must be an invalid value of 0; when the Admin attribute of the PW is false, the AdminPWInterface attribute can have any value
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing.

Column name	Column description	Column type	Data type and restrictions	Remarks
BFDSession	Subtable	N/A	N/A	N/A

VPWS/LDPPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPPeer>
  </LDPPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PW		Value range: 1 to 4294967295.	
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/LDPBackupPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/StaticPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <Admin></Admin>
```

```
      <AdminPWInterface></AdminPWInterface>
      <Esi></Esi>
      <TrafficPolicing>
        <Policing>
          <Direction></Direction>
          <Type></Type>
          <Value></Value>
          <CIR></CIR>
          <CBS></CBS>
          <EBS></EBS>
          <PIR></PIR>
        </Policing>
      </TrafficPolicing>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming	N/A	Unsigned integer.	This member must

Column name	Column description	Column type	Data type and restrictions	Remarks
	label of the PW		The value range varies by device model.	be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default for other).	Support for this command depends on the device model.
Admin	Administration PW	N/A	Boolean: • true—Enabled. • false—Disabled(default).	This column cannot be modified.
AdminPWInterface	AC interface associated with the admin PW	N/A	Unsigned integer.	Only Support for loopback interface.For relevant information, see the XSD document of your product.
Esi	ESI name	N/A	String. Length: 1 to 31 characters. The string must start with a letter(a-z or A-Z).	This column cannot be modified.
TrafficPolicing	PW CAR information	Subtable	N/A	Reference the table CAR/TrafficPolicing .
BFDSession	Subtable	N/A	N/A	N/A

VPWS/StaticPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
```

```
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/StaticBackupPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticBackupPeers>
```

```
    <StaticBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InLabel	Incoming label of the PW	N/A	Value range: 1 to 4294967295. Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
Statistics	PW Statistics	N/A	Boolean: • true—Enabled. • false—Disabled(default for other).	Support for this command depends on the device model.
BFDSession	Subtable	N/A	N/A	N/A

VPWS/StaticBackupPeers/BFDSession

This table contains BFD Session information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <BFDSession>
        <LocalDiscriminator></LocalDiscriminator>
        <RemoteDiscriminator></RemoteDiscriminator>
      </BFDSession>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BFDSession
Table type	Singal-instance table
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
LocalDiscriminator	Local discriminator	N/A	Unsigned integer. Value range: 1 to 32768	N/A
RemoteDiscriminator	Remote discriminator	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

VPWS/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```
<VPWS>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
      <AcStatistics></AcStatistics>
```

```
      <InPkts></InPkts>
      <InOctets></InOctets>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
      <OutOctetsRate></OutOctetsRate>
      <L2splicing></L2splicing>
      <BypassAcs>
        <BypassAc>
          <PeerAddr></PeerAddr>
          <PWID></PWID>
          <TunnelPolicy></TunnelPolicy>
          <PWClass></PWClass>
        </BypassAc>
      </BypassAcs>
    </L3Interface>
  </L3Interfaces>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first.
AccessMode	Access mode of the AC	N/A	Enumeration: • 1—VLAN. • 2—Ethernet.	By default, the value is 1.
AcStatistics	Whether statistics function is enabled	N/A	Boolean: • true. • false	Deleting or removing XCGName and ConnectionName will delete this member
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InPktsRate	Rate of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
L2splicing	Whether to splice an LDP PW and an EVPN VPWS over SRv6 PW	N/A	Boolean: • true. • false (default).	Cannot be modified after creation.
BypassAcs	Sublist	N/A	N/A	N/A

VPWS/L3Interfaces/BypassAcs

This table contains Bypass PW peer information of VPWS.

XML structure

```
<VPWS>
  <L3Interfaces>
    <L3Interface>
      <BypassAcs>
        <BypassAc>
          <PeerAddr></PeerAddr>
          <PWID></PWID>
          <TunnelPolicy></TunnelPolicy>
          <PWClass></PWClass>
        </BypassAc>
      </BypassAcs>
    </L3Interface>
  </L3Interfaces>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BypassAcs
Table type	Multi-instance table
Row name	BypassAcs
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.

VPWS/ACs

This table contains information about ACs.

XML structure

```
<VPWS>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <IfName></IfName>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
      <Statistics></Statistics>
      <InPkts></InPkts>
      <InOctets></InOctets>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
      <OutOctetsRate></OutOctetsRate>
    </AC>
  </ACs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first.
AccessMode	The access mode of this AC	N/A	Enumeration: • 1—Vlan. • 2—Ethernet.	By default, the value is 1.
Statistics	Whether statistics function is enabled	N/A	Boolean: • true. • false.	N/A
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InPktsRate	Rate of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A

VPWS/PWs

This table contains information of PW.

XML structure

```
<VPWS>
  <PWs>
    <PW>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Protocol></Protocol>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <MTU></MTU>
      <TunnelGroupID></TunnelGroupID>
      <TunnelNHLFEIDs>
         <TunnelNHLFEID></TunnelNHLFEID>
    </TunnelNHLFEIDs>
      <IsMainPW></IsMainPW>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <LinkID></LinkID>
      <State></State>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
        <OctetsRate></OctetsRate>
        <PacketsRate></PacketsRate>
      </OutputStatistics>
    </PW>
  </PWs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	PWs

Table type	Multi-instance table
Row name	PW
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Protocol	Signaling protocol.	N/A	Enumeration: • 1—STATIC • 2— LDP • **3— EVPN.**	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
MTU	MTU	N/A	Unsigned integer.	N/A
TunnelGroupID	Tunnel group ID.	N/A	Unsigned integer (64).	N/A
TunnelNHLFEIDs	Tunnel NHLFE IDs.	N/A	Unsigned integer.	Repeat supported.
IsMainPW	Is main PW or not.	N/A	Boolean: • true—Main PW. • false—Backup PW.	N/A
ControlWord	Whether using control word.	N/A	Boolean: • true—Enabled • false—Disabled.	N/A
PWType	PW type.	N/A	Enumeration: • 0—Unknown • 1—FR_DLCI_MARTINI • 2—ATM_AAL5_SDU_VCC • 3—ATM_CELL_TRANSPORT • 4—VLAN • 5—ETHERNET • 6—HDLC	N/A

			• 7—PPP • 8—CESOM • 9—ATM_CELL_VCC • 10—ATM_CELL_VPC • 11—IP_INTERWORKING • 12—ATM_CELL_1TO1_VCC • 13—ATM_CELL_1TO1_VPC • 14—ATM_AAL5_PDU_VCC • 15—FR_PORT • 16—CEP • 17—TDM_SATOP_E1 • 18—TDM_SATOP_T1 • 19—TDM_SATOP_E3 • 20—TDM_SATOP_T3 • 21—TDM_CESOPSN_BASIC • 22—TDMoIP_AAL1_Mode • 23—TDM_CESOPSN_WITH_CAS • 24—TDMoIP_AAL2_Mode • 25—FR_DLCI	
LinkID	Link ID of the PW	N/A	Unsigned integer.	N/A
State	State of the PW	N/A	Enumeration: • 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate	N/A
InputStatistics	Input statistcs	N/A	Members include: • Octets • Packets • Errors • Discards • OctetsRate • PacketsRate	N/A
OutputStatistics	Output statistics	N/A	Members include: • Octets • Packets • Errors • Discards • OctetsRate • PacketsRate	N/A
Octets	Packet octets	N/A	Unsigned integer(64).	N/A
Packets	Packet number	N/A	Unsigned integer(64).	N/A
Errors	Error packet number	N/A	Unsigned integer(64).	N/A

Discards	Discarded packet number	N/A	Unsigned integer(64).	N/A
OctetsRate	Rate of octets	N/A	Unsigned integer(64).	N/A
PacketsRate	Rate of packets	N/A	Unsigned integer(64).	N/A

VPWS/BypassPeers

This table contains Bypass PW peer information of VPWS.

XML structure

```
<VPWS>
  <BypassPeers>
    <BypassPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PwBypass></PwBypass>
    </BypassPeer>
  </BypassPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	BypassPeers
Table type	Multi-instance table
Row name	BypassPeer
Restrictions	This column cannot be modified.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	Peer ipv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. This column cannot be modified.
PwBypass	Pw Bypass	N/A	Boolean: • true. • false	N/A

VPWS/AutoDiscoverys

This table contains information about AutoDiscoverys.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <PWClass></PWClass>
      <RdRt>
```

```
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
      <ADSites>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
          <Connections>
            <Connection>
              <RemoteSiteID></RemoteSiteID>
              <TunnelPolicy></TunnelPolicy>
            </Connection>
          </Connections>
        </ADSite>
      </ADSites>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoDiscoverys
Table type	Multi-instance table
Row name	AutoDiscovery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
PWClass	PW class name	N/A	String. Length: 1 to 19 characters.	N/A
RdRt	Subtable	N/A	N/A	N/A
ADSites	Sublist	N/A	N/A	N/A

VPWS/AutoDiscoverys/RdRt

This table contains information about route targets.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <PWClassName></PWClassName>
      <RdRt>
        <RouteDistinguisher></RouteDistinguisher>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
   </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoDiscoveryRTs
Table type	Singal-instance table
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
RouteDistinguisher	Route distinguisher	N/A	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
VpnTarget	sublist	N/A	N/A	N/A

VPWS/AutoDiscoverys/RdRt/VpnTarget

This table contains information about route targets.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <RdRt>
        <VpnTarget>
          <RouteTarget></RouteTarget>
          <RouteTargetType></RouteTargetType>
        </VpnTarget>
      </RdRt>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	VpnTarget
Table type	Multi-instance table
Row name	VpnTarget
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. • Length: 1 to 31 characters.	You must create the XCG first.
RouteTargetType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RouteTarget	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VPWS/AutoDiscoverys/ADSites

This table is a sublist of AutoDiscoverys This table contains information about ADSites.

XML structure.

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <ADSites>
        <ADSite>
          <SiteID></SiteID>
          <Range></Range>
          <DefaultOffset></DefaultOffset>
          <Connections>
            <Connection>
              <RemoteSiteID></RemoteSiteID>
              <TunnelPolicy></TunnelPolicy>
            </Connection>
          </Connections>
        </ADSite>
      </ADSites>
   </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	AutoRemoteSites
Table type	Multi-instance table
Row name	AutoRemoteSite
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. • Length: 1 to 31 characters.	You must create the XCG first.
SiteID	Site ID	Index	Unsigned integer. Value range: 0 to 256.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Range	Specify the range of the sites included within the VPN	N/A	Unsigned integer. Value range: 2 to 257. Default: 10.	Range can only increase and can not decrease.
DefaultOffset	Specify the starting number for the sites in the VPN	N/A	Unsigned integer. Value range: 0 to 1. Default: 0.	Cannot be modified after creation.
Connections	Sublist	N/A	N/A	N/A

VPWS/AutoDiscoverys/ADSites/Connections

This table is a sublist of ADSites, This table contains information about Connections.

XML structure

```
<VPWS>
  <AutoDiscoverys>
    <AutoDiscovery>
      <XCGName></XCGName>
      <ADSites>
        <ADSite>
          <SiteID></SiteID>
          <Connections>
            <Connection>
              <RemoteSiteID></RemoteSiteID>
              <TunnelPolicy></TunnelPolicy>
            </Connection>
          </Connections>
        </ADSite>
      </ADSites>
    </AutoDiscovery>
  </AutoDiscoverys>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	ADSites
Table type	Multi-instance table
Row name	ADSite
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
SiteID	Site ID	Index	Unsigned integer. Value range: 0 to 256.	N/A
RemoteSiteID	Connection Remote SiteID	Index	Unsigned integer. Value range: 0 to256.	N/A
TunnelPolicy	Tunnel PolicyName	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SignalingStaticSRv6s

This table contains PW peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SignalingStaticSRv6s>
    <SignalingStaticSRv6>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <TunnelPolicy></TunnelPolicy>
      <DefaultColor></DefaultColor>
      <SegmentRouting>
        <SegmentRoutingIteration></SegmentRoutingIteration>
        <TrackBFD></TrackBFD>
      </SegmentRouting>
    </SignalingStaticSRv6>
  </SignalingStaticSRv6s>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SignalingStaticSRv6s
Table type	Multi-instance table
Row name	SignalingStaticSRv6
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.
DefaultColor	Default color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
SegmentRouting	Segment routing configuration	Data structure	Members include: • SegmentRoutingIteration • TrackBFD	N/A
SegmentRoutingIteration	Segment Routing Iteration	N/A	Enumeration: • **0**—No segment routing iteration.1—Best effort. • 2—Traffic engineering. • 3—Traffic engineering and best effort, traffic engineering preferred	This column cannot be modified.
TrackBFD	Track BFD	N/A	Boolean: • true. • false.	This column takes effect only when SegmentRoutingIteration includes Traffic engineering

VPWS/StaticSRv6Peers

This table contains SRv6 peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <StaticSRv6Peers>
    <StaticSRv6Peer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
```

```
      <RemoteOpcode></RemoteOpcode>
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </StaticSRv6Peer>
  </StaticSRv6Peers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticSRv6Peers
Table type	Multi-instance table
Row name	StaticSRv6Peer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name	Index	String. Length: 1 to 31 character	N/A
RemoteOpcode	Remote Opcode	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SRv6BackupPeers

This table contains Backup peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SRv6BackupPeers>
    <SRv6BackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <LocalServiceID></LocalServiceID>
      <RemoteServiceID></RemoteServiceID>
      <MainPeerAddr></MainPeerAddr>
      <MainRemoteLocatorName></MainRemoteLocatorName>
      <MainOpcode></MainOpcode>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
      <RemoteOpcode></RemoteOpcode>
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </SRv6BackupPeer>
  </SRv6BackupPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SRv6BackupPeers
Table type	Multi-instance table
Row name	SRv6BackupPeer
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
LocalServiceID	Local service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
RemoteServiceID	Remote service ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
MainPeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.

Column name	Column description	Column type	Data type and restrictions	Remarks
MainRemoteLocatorName	Remote locator name of the main peer	Index	String. Length: 1 to 31 characters.	N/A
MainOpcode	Remote Opcode of the main peer	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name of the backup peer	Index	String. Length: 1 to 31 characters.	N/A
RemoteOpcode	Remote Opcode of the backup peer	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

VPWS/SRv6BypassAcs

This table contains Bypass peer information of VPWS using static-srv6 signaling.

XML structure

```
<VPWS>
  <SRv6BypassAcs>
    <SRv6BypassAc>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <IfIndex></IfIndex>
      <PeerAddr></PeerAddr>
      <RemoteLocatorName></RemoteLocatorName>
      <RemoteOpcode></RemoteOpcode>
      <Color></Color>
      <TunnelPolicy></TunnelPolicy>
    </SRv6BypassAc>
  </SRv6BypassAcs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	SRv6BypassAcs
Table type	Multi-instance table
Row name	SRv6BypassAc
Restrictions	This column cannot be modified.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
IfIndex	Interface index	Index	Unsigned integer.	N/A
PeerAddr	Peer ipv6 address	Index	String, IPv6 address string.	Example: 1::1.
RemoteLocatorName	Remote locator name	Index	String. Length: 1 to 31 characters.	N/A
RemoteOpcode	Remote Opcode	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Color	Color value	N/A	Unsigned integer. Value range: 0 to 4294967295.	This column cannot be modified.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 126 characters.	This column cannot be modified.

Contents

VPWS 2
VPWS/XCGS 2
VPWS/CONNECTIONS 2
VPWS/LDPPEERS 3
VPWS/LDPBACKUPPEERS 3
VPWS/STATICPEERS 4
VPWS/STATICBACKUPPERS 5
VPWS/L3INTERFACES 5
VPWS/ACS 6
VPWS/PWS 7

VPWS

VPWS/XCGS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Parameters don’t exist. 参数不存在。	Parameters don’t exist. 参数不存在。

VPWS/CONNECTIONS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Parameters don’t exist. 参数不存在。	Parameters don’t exist. 参数不存在。

VPWS/LDPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。
The same ESI has been used. 该ESI值已被其它口使用。	When the ESI has been used by others, it cannot be configured. ESI值已被其他口使用时，不允许被配置。
Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。	Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。

VPWS/LDPBACKUPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

	1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	1.The create value attribute column does not allow modification. 2.The merge value attributed column is different from the lower hair attribute column. 1.create value 属性列不允许修改。 2.merge value 属性列与下发属性列不同。
Parameters don’t exist. 参数不存在。	The configuration of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPWS/STATICPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	The xml tag does not support the custom item. Xml标签不支持该定制项。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	Illegal ip address. 非法ip地址。
Parameters don’t exist. 参数不存在。	The configuration of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。
The same ESI has been used. 该ESI值已被其它口使用。	When the ESI has been used by others, it cannot be configured. ESI值已被其他口使用时，不允许被配置。

Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。	Another ESI has been configured for the interface. 已经为该接口配置ESI。若需修改接口的ESI，请先删除已配置的ESI。

VPWS/STATICBACKUPPERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	1.The create value attribute column does not allow modification. 2.The merge value attributed column is different from the lower hair attribute column. 3.The replace value attributed column is different from the lower hair attribute column. 1.create value 属性列不允许修改。 2.merge value属性列与下发属性列不同。 3.replace value属性列与下发属性列不同。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPWS/L3INTERFACES

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值

足而导致赋值失败。	失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无 RBAC 权限。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Interface does not support L3AC. 2.The interface does not exist or is a temporary interface. 1.接口不支持 L3AC。 2. 接口不存在或为临时接口。
Parameters don’t exist. 参数不存在。	The configturation of delete has a default value and doesn’t allow delete. Delete配置有默认值且不允许删除。

VPWS/ACS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment. 执行SET命令,变量存在，但因当前环境下条件不满足而导致赋值失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 1.非二层接口无AC数据。 2.当前接口不是以太接口和聚合接口。
Parameters don’t exist. 参数不存在。	The default value of the delete operation cann’t be set again. .删除操作默认值不能再设置。
No operation permissions. 无操作权限。	No RBAC permissions. 无 RBAC 权限。

VPWS/PWS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

Contents

VRRP 1
VRRP/VRRPOper 1
XML structure 1
Table description 1
Columns 2
VRRP/VRRPAssoIpAddress 3
XML structure 3
Table description 4
Columns 4
VRRP/VRRPTrack 5
XML structure 5
Table description 6
Columns 6
VRRP/VRRPCluster 7
XML structure 7
Table description 7
Columns 7
VRRP/VRRPInterface 8
XML structure 8
Table description 8
Columns 9
VRRP/Base 10
XML structure 10
Table description 10
Columns 11

VRRP

VRRP/VRRPOper

This table contains VRRP operation information.

XML structure

```
<VRRP>
  <VRRPOper>
    <Operation>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <PriorityConfig></PriorityConfig>
      <AuthTypeConfig></AuthTypeConfig>
      <AuthKey></AuthKey>
      <AdverInterval></AdverInterval>
      <PreemptMode></PreemptMode>
      <PreemptDelay></PreemptDelay>
      <BackupArp></BackupArp>
      <Name></Name>
      <FollowName></FollowName>
      <IgnoreInterfaceDown></IgnoreInterfaceDown>
      <Shutdown></Shutdown>
      <SourceInterface></SourceInterface>
      <Ipv4PacketSendMode></Ipv4PacketSendMode>
      <CopyToMember></CopyToMember>
    </Operation>
  </VRRPOper>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPOper
Table type	Multi-instance table
Row name	Operation
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
PriorityConfig	Priority of the virtual router	N/A	Unsigned integer. Value range: 1 to 254. Default: 100.	A larger value indicates a higher priority.
AuthTypeConfig	Authentication type	N/A	Enumeration: • 1—Simple authentication. • 2—MD5 authentication.	By default, no authentication is specified for VRRP. IPv6 VRRP does not support authentication configuration. Both AuthTypeConfig and AuthKey must be configured for the merge, create, replace, delete and remove operations.
AuthKey	Authentication key	N/A	String, case-sensitive. Length: 1 to 8 characters.	Only plaintext password is supported. AuthKey cannot be configured when no AuthTypeConfig is configured.
AdverInterval	Advertisement interval	N/A	Unsigned integer. Value range: 10 to 4095. Default: 100.	The unit is centiseconds.
PreemptMode	Preemption mode	N/A	Enumeration: • **1**—Preemptive mode. • **2**—Non-preemptive mode. Default: Preemptive mode	For the merge, create, and replace operations, configure the preemptive mode and the preemption delay, or configure the non-preemptive mode without the preemption delay. Both the preempt mode and preemption delay must be configured for the delete and remove operations.
PreemptDelay	Preemption delay	N/A	Unsigned integer. Value range: 0 to 180000. Default: 0.	The unit is centiseconds. The default value is 0, which means to preempt immediately.
BackupArp	ARP entry backup function	N/A	Boolean: • true. • false (default).	Enable ARP entry backup for an VRRP backup group.

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Configure an VRRP group as a master group.	N/A	String, case-sensitive. Length: 1 to 20 characters.	Only one name and follow name can be issued.
FollowName	Configure an VRRP group to follow the specified master group.	N/A	String, case-sensitive. Length: 1 to 20 characters.	Only one name and follow name can be issued.
IgnoreInterfaceDown	Ignore interface down events	N/A	Boolean: • true. • false (default).	Enable VRRP to ignore interface physical state down events. IgnoreInterfaceDown and SourceInterface cannot be used together when the address is ipv6.
Shutdown	Disable an VRRP group	N/A	Boolean: • true • false(default). .	Used to disable the specified VRRP group.
SourceInterface	Specify source interface for an VRRP group	N/A	Unsigned integer.	The VRRP group uses the specified source interface to send and receive VRRP messages instead of using the interface where the VRRP group resides.IgnoreInterfaceDown and SourceInterface cannot be used together when the address is ipv6.
Ipv4PacketSendMode	Set the packet sending mode for IPv4 VRRPv3	N/A	Enumeration: • **0**—v3-only**.** • **1**—v2-only**.** • **2**—v2v3-both**.** Default: v3-only**.**	By default, a router configured with IPv4 VRRPv3 sends only VRRPv3 packets.
CopyToMember	Enable the aggregation member port to copy and send ARP/ND packets	N/A	Boolean: • true • false(default).	N/A

VRRP/VRRPAssoIpAddress

This table contains information about VRRP-RBM association information..

XML structure

```
<VRRP>
  <VRRPAssoIpAddress>
    <AssoIpAddr>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <IpAddress></IpAddress>
```

```
      <PrefixLength></PrefixLength>
      <LinkLocal></LinkLocal>
      <Group></Group>
    </AssoIpAddr>
  </VRRPAssoIpAddress>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPAssoIpAddress
Table type	Multi-instance table
Row name	AssoIpAddr
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IpAddress	VRRP virtual IP address	Index	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLength	Mask length or prefix length	N/A	Unsigned integer. Value range: 1 to 128.	For an IPv4 address, the value range is 1 to 32, and the default is 32. For an IPv6 address, the value range is 1 to 128, and the default is 128.
LinkLocal	Whether to specify a link-local address as the virtual IPv6	N/A	Boolean: • **true**. • **false**.	For the merge, create, and replace operations, you cannot configure the LinkLocal keyword when the VRRP virtual IP

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.			address is an IPv4 address. You must configure the LinkLocal keyword when the VRRP virtual IP address is an IPv6 address. When the IPv6 address is a link-local address, set the value to **true**. Otherwise, set the value to **false**. For the delete and remove operations, the LinkLocal keyword cannot be configured.
Group	Group type	N/A	Enumeration: • 0—Not associated with RBM. • 1—Associate the VRRP group with RBM by adding the router to the active group. • 2—Associate the VRRP group with RBM by adding the router to the standby group.	The state of the RBM-associated virtual router is determined by RBM. Whether this column is supported depends on the device model.

VRRP/VRRPTrack

This table contains VRRP-Track association information.

XML structure

```
<VRRP>
  <VRRPTrack>
    <Track>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrackID></TrackID>
      <TrackMode></TrackMode>
      <ReducePriority></ReducePriority>
      <ReduceWeight></ReduceWeight>
      <MemberIp></MemberIp>
    </Track>
  </VRRPTrack>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPTrack
Table type	Multi-instance table
Row name	Track
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrackID	Track entry number	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackMode	Track mode	Index	Enumeration: • **1**—Switchover. • **2**—Prioriry reduced. • **3**—forwarding switchover • **4**—Weight reduced	The priority reduced mode reduces the priority of local router when the track entry switches to Negative state. The switchover mode enables the local router in backup state to take over as the master immediately when the track entry switches to Negative state.
ReducePriority	Value of reduced priority	N/A	Unsigned integer. Value range: 1 to 255.	ReducePriority cannot be configured when TrackMode is switchover. The default value is 10 when TrackMode is priority reduced.
ReduceWeight	Reduce the weight of all	N/A	Unsigned integer. Value range: 1 to 255.	The weight of all virtual forwarders is reduced by

Column name	Column description	Column type	Data type and restrictions	Remarks
	VFs on the router in the VRRP group by the specified value		Default: 30	the specified value when the state of the specified track entry changes to Negative.
MemberIp	Member IP	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.

VRRP/VRRPCluster

This table contains information about VRRP and cluster traffic group association information.

XML structure

```
<VRRP>
  <VRRPCluster>
    <Cluster>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrafficGroupID></TrafficGroupID>
    </Cluster>
  </VRRPCluster>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPCluster
Table type	Multi-instance table
Row name	Cluster
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrafficGroupID	Bind the VRRP group with cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

VRRP/VRRPInterface

This table contains information about VRRP interfaces.

XML structure

```
<VRRP>
  <VRRPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <Ipv4Dot1QVLANID></Ipv4Dot1QVLANID>
      <Ipv4SecondDot1QVLANID></Ipv4SecondDot1QVLANID>
      <Ipv4Version></Ipv4Version>
      <Ipv4RecoverDelay></Ipv4RecoverDelay>
      <Ipv4CheckTtl></Ipv4CheckTtl>
      <Ipv6Dot1QVLANID></Ipv6Dot1QVLANID>
      <Ipv6SecondDot1QVLANID></Ipv6SecondDot1QVLANID>
      <Ipv6RecoverDelay></Ipv6RecoverDelay>
    </Interface>
  </VRRPInterface>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	Only supported on Layer 3 interfaces

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	IPv4 VRRP control VLAN configuration takes effect on only Layer 3 Ethernet subinterfaces and aggregate subinterfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
Ipv4Dot1QVLANID	VLAN ID of the outermost layer.	N/A	Unsigned integer. Value range: 1 to 4094.	For the delete and remove operations, if you configure the outer VLAN ID, you must also configure the inner VLAN ID.
Ipv4SecondDot1QVLANID	VLAN ID of the second outermost layer.	N/A	Unsigned integer. Value range: 1 to 4094.	For the merge, create, and replace operations, you must configure both the outer VLAN ID and inner VLAN ID.
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: • **2**—VRRPv2. • **3**—VRRPv3. Default: VRRPv3.	N/A
Ipv4RecoverDelay	Delay time for the IPv4 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds. Default: 0.	The unit is seconds. The default value is 0,which means to recover immediately.
Ipv4CheckTtl	Enable TTL check for IPv4 VRRP packets	N/A	Boolean: • true (default). • false.	By default, TTL check for IPv4 VRRP packets is enabled.
Ipv6Dot1QVLANID	Specify an IPv6 VRRP control VLAN by its VLAN ID (outermost layer)	N/A	Unsigned integer. Value range: 1 to 4094.	By default, no IPv6 VRRP control VLANs are specified. If the ambiguous termination-enabled interface supports transmitting broadcasts/multicasts, the master sends IPv6 VRRP advertisements within all VLANs whose packets are terminated by the interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6SecondDot1QVLANID	Specify an IPv6 VRRP control VLAN by its VLAN ID (second outermost layer)	N/A	Unsigned integer. Value range: 1 to 4094.	If this parameter is not specified, an IPv6 VRRP control VLAN is specified for the ambiguous Dot1q termination-enabled subinterface.
Ipv6RecoverDelay	Delay time for the IPv6 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds. Default: 0.	The unit is seconds. The default value is 0,which means to recover immediately.

VRRP/Base

This table contains VRRP basic information.

XML structure

```
<VRRP>
  <Base>
    <Ipv4Mode></Ipv4Mode>
    <Ipv4Dscp></Ipv4Dscp>
    <Ipv4SendArp></Ipv4SendArp>
    <Ipv4SendArpInterval></Ipv4SendArpInterval>
    <Ipv4SendArpEnhance></Ipv4SendArpEnhance>
    <Ipv6Mode></Ipv6Mode>
    <Ipv6Dscp></Ipv6Dscp>
    <Ipv6SendNd></Ipv6SendNd>
    <Ipv6SendNdInterval></Ipv6SendNdInterval>
    <Ipv6SendNdEnhance></Ipv6SendNdEnhance>
  </Base>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Mode	Configure the working mode of IPv4 VRRP.	N/A	Enumeration: • 1—Standard mode (default). • 2—Load balancing. • 3—Version-8.	After an IPv4 VRRP backup group is created, you can still modify the working mode of IPv4 VRRP.
Ipv4Dscp	DSCP value for VRRP packets.	N/A	Unsigned integer. Value range: 0 to 63. Default: 48.	The larger the DSCP value, the higher the priority of the packet.
Ipv4SendArp	Enable periodic sending of gratuitous ARP packets for IPv4 VRRP	N/A	Boolean: • true. • false (default).	N/A
Ipv4SendArpInterval	Set the sending interval of gratuitous ARP packets.	N/A	Unsigned integer. Value range: 30 to 1200. Default: 120.	N/A
Ipv4SendArpEnhance	Enable enhance the function of sending gratuitous ARP packets	N/A	Boolean: • true. • false(default).	N/A
Ipv6Mode	Configure the working mode of IPv6 VRRP.	N/A	Enumeration: • 1—Standard mode (default). • 2—Load balancing.	In load balancing mode, the virtual IPv6 address of the backup group and the IPv6 address of the interface cannot be the same.
Ipv6Dscp	DSCP value for IPv6 VRRP packets.	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	The larger the DSCP value, the higher the priority of the packet.
Ipv6SendNd	Enable periodic sending of ND packets for IPv6 VRRP	N/A	Boolean: • true. • false(default).	N/A
Ipv6SendNdInterval	Set the sending interval of ND packets.	N/A	Unsigned integer. Value range: 30 to 1200. Default: 120.	N/A
Ipv6SendNdEnhance	Enable enhance the function of sending ND packets	N/A	Boolean: • true. • false(default).	N/A

Contents

VRRP 1
VRRP/VRRPOper 1
XML structure 1
Table description 1
Columns 2
VRRP/VRRPAssoIpAddress 4
XML structure 4
Table description 5
Columns 5
VRRP/VRRPTrack 6
XML structure 6
Table description 6
Columns 7
VRRP/VRRPCluster 8
XML structure 8
Table description 8
Columns 8
VRRP/VRRPInterface 9
XML structure 9
Table description 9
Columns 10
VRRP/VRRPSpecification 11
XML structure 11
Table description 11
Columns 11
VRRP/Base 12
XML structure 12
Table description 12
Columns 12
VRRP/VRRPVf 13
XML structure 13
Table description 14
Columns 14

VRRP

VRRP/VRRPOper

This table contains VRRP operation table.

XML structure

```
<VRRP>
  <VRRPOper>
    <Operation>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <IfName></IfName>
      <OperState></OperState>
      <PriorityConfig></PriorityConfig>
      <PriorityRun></PriorityRun>
      <IpAddressCount></IpAddressCount>
      <MasterIpAddress></MasterIpAddress>
      <AuthTypeConfig></AuthTypeConfig>
      <AuthTypeRun></AuthTypeRun>
      <AdverInterval></AdverInterval>
      <PreemptMode></PreemptMode>
      <PreemptDelay></PreemptDelay>
      <BackupArp></BackupArp>
      <Name></Name>
      <FollowName></FollowName>
      <IgnoreInterfaceDown></IgnoreInterfaceDown>
      <Shutdown></Shutdown>
      <SourceInterface></SourceInterface>
      <SourceInterfaceName></SourceInterfaceName>
      <WeightRun></WeightRun>
      <Ipv4PacketSendMode></Ipv4PacketSendMode>
      <CopyToMember></CopyToMember>
    </Operation>
  </VRRPOper>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPOper
Table type	Multi-instance table

Item	Description
Row name	Operation
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
OperState	Virtual router state	N/A	Enumeration: • 0—Inactive. • 1—Initialize. • 2—Backup. • 3—Master.	N/A
PriorityConfig	Configured priority of the virtual router	N/A	Unsigned integer. Value range: 1 to 254.	A larger value indicates a higher priority.
PriorityRun	Running priority of the virtual router	N/A	Unsigned integer. Value range: 0 to 255.	The larger value indicates higher priority.
IPAddressCount	Count of associated addresses	N/A	Unsigned integer. Value range: 0 to 16.	N/A
MasterIpAddress	IP address of the master	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthTypeConfig	Configured authentication type	N/A	Enumeration: • 0—No authentication. • 1—Simple authentication. • 2—MD5 authentication.	N/A
AuthTypeRun	Running authentication type	N/A	Enumeration: • 0—No authentication. • 1—Simple authentication. • 2—MD5 authentication. • 3—Not supported.	The value is 3 for VRRPv3
AdverInterval	Advertisement interval	N/A	Unsigned integer. Value range: 10 to 4095.	The unit is centiseconds.
PreemptMode	Preemption mode	N/A	Enumeration: • 1—Preemptive mode. • 2—Non-preemptive mode. Default: Preemptive mode.	N/A
PreemptDelay	Preemption delay	N/A	Unsigned integer. Value range: 0 to 180000.	The unit is centiseconds. The default value is 0, which means to preempt immediately. If PreemptMode is non-preemptive mode, this value cannot be obtained.
BackupArp	ARP entry backup function	N/A	Boolean: • true. • false	Enable ARP entry backup for an VRRP backup group.
Name	Configure an VRRP group as a master group.	N/A	String, case-sensitive. Length: 1 to 20 characters.	Only one name and follow name can be issued.
FollowName	Configure an VRRP group to follow the specified master group.	N/A	String, case-sensitive. Length: 1 to 20 characters.	Only one name and follow name can be issued.
IgnoreInterfaceDown	Ignore interface down events	N/A	Boolean: • true. • false	Enable VRRP to ignore interface physical state down events. IgnoreInterfaceDown and SourceInterface cannot be used together when the address is ipv6.

Column name	Column description	Column type	Data type and restrictions	Remarks
Shutdown	Disable an VRRP group	N/A	Boolean: • true • false.	N/A
SourceInterface	Specify source interface for an VRRP group	N/A	Unsigned integer.	The VRRP group uses the specified source interface to send and receive VRRP messages instead of using the interface where the VRRP group resides. IgnoreInterfaceDown and SourceInterface cannot be used together when the address is ipv6.
SourceInterfaceName	Source interface name of an VRRP group	N/A	String Length: 2 to 47 characters	N/A
WeightRun	Current weight	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Ipv4PacketSendMode	Set the packet sending mode for IPv4 VRRPv3	N/A	Enumeration: • 0—v3-only. • 1—v2-only. • 2—v2v3-both.	By default, a router configured with IPv4 VRRPv3 sends only VRRPv3 packets.
CopyToMember	Enable the aggregation member port to copy and send ARP/ND packets	N/A	Boolean: • true • false	N/A

VRRP/VRRPAssoIpAddress

This table contains information about VRRP-RBM association information.

XML structure

```
<VRRP>
  <VRRPAssoIpAddress>
    <AssoIpAddr>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <IpAddress></IpAddress>
      <PrefixLength></PrefixLength>
      <IfName></IfName>
```

```
      <LinkLocal></LinkLocal>
      <Group></Group>
    </AssoIpAddr>
  </VRRPAssoIpAddress>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPAssoIpAddress
Table type	Multi-instance table
Row name	AssoIpAddr
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IpAddress	Virtual IP address	Index	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
PrefixLength	Mask length or prefix length	N/A	Unsigned integer. Value range: 1 to 128.	For an IPv4 address, the value range is 1 to 32, and the default is 32. For an IPv6 address, the value range is 1 to 128, and the default is 128.
IfName	Interface name	N/A	String Length: 2 to 47 characters	NA

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkLocal	Whether to specify a link-local address as the virtual IPv6 address.	N/A	Boolean: • **true**. • **false**.	If IpAddress is IPv4 address, this value cannot be obtained.
Group	Group type	N/A	Enumeration: • 0—Not associated with RBM. • 1—Associate the VRRP group with RBM by adding the router to the active group. • 2—Associate the VRRP group with RBM by adding the router to the standby group.	The state of the RBM-associated virtual router is determined by RBM. This value is always 0 if the device does not support this column.

VRRP/VRRPTrack

This table contains VRRP-Track association information.

XML structure

```
<VRRP>
  <VRRPTrack>
    <Track>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrackID></TrackID>
      <TrackMode></TrackMode>
      <IfName></IfName>
      <ReducePriority></ReducePriority>
      <ReduceWeight></ReduceWeight>
      <MemberIp></MemberIp>
    </Track>
  </VRRPTrack>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP

Item	Description
Table name	VRRPTrack
Table type	Multi-instance table
Row name	Track
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference.*
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrackID	Track entry number	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackMode	Track mode	Index	Enumeration: • **1**—Switchover. • **2**—Priority reduced. • **3**—forwarding switchover • **4**—Weight reduced	The priority reduced mode reduces the priority of local router when the track entry switches to Negative state. The switchover mode enables the local router in backup state to take over as the master immediately when the track entry switches to Negative state.
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
ReducePriority	Value of reduced priority	N/A	Unsigned integer. Value range: 1 to 255.	If TrackMode is switchover, this value cannot be obtained.
ReduceWeight	Reduce the weight of all VFs on the router in the VRRP group by the specified value	N/A	Unsigned integer. Value range: 1 to 255.	The weight of all virtual forwarders is reduced by the specified value when the state of the specified track entry changes to Negative.

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberIp	Member IP	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.

VRRP/VRRPCluster

This table contains information about VRRP and cluster traffic group association information.

XML structure

```
<VRRP>
  <VRRPCluster>
    <Cluster>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrafficGroupID></TrafficGroupID>
    </Cluster>
  </VRRPCluster>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPCluster
Table type	Multi-instance table
Row name	Cluster
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in

Column name	Column description	Column type	Data type and restrictions	Remarks
				Ifmgr NETCONF XML API Configuration Reference.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrafficGroupID	Bind the VRRP group with cluster traffic group	N/A	Unsigned integer. Value range: 1 to 255.	N/A

VRRP/VRRPInterface

This table contains VRRP interface information.

XML structure

```
<VRRP>
  <VRRPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <Ipv4Dot1QVLANID></Ipv4Dot1QVLANID>
      <Ipv4SecondDot1QVLANID></Ipv4SecondDot1QVLANID>
      <Ipv4Version></Ipv4Version>
      <Ipv4RecoverDelay></Ipv4RecoverDelay>
      <Ipv4CheckTtl></Ipv4CheckTtl>
      <Ipv6Dot1QVLANID></Ipv6Dot1QVLANID>
      <Ipv6SecondDot1QVLANID></Ipv6SecondDot1QVLANID>
      <Ipv6RecoverDelay></Ipv6RecoverDelay>
    </Interface>
  </VRRPInterface>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	IPv4 VRRP control VLAN configuration takes effect on only Layer 3 Ethernet subinterfaces and aggregate subinterfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
Ipv4Dot1QVLANID	VLAN ID of the outermost layer.	N/A	Unsigned integer. Value range: 1 to 4094.	This value cannot be obtained if it's not configured.
Ipv4SecondDot1QVLANID	VLAN ID of the second outermost layer.	N/A	Unsigned integer. Value range: 1 to 4094.	This value cannot be obtained if it's not configured.
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: • **2**—VRRPv2. • 3—VRRPv3.	N/A
Ipv4RecoverDelay	Delay time for the IPv4 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds.	The unit is seconds. The default value is 0,which means to recover immediately.
Ipv4CheckTtl	Enable TTL check for IPv4 VRRP packets	N/A	Boolean: • true • false.	By default, TTL check for IPv4 VRRP packets is enabled.
Ipv6Dot1QVLANID	Specify an IPv6 VRRP control VLAN by its VLAN ID (outermost layer)	N/A	Unsigned integer. Value range: 1 to 4094.	By default, no IPv6 VRRP control VLANs are specified. If the ambiguous termination-enabled interface supports transmitting broadcasts/multicasts, the master sends IPv6 VRRP advertisements within all VLANs whose packets are terminated by the interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6SecondDot1QVLANID	Specify an IPv6 VRRP control VLAN by its VLAN ID (second outermost layer)	N/A	Unsigned integer. Value range: 1 to 4094.	If this parameter is not specified, an IPv6 VRRP control VLAN is specified for the ambiguous Dot1q termination-enabled subinterface.
Ipv6RecoverDelay	Delay time for the IPv6 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds.	The unit is seconds. The default value is 0,which means to recover immediately.

VRRP/VRRPSpecification

This table contains VRRP specification information.

XML structure

```
<VRRP>
  <VRRPSpecification>
    <MaxVrID></MaxVrID>
  </VRRPSpecification>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxVrID	Maximum value of virtual router ID	N/A	Unsigned integer. Value range: 1 to 255.	N/A

VRRP/Base

This table contains VRRP basic information.

XML structure

```
<VRRP>
  <Base>
    <Ipv4Mode></Ipv4Mode>
    <Ipv4Dscp></Ipv4Dscp>
    <Ipv4SendArp></Ipv4SendArp>
    <Ipv4SendArpInterval></Ipv4SendArpInterval>
    <Ipv4SendArpEnhance></Ipv4SendArpEnhance>
    <Ipv6Mode></Ipv6Mode>
    <Ipv6Dscp></Ipv6Dscp>
    <Ipv6SendNd></Ipv6SendNd>
    <Ipv6SendNdInterval></Ipv6SendNdInterval>
    <Ipv6SendNdEnhance></Ipv6SendNdEnhance>
  </Base>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Mode	Configure the working mode of IPv4 VRRP.	N/A	Enumeration: • 1—Standard mode • 2—Load balancing. • 3—Version-8	After an IPv4 VRRP backup group is created, you can still modify the working mode of IPv4 VRRP.
Ipv4Dscp	DSCP value for VRRP packets.	N/A	Unsigned integer. Value range: 0 to 63.	The larger the DSCP value, the higher the priority of the packet.
Ipv4SendArp	Enable periodic sending of gratuitous ARP packets for IPv4 VRRP	N/A	Boolean: • true. • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4SendArpInterval	Set the sending interval of gratuitous ARP packets.	N/A	Unsigned integer. Value range: 30 to 1200.	N/A
Ipv4SendArpEnhance	Enable enhance the function of sending gratuitous ARP packets	N/A	Boolean: • true. • false	N/A
Ipv6Mode	Configure the working mode of IPv6 VRRP.	N/A	Enumeration: • 1—Standard mode • 2—Load balancing.	In load balancing mode, the virtual IPv6 address of the backup group and the IPv6 address of the interface cannot be the same.
Ipv6Dscp	DSCP value for IPv6 VRRP packets.	N/A	Unsigned integer. Value range: 0 to 63.	The larger the DSCP value, the higher the priority of the packet.
Ipv6SendNd	Enable periodic sending of ND packets for IPv6 VRRP	N/A	Boolean: • true. • false	N/A
Ipv6SendNdInterval	Set the sending interval of ND packets.	N/A	Unsigned integer. Value range: 30 to 1200.	N/A
Ipv6SendNdEnhance	Enable enhance the function of sending ND packets	N/A	Boolean: • true. • false	N/A

VRRP/VRRPVf

This table contains VRRP VF information.

XML structure

```
<VRRP>
  <VRRPVf>
    <Vf>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <IfName></IfName>
      <Forwarder>
        <VfID></VfID>
        <State></State>
        <VirtualMac></VirtualMac>
        <OwnerID></OwnerID>
```

```
      <Priority></Priority>
      <ActiveVf></ActiveVf>
    </Forwarder>
  </Vf>
 </VRRPVf>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPVf
Table type	Multi-instance table
Row name	Vf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: • **0**—IPv4. • **1**—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IfName	Interface name	N/A	String Length: 2 to 47 characters	N/A
Forwarder	Forwarder information	Data structure	Members include: • VfID • State • VirtualMac • OwnerID • Priority • ActiveVf	Forwarder group can be repeated multiple times.
VfID	VF ID	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	VF state	N/A	Enumeration: • **0**—Init • **1**—Listen • **2**—Active	N/A
VirtualMac	Virtual MAC address of the VF	N/A	String Value range: 0 to 15.	N/A
OwnerID	Real MAC address of the VF owner	N/A	String Value range: 0 to 15.	N/A
Priority	VF priority	N/A	String Value range: 0 to 255.	Set the priority of the router in the IPv4 VRRP group.
ActiveVf	IP address of the interface where the AVF resides	N/A	String Value range: 0 to 15.	If the current VF is the AVF, this parameter displays local.

Contents

VRRP 1
VRRP/VRRPOper 1
VRRP/VRRPAssoIpAddress 2
VRRP/VRRPTrack 3
VRRP/VRRPCluster 3
VRRP/VRRPInterface 4
VRRP/Base 4

VRRP

VRRP/VRRPOper

Message	Explanation
Maximum number of VRRP groups on the device already reached. 设备上存在的备份组数目已经达到上限。	Maximum number of VRRP groups on the device already reached. For more information, see product manuals.
Maximum number of VRRP groups on the interface already reached. 接口上存在的备份组数目已经达到上限。	Maximum number of VRRP groups on the interface already reached. For more information, see product manuals.
Invalid IP address. 非法的IPv4地址。	Only class A, class B, and class C addresses are available.
Invalid IPv6 address. 非法的IPv6地址。	The VRRP virtual IPv6 address cannot be all 0s or loopback address.
Configuration items don't meet the requirements. 不符合配置要求。	**1.** Cannot set new configurations without non-index column. **2.** Preempt mode and preempt delay have to be configured together.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range. For more information, see product manuals.
Authkey can't include backslashes (\). 认证字中不能有转义字符。	Please change your authkey, and do not include '\'.
VRRP4 is not configured. VRRP4未配置。	VRRP4 service has not been started.
VRRP6 is not configured. VRRP6未配置。	VRRP6 service has not been started.
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only routed ports are available.
The master VRRP group can't follow any other VRRP groups. Master VRRP备份组不能再跟随其他VRRP备份组。	The master VRRP group can't follow any other VRRP groups.
Can't assign a master group name to a subordinate group. 无法将主组名称分配给下属组。	Can't assign a master group name to a subordinate group.
Can't configure the SourceInterface and IgnoreInterfaceDown attribute at the same time in IPv6 mode. 在IPv6模式下不能同时配置SourceInterface和IgnoreInterfaceDown属性。	Can't configure the SourceInterface and IgnoreInterfaceDown attribute at the same time in IPv6 mode.

VRRP/VRRPAssoIpAddress

Message	Explanation
The virtual address has already been assigned to the VRRP group. 虚拟地址已经在备份组中存在。	Cannot assign same virtual address for different VRRP groups.
Maximum number of virtual addresses assigned to the VRRP group already reached. 备份组中配置的虚拟地址个数已经达到上限。	The maximum number of virtual address of VRRP groups is 16 in common scenarios, and it is 4096 in the RBM scenario.
Please delete all other virtual IPv6 addresses before deleting the link-local address. 在删除链路本地地址前请先删除该备份组的其他所有虚拟地址。	Please delete all other virtual IPv6 addresses before deleting the link-local address.
The first assigned virtual IPv6 address must be a link-local address. 第一个指定的虚拟IPv6地址必须是链路本地地址。	Please assign link-local IPv6 address first.
Specify the link-local option when configuring a virtual link-local address. 当配置虚拟链路本地地址时须指定link-local关键字。	Specify the link-local option when configuring a virtual link-local address.
The link-local option can't be specified. 不需要link-local关键字。	Do not specify the link-local option whten configuring a non-link-local address.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range.For more information,please referrence to product manuals.
Configuration items don't meet the requirements. 不符合配置要求。	The linklocal column must be specified when configure IPv6 addresses.
Can't associate a virtual router with RBM in load balancing mode. 负载均衡模式VRRP下不允许将备份组与RBM模块关联。	You can associate a virtual router with RBM only in normal mode. 只有工作在标准模式下的VRRP备份组支持与RBM模块关联。
Can't switch to load balancing mode for an RBM-associated virtual router. 存在RBM关联备份组时，不允许切换到负载均衡VRRP模式。	To set VRRP to work in load balancing mode, first delete all virtual routers associated with RBM. 如果VRRP备份组已经关联了RBM，如果要将VRRP备份组切换为负载均衡模式，需要先删除所有RBM关联备份组。
Can't configure the RBM attribute for an existing virtual router. 如果VRRP备份组已存在，不允许关联RBM属性。	You can associate a virtual router with RBM only when creating the virtual router. 仅允许在备份组创建时增加关联RBM属性。
Can't remove the RBM attribute for a virtual router. 不允许取消VRRP备份组与RBM关联。	To cancel the association with RBM, first delete the virtual router. 如果一个VRRP备份组已经关联RBM，不允许取消与RBM关联。需要先删除整个VRRP备份组。
Can't modify the RBM attribute for a virtual router. 不允许修改VRRP备份组与RBM关联。	To modify the association with RBM, first delete the virtual router. 如果一个VRRP备份组已经关联RBM，不允许修改RBM关联方式。需要先删除整个VRRP备份组。
Can't associate RBM with a virtual router that has already been associated with Track. 如果VRRP备份组已经关联Track，不能再关联	Can't associate a virtual router with RBM if the virtual router has been associated with Track. 如果一个VRRP备份组已经关联Track，则不允许再关联RBM。

RBM。	
Can't associate Track with a virtual router that has already been associated with RBM. 如果VRRP备份组已经关联RBM，不能再关联Track。	Can't associate a virtual router with Track if the virtual router has been associated with RBM. 如果一个VRRP备份组已经关联RBM，则不允许再关联Track。
This device model doesn’t support configure RBM attribute for VRRP. 设备不支持“VRRP备份组支持RBM”功能。	The device doesn't support the RBM option. 设备不支持RBM选项。
Can't modify the mask or prefix length for the virtual addresses that have been configured. 不允许修改备份组已有虚拟IP地址的掩码或者前缀长度。	Can't modify the mask or prefix length for the virtual addresses that have been configured. 不允许修改备份组已有虚拟IP地址的掩码或者前缀长度。
Invalid IPv4 address mask length. 无效的IPv4地址掩码长度。	Invalid IPv4 address mask length. 无效的IPv4地址掩码长度。
Invalid IPv6 address prefix length. 无效的IPv6地址前缀长度。	Invalid IPv6 address prefix length. 无效的IPv6地址前缀长度。

VRRP/VRRPTrack

Message	Explanation
Maximum number of associated track entries already reached. 关联的Track项数目已经达到上限。	The maximum number of track entries of VRRP groups is 8.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range.For more information,please referrence to product manuals.
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only route ports are available.

VRRP/VRRPCluster

Message	Explanation
Can't associate a VRRP group with both HA group and cluster traffic group. 同一VRRP组不能同时关联RBM组和RBM集群。	Can't associate a VRRP group with both HA group and cluster traffic group. 如果需要关联RBM集群，需要先删除关联RBM组。
Can't associate both subordinate group and cluster traffic group with a virtual router. 同一VRRP组不能同时关联管理备份组和RBM集群。	Can't associate both subordinate group and cluster traffic group with a virtual router. 如果需要关联RBM集群，需要先删除关联管理备份组。

VRRP/VRRPInterface

Message	Explanation
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only route ports are available.
Configuration items don't meet the requirements. 不符合配置要求。	**1.** Cannot configure second dot1q without dot1q. **2.** Cannot remove dot1q without second dot1q.
Neither VRRP4 nor VRRP6 is configured. VRRP4和VRRP6都未配置。	Neither VRRP4 nor VRRP6 is configured.

VRRP/Base

Message	Explanation
When Ipv4SendArpInterval is issued, Ipv4SendArp must be delivered at the same time, and Ipv4SendArp is true.For the delete operation, just delete ipv4sendArp. 若是set操作下发Ipv4SendArpInterval时必须同时下发Ipv4SendArp，且Ipv4SendArp值为true。若是delete操作，只需要删除Ipv4SendArp即可。	When Ipv4SendArpInterval is issued, Ipv4SendArp must be delivered at the same time, and Ipv4SendArp is true.For the delete operation, just delete ipv4sendArp. 若是set操作下发Ipv4SendArpInterval时必须同时下发Ipv4SendArp，且Ipv4SendArp值为true。若是delete操作，只需要删除Ipv4SendArp即可。
When Ipv6SendNdInterval is issued, Ipv6SendNd must be delivered at the same time, and Ipv6SendNd is true.For the delete operation, just delete ipv6sendNd. 若是set操作下发Ipv6SendNdInterval时必须同时下发Ipv6SendNd，且Ipv6SendNd值为true。若是delete操作，只需要删除Ipv6SendNd即可。	When Ipv6SendNdInterval is issued, Ipv6SendNd must be delivered at the same time, and Ipv6SendNd is true.For the delete operation, just delete ipv6sendNd. 若是set操作下发Ipv6SendNdInterval时必须同时下发Ipv6SendNd，且Ipv6SendNd值为true。若是delete操作，只需要删除Ipv6SendNd即可。

Contents

VSCAN 1
VSCAN/Vscan 1
XML structure 1
Table description 1
Columns 1
VSCAN/ChangeLog 2
XML structure 2
Table description 3
Columns 3
VSCAN/StopVscanning 4
XML structure 4
Table description 5
Columns 5
VSCAN/StartStopScan 5
XML structure 5
Table description 5
Columns 6

VSCAN

VSCAN/Vscan

This table is used to start VSCAN action.

XML structure

```
<VSCAN>
  <Vscan>
    <Timestamp></Timestamp>
    <TargetType></TargetType>
    <TargetStartHost></TargetStartHost>
    <TargetEndHost></TargetEndHost>
    <TcpPortList></TcpPortList>
    <UdpPortList></UdpPortList>
    <Brute>
      <Service></Service>
      <Mode></Mode>
      <User></User>
      <Password></Password>
    </Brute>
  </Vscan>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	Vscan
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timestamp	Date and time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TargetType	Host IP address version	N/A	Enumeration: • **1**—IPv4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—IPv6.	
TargetStartHost	Address of the start host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
TargetEndHost	Address of the end host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
TcpPortList	TCP port range	N/A	Port range string, port value range: 1 to 65535.	Example: 1,30,100-200
UdpPortList	UDP port range	N/A	Port range string, port value range: 1 to 65535.	Example: 1,30,100-200
Brute	Weak password scanning setting	Data structure	Members include: • Service • Mode • User • Password	N/A
Service	Service type	N/A	Enumeration: • 1—FTP. • 2—SQL Server. • 3—HTTP. • 4—MySQL. • 5—SSH.	HTTP service supports only IPv4.
Mode	Password type	N/A	Enumeration: • 1—Password dictionary. • 2—Custom password. • 3—Password dictionary and custom password.	N/A
User	User-defined username	N/A	String, case-sensitive. Length: 1 to 60 characters.	Supports up to 10 usernames.
Password	User-defined password	N/A	String, case-sensitive. Length: 1 to 31 characters.	Supports up to 50 passwords.

VSCAN/ChangeLog

This table is used to modify VSCAN logs.

XML structure

```
<VSCAN>
  <ChangeLog>
    <Timestamp></Timestamp>
    <IP></IP>
    <Protocol></Protocol>
```

```
    <Port></Port>
    <Status></Status>
    <Service></Service>
    <Ruleversion></Ruleversion>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <Performaction></Performaction>
    <NewRuleID></NewRuleID>
    <NewRuleName></NewRuleName>
    <RuleCreationtime></RuleCreationtime>
    <SrcZoneNameList>
      <ZoneNameItem></ZoneNameItem>
    </SrcZoneNameList>
    <SrcAddrNameList>
      <AddrNameItem></AddrNameItem>
    </SrcAddrNameList>
  </ChangeLog>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	ChangeLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timestamp	Date and time	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
IP	IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Protocol	Protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	Example: TCP, UDP, ICMP.
Port	Port number	Index	Port range string, port value range: 1 to 65535.	N/A
Status	Port status	Index	Enumeration: • 1—Open.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service name	Index	String, case-insensitive. Length: 1 to 63 characters.	Example: ftp,http.
Ruleversion	Rule version	Index	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
RuleID	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
Performaction	Action for detected risks	N/A	Enumeration: • **1**—Disable port. • **2**—IPS protection. • **3**—WAF protection. • **4**—IPS and WAF protection.	N/A
NewRuleID	New rule ID	N/A	Unsigned integer. Value range: 0 to 65534.	N/A
NewRuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
RuleCreationtime	Date and time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
SrcZoneNameList	Name of the source security zone list	Data structure	Members include: • ZoneNameItem	N/A
ZoneNameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A maximum of 7 source security zones are supported in a security zone list.
SrcAddrNameList	Name of the source address list	Data structure	Members include: • AddrNameItem	N/A
AddrNameItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 127 characters.	A maximum of 7 source address names are supported in a source address list.

VSCAN/StopVscanning

This table contains the stop operation for vulnerability scanning.

XML structure

```
<VSCAN>
  <StopVscanning>
```

```
    <Stop></Stop>
  </StopVscanning>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	StopVscanning
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stop	Stop vulnerability scanning	N/A	This column must be empty.	Required.

VSCAN/StartStopScan

This table is used to start or stop the scan operation for asset discovery immediately.

XML structure

```
<VSCAN>
  <StartStopScan>
    <Enable></Enable>
  </StartStopScan>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	StartConfigScan
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Start or stop scan action	N/A	Boolean: • **true**—Start scan. • **false**—Stop scan.	Required.

Contents

VSCAN 1
VSCAN/Config 1
XML structure 1
Table description 1
Columns 2

VSCAN

VSCAN/Config

This table contains the asset discovery scan configuration.

XML structure

```
<VSCAN>
  <Config>
    <IPList>
      <IPVersion></IPVersion>
      <Type></Type>
      <SubnetAddress></SubnetAddress>
      <MaskLen></MaskLen>
      <StartAddress></StartAddress>
      <EndAddress></EndAddress>
    </IPList>
    <TcpPortList></TcpPortList>
    <UdpPortList></UdpPortList>
    <EnableBrute></EnableBrute>
    <Brute>
      <Service></Service>
      <Mode></Mode>
      <User></User>
      <Password></Password>
    </Brute>
    <AutoScan></AutoScan>
    <ScanSchedule>
      <Type></Type>
      <Week></Week>
      <Clock></Clock>
      <Hour></Hour>
    </ScanSchedule>
  </Config>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	Config
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	IP type	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
Type	Address type	N/A	Enumeration: • **1**—Subnet. • **2**—Range.	N/A
SubnetAddress	Address of the host	N/A	IPv4 address. IPv6 address.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
MaskLen	IPv4 or IPv6 address mask	N/A	Unsigned integer. IPv4 value range: 1 to 32. IPv6 value range: 112 to 128.	N/A
StartAddress	Address of the start host	N/A	IPv4 address. IPv6 address.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
EndAddress	Address of the end host	N/A	IPv4 address. IPv6 address.	IPv4 example: 1.1.1.1. IPv6 example: 1::1. IPv6 example: 1:2:3:4:5:6:7:8.
TcpPortList	TCP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100,200.
UdpPortList	UDP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100,200.
EnableBrute	Enable weak password scanning	N/A	Boolean: • **true**. • **false**—default.	N/A
Service	Service type	N/A	Enumeration: • **1**—FTP. • **2**—SQL Server. • **3**—HTTP. • **4**—MySQL. • **5**—SSH.	N/A
Mode	Password type	N/A	Enumeration: • **1**—Password dictionary. • **2**—Custom password. • **3**—Password dictionary and custom password.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
User	User-defined username	N/A	String, case-sensitive. Length: 1 to 60 characters.	Supports up to 10 usernames.
Password	User-defined password	N/A	String, case-sensitive. Length: 1 to 31 characters.	Supports up to 50 passwords.
AutoScan	Whether to enable automatic scanning	N/A	Boolean: • true. • false—default.	N/A
Type	Period type	N/A	Enumeration: • **1**—Week. • **2**—Day. • **3**—Hour.	N/A
Week	By week	N/A	Enumeration: • **1**—Monday. • **2**—Tuesday. • **3**—Wednesday. • **4**—Thursday. • **5**—Friday. • **6**—Saturday. • **7**—Sunday.	N/A
Clock	By day	N/A	Time. Format: HH:MM:00.	Example:17:28:00.
Hour	By fixed hours	N/A	Unsigned integer. Value range: 1 to 12	N/A

Contents

VSCAN 1
VSCAN/GetPercent 1
XML structure 1
Table description 1
Columns 1
VSCAN/GetPortList 2
XML structure 2
Table description 3
Columns 3
VSCAN/GetBruteServicesList 3
XML structure 3
Table description 3
Columns 4
VSCAN/GetScanState 4
XML structure 4
Table description 4
Columns 4
VSCAN/Config 5
XML structure 5
Table description 5
Columns 6

VSCAN

VSCAN/GetPercent

This table is used to get VSCAN percentage.

XML structure

```
<VSCAN>
  <GetPercent>
    <Percent></Percent>
    <TargetType></TargetType>
    <Targets></Targets>
    <TcpPortList></TcpPortList>
    <UdpPortList></UdpPortList>
    <Timestamp></Timestamp>
    <Brute>
      <Service></Service>
      <Mode></Mode>
      <User></User>
      <Password></Password>
    </Brute>
  </GetPercent>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	GetPercent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percent	VSCAN percentage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
TargetType	Host IP address version	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Targets	VSCAN target host address	N/A	String. Length: 1 to 127 characters.	IPv4 example: 1.1.1.1 or 1.1.1.1-1.1.1.100 IPv6 example: 1:2:3:4:5:6:7:8 or 10::1-10::9.
TcpPortList	TCP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100-200
UdpPortList	UDP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100-200
Timestamp	Date and time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Brute	Weak password scanning setting	Data structure	Members include: • Service • Mode • User • Password	N/A
Service	Service type	N/A	Enumeration: • 1—FTP. • 2—SQL Server. • 3—HTTP. • 4—MySQL. • 5—SSH.	HTTP service supports only IPv4.
Mode	Password type	N/A	Enumeration: • 1—Password dictionary. • 2—Custom password. • 3—Password dictionary and custom password.	N/A
User	User-defined username	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Password	User-defined password	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

VSCAN/GetPortList

This table contains port information.

XML structure

```
<VSCAN>
  <GetPortList>
    <Port></Port>
  </GetPortList>
```

```
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	GetPortList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	Port information	N/A	String, case-insensitive. Length: 1 to 64 characters. Format: protocol=xxx, portid=xxx,srvname=xxx	Example: protocol=TCP,portid=80,srvname=HTTP

VSCAN/GetBruteServicesList

This table contains brute services list.

XML structure

```
<VSCAN>
  <GetBruteServicesList>
    <Service></Service>
  </GetBruteServicesList>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	GetBruteServicesList
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service information	N/A	String Format: service=xxx, serviceid=xxx	Example: service=FTP,serviced=1 service=SQL Server,serviced=2 service=HTTP,serviced=3 service=MySQL,serviced=4 service=SSH,serviced=5

VSCAN/GetScanState

This table is used to get assert discovery scan information.

XML structure

```
<VSCAN>
  <GetScanState>
    <State></State>
    <Type></Type>
    <Percent></Percent>
  </GetScanState>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN
Table name	GetScanState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Assert discovery scan status	N/A	Enumeration: • **1**—Executable scan. • **2**—Scanning.	N/A
Type	Assert discovery scan type	N/A	Enumeration: • **0**—No scanning**.**	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Auto scan. • **2**—Scan immediately.	
Percent	Percentage of assert discovery scans	N/A	Unsigned integer. Value range: 0 to 100.	N/A

VSCAN/Config

This table is used to get the asset discovery scan configuration.

XML structure

```
<VSCAN>
  <Config>
    <IPList>
      <IPVersion></IPVersion>
      <Type></Type>
      <SubnetAddress></SubnetAddress>
      <MaskLen></MaskLen>
      <StartAddress></StartAddress>
      <EndAddress></EndAddress>
    </IPList>
    <TcpPortList></TcpPortList>
    <UdpPortList></UdpPortList>
    <EnableBrute></EnableBrute>
    <Brute>
      <Service></Service>
      <Mode></Mode>
      <User></User>
      <Password></Password>
    </Brute>
    <AutoScan></AutoScan>
    <ScanSchedule>
      <Type></Type>
      <Week></Week>
      <Clock></Clock>
      <Hour></Hour>
    </ScanSchedule>
  </Config>
</VSCAN>
```

Table description

Item	Description
Feature name	VSCAN

Item	Description
Table name	Config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	IP type	N/A	Enumeration: • **1**—IPv4. • **2**—IPv6.	N/A
Type	Address type	N/A	Enumeration: • **1**—Subnet. • **2**—Range.	N/A
SubnetAddress	Address of the host	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
MaskLen	IPv4 or IPv6 address mask	N/A	Unsigned integer. IPv4 value range: 1 to 32. IPv6 value range: 112 to 128.	N/A
StartAddress	Address of the start host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
EndAddress	Address of the end host	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
TcpPortList	TCP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100,200.
UdpPortList	UDP port range	N/A	Port range string. Value range: 1 to 65535.	Example: 1,30,100,200.
EnableBrute	Enable weak password scanning	N/A	Boolean: • true. • false.	N/A
Service	Service type	N/A	Enumeration: • **1**—FTP. • **2**—SQL Server. • **3**—HTTP. • **4**—MySQL. • **5**—SSH.	Example: 1,3,4,5
Mode	Password type	N/A	Enumeration: • **1**—Password dictionary.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Custom password. • **3**—Password dictionary and custom password.	
User	User-defined username	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Password	User-defined password	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
AutoScan	Auto scan	N/A	Boolean: • true. • false.	N/A
Type	Period type	N/A	Enumeration: • **1**—Week. • **2**—Day. • **3**—Hour.	N/A
Week	By week	N/A	Enumeration: • **1**—Monday. • **2**—Tuesday. • **3**—Wednesday. • **4**—Thursday. • **5**—Friday. • **6**—Saturday. • **7**—Sunday.	N/A
Clock	By day	N/A	Time. Format: HH:MM:00.	Example:17:28:00.
Hour	By fixed hours	N/A	Unsigned integer. Value range: 1 to 12	N/A

Contents

VSCAN 2
VSCAN/Config 2

VSCAN

VSCAN/Config

Message	Explanation
ip-addresses1 overlaps with address *ip-addresses2* that will be added. 预添加的*x.x.x.x*与*y.y.y.y*重叠。	The new IP addresses cannot conflict with each other for a create, merge, or replace operation. 当执行create、merge和replace操作时，新增IP地址不能相互间配置冲突。
The number of IP addresses exceeds the upper limit. IP 地址个数已超过上限。	The number of IP addresses cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge、和replace操作时，IP地址个数不能超过上限。
The start IP address is larger than the end IP address. 起始 IP 地址大于结束 IP 地址。	The start IP address range should be litter than the end IP address for a create, merge, or replace operation. 当执行create、merge和replace操作时，起始IP地址范围应当小于结束IP地址。
The mask of the IP address exceeds the range 1~32. IP 地址的掩码长度超出范围 1~32。	The mask of the IP address cannot exceed the range 1~32 for a create, merge, or replace operation. 当执行create、merge和replace操作时，IP地址的掩码长度不能超过1~32。
ip-addresses1 overlaps with address *ip-addresses2* that will be added. 预添加的 *X::X* 与 *Y::Y* 重叠。	The new IPv6 addresses cannot conflict with each other for a create, merge, or replace operation. 当执行create、merge和replace操作时，新增IPv6地址不能相互间配置冲突。
The number of IPv6 addresses exceeds the upper limit. IPv6 地址个数已超过上限。	The number of IPv6 addresses cannot exceed the upper limit for a create, merge, or replace operation. 当执行create、merge、和replace操作时，IPv6地址个数不能超过上限。
The start IPv6 address is larger than the end IPv6 address. 起始 IPv6 地址大于结束 IPv6 地址。	The start IPv6 address should be litter than the end IPv6 address for a create, merge, or replace operation. 当执行create、merge和replace操作时，起始IPv6地址范围应当小于结束IPv6地址。
First 112 bits of the start and the end of an IPv6 address range should by the same. IP 地址范围的起始 IPv6 和结束 IPv6 的前 112 位应当相同。	First 112 bits of the start and the end of an IPv6 address range should by the same for a create, merge, or replace operation. 当执行create、merge和replace操作时，IP地址范围的起始IPv6和结束IPv6的前112位应当相同。
The mask of the IPv6 address exceeds the range 112~128. IPv6 地址的掩码长度超出范围 112~128。	The mask of the IPv6 address cannot exceed the range 112~128 for a create, merge, or replace operation. 当执行create、merge和replace操作时，IPv6地址的掩码长度不能超过112~128。
The number of TCP ports exceeds the upper limit. TCP 端口个数已超过上限。	The number of TCP ports cannot exceed the upper limit for a create, a merge, or replace operation. 当执行create、merge和replace操作时，TCP端口个数不能超过上限。
The number of UDP ports exceeds the upper limit.	The number of UDP ports cannot exceed the upper limit for a

UDP 端口个数已超过上限。	create, a merge, or replace operation. 当执行create、merge和replace操作时，UDP端口个数不能超过上限。
Another scanning task is in progress. Please try again later. 存在其他扫描任务正在执行，请稍后执行此任务。	When a scanning task is being executed, it is not allowed to add, delete, or modify the scanning strategy. 当有扫描任务正在执行时，不允许增删改扫描策略。

Contents

VSRP 1
VSRP/VSRPDebug 1
XML structure 1
Table description 1
Columns 1

VSRP

VSRP/VSRPDebug

Use this table to turn on or turn off the VSRP debug information switch.

XML structure

```
<VSRP>
  <VSRPDebug>
    <Enable></Enable>
  </VSRPDebug>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	VSRPDebug
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column Name	Column description	Column type	Data type and restrictions	Remarks
Enable	Turn on or turn off the VSRP debug information switch	Column	Boolean: • **true** (on) • **false** (off, the default)	N/A

Contents

VSRP 1
VSRP/Peers 1
XML structure 1
Table description 1
Columns 2
VSRP/Instances 2
XML structure 2
Table description 3
Columns 4
VSRP/Log 6
XML structure 6
Table description 6
Columns 7

VSRP

VSRP/Peers

This table contains VSRP peer information.

XML structure

```
<VSRP>
  <Peers>
    <Peer>
      <PeerName></PeerName>
      <Track></Track>
      <ProtectTunnelPeer></ProtectTunnelPeer>
      <ProtectTunnelPolicy></ProtectTunnelPolicy>
      <PeerCfg>
        <AddressType></AddressType>
        <PeerAddress></PeerAddress>
        <LocalAddress></LocalAddress>
        <Port></Port>
      </PeerCfg>
    </Peer>
  </Peers>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	Peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Track	Track configuration	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
ProtectTunnelPeer	Tunnel peer IP address	N/A	String, dotted decimal notation.	For example, 1.1.1.1.
ProtectTunnelPolicy	Tunnel policy	N/A	String, case-sensitive. Length: 1 to 19 characters.	N/A
AddressType	Address type	N/A	Enumeration: • 0—ipv4 • 1—ipv6	N/A
PeerAddress	Peer address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
LocalAddress	Local address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
Port	Port configuration	N/A	Unsigned integer. Value range: 1024 to 65535 Default: 60032.	N/A

VSRP/Instances

This table contains VSRP instance information.

XML structure

```
<VSRP>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <BackupMode></BackupMode>
      <BackupId>
```

```
        <Id></Id>
        <PeerName></PeerName>
      </BackupId>
      <BackupRouteAdvertise>
        <RouteAdvertise></RouteAdvertise>
        <MasterCost></MasterCost>
        <BackupCost></BackupCost>
      </BackupRouteAdvertise>
      <Bind>
        <IfIndex></IfIndex>
        <STrunkId></STrunkId>
        <VrrpType></VrrpType>
        <VrId></VrId>
      </Bind>
      <Nas>
        <Id></Id>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <Port></Port>
      </Nas>
      <TrafficBackup>
        <Interval></Interval>
        <Threshold></Threshold>
      </TrafficBackup>
    </Instance>
  </Instances>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
BackupMode	Mode	N/A	Enumeration: • 0—Hot (default) • 1—Warm • 2—Hot dual-active	N/A
BackupId	Specify backup ID for a VSRP instance	Data structure	Members include: • Id • PeerName	N/A
Id	Backup ID of a VSRP instance	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
PeerName	VSRP group name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
BackupRouteAdvertise	Route advertisement for the backup	Data structure	Members include: • RouteAdvertise • MasterCost • BackupCost	N/A
RouteAdvertise	Whether to enable route advertisement for the backup	N/A	Boolean: • **true** • **false** (default)	N/A
MasterCost	Route cost for the master	N/A	Unsigned integer. Value range: 0 to 4261412863. Default: 10.	N/A
BackupCost	Route cost for the backup	N/A	Unsigned integer. Value range: 1 to 4261412864. Default: 20.	N/A
Bind	Binding configuration	Data structure	Members include: • IfIndex • STrunkId	N/A

			• VrrpType • VrId	
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
STrunkId	S-Trunk ID	N/A	Unsigned integer. Value range: 1 to 128.	N/A
VrrpType	VRRP type	N/A	Enumeration: • 0—ipv4 • 1—ipv6	N/A
VrId	VRID	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Nas	NAS configuration	Data structure	Members include: • Id • AddressType • IpAddress • Port	N/A
Id	Logical host name	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
AddressType	Address type	N/A	Enumeration: • 0—ipv4	N/A
IpAddress	Logical unicast IP address	N/A	String, dotted decimal notation.	N/A
Port	Logical interface index	N/A	String. Length: 2 to 47 characters.	N/A
TrafficBackup	Traffic backup	Data	Members include:	N/A

		structure	• Interval • Threshold	
Interval	Traffic backup interval	N/A	Unsigned integer. Value range: 0 to 1440 minutes. Default: 10 minutes.	N/A
Threshold	Traffic threshold	N/A	Unsigned integer. Value range: 0 to 100000 MB. Default: 50 MB.	N/A

VSRP/Log

This table contains VSRP log information.

XML structure

```
<VSRP>
  <VSRPLog>
    <EnableLog></EnableLog>
  </VSRPLog>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Log
Table type	Single-instance table
Row name	VSRPLog
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableLog	Turn on and off the VSRP log.	N/A	Boolean: • true—YES • false—NO(default)	N/A

Contents

VSRP 1
VSRP/Peers 1
XML structure 1
Table description 1
Columns 2
VSRP/Instances 3
XML structure 3
Table description 4
Columns 4
VSRP/Log 6
XML structure 7
Table description 7
Columns 7

VSRP

VSRP/Peers

This table contains VSRP peer information.

XML structure

```
<VSRP>
  <Peers>
    <Peer>
      <PeerName></PeerName>
      <Track></Track>
      <TcpStatus></TcpStatus>
      <TrackStatus></TrackStatus>
      <ProtectTunnelPeer><ProtectTunnelPeer>
      <ProtectTunnelPolicy><ProtectTunnelPolicy>
      <PeerCfg>
        <AddressType></AddressType>
        <PeerAddress></PeerAddress>
        <LocalAddress></LocalAddress>
        <Port></Port>
      </PeerCfg>
    </Peer>
  </Peers>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Peers
Table type	Multi-instance table
Row name	Peer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	Peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Track	Track configuration	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
TcpStatus	TCP connection status	N/A	Enumeration: • 0—Connected • 1—Disconnected	N/A
TrackStatus	Track status	N/A	Enumeration: • 0—NotReady • 1—Positive • 2—Negative	N/A
ProtectTunnelPeer	Tunnel peer IP address	N/A	String, dotted decimal notation.	For example, 1.1.1.1.
ProtectTunnelPolicy	Tunnel policy	N/A	String, case-sensitive. Length: 1 to 19 characters.	N/A
PeerCfg	Peer configuration	Data structure	Members include: • AddressType • PeerAddress • LocalAddress • Port	N/A
AddressType	Address type	N/A	Enumeration: • 0—ipv4 • 1—ipv6	N/A
PeerAdress	Peer address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
LocalAddress	Local address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
Port	Port number	N/A	Unsigned integer.	N/A

			Value range: 1024 to 65535.	

VSRP/Instances

This table contains VSRP instance information.

XML structure

```
<VSRP>
  <Instances>
    <Instance>
      <InstanceName></InstanceName>
      <BackupMode></BackupMode>
      <InstanceStatus></InstanceStatus>
      <LocalStatus></LocalStatus>
      <PeerStatus></PeerStatus>
      <BackupId>
        <Id></Id>
        <PeerName></PeerName>
      </BackupId>
      <BackupRouteAdvertise>
        <RouteAdvertise></RouteAdvertise>
        <MasterCost></MasterCost>
        <BackupCost></BackupCost>
      </BackupRouteAdvertise>
      <Bind>
        <IfIndex></IfIndex>
        <STrunkId></STrunkId>
        <VrrpType></VrrpType>
        <VrId></VrId>
      </Bind>
      <Nas>
        <Id></Id>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <Port></Port>
      </Nas>
      <TrafficBackup>
        <Interval></Interval>
        <Threshold></Threshold>
      </TrafficBackup>
    </Instance>
  </Instances>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceName	Instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
BackupMode	Backup mode	N/A	Enumeration: • 0—Hot • 1—Warm	N/A
InstanceStatus	Instance status	N/A	Enumeration: • 0—Master • 1—Backup • 2—Down	N/A
LocalStatus	Local status	N/A	Enumeration: • 0—Master • 1—Backup • 2—Init • 3—Down	N/A
PeerStatus	Peer status	N/A	Enumeration: • 0—Master • 1—Backup • 2—Init • 3—Down	N/A
BackupId	Specify backup ID for a VSRP	Data	Members include:	N/A

	instance	structure	• Id • PeerName	
Id	Backup ID of a VSRP instance	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
PeerName	VSRP group name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
BackupRouteAdvertise	Route advertisement for the backup	Data structure	Members include: • RouteAdvertise • MasterCost • BackupCost	N/A
RouteAdvertise	Whether to enable route advertisement for the backup	N/A	Boolean: • **true** • **false**	N/A
MasterCost	Route cost for the master	N/A	Unsigned integer. Value range: 0 to 4261412863.	N/A
BackupCost	Route cost for the backup	N/A	Unsigned integer. Value range: 1 to 4261412864.	N/A
Bind	Binding configuration	Data structure	Members include: • IfIndex • STrunkId • VrrpType • VrId	N/A
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in *Ifmgr NETCONF XML API Configuration Reference*.
STrunkId	S-Trunk ID	N/A	Unsigned integer.	N/A

			Value range: 1 to 128.	
VrrpType	VRRP type	N/A	Enumeration: • 0—ipv4 • 1—ipv6	N/A
VrId	VRID	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Nas	NAS configuration	Data structure	Members include: • Id • AddressType • IpAddress • Port	N/A
Id	Logical host name	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
AddressType	Address type	N/A	Enumeration: • 0—ipv4	N/A
IpAddress	Logical unicast IP address	N/A	String, dotted decimal notation.	N/A
Port	Logical interface index	N/A	String. Length: 2 to 47 characters.	N/A
TrafficBackup	Traffic backup configuration	Data structure	Members include: • Interval • Threshold	N/A
Interval	Traffic backup interval	N/A	Unsigned integer. Value range: 0 to 1440 minutes.	N/A
Threshold	Traffic threshold	N/A	Unsigned integer. Value range: 0 to 100000 MB.	N/A

VSRP/Log

This table contains VSRP log information.

XML structure

```
<VSRP>
  <VSRPLog>
    <EnableLog></EnableLog>
  </VSRPLog>
</VSRP>
```

Table description

Item	Description
Feature name	VSRP
Table name	Log
Table type	Single-instance table
Row name	VSRPLog
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableLog	Turn on and off the VSRP log.	N/A	Boolean: • true—YES • false—NO	N/A

Contents

VSRP 1
VSRP/Peers 1
VSRP/Instances 2

VSRP

VSRP/Peers

Message	Explanation
Invalid IP address. 无效的IP地址。	Invalid IP address. Please check your IP address. 无效的IP地址，请检查配置的地址。
Failed to start the service. 服务无法启动。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Incorrect length of received data. 接收数据的长度不正确。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The peer address, the local address, and the address type must be configured at the same time, or the address type mismatch. 必须同时配置对端地址，本地地址和地址类型，或者地址类型不匹配。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The peer IP address can’t be the same as the local IP address. 对端IP地址不能与本地IP地址相同。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Failed to create the peer. 创建Peer失败。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
You can configure only one TCP connection for a VSRP peer. 一个VSRP对端peer只能有一个TCP连接配置。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The specified IP address is used by another VSRP peer. 指定的IP地址已被另一个VSRP对端使用。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Failed to establish the TCP connection. TCP连接创建失败。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The VSRP peer has been used and can’t be deleted. VSRP对端已被引用，无法删除。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Number of VSRP peers has reached the upper limit. VSRP对端数已达到上限。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。

VSRP/Instances

Message	Explanation
Incorrect length of received data. 接收数据的长度不正确。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Invalid IP address. 无效的IP地址。	Invalid IP address. Please check your IP address. 无效的IP地址，请检查配置的地址。
Failed to start the service. 服务无法启动。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Configuration of the VSRP binding group does not conform to specifications. 绑定组的配置不符合规范。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Cannot configure MasterCost or BackupCost when RouteAdvertise is false. 当RouteAdvertise为去使能状态，不能配置MasterCost和BackupCost。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Cannot set MasterCost and BackupCost when you disable RouteAdvertise. 当去使能RouteAdvertise时不能携带MasterCost和BackupCost配置。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Number of VSRP instances has reached the upper limit. VSRP实例数已达到上限。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Failed to create the VSRP instance. 无法创建VSRP实例。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Configuration of the VSRP BackupId group does not conform to specifications. VSRP BackupId组的配置不符合规范。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The VSRP instance already has a backup ID. Please delete it first. VSRP实例已经有备份ID，请先删除它。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The specified VSRP peer doesn’t exist. 指定的VSRP对端peer不存在。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The specified backup ID is being used by this peer. 指定的备份ID正在此对端中使用。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
Configuration of the VSRP BackupRouteAdvertise group does not conform to specifications. VSRP BackupRouteAdvertise组的配置不符合规范。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
When you delete the BackupId configuration, you only need to specify the Id column.	Invalid configuration. Please modify configuration under the guidance.

删除BackupId配置时，只需携带Id列。	无效配置，请按照指导进行配置。
When you delete the Bind configuration, you only need to specify the IfIndex column or STrunkId column or VrId column. 删除Bind组配置时，只需携带IfIndex列或STrunkId列或VrId列。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The IpAddress and AddressType must be configured at the same time. IpAddress和AddressType必须同时配置。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。
The VSRP master’s route cost must be lower than the backup’s route cost. VSRP的主备路由开销必须低于备份的路由开销。	Invalid configuration. Please modify configuration under the guidance. 无效配置，请按照指导进行配置。

Contents

Vsys 1
Vsys/ VsysRestart 1
XML structure 1
Table description 1
Columns 1

Vsys

Vsys/ VsysRestart

This table is used to restart a vSystem.

XML structure

```
<Vsys>
  <VsysRestart>
    <Restart>
      <VsysID></VsysID>
    </Restart>
  </VsysRestart>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	VsysRestart
Table type	Multi-instance table
Row name	Restart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsysID	vSystem ID	N/A	Unsigned integer. Value range: 2 to 4095.

Contents

Vsys 1
Vsys/VsysInformations 1
XML structure 1
Table description 1
Columns 1
Vsys/AllocationInterfaces 2
XML structure 2
Table description 2
Columns 2
Vsys/AllocationVlans 2
XML structure 3
Table description 3
Columns 3
Vsys/Resource/Throughputs 3
XML structure 3
Table description 4
Columns 4
Vsys/Resource/SecpPolicyRules 4
XML structure 4
Table description 5
Columns 5
Vsys/Resource/Sessions 5
XML structure 5
Table description 6
Columns 6

Vsys

Vsys/VsysInformations

This table contains basic parameters for configuring vSystems.

XML structure

```
<Vsys>
  <VsysInformations>
    <VsysInformation>
      <VsysName></VsysName>
      <VsysID></VsysID>
      <Description></Description>
    </VsysInformation>
  </VsysInformations>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	VsysInformations
Table type	Multi-instance table
Row name	VsysInformation
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	The name of the default vSystem is **Admin**.
VsysID	vSystem ID	N/A	Unsigned integer.	To have the system assign the lowest ID among the available IDs to the vSystem, set this column to 0.
Description	vSystem description	N/A	String, case sensitive. Length: 1 to 255 characters.	N/A

Vsys/AllocationInterfaces

This table contains physical interfaces allocated to vSystems.

XML structure

```
<Vsys>
  <AllocationInterfaces>
    <AllocationInterface>
      <VsysName></VsysName>
      <InterfaceList>
        <Interface></Interface>
      </InterfaceList>
    </AllocationInterface>
  </AllocationInterfaces>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	AllocationInterfaces
Table type	Multi-instance table
Row name	AllocationInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.
InterfaceList	Interface list	Data structure	Members include: • Interface.
Interface	Interface type and number	N/A	String, case sensitive. Length: 2 to 47 characters.

Vsys/AllocationVlans

This table contains VLANs allocated to vSystems.

XML structure

```
<Vsys>
  <AllocationVlans>
    <AllocationVlan>
      <VsysName></VsysName>
      <VlanList>
        <Vlan></Vlan>
      </VlanList>
    </AllocationVlan>
  </AllocationVlans>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	AllocationVlans
Table type	Multi-instance table
Row name	AllocationVlan
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.
VlanList	VLAN list	Data structure	Members include: • Vlan.
Vlan	VLAN ID	N/A	Unsigned integer.

Vsys/Resource/Throughputs

This table contains throughput limits for vSystems.

XML structure

```
<Vsys>
 <Resources>
    <Throughputs>
      <Throughput>
       <VsysName></VsysName>
```

```
      <ThroughputValue>
        <Unit></Unit>
        <Value></Value>
      </ThroughputValue>
    </Throughput>
  </Throughputs>
 </Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default vSystem supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
ThroughputValue	Maximum throughput	Data structure	Members include: • Unit. • Value.	The throughput limits for vSystems by default.
Unit	Measurement unit	N/A	Enumeration: • 1—kbps • 2—pps	This column is required,
Value	Throughput value	N/A	Unsigned integer. Value range: 1000 to 100000000.	This column is required,

Vsys/Resource/SecpPolicyRules

This table contains security policy rule limits for vSystems.

XML structure

```
<Vsys>
  <Resources>
    <SecpPolicyRules>
```

```
      <SecpPolicyRule>
        <VsysName></VsysName>
        <Max></Max>
      </SecpPolicyRule>
    </SecpPolicyRules>
</Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	SecpPolicyRules
Table type	Multi-instance table
Row name	SecpPolicyRule
Restrictions	Only the default vSystem supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Max	Maximum number of security policy rules	N/A	Unsigned integer.	The value range depends on the device model.

Vsys/Resource/Sessions

This table contains information of sessions.

XML structure

```
<Vsys>
  <Resources>
    <Sessions>
      <Session>
        <VsysName></VsysName>
        <MaxNum></MaxNum>
        <MaxRate></MaxRate>
      </Session>
    </Sessions>
```

```
  </Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default vSystem supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.
MaxNum	Maximum number of sessions	N/A	Unsigned integer.
MaxRate	Maximum number of sessions that can be established in a second	N/A	Unsigned integer.

Contents

Vsys 1

Vsys/VsysInformations 1
XML structure 1
Table description 1
Columns 1
Vsys/AllocationInterfaces 2
XML structure 2
Table description 2
Columns 2
Vsys/AllocationVlans 3
XML structure 3
Table description 3
Columns 3
Vsys/InterfaceAllocations 3
XML structure 3
Table description 4
Columns 4
Vsys/VLANAllocations 4
XML structure 4
Table description 4
Columns 5
Vsys/Resource/Throughputs 5
XML structure 5
Table description 5
Columns 6
Vsys/Resource/SecpPolicyRules 6
XML structure 6
Table description 6
Columns 7
Vsys/Resource/Sessions 7
XML structure 7
Table description 7
Columns 7

Vsys

Vsys/VsysInformations

This table contains basic parameters for configuring vSystems.

XML structure

```
<Vsys>
  <VsysInformations>
    <VsysInformation>
      <VsysName></VsysName>
      <VsysID></VsysID>
      <Description></Description>
      <Status></Status>
    </VsysInformation>
  </VsysInformations>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	VsysInformations
Table type	Multi-instance table
Row name	VsysInformation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	The name of the default vSystem is **Admin**.
VsysID	vSystem ID	N/A	Unsigned integer.	To have the system assign the lowest ID among the available IDs to the vSystem, set this column to 0.
Description	vSystem description	N/A	String, case sensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	vSystem status	N/A	Enumeration: • **0**—inactive. • **1**—restart. • **2**—active. • **3**—updating.	N/A

Vsys/AllocationInterfaces

This table contains physical interfaces allocated to vSystems.

XML structure

```
<Vsys>
  <AllocationInterfaces>
    <AllocationInterface>
      <VsysName></VsysName>
      <InterfaceList>
        <Interface></Interface>
      </InterfaceList>
    </AllocationInterface>
  </AllocationInterfaces>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	AllocationInterfaces
Table type	Multi-instance table
Row name	AllocationInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.
InterfaceList	Interface list	Data structure	Members include: • Interface.
Interface	Full name of an interface	N/A	String, case sensitive. Length: 2 to 47 characters.

Vsys/AllocationVlans

This table contains VLANs allocated to vSystems.

XML structure

```
<Vsys>
  <AllocationVlans>
    <AllocationVlan>
      <VsysName></VsysName>
      <VlanList>
        <Vlan></Vlan>
      </VlanList>
    </AllocationVlan>
  </AllocationVlans>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	AllocationVlans
Table type	Multi-instance table
Row name	AllocationVlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.
VlanList	VLAN list	Data structure	Members include: • Vlan.
Vlan	VLAN ID	N/A	Unsigned integer.

Vsys/InterfaceAllocations

This table contains vSystem allocation information about physical interfaces.

XML structure

```
<Vsys>
  <InterfaceAllocations>
```

```
    <InterfaceAllocation>
      <IfName></IfName>
      <VsysName></VsysName>
    </InterfaceAllocation>
  </InterfaceAllocations>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	InterfaceAllocations
Table type	Multi-instance table
Row name	InterfaceAllocation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfName	Full name of an interface	Index	String, case sensitive. Length: 2 to 47 characters.
VsysName	vSystem name	N/A	String, case sensitive. Length: 1 to 31 characters.

Vsys/VLANAllocations

This table contains vSystem allocation information about VLANs.

XML structure

```
<Vsys>
  <VlanAllocations>
    <VlanAllocation>
      <VlanID></VlanID>
      <VsysName></VsysName>
    </VlanAllocation>
  </VlanAllocations>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys

Item	Description
Table name	VlanAllocations
Table type	Multi-instance table
Row name	VlanAllocation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VlanID	VLAN ID	Index	Unsigned integer.
VsysName	vSystem name	N/A	String, case sensitive. Length: 1 to 31 characters.

Vsys/Resource/Throughputs

This table contains throughput limits for vSystems.

XML structure

```
<Vsys>
 <Resources>
    <Throughputs>
      <Throughput>
       <VsysName></VsysName>
        <ThroughputValue>
          <Unit></Unit>
          <Value></Value>
        </ThroughputValue>
      </Throughput>
    </Throughputs>
 </Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default vSystem supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
ThroughputValue	Maximum throughput	Data structure	Members include: • Unit. • Value.	N/A
Unit	Measurement unit	N/A	Enumeration: • 1—kbps • 2—pps	This column is required,
Value	Throughput value	N/A	Unsigned integer. Value range: 1000 to 100000000.	This column is required,

Vsys/Resource/SecpPolicyRules

This table contains security policy rule limits for vSystems.

XML structure

```
<Vsys>
  <Resources>
    <SecpPolicyRules>
      <SecpPolicyRule>
        <VsysName></VsysName>
        <Max></Max>
      </SecpPolicyRule>
    </SecpPolicyRules>
</Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	SecpPolicyRules
Table type	Multi-instance table
Row name	SecpPolicyRule
Restrictions	Only the default vSystem supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Max	Maximum number of security policy rules	N/A	Unsigned integer.	The value range depends on the device model.

Vsys/Resource/Sessions

This table contains infomation of sessions.

XML structure

```
<Vsys>
  <Resources>
    <Sessions>
      <Session>
        <VsysName></VsysName>
        <MaxNum></MaxNum>
        <MaxRate></MaxRate>
      </Session>
    </Sessions>
  </Resources>
</Vsys>
```

Table description

Item	Description
Feature name	Vsys
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default vSystem supports.

Columns

Column name	Column description	Column type	Data type and restrictions
VsysName	vSystem name	Index	String, case sensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
MaxNum	Maximum number of sessions	N/A	Unsigned integer.
MaxRate	Maximum number of sessions that can be established in a second	N/A	Unsigned integer.

Vsys

Vsys 1
Vsys/VsysInformations 1
Vsys/AllocationInterfaces 1
Vsys/AllocationVlans 1

Vsys

Vsys/VsysInformations

Message	Explanation
其他vsys正在用该ID。 The ID is already used by another virtual system.	其他vsys正在用该ID。 The ID is already used by another virtual system.
无效的ID。 Invalid virtual system ID.	无效的ID。 Invalid virtual system ID.
vsys 个数已超过上限。 Maximum number of virtual systems already reached.	vsys 个数已超过上限。 Maximum number of virtual systems already reached.
vsys 名称与已存在的VPN名称冲突。 The virtual system name conflicts with existing VPN instance name.	vsys 名称与已存在的VPN名称冲突。 The virtual system name conflicts with existing VPN instance name.
vsys 名称不允许被命名为”admin”。 The name of a non-default virtual system can't be Admin.	vsys 名称不允许被命名为”admin”。 The name of a non-default virtual system cannot be Admin.

Vsys/AllocationInterfaces

Message	Explanation
指定接口已经被分配给其他vsys。 The interface has been assigned to another virtual system.	指定接口已经被分配给其他vsys。 The interface has been assigned to another virtual system.
无效接口。 Invalid interface.	无效接口。 Invalid interface.
指定接口已经绑定过VPN,不能再分配给vsys。 The interface has been associated with a VPN and can't be redistributed to a virtual system.	指定接口已经绑定过VPN,不能再分配给vsys。 The interface has been associated with a VPN and cannot be redistributed to a virtual system.

Vsys/AllocationVlans

Message	Explanation
指定VLAN不存在。 The VLAN doesn’t exist.	指定VLAN不存在。 The VLAN doesn’t exist.
指定VLAN已经被分配给其他vsys。 The VLAN has been assigned to another virtual system.	指定VLAN已经被分配给其他vsys。 The VLAN has been assigned to another virtual system.

Contents

VXLAN 1
VXLAN/ClearVxlanTunnelStatistics 1
XML structure 1
Table description 1
Columns 1
VXLAN/ClearAllVxlanTunnelStatistics 1
XML structure 1
Table description 2
Columns 2

VXLAN

VXLAN/ClearVxlanTunnelStatistics

This table clears traffic statistics for all VXLAN tunnels of a VSI.

XML structure

```
<VXLAN>
  <ClearVxlanTunnelStatistics>
    <VxlanTunnelStatistics>
      <VsiName></VsiName>
      <Clear></Clear>
    </VxlanTunnelStatistics>
  </ClearVxlanTunnelStatistics>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	ClearVxlanTunnelStatistics
Table type	Multi-instance table
Row name	VxlanTunnelStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.
Clear	Clear traffic statistics for all VXLAN tunnels of the VSI	N/A	This column must be empty.

VXLAN/ClearAllVxlanTunnelStatistics

This table clears traffic statistics for all VXLAN tunnels.

XML structure

```
<VXLAN>
```

```
  <ClearAllVxlanTunnelStatistics>
    <Clear></Clear>
  </ClearAllVxlanTunnelStatistics>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	ClearAllVxlanTunnelStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear traffic statistics for all VXLAN tunnels	N/A	This column must be empty.

Contents

VXLAN 1
VXLAN/Base 1
XML structure 1
Table description 1
Columns 1
VXLAN/VXLANs 3
XML structure 3
Table description 3
Columns 4
VXLAN/Tunnels 4
XML structure 4
Table description 5
Columns 5
VXLAN/RmtMACs 5
XML structure 5
Table description 6
Columns 6
VXLAN/Allocations 6
XML structure 7
Table description 7
Columns 7
VXLAN/EvpnVxlanEncaps 7
XML structure 7
Table description 8
Columns 9
VXLAN/EvpnVxlanRTs 13
XML structure 13
Table description 13
Columns 13
VXLAN/VRFs 14
XML structure 14
Table description 14
Columns 14
VXLAN/VLANs 15
XML structure 15
Table description 15
Columns 15
VXLAN/VtepGroups 16
XML structure 16
Table description 16
Columns 16

VXLAN

VXLAN/Base

This table contains information about global VXLAN functions.

XML structure

```
<VXLAN>
  <Base>
    <RmtMacLearn></RmtMacLearn>
    <RmtArpLearn></RmtArpLearn>
    <RmtNdLearn></RmtNdLearn>
    <LocMacNtf></LocMacNtf>
    <ReservedVxlanID></ReservedVxlanID>
    <EvpnMultihomingAdvertise></EvpnMultihomingAdvertise>
    <EvpnMultihomingTimerDFDelay></EvpnMultihomingTimerDFDelay>
    <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
    <VlanBased></VlanBased>
    <EvpnARPMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnARPMobility>
  </Base>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RmtMacLearn	Remote MAC address	N/A	Boolean: • **true**—Enabled(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	learning function		• **false**—Disabled.	
RmtArpLearn	Remote ARP learning function	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	You must enable L2VPN feature globally at first.
RmtNdLearn	Remote ND learning function	N/A	Boolean: • **true**—Enabled(default). • **false**—Disabled.	You must enable L2VPN feature globally at first.
LocMacNtf	Local MAC address report function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	N/A
ReservedVxlanID	Reserved VXLAN ID	N/A	Unsigned integer, Value range: 0 to 16777215.	You must enable L2VPN feature globally at first. You must specify this column for tunnel BFD. The value must be different from that of VxlanID column in VXLANs table. The available value can be get from the NextVxlanID column in Base table.
EvpnMultihomingAdvertise	EVPN multihoming route advertisement	N/A	Boolean: • **true**—Enabled (default). • **false**—Disabled.	You must enable L2VPN feature globally at first.
EvpnMultihomingTimerDFDelay	EVPN multihoming DF election delay	N/A	Unsigned integer, Value range: 1 to 1200.	The default value for this column is 3. You must enable L2VPN feature globally at first.
EvpnArpMobilitySuppression	EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must enable L2VPN feature globally at first.
VlanBased	VLAN-based VXLAN assignment.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must remove all VLAN-to-VXLAN mappings before you disable VLAN-based VXLAN assignment.
EvpnARPMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

VXLAN/VXLANs

This table contains information about VXLAN configurations.

XML structure

```
<VXLAN>
  <VXLANs>
    <Vxlan>
      <VxlanID></VxlanID>
      <VsiName></VsiName>
      <Ipv4Group>
        <GroupAddr></GroupAddr>
        <SrcAddr></SrcAddr>
      </Ipv4Group>
      <TunnelAll></TunnelAll>
    </Vxlan>
  </VXLANs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANs
Table type	Multi-instance table
Row name	Vxlan
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create VXLANs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Can not be modified after creation.
Ipv4Group	VXLAN multicast group structure	Data structure	Members include: • GroupAddr. • SrcAddr.	You must specify both the GroupAddr and SrcAddr when the operation is merge, create or replace.
GroupAddr	IPv4 multicast address	N/A	String, dotted decimal notation.	Example: 224.1.1.1.
SrcAddr	IPv4 source address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
TunnelAll	All tunnels	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	If you assign VXLAN tunnels to a VXLAN one by one, you cannot remove all the VXLAN tunnels by using this column.

VXLAN/Tunnels

This table contains information about tunnels associated with VXLANs.

XML structure

```
<VXLAN>
  <Tunnels>
    <Tunnel>
      <VxlanID></VxlanID>
      <TunnelID></TunnelID>
      <FloodingProxy></FloodingProxy>
      <RelayAgent></RelayAgent>
    </Tunnel>
```

```
  </Tunnels>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range:0-16777215.	You must create a VXLAN first before you merge, replace or create tunnels.
TunnelID	Tunnel ID	Index	Unsigned integer.	You must create a tunnel first before you merge, replace or create tunnels.
FloodingProxy	Flooding proxy	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default).	Can’t be modified after creation.
RelayAgent	Relay agent	N/A	Enumeration: • **0**—Disabled(default). • **1**—PPPoE. • **2**—IPoE. • **3**—The combination of the two type above.	Support for this column depends on the device model.

VXLAN/RmtMACs

This table contains information about remote MAC addresses of each VXLAN.

XML structure

```
<VXLAN>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
```

```
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
    </MAC>
  </RmtMACs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create MACs.
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value must be unicast address.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	You must create a tunnel first before you merge, replace or create MACs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove.

VXLAN/Allocations

This table contains VXLAN allocate information in context.

XML structure

```
<VXLAN>
  <Allocations>
    <Allocation>
      <ContextID></ContextID>
      <Vxlan></Vxlan>
    </Allocation>
  </Allocations>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	You must enable global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	Index	Unsigned integer.	N/A
Vxlan	VXLAN ID list	N/A	Numeric string separated by commas and a maximum of one minus sign. The string cannot contain blank spaces or end with a comma or minus sign. Such as: 1,3,5,8,10-20	N/A

VXLAN/EvpnVxlanEncaps

This table contains information about EVPN with VXLAN encapsulation.

XML structure

```
<VXLAN>
  <EvpnVxlanEncaps>
    <VxlanEncap>
```

```
      <VsiName></VsiName>
      <bRDAuto></bRDAuto>
      <RDAutoType></RDAutoType>
      <RD></RD>
      <bIrtAuto></bIrtAuto>
      <bErtAuto></bErtAuto>
      <bMacAdvertise></bMacAdvertise>
      <bArpMacLearn></bArpMacLearn>
      <NdMacLearn></NdMacLearn>
      <MappingVni></MappingVni>
      <MappingVniBasedSmet></MappingVniBasedSmet>
      <ArpAdvertise></ArpAdvertise>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnMACMobility>
      <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
      <EvpnNDMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnNDMobility>
      <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
      <EvpnArpMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
      </EvpnArpMobility>
    </VxlanEncap>
  </EvpnVxlanEncaps>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanEncaps
Table type	Multi-instance table
Row name	VxlanEncap
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
bRDAuto	RD Auto	N/A	Boolean: • **true**—Enabled. • **false**—Disabled(default)	N/A
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A
bIrtAuto	Import route target	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default)	N/A
bErtAuto	Export route target	N/A	Boolean: • **true**—Enabled. • **false—**Disabled(default)	N/A
bMacAdvertise	MAC advertise	N/A	Boolean: • **true**—Enabled(default) • **false—**Disabled	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: • **true**—Enabled(default) • **false—**Disabled	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: • **true**—Enabled(default) • **false—**Disabled	N/A
MappingVni	Mapping VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	Support for this column depends on the device model.
MappingVniBasedSmet	Whether to reoriginate SMET routes based on VXLAN mapping settings	N/A	Boolean: • **true**—Yes. • **false**—No (default).	N/A
ArpAdvertise	ARP advertisement	N/A	Boolean: • **true**—Enabled(default) • **false**—Disabled	N/A
RDAutoType	Automatic RD generation type	N/A	Enumeration: • **0**—VXLAN ID-based (default). • **1**—Router ID-based.	Available for an automatically generated RD.

UMR	Unknown MAC Route	N/A	Enumeration: • **1—**send enable**.** • **2—**receive enable**.** • **3**—send and receive enable. • **4**—send and detail-suppressed enable. • **5**—send and detail-suppressed and receive enable.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacM

				obilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.
EvpnNDMobilitySuppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnNDMobility	Attributes of ND mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTi	ND mobility	N/A	Unsigned integer.	The default

me	suppression time		Value range: 0 and 120 to 3600, in seconds.	value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.
EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnArpMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent).

				Use this column only when the value for the EvpnArpMobilitySuppression column is true.

VXLAN/EvpnVxlanRTs

This table contains information about EVPN route target associated with VXLANs.

XML structure

```
<VXLAN>
  <EvpnVxlanRTs>
    <VxlanRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </VxlanRT>
  </EvpnVxlanRTs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanRTs
Table type	Multi-instance table
Row name	VxlanRT
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A You must create a VSI and enable EVPN encapsulation vxlan first before you merge, replace or create VXLAN RTs, and the

				RT is not auto in table EvpnVxlanEncaps.
RTType	Route target type	Index	Enumeration: • **1**—Import • **2**—Export	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VXLAN/VRFs

This table contains VNIs associated with VPN instances.

XML structure

```
<VXLAN>
  <VRFs>
    <VRF>
      <VRF></VRF>
      <VNI></VNI>
    </VRF>
  </VRFs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	configured only in the public instance. This column must be empty.
VNI	Layer 3 VNI for the tenant	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			16777215.	

VXLAN/VLANs

This table contains information about VLAN configurations.

XML structure

```
<VXLAN>
  <VLANs>
    <VLAN>
      <VlanID></VlanID>
      <VxlanID></VxlanID>
      <Statistics></Statistics>
    </VLAN>
  </VLANs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
VxlanID	Map the VLAN to a VXLAN	N/A	Unsigned integer, Value range:0-16777215.	You must first enable VLAN-based VXLAN assignment.
Statistics	Whether statistics function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

VXLAN/VtepGroups

This table contains information about VtepGroups configurations.

XML structure

```
<VXLAN>
  <VtepGroups>
    <VtepGroup>
      <GroupIp></GroupIp>
      <RemoteIp></RemoteIp>
    </VtepGroup>
  </VtepGroups>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VtepGroups
Table type	Multi-instance table
Row name	VtepGroup
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIp	VTEP index	Index	String, dotted decimal notation.	Example: 1.1.1.1. You must specify both the GroupIp and RemoteIp when the operation is merge, create or replace.
RemoteIp	Remote Ip Address	N/A	String, dotted decimal notation.	Example: 2.2.2.2. This column must be specified, and repetitions are allowed for this column.

Contents

VXLAN 1

VXLAN/Base 1
XML structure 1
Table description 1
Columns 1
VXLAN/VXLANs 3
XML structure 3
Table description 3
Columns 4
VXLAN/Tunnels 4
XML structure 4
Table description 5
Columns 5
VXLAN/RmtMACs 6
XML structure 6
Table description 6
Columns 7
VXLAN/VXLANAllocations 7
XML structure 7
Table description 8
Columns 8
VXLAN/EvpnVxlanEncaps 8
XML structure 8
Table description 9
Columns 9
VXLAN/EvpnVxlanRTs 12
XML structure 12
Table description 12
Columns 13
VXLAN/VRFs 13
XML structure 13
Table description 13
Columns 14
VXLAN/EvpnESs 14
XML structure 14
Table description 14
Columns 15
VXLAN/VLANs 15
XML structure 15
Table description 16
Columns 16
VXLAN/VtepGroups 16
XML structure 16
Table description 17
Columns 17

VXLAN

VXLAN/Base

This table contains information about global VXLAN functions.

XML structure

```
<VXLAN>
  <Base>
    <RmtMacLearn></RmtMacLearn>
    <RmtArpLearn></RmtArpLearn>
    <RmtNdLearn></RmtNdLearn>
    <LocMacNtf></LocMacNtf>
    <NextVxlanID></NextVxlanID>
    <TotalVxlanNum></TotalVxlanNum>
    <ReservedVxlanID></ReservedVxlanID>
    <SupportRelayAgent></SupportRelayAgent>
    <EvpnMultihomingAdvertise></EvpnMultihomingAdvertise>
    <EvpnMultihomingTimerDFDelay></EvpnMultihomingTimerDFDelay>
    <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
    <VlanBased></VlanBased>
    <EvpnARPMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnARPMobility>
  </Base>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RmtMacLearn	Remote MAC	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address learning function		• **true**—Enabled. • **false**—Disabled.	
RmtArpLearn	Remote ARP learning function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
RmtNdLearn	Remote ND learning function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
LocMacNtf	Local MAC address report function	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
NextVxlanID	Next useful VXLAN ID	N/A	Unsigned integer, Value range: 0 to 16777215.	You must enabled global L2VPN feature at first. The invalid value 4294967295 indicates that no ID can be set.
TotalVxlanNum	Total number of existing VXLANs	N/A	Unsigned integer	You must enabled global L2VPN feature at first.
ReservedVxlanID	Reserved VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	You must enable L2VPN feature globally at first.
SupportRelayAgent	Relay agent supporting function	N/A	Enumeration: • **0**—Disabled. • **1**—PPPoE. • **2**—IPoE. • **3**—The combination of the two type above.	N/A
EvpnMultihomingAdvertise	EVPN multihoming route advertisement	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must enable L2VPN feature globally at first.
EvpnMultihomingTimerDFDelay	EVPN multihoming DF election delay	N/A	Unsigned integer, Value range: 1 to 1200.	You must enable L2VPN feature globally at first.
EvpnArpMobilitySuppression	EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must enable L2VPN feature globally at first.
VlanBased	VLAN-based VXLAN assignment.	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	You must remove all VLAN-to-VXLAN mappings before you disable VLAN-based VXLAN assignment.
EvpnARPMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime.	N/A
DetectTime	ARP mobility	N/A	Unsigned integer.	This column takes effect only when the value for

Column name	Column description	Column type	Data type and restrictions	Remarks
	detection cycle		Value range: 60 to 900, in seconds.	the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	This column takes effect only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range:0 and 120 to 3600, in seconds.	This column takes effect only when the value for the EvpnArpMobilitySuppression column is true.

VXLAN/VXLANs

This table contains information about VXLAN configurations.

XML structure

```
<VXLAN>
  <VXLANs>
    <Vxlan>
      <VxlanID></VxlanID>
      <VsiName></VsiName>
      <Ipv4Group>
        <GroupAddr></GroupAddr>
        <SrcAddr></SrcAddr>
      </Ipv4Group>
      <RmtMacCnt></RmtMacCnt>
      <TunnelAll></TunnelAll>
    </Vxlan>
  </VXLANs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANs
Table type	Multi-instance table
Row name	Vxlan
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A
Ipv4Group	VXLAN multicast group structure	Data structure	Members include: • GroupAddr. • SrcAddr.	N/A
GroupAddr	IPv4 multicast address	N/A	String, dotted decimal notation.	Example: 224.1.1.1.
SrcAddr	IPv4 source address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
RmtMacCnt	The count of remote MAC addresses	N/A	Unsigned integer	N/A
TunnelAll	All tunnels	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

VXLAN/Tunnels

This table contains information about tunnels associated with VXLANs.

XML structure

```
<VXLAN>
  <Tunnels>
    <Tunnel>
      <VxlanID></VxlanID>
      <TunnelID></TunnelID>
      <Type></Type>
      <FloodingProxy></FloodingProxy>
      <State></State>
      <RelayAgent></RelayAgent>
      <InPkts></InPkts>
      <InOctets></InOctets>
      <OutPkts></OutPkts>
      <OutOctets></OutOctets>
      <SystemTime></SystemTime>
      <InPktsRate></InPktsRate>
      <InOctetsRate></InOctetsRate>
      <OutPktsRate></OutPktsRate>
```

```
      <OutOctetsRate></OutOctetsRate>
    </Tunnel>
  </Tunnels>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range:0-16777215.	N/A
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
Type	Tunnel type	N/A	Enumeration: • **0**—auto. • **1**—manual. • **2**—auto and manual.	N/A
FloodingProxy	Flooding proxy	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
State	Tunnel state	N/A	Enumeration: • **1**—down. • **2**—up. • **3**—defect. • 4—blocked.	1-down: The tunnel is not available. 2-up: The tunnel is available. 3-defect: BFD has detected a defect on the tunnel. 4-blocked: The tunnel is a backup tunnel.
RelayAgent	Relay agent	N/A	Enumeration: • **0**—Disabled. • **1**—PPPoE. • **2**—IPoE. • **3**—The combination of the two type above.	N/A
InPkts	Number of incoming packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A

InOctets	Number of incoming bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutPkts	Number of outgoing packets	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	Number of outgoing bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
SystemTime	Time that has elapsed since the device started up when the tunnel statistics are updated	N/A	Unsigned integer. Value range: 0 to 2^{64} – 1, in milliseconds.	If the tunnel statistics feature is disabled, the value for this column is 0.
InPktsRate	Rate of inbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
InOctetsRate	Rate of inbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutPktsRate	Rate of outbound packets	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A
OutOctetsRate	Rate of outbound bytes	N/A	Unsigned integer64. Value range: 0 to 2^{64} - 1.	N/A

VXLAN/RmtMACs

This table contains information about remote MAC addresses of each VXLAN.

XML structure

```
<VXLAN>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
      <Status></Status>
    </MAC>
  </RmtMACs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN

Item	Description
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
Status	Type of remote MAC address	N/A	Enumeration: • **0**—other. • **1**—static. • **2**—selfLearned. • **3**—protocolLearned. • **4**—OpenFlow. • **5**—OVSDB.	1- static: Manually configured static unicast address 2- selfLearned: Dynamically learned unicast address 3- protocolLearned: Unicast address added by protocol. 4- OpenFlow: Unicast address issued by a controller through OpenFlow 5- OVSDB: Unicast address issued by a controller through OVSDB.

VXLAN/VXLANAllocations

This table contains VXLAN allocate information in context.

XML structure

```
<VXLAN>
  <VXLANAllocations>
     <VXLANAllocation>
      <VXLANID></VXLANID>
      <ContextID></ContextID>
     </VXLANAllocation>
  </VXLANAllocations>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANAllocations
Table type	Multi-instance table
Row name	VXLANAllocation
Restrictions	You must enable global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VXLANID	VXLAN ID	Index	Unsigned integer.	N/A
ContextID	Context ID	N/A	Unsigned integer.	N/A

VXLAN/EvpnVxlanEncaps

This table contains information about EVPN encapsulation associated with VXLANs.

XML structure

```
<VXLAN>
  <EvpnVxlanEncaps>
    <VxlanEncap>
      <VsiName></VsiName>
      <bRDAuto></bRDAuto>
      <RD></RD>
      <bIrtAuto></bIrtAuto>
      <bErtAuto></bErtAuto>
      <bMacAdvertise></bMacAdvertise>
      <bArpMacLearn></bArpMacLearn>
      <NdMacLearn></NdMacLearn>
      <MappingVni></MappingVni>
      <MappingVniBasedSmet></MappingVniBasedSmet>
      <ArpAdvertise></ArpAdvertise>
      <UMR></UMR>
      <UMRSendFlag></UMRSendFlag>
      <UMRRecvFlag></UMRRecvFlag>
      <EvpnMacMobilitySuppression></EvpnMacMobilitySuppression>
      <EvpnMACMobility>
        <DetectTime></DetectTime>
        <MoveTimes></MoveTimes>
        <SuppressionTime></SuppressionTime>
```

```
      <BlackholeDupMac></BlackholeDupMac>
    </EvpnMACMobility>
    <EvpnNDMobilitySuppression></EvpnNDMobilitySuppression>
    <EvpnNDMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnNDMobility>
    <EvpnArpMobilitySuppression></EvpnArpMobilitySuppression>
    <EvpnArpMobility>
      <DetectTime></DetectTime>
      <MoveTimes></MoveTimes>
      <SuppressionTime></SuppressionTime>
    </EvpnArpMobility>
  </VxlanEncap>
 </EvpnVxlanEncaps>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanEncaps
Table type	Multi-instance table
Row name	VxlanEncap
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
bRDAuto	RD Auto	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A
bIrtAuto	Import route rarget	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
bErtAuto	Export route rarget	N/A	Boolean: • **true**—Enabled.	N/A

			• **false**—Disabled.	
bMacAdvertise	MAC advertise	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MappingVni	Mapping VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
MappingVniBasedSmet	Whether to reoriginate SMET routes based on VXLAN mapping settings.	MappingVniBasedSmet	Whether to reoriginate SMET routes based on VXLAN mapping settings.	MappingVniBasedSmet
ArpAdvertise	ARP advertisement	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
RDAutoType	Automatic RD generation type	N/A	Enumeration: • **0**—VXLAN ID-based. • **1**—Router ID-based.	Available for an automatically generated RD.
UMR	Unknown MAC Route	N/A	Enumeration: • **1—**send enable**.** • **2—**receive enable**.** • **3**—send and receive enable. • **4**—send and detail-suppressed enable. • **5**—send and detail-suppressed and receive enable.	This column cannot be modified.
UMRSendFlag	Unknown MAC route send flag	N/A	• Enumeration: • 1—Force-static flag. • 2—Detail-suppressed flag. • 3—Force-static flag and detail-suppressed flags.	Use this column only when the value for the UMR column is 1 or 3.
UMRRecvFlag	Unknown MAC route receive flag	N/A	Enumeration: 1—Ignore-static flag.	Use this column only when the value for the UMR column is 2 or 3.
EvpnMacMobilitySuppression	Status of EVPN MAC mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnMACMobility	Attributes of MAC mobility event	Data structure	Members include: • DetectTime.	N/A

	suppression		• MoveTimes. • SuppressionTime. • BlackholeDupMac	
DetectTime	MAC mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
MoveTimes	MAC move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnMacMobilitySuppression column is true.
SuppressionTime	MAC mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnMacMobilitySuppression column is true.
BlackholeDupMac	Whether to set the MAC as a black hole address	N/A	Boolean: • **true**—Enabled. • **false**—Disabled	Use this column only when the value for the EvpnMacMobilitySuppression column is true.
EvpnNDMobilitySuppression	Status of EVPN ND mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnNDMobility	Attributes of ND mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A
DetectTime	ND mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
MoveTimes	ND move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnNdMobilitySuppression column is true.
SuppressionTime	ND mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnNdMobilitySuppression column is true.

EvpnArpMobilitySuppression	Status of EVPN ARP mobility event suppression	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	You must first enable the L2VPN feature globally.
EvpnArpMobility	Attributes of ARP mobility event suppression	Data structure	Members include: • DetectTime. • MoveTimes. • SuppressionTime**.**	N/A
DetectTime	ARP mobility detection cycle	N/A	Unsigned integer. Value range: 60 to 900, in seconds.	The default value for this column is 180 seconds. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
MoveTimes	ARP move threshold in a detection cycle	N/A	Unsigned integer. Value range: 3 to 10.	The default value for this column is 5. Use this column only when the value for the EvpnArpMobilitySuppression column is true.
SuppressionTime	ARP mobility suppression time	N/A	Unsigned integer. Value range: 0 and 120 to 3600, in seconds.	The default value for this column is 0 (permanent). Use this column only when the value for the EvpnArpMobilitySuppression column is true.

VXLAN/EvpnVxlanRTs

This table contains information about EVPN route target associated with VXLANs.

XML structure

```
<VXLAN>
  <EvpnVxlanRTs>
    <VxlanRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </VxlanRT>
  </EvpnVxlanRTs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN

Item	Description
Table name	EvpnVxlanRTs
Table type	Multi-instance table
Row name	VxlanRT
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
RTType	Route target type	Index	Enumeration: • 1—Import • 2—Export	N/A
RTEntry	VPN target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VXLAN/VRFs

This table contains VNIs associated with VPN instances.

XML structure

```
<VXLAN>
  <VRFs>
    <VRF>
      <VRF></VRF>
      <VNI></VNI>
    </VRF>
  </VRFs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	This column must be empty.
VNI	Layer 3VNI for the tenant	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A

VXLAN/EvpnESs

This table contains EVPN Ethernet segment information.

XML structure

```
<VXLAN>
  <EvpnESs>
    <EvpnES>
      <Esi></Esi>
      <VLANID></VLANID>
      <VxlanID></VxlanID>
      <SelfAddr></SelfAddr>
      <MemberGroup>
        <MemberAddr></MemberAddr>
        <bDF></bDF>
      </MemberGroup>
    </EvpnES>
  </EvpnESs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnESs
Table type	Multi-instance table
Row name	EvpnES
Restrictions	You must first enable the L2VPN feature globally.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Esi	Ethernet segment identifier	Index	Five groups of four hexadecimal digits, hyphen-separated.	Example: 0011.2233.4455.6677.8899 The value of an ESI starts with 00 and cannot be all 0s.
VLANID	VLAN mapped to the Ethernet segment	Index	Unsigned integer.	If multiple VLANs are mapped to the Ethernet segment, this value is the lowest VLAN ID. The value of this column also indicates AC types: • 2147483649 for tagged ACs. • 2147483650 for untagged ACs. • 0 for the others.
VxlanID	Mapped VXLAN ID	N/A	Unsigned integer.	N/A
SelfAddr	Local IP address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
GroupMember	Ethernet segment group membership	Data structure	Members include: • MemberAddr. • bDF.	Multiple Ethernet segment group members can exist.
MemberAddr	Member IP address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
bDF	Designated forwarder role	N/A	Boolean: • **true**—DF. • **false**—Not DF.	N/A

VXLAN/VLANs

This table contains information about VLAN configurations.

XML structure

```
<VXLAN>
  <VLANs>
    <VLAN>
      <VlanID></VlanID>
      <VxlanID></VxlanID>
      <Statistics></Statistics>
    </VLAN>
  </VLANs>
```

```
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
VxlanID	Map the VLAN to a VXLAN	N/A	Unsigned integer, Value range:0-16777215.	You must first enable VLAN-based VXLAN assignment.
Statistics	Whether statistics function is enabled	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A

VXLAN/VtepGroups

This table contains information about VtepGroups configurations.

XML structure

```
<VXLAN>
  <VtepGroups>
    <VtepGroup>
      <GroupIp></GroupIp>
      <RemoteIp></RemoteIp>
    </VtepGroup>
  </VtepGroups>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VtepGroups
Table type	Multi-instance table
Row name	VtepGroup
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIp	VTEP index	Index	String, dotted decimal notation.	Example: 1.1.1.1.
RemoteIp	Remote Ip Address	N/A	String, dotted decimal notation.	Example: 2.2.2.2. This column must be specified, and repetitions are allowed for this column.

Contents

VXLAN 2
VXLAN/BASE 2
VXLAN/VXLAN 2
VXLAN/TUNNEL 3
VXLAN/RMTAC 3
VXLAN/ALLOC CONFIG 4
VXLAN/ALLOC DATA 4
VXLAN/ESS 4
VXLAN/EVPNVXLANENCAPS 5
VXLAN/EVPNVXLANRTS 5
VXLAN/VRFS 6

VXLAN

VXLAN/BASE

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Parameters don’t exist. 参数不存在。	Parameters don’t exist. 参数不存在。

VXLAN/VXLAN

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行 SET 命令，变量存在但不能被修改。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Parameters don’t exist. 参数不存在。	Multicast addresses don’t exist. 组播地址不存在。

VXLAN/TUNNEL

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	Tnlid is not satisfied with the RBAC interface policy. Tnlid不满足RBAC接口策略
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	1.The replay-agent ppppoe command is not supported. 2.The replay-agent ipoe command is not supported. 1.不支持replay-agent ppppoe命令。 2.不支持replay-agent ipoe命令。

VXLAN/RMTAC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	Illegal MAC address. 非法的mac地址。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行 SET 命令，变量存在但不能被修改。
No operation permissions. 无操作权限。	Tnlid is not satisfied with the RBAC interface policy. Tnlid不满足RBAC接口策略

VXLAN/ALLOC CONFIG

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。

VXLAN/ALLOC DATA

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

VXLAN/ESS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
No operation permissions. 无操作权限。	No RBAC permissions. 无 RBAC 权限。

Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行 SET 命令，变量存在但不能被修改。
Parameters don’t exist. 参数不存在。	1.When the operation is deleted,the Esi is not configured. 2.The default value of the delete operation cann’t be set again. 1.删除操作时，未配置Esi。 2.删除操作默认值不能再设置。

VXLAN/EVPNVXLANENCAPS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行 SET 命令，变量存在但不能被修改。
Parameters don’t exist. 参数不存在。	The default value of the delete operation cann’t be set again. .删除操作默认值不能再设置。

VXLAN/EVPNVXLANRTS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。

	2.发送、接收数据超。 3.向服务器发起连接失败。
When set is operated, the set value does not meet the requirements of the module. SET操作时，所设的值不符合模块要求。	When set is operated, the set value does not meet the requirements of the module. SET 操作时，所设的值不符合模块要求。

VXLAN/VRFS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation. 无效的配置消息，一般是消息的长度和实际不相符的情况。
Executed the set commamd, the variable exists but can not be modified. 执行SET命令，变量存在但不能被修改。	Executed the set commamd, the variable exists but can not be modified. 执行 SET 命令，变量存在但不能被修改。
No operation permissions. 无操作权限。	No RBAC permissions. 无RBAC权限。
Access a no-access node,communication failure. 访问一个no-access节点，发送、接收数据超时，向服务器发起连接失败。	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server. 1.访问一个no-access节点。 2.发送、接收数据超。 3.向服务器发起连接失败。

Contents

WAAS 1

WAAS/WAASStatus 1
XML structure 1
Table description 1
Columns 2
WAAS/Classes 3
XML structure 3
Table description 4
Columns 4
WAAS/RTPClasses 4
XML structure 4
Table description 4
Columns 5
WAAS/Policies 5
XML structure 5
Table description 5
Columns 6
WAAS/ClassMatchCriterion 6
XML structure 6
Table description 7
Columns 7
WAAS/RTPClassMatchCriterion 12
XML structure 12
Table description 13
Columns 13
WAAS/PolicyInformation 16
XML structure 17
Table description 17
Columns 17
WAAS/PolicyRTPInformation 19
XML structure 19
Table description 19
Columns 20
WAAS/PolicyInInterfaces 21
XML structure 21
Table description 21
Columns 21
WAAS/WAASAsymmetric 22
XML structure 22
Table description 22
Columns 23
WAAS/WAASDRE 23
XML structure 23
Table description 23
Columns 23
WAAS/WAASLogCompress 24
XML structure 24
Table description 24
Columns 25
WAAS/WAASTcpCompress 25
XML structure 25
Table description 25
Columns 26
WAAS/WAASLZCompress 26
XML structure 26
Table description 26
Columns 27

WAAS

WAAS/WAASStatus

This table contains information about WAAS Status settings.

XML structure

```
<WAAS>
  <WAASStatus>
    <CongestionWindow></CongestionWindow>
    <ReceiveBuffer></ReceiveBuffer>
    <KeepAliveStatus></KeepAliveStatus>
    <DREStatus></DREStatus>
    <LZStatus></LZStatus>
    <BlackListStatus></BlackListStatus>
    <BlacklistHoldTime></BlacklistHoldTime>
    <CongestionMethod></CongestionMethod>
    <ConnectLimit></ConnectLimit>
    <CompressNumber></CompressNumber>
    <CompressStatus></CompressStatus>
    <TCPCompressNumber></TCPCompressNumber>
    <TCPCompressStatus></TCPCompressStatus>
    <ConnectWaitTime></ConnectWaitTime>
</WAASStatus>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASStatus
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CongestionWindow	Congestion window size	N/A	Unsigned integer. Value range: 1 to 10. Default: 2.	N/A
ReceiveBuffer	The receive buffer size	N/A	Unsigned integer. Value range: 32 to 16384 Default: 64.	The unit is KB.
KeepAliveStatus	Whether to send keepalive packet	N/A	Boolean: • true (default) • false	
DREStatus	Whether to use DRE optimize	N/A	Boolean: • true (default) • false	
LZStatus	Whether to use LZ optimize	N/A	Boolean: • true (default) • false	
BlackListStatus	Whether to enable denylist		Boolean: • true • false (default)	
BlacklistHoldTime	The hold time of denylist		Unsigned integer. Value range: 1 to 10080 Default: 5.	
CongestionMethod	TCP congestion control method to use		Unsigned integer. Value range: 0 and 3. • 0: RENO • 1: BIC (default) • 2: BBRv1 • 3: BBRv2	
ConnectLimit	Maximum number of connections		Unsigned integer. Value range: 1000 to 4294967295. Default: 10000.	

Column name	Column description	Column type	Data type and restrictions	Remarks
CompressNumber	Number of logs to be compressed	N/A	Unsigned integer. Value range: 2 to 20 Default: 5	To set the number of logs to be compressed, you must also enable log compression.
CompressStatus	Whether to enable log compression or decompression	N/A	Enumeration. • 0: Both disabled (default) • 1: Compress • 2: Decompress	N/A
TCPCompressNumber	Number of TCP packets to be compressed	N/A	Unsigned integer. Value range: 2 to 20 Default: 5	To set the number of logs to be compressed, you must also enable TCP packet compression.
TCPCompressStatus	Whether to enable TCP packet compression or decompression	N/A	Enumeration. • 0: Both disabled (default) • 1: Compress • 2: Decompress	N/A
ConnectWaitTime	Maximum waiting time of connections	N/A	Unsigned integer. Value range: 1 to 75 seconds.	N/A

WAAS/Classes

This table contains information about WAAS Classes settings.

XML structure

```
<WAAS>
  <Classes>
    <Class>
      <ClassName></ClassName>
    </Class>
  </Classes>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A

WAAS/RTPClasses

This table contains information about WAAS RTP classes.

XML structure

```
<WAAS>
  <RTPClasses>
    <Class>
      <ClassName></ClassName>
    </Class>
  </RTPClasses>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS

Table name	RTPClasses
Table type	Multi-instance table
Row name	Class
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A

WAAS/Policies

This table contains information about WAAS Policies settings.

XML structure

```
<WAAS>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	PolicyName	index	String. Length: 1 to 63 characters.	N/A

WAAS/ClassMatchCriterion

This table contains information about WAAS class match criterion settings.

XML structure

```
<WAAS>
  <ClassMatchCriterion>
    <MatchCriterion>
      <ClassName></ClassName>
      <MatchID></MatchID>
      <MatchType></MatchType>
      <IPType></IPType>
      <ProtocolType></ProtocolType>
      <Ipv4Prefix>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4Prefix>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <PortList></PortList>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
      <Ipv4Prefix2>
        <Ipv4Address2></Ipv4Address2>
        <Ipv4PrefixLength2></Ipv4PrefixLength2>
      </Ipv4Prefix2>
      <Ipv6Prefix2>
        <Ipv6Address2></Ipv6Address2>
        <Ipv6PrefixLength2></Ipv6PrefixLength2>
      </Ipv6Prefix2>
```

```
      <PortList2></PortList2>
      <AddressOMSName2></AddressOMSName2>
      <PortOMSName2></PortOMSName2>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </MatchCriterion>
  </ClassMatchCriterion>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	ClassMatchCriterion
Table type	Multi-instance table
Row name	MatchCriterion
Restrictions	Only index column is supported when a match criterion is deleted.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A
MatchID	The identifier of the match criterion	index	Unsigned integer. Value range: 1 to 65535	N/A
MatchType	Match Type	N/A	Unsigned integer. 1:Match the source ip address 2:Match the destination ip address 3:Match any 4: Match the source and destination IP addresses 5: Match ACL rules	N/A
IPType	The Match	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	criterion is for IPv4 or IPv6		2: IPv4 10:IPv6	
ProtocolType	Protocol type of the match criterion	N/A	Unsigned integer. 6: TCP 17: UDP	N/A
Ipv4Address	Ipv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4Address and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv4Address is configured as the source information.
Ipv4PrefixLength	Ipv4 prefix length	N/A	Unsigned integer. Value range: 0 to 32 Default: 32	Ipv4PrefixLength and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv4PrefixLength is configured as the source information.
Ipv6Address	The Ipv6 address of the match rule	N/A	Hexadecimalstring,colon-separated.	Example: 2:2::2:2. Ipv6Address and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv6Address is configured as the source information.
Ipv6PrefixLength	Ipv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128	Ipv6PrefixLength and

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 128	AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv6PrefixLength is configured as the source information.
PortList	The port list of the match criterion	N/A	String.	PortList and PortOMSName cannot be configured at the same time. When MatchType is 4, PortList is configured as the source information.
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	AddressOMSName and Ipv4Prefix cannot be configured at the same time. When MatchType is 4, AddressOMSName is configured as the source information.
PortOMSName	Name of the port address group	N/A	String. Length: 1 to 63 characters.	PortOMSName and PortList cannot be configured at the same time. When MatchType is 4, PortOMAName is configured as the source information.
Ipv4Address2	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only when

Column name	Column description	Column type	Data type and restrictions	Remarks
				MatchType is 4, Ipv4Address2 can be configured as the destination information. Ipv4Address2 and AddressOMSName 2 cannot be configured at the same time.
Ipv4PrefixLen gth2	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32	Only when MatchType is 4, Ipv4PrefixLength2 can be configured as the destination information. Ipv4PrefixLength2 And AddressOMSName 2 cannot be configured at the same time.
Ipv6Address2	IPv6 address	N/A	String, dotted decimal notation.	Example:2:2::2:2. Only when MatchType is 4, Ipv6Address2 can be configured as the destination information. Ipv6Address2 and AddressOMSName 2 cannot be configured at the same time.
Ipv6PrefixLen gth2	IPv6 mask length	N/A	Unsigned integer. Value range: 0 to 128	Only when MatchType is 4, Ipv6PrefixLength2 can be configured as the destination

Column name	Column description	Column type	Data type and restrictions	Remarks
				information. Ipv6PrefixLength2 And AddressOMSName 2 cannot be configured at the same time.
PortList2	The port list of the match criterion	N/A	String.	Only when MatchType is 4, PortList2 can be configured as the destination information. PortList2 and PortOMSName2 cannot be configured at the same time.
AddressOMS Name2	Name of the address object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, AddressOMSName 2 can be configured as the destination information. AddressOMSName 2 and Ipv4Address2 cannot be configured at the same time.
PortOMSNam e2	Name of the port object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, PortOMSName2 can be configured as the destination information. PortOMSName2 and PortList2 cannot be configured at the

Column name	Column description	Column type	Data type and restrictions	Remarks
				same time.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

WAAS/RTPClassMatchCriterion

This table contains information about WAAS RTP class match criterion settings.

XML structure

```
<WAAS>
  <RTPClassMatchCriterion>
    <MatchCriterion>
      <ClassName></ClassName>
      <MatchID></MatchID>
      <MatchType></MatchType>
      <IPType></IPType>
      <ProtocolType></ProtocolType>
      <Ipv4Prefix>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4Prefix>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <PortList></PortList>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
      <Ipv4Prefix2>
        <Ipv4Address2></Ipv4Address2>
        <Ipv4PrefixLength2></Ipv4PrefixLength2>
      </Ipv4Prefix2>
      <PortList2></PortList2>
      <AddressOMSName2></AddressOMSName2>
      <PortOMSName2></PortOMSName2>
    </MatchCriterion>
  </RTPClassMatchCriterion>
```

```
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	RTPClassMatchCriterion
Table type	Multi-instance table
Row name	MatchCriterion
Restrictions	Only index column is supported when a match criterion is deleted.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A
MatchID	Match criterion ID	index	Unsigned integer. Value range: 1 to 65535	N/A
MatchType	Match type	N/A	Unsigned integer. 1: Match the source IP address 2: Match the destination IP address 3: Match any 4: Match the source and destination IP addresses	N/A
IPType	IP version of the match criterion	N/A	Unsigned integer. 2: IPv4 10: IPv6	N/A
ProtocolType	Protocol type of the match criterion	N/A	Unsigned integer. 17: UDP	N/A
Ipv4Address	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4Address and

Column name	Column description	Column type	Data type and restrictions	Remarks
				AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv4Address is configured as the source information.
Ipv4PrefixLength	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32 Default: 32	Ipv4PrefixLength and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv4PrefixLength is configured as the source information.
Ipv6Address	The IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
Ipv6PrefixLength	IPv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128 Default: 128	
PortList	The port list of the match criterion	N/A	String.	PortList and PortOMSName cannot be configured at the same time. When MatchType is 4, PortList is configured as the source information.
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	AddressOMSName and Ipv4Prefix cannot be configured at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When MatchType is 4, AddressOMSName is configured as the source information.
PortOMSName	Name of the port address group	N/A	String. Length: 1 to 63 characters.	PortOMSName and PortList cannot be configured at the same time. When MatchType is 4, PortOMAName is configured as the source information.
Ipv4Address2	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only when MatchType is 4, Ipv4Address2 can be configured as the destination information. Ipv4Address2 and AddressOMSName 2 cannot be configured at the same time.
Ipv4PrefixLength2	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32	Only when MatchType is 4, Ipv4PrefixLength2 can be configured as the destination information. Ipv4PrefixLength2 And AddressOMSName 2 cannot be configured at the same time.
PortList2	The port list of	N/A	String.	Only when

Column name	Column description	Column type	Data type and restrictions	Remarks
	the match criterion			MatchType is 4, PortList2 can be configured as the destination information. PortList2 and PortOMSName2 cannot be configured at the same time.
AddressOMSName2	Name of the address object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, AddressOMSName2 can be configured as the destination information. AddressOMSName2 and Ipv4Address2 cannot be configured at the same time.
PortOMSName2	Name of the port object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, PortOMSName2 can be configured as the destination information. PortOMSName2 and PortList2 cannot be configured at the same time.

WAAS/PolicyInformation

This table contains information about WAAS policy information settings.

XML structure

```
<WAAS>
  <PolicyInformation>
    <Information>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <OptAction></OptAction>
      <BeforeClass></BeforeClass>
      <PacketLossRate></PacketLossRate>
      <EncodeTimeout></EncodeTimeout>
      <DecodeTimeout></DecodeTimeout>
      <BlockSize></BlockSize>
      <SampleInterval></SampleInterval>
      <ProbeAgingTime></ProbeAgingTime>
      <LossRecoveryType></LossRecoveryType>
    </Information>
  </PolicyInformation>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PolicyInformation
Table type	Multi-instance table
Row name	Information
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	index	String. Length: 1 to 63 characters.	
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OptAction	The optimize action	N/A	Unsigned integer. Value range: 0 to 10 0: No optimize action (default) 1:TFO 2:DRE 3:TFO and DRE 4:LZ 5:TFO and LZ 6:DRE and LZ 7:TFO and DRE and LZ 8:By Pass 9:Packet-Dup 10:FEC	N/A
BeforeClass	Insert a class before this class.	N/A	String. Length: 1 to 63 characters.	When this class is deleted, the class before it is moved to the end.
PacketLossRate	The packet loss ratio	N/A	Unsigned integer. Value range: 1 to 50 Default: 35	N/A
EncodeTimeout	The encode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default: 500 ms	N/A
DecodeTimeout	The decode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default: 800 ms	N/A
BlockSize	The number of packets to encode	N/A	Unsigned integer. Value range: 1 to 150 Default: 20	N/A
SampleInterval	Sampling interval value	N/A	Unsigned integer. Value range: 1 to 1000 ms Default: 100 ms	N/A
ProbeAgingTime	Probe aging time	N/A	Unsigned integer. Value range: 0 to 60 seconds	The value 0 means no aging.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 1 second	
LossRecovery Type	FEC type	N/A	Unsigned integer. 0: determined-fec (default) 1: adaptive-fec	N/A

WAAS/PolicyRTPInformation

This table contains information about RTP settings in a WAAS policy.

XML structure

```
<WAAS>
  <PolicyRTPInformation>
    <Information>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <OptAction></OptAction>
      <BeforeClass></BeforeClass>
      <PacketLossRate></PacketLossRate>
      <EncodeTimeout></EncodeTimeout>
      <DecodeTimeout></DecodeTimeout>
      <BlockSize></BlockSize>
      <SampleInterval></SampleInterval>
      <ProbeAgingTime></ProbeAgingTime>
      <LossRecoveryType></LossRecoveryType>
    </Information>
  </PolicyRTPInformation>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PolicyRTPInformation
Table type	Multi-instance table
Row name	Information
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	index	String.	PolicyName
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A
OptAction	The optimization action	N/A	Unsigned integer. RTP optimization 0: No optimization (default) 1: FEC optimization	N/A
BeforeClass	Insert a class before this class.	N/A	String.	When this class is deleted, the class before it is moved to the end.
PacketLossRate	The packet loss ratio	N/A	Unsigned integer. Value range: 1 to 50 Default: 35	N/A
EncodeTimeout	The encode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default: 500 ms	N/A
DecodeTimeout	The decode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default: 800 ms	N/A
BlockSize	The number of packets to encode	N/A	Unsigned integer. Value range: 1 to 150 Default: 20	N/A
SampleInterval	Sampling interval value	N/A	Unsigned integer. Value range: 1 to 1000 ms Default: 100 ms	N/A
ProbeAgingTime	Probe aging time	N/A	Unsigned integer. Value range: 0 to 60 seconds Default: 1 second	The value 0 means no aging.

Column name	Column description	Column type	Data type and restrictions	Remarks
LossRecovery Type	FEC type	N/A	Unsigned integer. 0: determined-fec (default) 1: adaptive-fec	N/A

WAAS/PolicyInInterfaces

This table contains information about WAAS policyInInterfaces settings.

XML structure

```
<WAAS>
  <PolicyInInterfaces>
    <PolicyInInterface>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </PolicyInInterface>
  </PolicyInInterfaces>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PolicyInInterfaces
Table type	Multi-instance table
Row name	PolicyInInterface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Which interface is to bind was	index	Unsigned integer.	Some versions support interface

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy			name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy Name	N/A	String. Length: 1 to 63 characters.	

WAAS/WAASAsymmetric

This table contains information about WAAS asymmetric settings.

XML structure

```
<WAAS>
  <WAASAsymmetric>
    <Asymmetric>
    </Asymmetric>
  </WAASAsymmetric>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASAsymmetric
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Asymmetric	Whether to enable asymmetric mode.	N/A	Boolean: • **true** • **false**(default)	N/A

WAAS/WAASDRE

This table contains information about WAAS DRE settings.

XML structure

```
<WAAS>
  <WAASDRE>
    <Agingtime></Agingtime>
    <OffStep></OffStep>
  </WAASDRE>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASDRE
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Agingtime	Aging time of DRE cache	N/A	Unsigned integer. Value range: 10 to 60	Unit: Minutes

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: No Aging	
OffStep	DRE match offset step	N/A	Unsigned integer. Value range: 1 to 4 • 1: Normal (default) • 2: General • 3: Fast • 4: Fastest	N/A

WAAS/WAASLogCompress

This table contains information about WAAS UDP log compression settings.

XML structure

```
<WAAS>
  <WAASLogCompress>
    <LogCompress>
      <Ipv4Address></Ipv4Address>
      <Port></Port>
    </LogCompress>
  </WAASLogCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASLogCompress
Table type	Multi-instance table
Row name	LogCompress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Destination IPv4 address of logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Port	Destination port of logs	N/A	Unsigned integer. Value range: 1 to 65535	N/A

WAAS/WAASTcpCompress

This table contains information about WAAS Tcp packet compression settings.

XML structure

```
<WAAS>
  <WAASTcpCompress>
    <TcpCompress>
      <Ipv4Address></Ipv4Address>
      <Port></Port>
    </TcpCompress>
  </WAASTcpCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASTcpCompress
Table type	Multi-instance table
Row name	TcpCompress
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Destination IPv4 address of logs	index	String, dotted decimal notation.	Example: 1.1.1.1.
Port	Destination port of logs	index	Unsigned integer. Value range: 1 to 65535	N/A

WAAS/WAASLZCompress

This table contains information about WAAS LZ compression settings.

XML structure

```
<WAAS>
  <WAASLZCompress>
    <LZCompress>
      <AddressType></AddressType>
      <ProtocolType></ProtocolType>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </LZCompress>
  </WAASLZCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASLZCompress
Table type	Multi-instance table
Row name	LZCompress
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP version	index	Unsigned integer. 2: IPv4	N/A
ProtocolType	Protocol type	index	Unsigned integer. 1: TCP 2: UDP	N/A
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	N/A
PortOMSName	Name of the port object group	N/A	String. Length: 1 to 63 characters.	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

Contents

WAAS 1

WAAS/WAASStatus 1
XML structure 1
Table description 1
Columns 2
WAAS/Classes 3
XML structure 3
Table description 4
Columns 4
WAAS/RTPClasses 4
XML structure 4
Table description 4
Columns 5
WAAS/PredefineClassInfo 5
XML structure 5
Table description 5
Columns 6
WAAS/Policies 6
XML structure 6
Table description 6
Columns 6
WAAS/ClassMatchCriterion 7
XML structure 7
Table description 8
Columns 8
WAAS/RTPClassMatchCriterion 13
XML structure 13
Table description 13
Columns 14
WAAS/PolicyInformation 17
XML structure 17
Table description 17
Columns 18
WAAS/PolicyRTPInformation 19
XML structure 19
Table description 20
Columns 20
WAAS/PolicyInInterfaces 21
XML structure 21
Table description 21
Columns 22
WAAS/IPv4BlacklistInfo 22
XML structure 22
Table description 23
Columns 23
WAAS/IPv6BlacklistInfo 23
XML structure 23
Table description 24
Columns 24
WAAS/DREStatistics 24
XML structure 24
Table description 25
Columns 26
WAAS/IPv4SessionInfo 28
XML structure 28
Table description 29
Columns 30

WAAS/IPv6SessionInfo 33
XML structure 33
Table description 35
Columns 35
WAAS/WAASAsymmetric 39
XML structure 39
Table description 39
Columns 39
WAAS/WAASDRE 39
XML structure 40
Table description 40
Columns 40
WAAS/WAASLogCompress 40
XML structure 41
Table description 41
Columns 41
WAAS/WAASTcpCompress 41
XML structure 41
Table description 42
Columns 42
WAAS/WAASLZCompress 42
XML structure 42
Table description 43
Columns 43

WAAS

WAAS/WAASStatus

This table contains information about WAAS Status settings.

XML structure

```
<WAAS>
  <WAASStatus>
    <CongestionWindow></CongestionWindow>
    <ReceiveBuffer></ReceiveBuffer>
    <KeepAliveStatus></KeepAliveStatus>
    <DREStatus></DREStatus>
    <LZStatus></LZStatus>
    <BlackListStatus></BlackListStatus>
    <BlacklistHoldTime></BlacklistHoldTime>
    <CongestionMethod></CongestionMethod>
    <ConnectLimit></ConnectLimit>
    <CompressNumber></CompressNumber>
    <CompressStatus></CompressStatus>
    <TCPCompressNumber></TCPCompressNumber>
    <TCPCompressStatus></TCPCompressStatus>
    <ConnectWaitTime></ConnectWaitTime>
</WAASStatus>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CongestionWindow	Congestion window size	N/A	Unsigned integer. Value range: 1 to 10. Default: 2.	N/A
ReceiveBuffer	The receive buffer size	N/A	Unsigned integer. Value range: 32 to 16384 Default: 64.	The unit is KB.
KeepAliveStatus	Whether to send keepalive packet	N/A	Boolean: • true • false	
DREStatus	Whether to use DRE optimize	N/A	Boolean: • true • false	
LZStatus	Whether to use LZ optimize	N/A	Boolean: • true • false	
BlackListStatus	Whether to enable denylist		Boolean: • true • false	
BlacklistHoldTime	The hold time of denylist		Unsigned integer. Value range: 1 to 10080 Default: 5.	
CongestionMethod	TCP congestion control method to use		Unsigned integer. Value range: 0 and 3. • 0: RENO • 1: BIC • 2: BBRv1 • 3: BBRv2	
ConnectLimit	Maximum number of connections		Unsigned integer. Value range: 1000 to 4294967295. Default: 10000.	

Column name	Column description	Column type	Data type and restrictions	Remarks
CompressNumber	Number of logs to be compressed	N/A	Unsigned integer. Value range: 2 to 20 Default: 5	To set the number of logs to be compressed, you must also enable log compression.
CompressStatus	Whether to enable log compression or decompression	N/A	Enumeration. • 0: Both disabled • 1: Compress • 2: Decompress	N/A
TCPCompressNumber	Number of TCP packets to be compressed	N/A	Unsigned integer. Value range: 2 to 20 Default: 5	To set the number of logs to be compressed, you must also enable TCP packet compression.
TCPCompressStatus	Whether to enable tcp packet compression or decompression	N/A	Enumeration. • 0: Both disabled • 1: Compress • 2: Decompress	N/A
ConnectWaitTime	Maximum waiting time of connections	N/A	Unsigned integer. Value range: 0 to 75 seconds.	0 means not configured.

WAAS/Classes

This table contains information about WAAS Classes settings.

XML structure

```
<WAAS>
  <Classes>
    <Class>
      <ClassName></ClassName>
    </Class>
  </Classes>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A

WAAS/RTPClasses

This table contains information about WAAS RTP classes.

XML structure

```
<WAAS>
  <RTPClasses>
    <Class>
      <ClassName></ClassName>
    </Class>
  </RTPClasses>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	RTPClasses
Table type	Multi-instance table

Row name	Class
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A

WAAS/PredefineClassInfo

This table contains information about WAAS predefined classes.

XML structure

```
<WAAS>
  <PredefineClassInfo>
    <PredefineClass>
      <PredefineClassName></PredefineClassName>
    </PredefineClass>
  </PredefineClassInfo>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PredefineClassInfo
Table type	Multi-instance table
Row name	PredefineClass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PredefineClassName	Predefined class name	index	String. Length: 1 to 63 characters.	N/A

WAAS/Policies

This table contains information about WAAS Policiessettings.

XML structure

```
<WAAS>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	PolicyName	index	String. Length: 1 to 63 characters.	N/A

WAAS/ClassMatchCriterion

This table contains information about WAAS class match criterion settings.

XML structure

```
<WAAS>
  <ClassMatchCriterion>
    <MatchCriterion>
      <ClassName></ClassName>
      <MatchID></MatchID>
      <MatchType></MatchType>
      <IPType></IPType>
      <ProtocolType></ProtocolType>
      <Ipv4Prefix>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4Prefix>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <PortList></PortList>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
      <Ipv4Prefix2>
        <Ipv4Address2></Ipv4Address2>
        <Ipv4PrefixLength2></Ipv4PrefixLength2>
      </Ipv4Prefix2>
      <Ipv6Prefix2>
        <Ipv6Address2></Ipv6Address2>
        <Ipv6PrefixLength2></Ipv6PrefixLength2>
      </Ipv6Prefix2>
      <PortList2></PortList2>
      <AddressOMSName2></AddressOMSName2>
      <PortOMSName2></PortOMSName2>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </MatchCriterion>
  </ClassMatchCriterion>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	ClassMatchCriterion
Table type	Multi-instance table
Row name	MatchCriterion
Restrictions	Only index column is supported when a match criterion is deleted.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A
MatchID	The identify of the match criterion	index	Unsigned integer. Value range: 1 to 65535	N/A
MatchType	Match Type	N/A	Unsigned integer. 1:Match the source ip address 2:Match the destination ip address 3:Match any 4: Match the source and destination IP addresses 5: Match ACL rules	N/A
IPType	The Match criterion is for IPv4 or IPv6	N/A	Unsigned integer. 2: IPv4 10:IPv6	N/A
ProtocolType	Protocol type of the match criterion	N/A	Unsigned integer. 6:TCP 17: UDP	N/A
Ipv4Address	Ipv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4Address and AddressOMSName

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot be configured at the same time. When MatchType is 4, Ipv4Address is configured as the source information.
Ipv4PrefixLength	Ipv4 prefix length	N/A	Unsigned integer. Value range: 0 to 32	Ipv4PrefixLength and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv4PrefixLength is configured as the source information.
Ipv6Address	The Ipv6 address of the match rule	N/A	Hexadecimalstring,colon-separated.	Example: 2:2::2:2. Ipv6Address and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv6Address is configured as the source information.
Ipv6PrefixLength	Ipv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128	Ipv6PrefixLength and AddressOMSName cannot be configured at the same time. When MatchType is 4, Ipv6PrefixLength is configured as the source information.
PortList	The port list of	N/A	String.	PortList and

Column name	Column description	Column type	Data type and restrictions	Remarks
	the match criterion			PortOMSName cannot be configured at the same time. When MatchType is 4, PortList is configured as the source information.
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	AddressOMSName and Ipv4Prefix cannot be configured at the same time. When MatchType is 4, AddressOMSName is configured as the source information.
PortOMSName	Name of the port object group	N/A	String. Length: 1 to 63 characters.	PortOMSName and PortList cannot be configured at the same time. When MatchType is 4, PortOMAName is configured as the source information.
Ipv4Address2	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only when MatchType is 4, Ipv4Address2 can be configured as the destination information. Ipv4Address2 and AddressOMSName 2 cannot be configured at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength2	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32	Only when MatchType is 4, Ipv4PrefixLength2 can be configured as the destination information. Ipv4PrefixLength2 And AddressOMSName2 cannot be configured at the same time.
Ipv6Address2	IPv6 address	N/A	String, dotted decimal notation.	Example:2:2::2:2. Only when MatchType is 4, Ipv6Address2 can be configured as the destination information. Ipv6Address2 and AddressOMSName2 cannot be configured at the same time.
Ipv6PrefixLength2	IPv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128	Only when MatchType is 4, Ipv6PrefixLength2 can be configured as the destination information. Ipv6PrefixLength2 And AddressOMSName2 cannot be configured at the same time.
PortList2	The port list of the match	N/A	String.	Only when MatchType is 4,

Column name	Column description	Column type	Data type and restrictions	Remarks
	criterion			PortList2 can be configured as the destination information. PortList2 and PortOMSName2 cannot be configured at the same time.
AddressOMSName2	Name of the address object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, AddressOMSName2 can be configured as the destination information. AddressOMSName2 and Ipv4Address2 cannot be configured at the same time.
PortOMSName2	Name of the port object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, PortOMSName2 can be configured as the destination information. PortOMSName2 and PortList2 cannot be configured at the same time.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

WAAS/RTPClassMatchCriterion

This table contains information about WAAS RTP class match criterion settings.

XML structure

```
<WAAS>
  <RTPClassMatchCriterion>
    <MatchCriterion>
      <ClassName></ClassName>
      <MatchID></MatchID>
      <MatchType></MatchType>
      <IPType></IPType>
      <ProtocolType></ProtocolType>
      <Ipv4Prefix>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4Prefix>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <PortList></PortList>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
      <Ipv4Prefix2>
        <Ipv4Address2></Ipv4Address2>
        <Ipv4PrefixLength2></Ipv4PrefixLength2>
      </Ipv4Prefix2>
      <PortList2></PortList2>
      <AddressOMSName2></AddressOMSName2>
      <PortOMSName2></PortOMSName2>
    </MatchCriterion>
  </RTPClassMatchCriterion>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	RTPClassMatchCriterion
Table type	Multi-instance table

Row name	MatchCriterion
Restrictions	Only index column is supported when a match criterion is deleted.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A
MatchID	Match criterion ID	index	Unsigned integer. Value range: 1 to 65535	N/A
MatchType	Match type	N/A	Unsigned integer. 1: Match the source IP address 2: Match the destination IP address 3: Match any 4: Match the source and destination IP addresses	N/A
IPType	IP version of the match criterion	N/A	Unsigned integer. 2: IPv4 10: IPv6	N/A
ProtocolType	Protocol type of the match criterion	N/A	Unsigned integer. 17: UDP	N/A
Ipv4Address	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4Address and AddressOMSName cannot be got at the same time. When MatchType is 4, Ipv4Address represents source information.
Ipv4PrefixLength	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32	Ipv4PrefixLength and AddressOMSName

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot be got at the same time. When MatchType is 4, Ipv4PrefixLength represents as the source information.
Ipv6Address	IPv6 address	N/A	Hexadecimalstring,colon-separated.	Example: 2:2::2:2.
Ipv6PrefixLength	IPv6 prefix length	N/A	Unsigned integer. Value range: 0 to 128	
PortList	The port list of the match criterion	N/A	String.	PortList and PortOMSName cannot be got at the same time. When MatchType is 4, PortList represents the source information.
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	AddressOMSName and Ipv4Prefix cannot be got at the same time. When MatchType is 4, AddressOMSName represents the source information.
PortOMSName	Name of the port address group	N/A	String. Length: 1 to 63 characters.	PortOMSName and PortList cannot be got at the same time. When MatchType is 4, PortOMAName represents the source information.
Ipv4Address2	IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only when

Column name	Column description	Column type	Data type and restrictions	Remarks
				MatchType is 4, Ipv4Address2 can be got as the destination information. Ipv4Address2 and AddressOMSName 2 cannot be geted at the same time.
Ipv4PrefixLen gth2	IPv4 mask length	N/A	Unsigned integer. Value range: 0 to 32	Only when MatchType is 4, Ipv4PrefixLength2 can be got as the destination information. Ipv4PrefixLength2 And AddressOMSName 2 cannot be geted at the same time.
PortList2	The port list of the match criterion	N/A	String.	Only when MatchType is 4, PortList2 can be got as the destination information. PortList2 and PortOMSName2 cannot be got at the same time.
AddressOMS Name2	Name of the address object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, AddressOMSName 2 can be got as the destination information. AddressOMSName 2 and Ipv4Address2 cannot be got at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortOMSName2	Name of the port object group	N/A	String. Length: 1 to 63 characters.	Only when MatchType is 4, PortOMSName2 can be got as the destination information. PortOMSName2 and PortList2 cannot be got at the same time.

WAAS/PolicyInformation

This table contains information about WAAS policy information settings.

XML structure

```
<WAAS>
  <PolicyInformation>
    <Information>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <OptAction></OptAction>
      <BeforeClass></BeforeClass>
      <PacketLossRate></PacketLossRate>
      <EncodeTimeout></EncodeTimeout>
      <DecodeTimeout></DecodeTimeout>
      <BlockSize></BlockSize>
      <SampleInterval></SampleInterval>
      <ProbeAgingTime></ProbeAgingTime>
      <LossRecoveryType></LossRecoveryType>
    </Information>
  </PolicyInformation>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS

Table name	PolicyInformation
Table type	Multi-instance table
Row name	Information
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	index	String. Length: 1 to 63 characters.	
ClassName	Class Name	index	String. Length: 1 to 63 characters.	N/A
OptAction	The optimize action	N/A	Unsigned integer. Value range: 0 to 10 0: No optimize action (default) 1:TFO 2:DRE 3:TFO and DRE 4:LZ 5:TFO and LZ 6:DRE and LZ 7:TFO and DRE and LZ 8:By Pass 9:Packet-Dup 10:FEC	N/A
BeforeClass	Insert a class before this class.	N/A	String. Length: 1 to 63 characters.	When this class is deleted, the class before it is moved to the end.
PacketLossRate	The packet loss ratio	N/A	Unsigned integer. Value range: 1 to 50 Default: 35	N/A
EncodeTimeout	The encode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 500 ms	
DecodeTimeout	The decode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default:800ms	N/A
BlockSize	The number of packets to encode	N/A	Unsigned integer. Value range: 1 to 150 Default: 20	N/A
SampleInterval	Sampling interval value	N/A	Unsigned integer. Value range: 1 to 1000 ms Default: 100 ms	N/A
ProbeAgingTime	Probe aging time	N/A	Unsigned integer. Value range: 0 to 60 seconds Default: 1 second	The value 0 means no aging.
LossRecoveryType	FEC type	N/A	Unsigned integer. 0: determined-fec (default) 1: adaptive-fec	N/A

WAAS/PolicyRTPInformation

This table contains information about RTP settings in a WAAS policy.

XML structure

```
<WAAS>
  <PolicyRTPInformation>
    <Information>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <OptAction></OptAction>
      <BeforeClass></BeforeClass>
      <PacketLossRate></PacketLossRate>
      <EncodeTimeout></EncodeTimeout>
      <DecodeTimeout></DecodeTimeout>
      <BlockSize></BlockSize>
      <SampleInterval></SampleInterval>
      <ProbeAgingTime></ProbeAgingTime>
      <LossRecoveryType></LossRecoveryType>
    </Information>
```

```
  </PolicyRTPInformation>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PolicyRTPInformation
Table type	Multi-instance table
Row name	Information
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	index	String.	PolicyName
ClassName	Class name	index	String. Length: 1 to 63 characters.	N/A
OptAction	The optimization action	N/A	Unsigned integer. RTP optimization 0: No optimization (default) 1: FEC optimization	N/A
BeforeClass	Insert a class before this class.	N/A	String.	When this class is deleted, the class before it is moved to the end.
PacketLossRate	The packet loss ratio	N/A	Unsigned integer. Value range: 1 to 50 Default: 35	N/A
EncodeTimeout	The encode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms Default: 500 ms	N/A
DecodeTimeout	The decode timeout value	N/A	Unsigned integer. Value range: 30 to 1000 ms	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default:800ms	
BlockSize	The number of packets to encode	N/A	Unsigned integer. Value range: 1 to 150 Default: 20	N/A
SampleInterval	Sampling interval value	N/A	Unsigned integer. Value range: 1 to 1000 ms Default: 100 ms	N/A
ProbeAgingTime	Probe aging time	N/A	Unsigned integer. Value range: 0 to 60 seconds Default: 1 second	The value 0 means no aging.
LossRecoveryType	FEC type	N/A	Unsigned integer. 0: determined-fec 1: adaptive-fec	N/A

WAAS/PolicyInInterfaces

This table contains information about WAAS policyInInterfaces settings.

XML structure

```
<WAAS>
  <PolicyInInterfaces>
    <PolicyInInterface>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </PolicyInInterface>
  </PolicyInInterfaces>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	PolicyInInterfaces
Table type	Multi-instance table

Row name	PolicyInInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ifIndex	Which interface is to bind was policy	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy Name	N/A	String. Length: 1 to 63 characters.	

WAAS/IPv4BlacklistInfo

This table contains information about WAAS IPv4 blacklist.

XML structure

```
<WAAS>
  <IPv4BlacklistInfo>
    <Blacklist>
      <Chassis></Chassis>
      <Slot></Slot>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <InsertTime></InsertTime>
    </Blacklist>
  </IPv4BlacklistInfo>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	IPv4BlacklistInfo
Table type	Multi-instance table
Row name	Blacklist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Ipv4Address	Server IP address	index	String, dotted decimal notation.	Example: 1.1.1.1.
PortNumber	Server port	index	Unsigned short. Value range: 1 to 65535.	N/A
InsertTime	Insert time	N/A	String.	N/A

WAAS/IPv6BlacklistInfo

This table contains information about WAAS IPv6 blacklist.

XML structure

```
<WAAS>
  <IPv6BlacklistInfo>
    <Blacklist>
      <Chassis></Chassis>
      <Slot></Slot>
      <Ipv6Address></Ipv6Address>
```

```
      <PortNumber></PortNumber>
      <InsertTime></InsertTime>
    </Blacklist>
  </IPv6BlacklistInfo>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	IPv6BlacklistInfo
Table type	Multi-instance table
Row name	Blacklist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Ipv6Address	Server IPv6 address	index	String, dotted decimal notation.	Example: 1::1
PortNumber	Server port	index	Unsigned short. Value range: 1 to 65535.	N/A
InsertTime	Insert time	N/A	String.	N/A

WAAS/DREStatistics

This table contains information about WAAS DRE statistics.

XML structure

```
<WAAS>
```

```
  <DREStatistics>
    <StatisticsInfo>
      <Chassis></Chassis>
      <Slot></Slot>
      <PeerID></PeerID>
      <PeerVersion></PeerVersion>
      <CacheInStorage></CacheInStorage>
      <IndexNumber></IndexNumber>
      <Age></Age>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <EncodeStatistics>
        <EncodeDataBlockNum></EncodeDataBlockNum>
        <EncodeInputBytesNum></EncodeInputBytesNum>
        <EncodeOutputBytesNum></EncodeOutputBytesNum>
        <EncodeByPassBytesNum></EncodeByPassBytesNum>
        <EncodeBytesMatchedNum></EncodeBytesMatchedNum>
        <EncodeSpaceSaved></EncodeSpaceSaved>
        <EncodeAverageLatency></EncodeAverageLatency>
      </EncodeStatistics>
      <DecodeStatistics>
        <DecodeDataBlockNum></DecodeDataBlockNum>
        <DecodeInputBytesNum></DecodeInputBytesNum>
        <DecodeOutputBytesNum></DecodeOutputBytesNum>
        <DecodeByPassBytesNum></DecodeByPassBytesNum>
        <DecodeSpaceSaved></DecodeSpaceSaved>
        <DecodeAverageLatency></DecodeAverageLatency>
      </DecodeStatistics>
    </StatisticsInfo>
  </DREStatistics>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	DREStatistics
Table type	Single-instance table
Row name	StatisticsInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
PeerID	Bridge MAC address of the peer device	index	String.	Example:0886-3f18-0100
PeerVersion	WAAS version of the peer device	N/A	String.	Example:100.1
CacheInStorage	Disk space used by metadata	N/A	Unsigned integer.	N/A
IndexNumber	Number of dictionary indexes	N/A	Unsigned integer.	N/A
Age	Amount of time that has elapsed since the local device initially established an optimized TCP connection with the peer	N/A	Unsigned integer.	N/A
TotalConnections	Total number of DRE connections	N/A	Unsigned integer.	N/A
ActiveConnections	Number of active DRE connections	N/A	Unsigned integer.	N/A
EncodeDataBlockNum	Number of data blocks on the encoding end	N/A	Unsigned integer.	N/A
EncodeInputBytesNum	Number of input bytes on the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	encoding end			
EncodeOutputBytesNum	Number of output bytes on the encoding end	N/A	Unsigned integer.	N/A
EncodeByPassBytesNum	Number of bytes that bypass DRE on the encoding end.	N/A	Unsigned integer.	N/A
EncodeBytesMatchedNum	Number of bytes matched by DRE on the encoding end.	N/A	Unsigned integer.	N/A
EncodeSpaceSaved	Space saved on the encoding end	N/A	Integer.	N/A
EncodeAverageLatency	Average latency in milliseconds for the most recent compression on the encoding end	N/A	Unsigned integer.	N/A
DecodeDataBlockNum	Number of data blocks on the decoding end	N/A	Unsigned integer.	N/A
DecodeInputBytesNum	Number of input bytes on the decoding end	N/A	Unsigned integer.	N/A
DecodeOutputBytesNum	Number of output bytes on the decoding end	N/A	Unsigned integer.	N/A
DecodeByPassBytesNum	Number of bytes that bypass DRE on the decoding	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	end.			
DecodeSpace Saved	Space saved on the decoding end	N/A	Integer.	N/A
DecodeAvera geLatency	Average latency in milliseconds for the most recent decompression on the decoding end	N/A	Unsigned integer.	N/A

WAAS/IPv4SessionInfo

This table contains information about WAAS IPv4 sessions.

XML structure

```
<WAAS>
  <IPv4SessionInfo>
    <IPv4Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <PeerID></PeerID>
      <SourceIPv4></SourceIPv4>
      <SourcePort></SourcePort>
      <DestinationIPv4></DestinationIPv4>
      <DestinationPort></DestinationPort>
      <StartTime></StartTime>
      <LANInterface></LANInterface>
      <WANInterface></WANInterface>
      <ConfiguredPolicy></ConfiguredPolicy>
      <NegotiatePolicy></NegotiatePolicy>
      <LANToWAN>
        <LToWOriginal></LToWOriginal>
        <LToWOptimized></LToWOptimized>
      </LANToWAN>
      <WANToLAN>
        <WToLOriginal></WToLOriginal>
        <WToLOptimized></WToLOptimized>
      </WANToLAN>
```

```
      <LZSection>
        <LZEncodeInputBytesNum></LZEncodeInputBytesNum>
        <LZEncodeOutputBytesNum></LZEncodeOutputBytesNum>
        <LZEncodeByPassBytesNum></LZEncodeByPassBytesNum>
        <LZEncodeSpaceSaved></LZEncodeSpaceSaved>
        <LZEncodeAverageLatency></LZEncodeAverageLatency>
        <LZDecodeInputBytesNum></LZDecodeInputBytesNum>
        <LZDecodeOutputBytesNum></LZDecodeOutputBytesNum>
        <LZDecodeByPassBytesNum></LZDecodeByPassBytesNum>
        <LZDecodeSpaceSaved></LZDecodeSpaceSaved>
        <LZDecodeAverageLatency></LZDecodeAverageLatency>
      </LZSection>
      <DRESection>
        <DREEncodeInputBytesNum></DREEncodeInputBytesNum>
        <DREEncodeOutputBytesNum></DREEncodeOutputBytesNum>
        <DREEncodeByPassBytesNum></DREEncodeByPassBytesNum>
        <DREEncodeSpaceSaved></DREEncodeSpaceSaved>
        <DREEncodeAverageLatency></DREEncodeAverageLatency>
        <DREDecodeInputBytesNum></DREDecodeInputBytesNum>
        <DREDecodeOutputBytesNum></DREDecodeOutputBytesNum>
        <DREDecodeByPassBytesNum></DREDecodeByPassBytesNum>
        <DREDecodeSpaceSaved></DREDecodeSpaceSaved>
        <DREChunkMiss></DREChunkMiss>
        <DRECollision></DRECollision>
        <DREDecodeAverageLatency></DREDecodeAverageLatency>
      </DRESection>
    </IPv4Session>
  </IPv4SessionInfo>
</WAAS>
```


Table description

Item	Description
Feature name	WAAS
Table name	IPv4SessionInfo
Table type	Single-instance table
Row name	IPv4Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
PeerID	Bridge MAC address of the peer device	index	String.	Example:0886-3f18-0100
SourceIPv4	The source IPv4 address	index	String. dotted decimal notation.	Example: 1.1.1.1.
SourcePort	The source port	index	Unsigned short. Value range: 1 to 65535.	N/A
DestinationIPv4	The destination IPv4 address	index	String. dotted decimal notation.	Example: 1.1.1.1.
DestinationPort	The destination port	index	Unsigned short. Value range: 1 to 65535.	N/A
StartTime	Start time	N/A	String.	N/A
LANInterface	The interface name of LAN side	N/A	String. Length: 0 to 24 characters.	N/A
WANInterface	The interface name of WAN side	N/A	String. Length: 0 to 24 characters.	N/A
ConfiguredPolicy	The configured policy	N/A	Unsigned integer. Value range: 1 to 7.	N/A
NegotiatePolicy	The negotiated policy	N/A	Unsigned integer. Value range: 1 to 7.	N/A
LToWOriginal	Original bytes from LAN side to WAN side	N/A	Unsigned integer.	N/A
LToWOptimized	Optimized bytes from LAN side	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface to WAN side interface			
WToLOriginal	Original bytes from WAN side interface to LAN side interface	N/A	Unsigned integer.	N/A
WToLOptimized	Optimized bytes from WAN side interface to LAN side interface	N/A	Unsigned integer.	N/A
LZEncodeInputBytesNum	The number of input bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZEncodeOutputBytesNum	The number of output bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZEncodeByPassBytesNum	The number of bypass bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZEncodeSpaceSaved	Space saved on the encoding end for LZ compression	N/A	Integer.	N/A
LZEncodeAverageLatency	Average latency on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeInputBytesNum	The number of input bytes on the decoding end for LZ	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	compression			
LZDecodeOutputBytesNum	The number of output bytes on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeByPassBytesNum	The number of bypass bytes on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeSpaceSaved	Space saved on the decoding end for LZ compression	N/A	Integer.	N/A
LZDecodeAverageLatency	Average latency on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
DREEncodeInputBytesNum	The number of input bytes on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREEncodeOutputBytesNum	The number of output bytes on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREEncodeByPassBytesNum	The number of bypass bytes on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREEncodeSpaceSaved	Space saved on the encoding end for DRE	N/A	Integer.	N/A
DREEncodeAverageLatenc	Average latency on the encoding	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
y	end for DRE			
DREDecodeInputBytesNum	The number of input bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeOutputBytesNum	The number of output bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeByPassBytesNum	The number of bypass bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeSpaceSaved	Space saved on the decoding end for DRE	N/A	Integer.	N/A
DREChunkMiss	Cumulative times of chunk miss for DRE	N/A	Unsigned integer.	N/A
DRECollision	Cumulative times of collision for DRE	N/A	Unsigned integer.	N/A
DREDecodeAverageLatency	Average latency on the decoding end for DRE	N/A	Unsigned integer.	N/A

WAAS/IPv6SessionInfo

This table contains information about WAAS IPv6 sessions.

XML structure

```
<WAAS>
  <IPv6SessionInfo>
    <IPv6Session>
      <Chassis></Chassis>
      <Slot></Slot>
```

```
      <PeerID></PeerID>
      <SourceIPv6></SourceIPv6>
      <SourcePort></SourcePort>
      <DestinationIPv6></DestinationIPv6>
      <DestinationPort></DestinationPort>
      <StartTime></StartTime>
      <LANInterface></LANInterface>
      <WANInterface></WANInterface>
      <ConfiguredPolicy></ConfiguredPolicy>
      <NegotiatePolicy></NegotiatePolicy>
      <LANToWAN>
        <LToWOriginal></LToWOriginal>
        <LToWOptimized></LToWOptimized>
      </LANToWAN>
      <WANToLAN>
        <WToLOriginal></WToLOriginal>
        <WToLOptimized></WToLOptimized>
      </WANToLAN>
      <LZSection>
        <LZEncodeInputBytesNum></LZEncodeInputBytesNum>
        <LZEncodeOutputBytesNum></LZEncodeOutputBytesNum>
        <LZEncodeByPassBytesNum></LZEncodeByPassBytesNum>
        <LZEncodeSpaceSaved></LZEncodeSpaceSaved>
        <LZEncodeAverageLatency></LZEncodeAverageLatency>
        <LZDecodeInputBytesNum></LZDecodeInputBytesNum>
        <LZDecodeOutputBytesNum></LZDecodeOutputBytesNum>
        <LZDecodeByPassBytesNum></LZDecodeByPassBytesNum>
        <LZDecodeSpaceSaved></LZDecodeSpaceSaved>
        <LZDecodeAverageLatency></LZDecodeAverageLatency>
      </LZSection>
      <DRESection>
        <DREEncodeInputBytesNum></DREEncodeInputBytesNum>
        <DREEncodeOutputBytesNum></DREEncodeOutputBytesNum>
        <DREEncodeByPassBytesNum></DREEncodeByPassBytesNum>
        <DREEncodeSpaceSaved></DREEncodeSpaceSaved>
        <DREEncodeAverageLatency></DREEncodeAverageLatency>
        <DREDecodeInputBytesNum></DREDecodeInputBytesNum>
        <DREDecodeOutputBytesNum></DREDecodeOutputBytesNum>
        <DREDecodeByPassBytesNum></DREDecodeByPassBytesNum>
        <DREDecodeSpaceSaved></DREDecodeSpaceSaved>
        <DREChunkMiss></DREChunkMiss>
        <DRECollision></DRECollision>
        <DREDecodeAverageLatency></DREDecodeAverageLatency>
      </DRESection>
    </IPv6Session>
  </IPv6SessionInfo>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	IPv6SessionInfo
Table type	Single-instance table
Row name	IPv6Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	index	Unsigned integer. Value range: 0 to 65534.	N/A
PeerID	Bridge MAC address of the peer device	index	String.	Example:0886-3f18-0100
SourceIPv6	The source IPv6 address	index	String. dotted decimal notation.	Example: 1::1.
SourcePort	The source port	index	Unsigned short. Value range: 1 to 65535.	N/A
DestinationIPv6	The destination IPv6 address	index	String. dotted decimal notation.	Example: 1::1.
DestinationPort	The destination port	index	Unsigned short. Value range: 1 to 65535.	N/A
StartTime	Start time	N/A	String.	N/A
LANInterface	The interface name of LAN side	N/A	String. Length: 0 to 24 characters.	N/A
WANInterface	The interface name of WAN	N/A	String. Length: 0 to 24 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	side			
ConfiguredPolicy	The configured policy	N/A	Unsigned integer. Value range: 1 to 7.	N/A
NegotiatePolicy	The negotiated policy	N/A	Unsigned integer. Value range: 1 to 7.	N/A
LToWOriginal	Original bytes from LAN side to WAN side	N/A	Unsigned integer.	N/A
LToWOptimized	Optimized bytes from LAN side interface to WAN side interface	N/A	Unsigned integer.	N/A
WToLOriginal	Original bytes from WAN side interface to LAN side interface	N/A	Unsigned integer.	N/A
WToLOptimized	Optimized bytes from WAN side interface to LAN side interface	N/A	Unsigned integer.	N/A
LZEncodeInputBytesNum	The number of input bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZEncodeOutputBytesNum	The number of output bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZEncodeByPassBytesNum	The number of bypass bytes on the encoding end for LZ compression	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LZEncodeSpaceSaved	Space saved on the encoding end for LZ compression	N/A	Integer.	N/A
LZEncodeAverageLatency	Average latency on the encoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeInputBytesNum	The number of input bytes on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeOutputBytesNum	The number of output bytes on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeByPassBytesNum	The number of bypass bytes on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
LZDecodeSpaceSaved	Space saved on the decoding end for LZ compression	N/A	Integer.	N/A
LZDecodeAverageLatency	Average latency on the decoding end for LZ compression	N/A	Unsigned integer.	N/A
DREEncodeInputBytesNum	The number of input bytes on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREEncodeOutputBytesNu	The number of output bytes on	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
m	the encoding end for DRE			
DREEncodeByPassBytesNum	The number of bypass bytes on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREEncodeSpaceSaved	Space saved on the encoding end for DRE	N/A	Integer.	N/A
DREEncodeAverageLatency	Average latency on the encoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeInputBytesNum	The number of input bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeOutputBytesNum	The number of output bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeByPassBytesNum	The number of bypass bytes on the decoding end for DRE	N/A	Unsigned integer.	N/A
DREDecodeSpaceSaved	Space saved on the decoding end for DRE	N/A	Integer.	N/A
DREChunkMiss	Cumulative times of chunk miss for DRE	N/A	Unsigned integer.	N/A
DRECollision	Cumulative times of collision for DRE	N/A	Unsigned integer.	N/A
DREDecodeAverageLatency	Average latency on the decoding end for DRE	N/A	Unsigned integer.	N/A

WAAS/WAASAsymmetric

This table contains information about WAAS asymmetric settings.

XML structure

```
<WAAS>
  <WAASAsymmetric>
    <Asymmetric>
    </Asymmetric>
  </WAASAsymmetric>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASAsymmetric
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Asymmetric	Whether to enable asymmetric mode.	N/A	Boolean: • **true** • **false**(default)	N/A

WAAS/WAASDRE

This table contains information about WAAS DRE settings.

XML structure

```
<WAAS>
  <WAASDRE>
    <Agingtime></Agingtime>
    <OffStep></OffStep>
  </WAASDRE>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASDRE
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Agingtime	Aging time of DRE cache	N/A	Unsigned integer. Value range: 10 to 60 Default: No Aging	Units: Minute
OffStep	DRE match offset step	N/A	Unsigned integer. Value range: 1 to 4 • 1: Normal (default) • 2: General • 3: Fast • 4: Fastest	N/A

WAAS/WAASLogCompress

This table contains information about WAAS UDP log compression settings.

XML structure

```
<WAAS>
  <WAASLogCompress>
    <LogCompress>
      <Ipv4Address></Ipv4Address>
      <Port></Port>
    </LogCompress>
  </WAASLogCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASLogCompress
Table type	Multi-instance table
Row name	LogCompress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Destination IPv4 address of logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Port	Destination port of logs	N/A	Unsigned integer. Value range: 1 to 65535	N/A

WAAS/WAASTcpCompress

This table contains information about WAAS Tcp packet compression settings.

XML structure

```
<WAAS>
  <WAASTcpCompress>
    <TcpCompress>
```

```
      <Ipv4Address></Ipv4Address>
      <Port></Port>
    </TcpCompress>
  </WAASTcpCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASTcpCompress
Table type	Multi-instance table
Row name	TcpCompress
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Destination IPv4 address of logs	index	String, dotted decimal notation.	Example: 1.1.1.1.
Port	Destination port of logs	index	Unsigned integer. Value range: 1 to 65535	N/A

WAAS/WAASLZCompress

This table contains information about WAAS LZ compression settings.

XML structure

```
<WAAS>
  <WAASLZCompress>
    <LZCompress>
      <AddressType></AddressType>
      <ProtocolType></ProtocolType>
      <AddressOMSName></AddressOMSName>
      <PortOMSName></PortOMSName>
```

```
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </LZCompress>
  </WAASLZCompress>
</WAAS>
```

Table description

Item	Description
Feature name	WAAS
Table name	WAASLZCompress
Table type	Multi-instance table
Row name	LZCompress
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	IP version	index	Unsigned integer. 2: IPv4	N/A
ProtocolType	Protocol type	index	Unsigned integer. 1: TCP 2: UDP	N/A
AddressOMSName	Name of the address object group	N/A	String. Length: 1 to 63 characters.	N/A
PortOMSName	Name of the port object group	N/A	String. Length: 1 to 63 characters.	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL name	N/A	String. Length: 1 to 63 characters.	N/A

Contents

WAAS 1
WAAS/ClassMatchCriterion 1
WAAS/RTPClassMatchCriterion 1
WAAS/WAASLogCompress 2
WAAS/WAASTcpCompress 2
WAAS/WAASLZCompress 3
WAAS/WAASStatus 3
WAAS/PolicyInInterfaces 3

WAAS

WAAS/ClassMatchCriterion

Message	Explanation
The specified WAAS class does not exist. 指定的WAAS class不存在。	The specified WAAS class does not exist. 指定的WAAS class不存在。
Incomplete command. 不完整的配置命令。	Incomplete command. 不完整的配置命令。
The IP type and IP address do not match. IP类型和IP地址不匹配。	The IP type and IP address do not match. IP类型和IP地址不匹配。
Duplicate match rule content. 重复的匹配规则内容。	Duplicate match rule content. 重复的匹配规则内容。
Maximum number of match criteria already reached. 已达到匹配规则的上限。	Maximum number of match criteria already reached. Please check configuration or specifications 匹配规则个数超过上限，请检查配置或者设备规格
IP address and address object group cannot be configured at the same time. IP地址和地址对象组不能同时配置。	IP address and address object group cannot be configured at the same time. IP地址和地址对象组不能同时配置。
Port number and port object group cannot be configured at the same time. 端口号和端口对象组不能同时配置。	Port number and port object group cannot be configured at the same time. 端口号和端口对象组不能同时配置。
The type of the object group %s is incorrect. 对象组%s的类型不匹配。	Object group type mismatch. Please check configuration. 对象组类型不匹配，请检查配置
The object group %s doesn't exist. 对象组%s不存在。	The object group doesn't exist. Please check configuration. 对象组不存在，请检查配置

WAAS/RTPClassMatchCriterion

Message	Explanation
The specified WAAS RTP class does not exist. 指定的WAAS RTP class不存在。	The specified WAAS RTP class does not exist. 指定的WAAS RTP class不存在。
Incomplete command.	Incomplete command.

不完整的配置命令。	不完整的配置命令。
The IP type and IP address do not match. IP类型和IP地址不匹配。	The IP type and IP address do not match. IP类型和IP地址不匹配。
Duplicate match rule content. 重复的匹配规则内容。	Duplicate match rule content. 重复的匹配规则内容。
Maximum number of match criteria already reached. 已达到匹配规则的上限。	Maximum number of match criteria already reached. Please check configuration or specifications 匹配规则个数超过上限，请检查配置或者设备规格
IP address and address object group cannot be configured at the same time. IP地址和地址对象组不能同时配置。	IP address and address object group cannot be configured at the same time. IP地址和地址对象组不能同时配置。
Port number and port object group cannot be configured at the same time. 端口号和端口对象组不能同时配置。	Port number and port object group cannot be configured at the same time. 端口号和端口对象组不能同时配置。
The type of the object group %s is incorrect. 对象组%s的类型不正确。	Object group type mismatch. Please check configuration. 对象组类型不匹配，请检查配置
The object group %s doesn't exist. 对象组%s不存在。	Object group does not exist. Please check configuration. 对象组不存在，请检查配置

WAAS/WAASLogCompress

Message	Explanation
The number of destination hosts has reached the maximum. 已达到配置目的主机个数的上限	The number of destination hosts has reached the maximum. Please check configuration or specifications 目的主机个数配置达到上限，请检查配置或者设备规格

WAAS/WAASTcpCompress

Message	Explanation
The number of destination hosts has reached the maximum. 已达到配置目的主机个数的上限	The number of destination hosts has reached the maximum. Please check configuration or specifications 目的主机个数配置达到上限，请检查配置或者设备规格

WAAS/WAASLZCompress

Message	Explanation
ACLNumber and ACLName cannot be configured at the same time. ACLNumber和ACLName不能同时配置。	ACLNumber and ACLName cannot be configured at the same time. ACLNumber和ACLName不能同时配置。
The type of the object group %s is incorrect. 对象组%s的类型不匹配。	Object group type mismatch. Please check configuration. 对象组类型不匹配，请检查配置
The object group %s doesn't exist. 对象组%s不存在。	The object group doesn't exist. Please check configuration. 对象组不存在，请检查配置
The specified ACL doesn't exist. ACL不存在。	The specified ACL doesn't exist. Please check configuration. ACL不存在，请检查配置。
Address object group and port object group should be configured at the same time IP对象组和port对象组要同时下发	Address object group and port object group should be configured at the same time IP对象组和port对象组要同时下发
The ACL name already exists. Please delete it before configuring the ACL number. ACL name已存在，请先删除后再配置ACL number。	The ACL name already exists. Please delete it before configuring the ACL number. ACL name已存在，请先删除后再配置ACL number。
The ACL number already exists. Please delete it before configuring the ACL name. ACL number已存在，请先删除后再配置ACL name。	The ACL number already exists. Please delete it before configuring the ACL name. ACL number已存在，请先删除后再配置ACL name。

WAAS/WAASStatus

Message	Explanation
Please first install the license for the WAAS feature. 请先安装WAAS功能的许可证。	This feature is available only if a license for the WAAS feature is installed. 只有先安装WAAS的许可证，此功能才可用。

WAAS/PolicyInInterfaces

Message	Explanation
Please first install the license for the WAAS feature. 请先安装WAAS功能的许可证。	This feature is available only if a license for the WAAS feature is installed. 只有先安装WAAS的许可证，此功能才可用。

Contents

WAF 1
WAF/SignatureManualUpgrade 1
XML structure 1
Table description 1
Columns 1
WAF/SignatureAutoUpgradeNow 1
XML structure 2
Table description 2
Columns 2
WAF/SignatureRollback 2
XML structure 2
Table description 2
Columns 3

WAF

WAF/SignatureManualUpgrade

This table contains information about WAF signature manual upgrade.

XML structure

```
<WAF>
  <SignatureManualUpgrade>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrade>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureManualUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the upgrade signature file	N/A	String, case-insensitive. For a remote file, Length: 1 to 255 characters. For a local file, Length: 1 to 127 characters.	URL
Location	Location of the file	N/A	Enumeration: • **0**—Local • **1**—Remote	If Location is set to 0, the device deletes the signature file when the signature library update is completed.

WAF/SignatureAutoUpgradeNow

This table contains information about immediate WAF signature auto upgrading.

XML structure

```
<WAF>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade Now	Immediate auto upgrade	N/A	This column must be empty.	N/A

WAF/SignatureRollback

This table contains information about WAF signatures rollback.

XML structure

```
<WAF>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureRollback
Table type	Single-instance table
Row name	None

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback to a specific version	N/A	Boolean: • **true**—Rollback to the last version • **false**—Rollback to the original version	N/A

Contents

WAF 1
WAF/Policies 1
XML structure 1
Table description 1
Columns 2
WAF/PolicyOnProfile 3
XML structure 3
Table description 3
Columns 3
WAF/WebSite 4
XML structure 4
Table description 4
Columns 4
WAF/PolicyExceptionSigs 5
XML structure 5
Table description 5
Columns 5
WAF/SignatureAutoUpgrade 6
XML structure 6
Table description 6
Columns 7
WAF/ActionDefaultParameters 7
XML structure 7
Table description 8
Columns 8

WAF

WAF/Policies

This table contains WAF policy information.

XML structure

```
<WAF>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <FilterDirection></FilterDirection/>
      <FilterAction></FilterAction>
      <FilterSeverity></FilterSeverity/>
      <ProtectTarget>
        <TargetId></TargetId>
        <SubTargetId></SubTargetId>
      </ProtectTarget>
      <ProtectCategory>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </ProtectCategory>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </Policy>
  </Policies>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be **default**.
FilterDirection	Traffic direction to which the WAF signature applies	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2—**Both**.**	N/A
FilterSeverity	Severity level of the WAF signature	N/A	Unsigned integer: • **1**—Low. • **2**—Medium. • **4**—High. • **8—**Critical**.**	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2).
FilterAction	Default action of the WAF signature	N/A	Unsigned integer: • **1**—Block. • **2**—Drop. • **4**—Permit. • **8—**Reset**.**	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
ProtectTarget	List of protected targets	Data structure	Members include: • TargetId. • SubTargetId.	N/A
TargetId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the WAF signature file.
SubTargetId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
ProtectCategory	List of attack categories	Data structure	Members include: • CategroyId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the WAF signature file.
Action	Action applied to matching	N/A	Enumeration: • **0**—Block.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		• **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5—**Default**.**	
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

WAF/PolicyOnProfile

This table contains information about the WAF policy applied to a DPI application profile.

XML structure

```
<WAF>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	application profile		Length: 1 to 100 characters.	
PolicyName	Name of the WAF policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

WAF/WebSite

This table contains information about website in a WAF policy.

XML structure

```
<WAF>
  <WebSites>
    <WebSite>
      <PolicyName></PolicyName>
      <Name></Name>
      <IP></IP>
      <DomainName></DomainName/>
      <Port></Port/>
    <WebSite>
  </WebSites>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	WebSites
Table type	Multi-instance table
Row name	WebSite
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be **default**.
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	website		Length: 1 to 63 characters.	
IP	IP address of website	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DomainName	DomainName of the website	N/A	String, case insensitive Length: 1 to 255 characters	N/A
Port	Port of website	N/A	Unsigned integer.	N/A

WAF/PolicyExceptionSigs

This table contains information about exception signatures in a WAF policy..

XML structure

```
<WAF>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
      <SigID></SigID>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	WAF policy		Length: 1 to 63 characters.	
Userdefined	Whether or not the WAF signature is user defined	Index	Boolean: • true. • false.	N/A
SigID	ID of the WAF signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the WAF signature file.
Enabled	Whether or not the WAF signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the WAF signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5**—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

WAF/SignatureAutoUpgrade

This table contains WAF signature library auto update settings.

XML structure

```
<WAF>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</WAF>
```

Table description

Item	Description
Feature name	WAF

Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not WAF signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when WAF signature library auto update starts	N/A	Time Format: HH:MM:SS	By default, WAF signature library auto update starts at 02:00:00 every day.
Type	Whether WAF signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, WAF signature library auto update occurs on a daily basis.
Day	Days of the week on which WAF signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

WAF/ActionDefaultParameters

This table contains WAF action parameter settings.

XML structure

```
<WAF>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: • **1**—Block. • **2**—Capture. • **3**—Logging. • **4**—Redirect. • **5**—Mail.	N/A
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The WAF action parameters are defined in the DIM module.

Contents

WAF 1

WAF/Policies 1
- XML structure 1
- Table description 1
- Columns 2

WAF/PolicyOnProfile 3
- XML structure 3
- Table description 3
- Columns 3

WAF/WebSite 4
- XML structure 4
- Table description 4
- Columns 4

WAF/ProtectTarget 5
- XML structure 5
- Table description 5
- Columns 5

WAF/ProtectCategory 6
- XML structure 6
- Table description 6
- Columns 6

WAF/Signatures 7
- XML structure 7
- Table description 8
- Columns 8

WAF/PolicyExceptionSigs 10
- XML structure 10
- Table description 10
- Columns 10

WAF/SignaturePages 11
- XML structure 11
- Table description 12
- Columns 12

WAF/SignatureFileInfos 14
- XML structure 14
- Table description 14
- Columns 15

WAF/SignatureAutoUpgrade 15
- XML structure 15
- Table description 15
- Columns 16

WAF/SignatureUpgradePercentage 16
- XML structure 16
- Table description 16
- Columns 17

WAF/ActionDefaultParameters 17
- XML structure 17
- Table description 17
- Columns 17

WAF

WAF/Policies

This table contains WAF policy information.

XML structure

```
<WAF>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <FilterDirection></FilterDirection/>
      <FilterAction></FilterAction>
      <FilterSeverity></FilterSeverity/>
      <ProtectTarget>
        <TargetId></TargetId>
        <SubTargetId></SubTargetId>
      </ProtectTarget>
      <ProtectCategory>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </ProtectCategory>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </Policy>
  </Policies>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value can be **default**.
FilterDirection	Traffic direction to which the WAF signature applies	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2—**Both.	N/A
FilterSeverity	Severity level of the WAF signature	N/A	Unsigned integer: • **1**—Low. • **2**—Medium. • **4**—High. • **8—**Critical**.**	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2).
FilterAction	Default action of the WAF signature	N/A	Unsigned integer: • **1**—Block. • **2**—Drop. • **4**—Permit. • **8—**Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
ProtectTarget	List of protected targets	Data structure	Members include: • TargetId. • SubTargetId.	N/A
TargetId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the WAF signature file.
SubTargetId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
ProtectCategory	List of attack categories	Data structure	Members include: • CategroyId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the WAF signature file.
Action	Action applied to	N/A	Enumeration:	N/A

	matching packets.		• **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5—**Default.	
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

WAF/PolicyOnProfile

This table contains information about the WAF policy applied to a DPI application profile.

XML structure

```
<WAF>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

WAF/WebSite

This table contains information about WebSite in a WAF policy.

XML structure

```
<WAF>
  <WebSites>
    <WebSite>
      <PolicyName></PolicyName>
      <Name></Name>
      <IP></IP>
      <DomainName></DomainName/>
      <Port></Port/>
    <WebSite>
  </WebSites>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	WebSites
Table type	Multi-instance table
Row name	WebSite
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value can be **default**.
Name	Name of the website	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IP	IP address of the website	N/A	String, case insensitive Length: 1 to 46 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	DomainName of the website	N/A	String, case insensitive Length: 1 to 255 characters	N/A
Port	Port of the website	N/A	Unsigned integer.	N/A

WAF/ProtectTarget

This table contains protected target information obtained from the WAF signature file.

XML structure

```
<WAF>
  <ProtectTarget>
    <Target>
      <TargetId></TargetId>
      <TargetName></TargetName>
      <ProtectSubTarget>
        <SubTargetId></SubTargetId>
        <SubTargetName></SubTargetName>
      </ProtectSubTarget>
    </Target>
  </ProtectTarget>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	ProtectTarget
Table type	Multi-instance table
Row name	Target
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetId	ID of the protected target	Index	Unsigned integer.	N/A
TargetName	Name of the protected target	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtectSubTarget	List of subtargets contained in the protected target	Data structure	Members include: • SubProtectionId. • SubProtectionName.	A protected target can contain an unlimited number of subtargets.
SubTargetId	ID of the subtarget	N/A	Unsigned integer.	N/A
SubTargetName	Name of the subtarget	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

WAF/ProtectCategory

This table contains protected category information obtained from the WAF signature file.

XML structure

```
<WAF>
  <ProtectCategory>
    <Category>
      <CategoryId></CategoryId>
      <CategoryName></CategoryName>
      <ProtectSubCategory>
        <SubCategoryId></SubCategoryId>
        <SubCategoryName></SubCategoryName>
      </ProtectSubCategory>
    </Category>
  </ProtectCategory>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	ProtectCategory
Table type	Multi-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryId	ID of the attack category	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProtectSubCategory	List of attack subcategories contained in the attack category	Data structure	Members include: • SubCategoryId. • SubCategoryName.	An attack category can contain an unlimited number of attack subcategories.
SubCategoryId	ID of the attack subcategroy	N/A	Unsigned integer.	N/A
SubCategory Name	Name of the attack subcategory	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

WAF/Signatures

This table contains the WAF signature information.

XML structure

```
<WAF>
  <Signatures>
    <Signature>
      <SigID></SigID>
      <UserDefined></UserDefined>
      <SigName></SigName>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
      <Severity></Severity>
      <Direction></Direction>
      <Category></Category>
      <CVEList>
        <CVE></CVE>
      </CVEList>
      <BIDList>
        <BID></BID>
      </BIDList>
      <MSList>
        <MS></MS>
      </MSList>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <Solution></Solution>
```

```
    <AttackFunction></AttackFunction>
   </Signature>
  </Signatures>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	Signatures
Table type	Multi-instance table
Row name	Signature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the WAF signature file.
UserDefined	Whether or not the WAF signature is user defined	N/A	Boolean: • true. • false.	N/A
SigName	Name of the signature	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value is obtained from the WAF signature file.
SigDescription	Description of the signature	N/A	String, case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the WAF signature file.
PublishTime	Time when the signature was published	N/A	String, case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the WAF signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the WAF signature file.
Protection	Protected target of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
SubProtection	Protected subtarget of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
Severity	Severity level of the signature	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Medium.	The value is obtained from the WAF signature file.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **4**—Low.	
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	The value is obtained from the WAF signature file.
Category	Attack category of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
CVEList	CVE list	Data structure	Members include: • CVE.	N/A
CVE	CVE ID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
Enabled	Whether or not the WAF signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the WAF signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String, case-insensitive. Length: 1 to 511 characters.	The value is obtained from the WAF signature file.
AttackFunction	Subcategory of the signature	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

WAF/PolicyExceptionSigs

This table contains information about exception signatures in a WAF policy.

XML structure

```
<WAF>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
      <SigID></SigID>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the WAF policy	Index	String, case-insensitive. • Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the WAF signature is user defined	Index	Boolean: • true. • false.	N/A
SigID	ID of the WAF signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the WAF signature file.
Enabled	Whether or not the WAF signature is enabled	N/A	Boolean: • true. • false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action to take on packets matching the WAF signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit. • **3**—Reset. • **4**—Redirect. • **5**—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

WAF/SignaturePages

This table contains information about WAF signatures displayed on paginated lists.

XML structure

```
<WAF>
  <SignaturePages>
    <SignaturePage>
      <UserID></UserID>
      <Position></Position>
      <TotalCount></TotalCount>
      <SigID></SigID>
      <SigName></SigName>
      <UserDefined></UserDefined>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
      <Severity></Severity>
      <Direction></Direction>
      <Category></Category>
      <CVEList>
        <CVE></CVE>
      </CVEList>
      <BIDList>
        <BID></BID>
      </BIDList>
      <MSList>
        <MS></MS>
```

```
      </MSList>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <Solution></Solution>
      <AttackFunction></AttackFunction>
    </SignaturePage>
  </SignaturePages>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignaturePages
Table type	MultiSingle-instance table
Row name	SignaturePage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current user	Index	Unsigned integer.	N/A
Position	Position of the signature on the entire signature list.	Index	Unsigned integer.	N/A
TotalCount	Total number of signatures	N/A	Unsigned integer.	If the query function is used, the total number of signatures in the query results is displayed.
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the WAF signature file.
SigName	Name of the signature	N/A	String: case-insensitive. Length: 1 to 127 characters.	The value is obtained from the WAF signature file.
UserDefined	Whether or not the WAF signature is user defined	N/A	Boolean: • true. • false.	N/A
SigDescription	Description of the signature	N/A	String: case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the WAF signature file.

Column name	Column description	Column type	Data type and restrictions	Remarks
PublishTime	Time when the signature was published	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the WAF signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the WAF signature file.
Protection	Protected target of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
SubProtection	Protected subtarget	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
Severity	Severity level of the signature	N/A	Enumeration: • **1**—Critical. • **2**—High. • **3**—Medium. • **4**—Low.	The value is obtained from the WAF signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • **0**—Client to server. • **1**—Server to client. • **2**—Both.	The value is obtained from the WAF signature file.
Category	Attack category of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the WAF signature file.
CVEList	CVE List	Data structure	Members include: • CVE.	N/A
CVE	CVE-ID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the WAF signature file.
Enabled	Whether or not the signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the signature	N/A	Enumeration: • **0**—Block. • **1**—Drop. • **2**—Permit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **3**—Reset. • **4**—Redirect.	
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String: case-insensitive. Length: 1 to 511 characters.	The value is obtained from the WAF signature file.
AttackFunction	Subcategory of the signature	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

WAF/SignatureFileInfos

This table contains WAF signature file information.

XML structure

```
<WAF>
  <SignatureFileInfos>
    <FileInfo>
      <FileStatus></FileStatus>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Description></Description>
    </FileInfo>
  </SignatureFileInfos>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureFileInfos
Table type	MultiSingle-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileStatus	Status of the WAF signature file	Index	Enumeration: • **1**—Current. • **2**—Last. • **3**—Factory default.	N/A
Version	Version of the WAF signature file	N/A	String, case-insensitive. Length: 1 to 31 characters.	Example: 1.0.36.
PublishedTime	Time when the signature file was published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	The local time zone is used.
Description	Description of the WAF signature file	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

WAF/SignatureAutoUpgrade

This table contains WAF signature library auto update settings.

XML structure

```
<WAF>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not WAF signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when WAF signature library auto update starts	N/A	Time. Format: HH:MM:SS.	By default, WAF signature library auto update starts at 02:00:00 every day.
Type	Whether WAF signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • **0**—Weekly. • **1**—Daily.	By default, WAF signature library auto update occurs on a daily basis.
Day	Days of the week on which WAF signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only **Type** is set to **0**.

WAF/SignatureUpgradePercentage

This table contains the WAF signature library update progress information.

XML structure

```
<WAF>
  <SignatureUpgradePercentage>
    <Percentage/>
    <ErrorCode/>
  </SignatureUpgradePercentage>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	SignatureUpgradePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Progress of the signature library update operation, in percentages	N/A	Unsigned integer. Value range: 0 to 100.	Any value outside the valid range indicates that an error has occurred.
ErrorCode	Used to describe the error information in the upgrade process	N/A	Enumeration: • **0**—success. • **1**—License check error. • **2**—SigFile check error. • **3**—Server connect error. • **4**—Space not enough.	N/A

WAF/ActionDefaultParameters

This table contains WAF action parameter settings.

XML structure

```
<WAF>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</WAF>
```

Table description

Item	Description
Feature name	WAF
Table name	ActionDefaultParameters
Table type	MultiSingle-instance table
Row name	ActionDefaultParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **1**—Block. • **2**—Capture. • **3**—Logging. • **4**—Redirect. • **5**—Mail.	
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The WAF action parameters are defined in the DIM module.

Contents

Wclt 1
Wclt/ClientModeConnect 1
XML structure 1
Table description 1
Columns 1

Wclt

Wclt/ClientModeConnect

This table contains information about disconnecting or connecting a client from the wireless service.

XML structure

```
<Wclt>
  <ClientModeConnect>
    <ApName></ApName>
    <RadioId></RadioId>
    <ConnectStatus></ConnectStatus>
  </ClientModeConnect>
</Wclt>
```

Table description

Item	Description
Feature name	Wclt
Table name	ClientModeConnect
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio ID	Index	Unsigned char. Value range: 1 to 4
ConnectStatus	Disconnect or reconnect the client from the wireless service	N/A	Boolean: • true—Connect. • false—Disconnect.

Contents

Wclt 1
Wclt/SwitchClientMode 1
XML structure 1
Table description 1
Columns 2

Wclt

Wclt/SwitchClientMode

This table contains client optimization information.

XML structure

```
<Wclt>
  <SwitchClientMode>
    <ApName></ApName>
    <RadioId></RadioId>
    <Enable></Enable>
    <AuthenticationMethod></AuthenticationMethod>
    <CipherSuite></CipherSuite>
    <Psk>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
    </Psk>
    <Wep>
      <WepKeyId></WepKeyId>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
    </Wep>
    <Vlan></Vlan>
    <SSID></SSID>
  </SwitchClientMode>
</Wclt>
```

Table description

Item	Description
Feature name	Wclt
Table name	SwitchClientMode
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned char. Value range: 1 to 4 The default value is 1.	N/A
Enable	Status of client-mode		Boolean: • true or 1—Enabled. • false or 0—Disabled. The default value is false.	N/A
AuthenticationMethod	Authentication mode of the service template		Enumeration: • 0—Open-system. • 1—Shared-key • 2—WPA2-PSK Default status is open-system.	N/A
CipherSuite	WEP cipher suite		Enumeration: • 1—WEP40 • 2—TKIP • 4—CCMP • 5—WEP104 • 8—WEP128	N/A
Psk	PSK information		Members include: • PskInputMode • PskPassPhraseKey • PskRawKey	N/A
PskInputMode	PSK input mode		Enumeration. 1—PassPhrase. 2—RawKey.	N/A
PskPassPhraseKey	Pre-shared key		String.	A PSK is a string of 8-63 alphanumeric characters.
PskRawKey	Raw key		String	A PSK is a string of 64 hex characters.
Wep	WEP information		Members include: • WepKeyId • KeyInputType • Wep40PassPhraseKey • Wep40RawKey • Wep104PassPhraseKey • Wep104RawKey • Wep128PassPhraseKey • Wep128RawKey	N/A

WepKeyId	WEP key ID		Enumeration. Value range: 1 to 4.	N/A
KeyInputType	Key type		Enumeration. 1—PassPhrase. 2—RawKey.	N/A
Wep40PassPhraseKey	WEP40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	WEP40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	WEP104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	WEP104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	WEP128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	WEP128 key in raw		String.	The key is 32 hex characters.
Vlan	VLAN		Unsinged integer. Value range: 1 to 4094. .	N/A
SSID	Service Set Identifier		String, the length is 1 to 32.	N/A

Contents

Wclt 1
Wclt/SwitchClientMode 1
XML structure 1
Table description 1
Columns 2
Wclt/SSIDInfos 3
XML structure 3
Table description 3
Columns 4
Wclt/RadioInfo 4
XML structure 4
Table description 5
Columns 5

Wclt

Wclt/SwitchClientMode

This table contains client optimization information.

XML structure

```
<Wclt>
  <SwitchClientMode>
    <ApName></ApName>
    <RadioId></RadioId>
    <Enable></Enable>
    <AuthenticationMethod></AuthenticationMethod>
    <CipherSuite></CipherSuite>
    <Psk>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
    </Psk>
    <Wep>
      <WepKeyId></WepKeyId>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
    </Wep>
    <Vlan></Vlan>
    <SSID></SSID>
  </SwitchClientMode>
</Wclt>
```

Table description

Item	Description
Feature name	Wclt
Table name	SwitchClientMode
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned char. Value range: 1 to 4	N/A
Enable	Status of client-mode.		Boolean: • true or 1—Enabled. • false or 0—Disabled.	N/A
AuthenticationMode	Authentication mode of the client-mode		Enumeration: • 0—Open-system. • 1—Shared-key • 2—WPA2-PSK	N/A
CipherSuite	WEP cipher suite		Enumeration: • 1—WEP40 • 2—TKIP • 4—CCMP • 5—WEP104 • 8—WEP128	N/A
Psk	PSK information		Members include: • PskInputMode • PskPassPhraseKey • PskRawKey	N/A
PskInputMode	PSK input mode.		Enumeration. • 1—PassPphrase. • 2—RawKey.	N/A
PskPassPhraseKey	Pre-shared key.		String.	A PSK is a string of 8-63 alphanumeric characters.
PskRawKey	Raw key.		String	A PSK is a string of 64 hex characters.
Wep	WEP information		Members include: • WepKeyId • KeyInputType • Wep40PassPhraseKey • Wep40RawKey • Wep104PassPhraseKey • Wep104RawKey • Wep128PassPhraseKey • Wep128RawKey	N/A
WepKeyId	WEP key ID		Enumeration. Value range: 1 to 4.	N/A
KeyInputType	Key type		Enumeration. • 1—PassPhrase. • 2—RawKey.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Wep40PassPhraseKey	WEP40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	WEP40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	WEP104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	WEP104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	WEP128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	WEP128 key in raw		String.	The key is 32 hex characters.
Vlan	VLAN		Unsinged integer. Value range: 1 to 4094.	N/A
SSID	Service Set Identifier		String, the length is 1 to 32.	N/A

Wclt/SSIDInfos

This table contains SSID scanning optimization information.

XML structure

```
<Wclt>
  <SSIDInfos>
    <SSIDInfo>
      <SSID></SSID>
      <BSSID></BSSID>
      <PrivacyType></PrivacyType>
      <RSSI></RSSI>
      <TkipSelected></TkipSelected>
      <CcmpSelected></CcmpSelected>
    </SSIDInfo>
  </SSIDInfos>
</Wclt>
```

Table description

Item	Description
Feature name	Wclt
Table name	SSIDInfos
Table type	Multi-instance table

Item	Description
Row name	SSIDInfo
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SSID	Service Set Identifier	Index	String, the length is 1 to 32	N/A
BSSID	Basic Service Set Identifier	Index	String, the length is 6	N/A
PrivacyType	Wireless service security privacy type	N/A	Enumeration: • 0—NULL. • 1—WEP. • 2—WPA2. • 3—Clear. • 4—Unknown.	N/A
RSSI	Received Signal Strength Indicator	N/A	Unsigned Long: Value range: 0 to 100. • RSSI=0—No signal • 0<RSSI≤15—Signal Intensity I • 15<RSSI≤25—Signal Intensity II • 25<RSSI≤35—Signal Intensity III • 35<RSSI≤45—Signal Intensity IV • 45<RSSI—Signal Intensity V	N/A
TkipSelected	Whether the cipher suite is TKIP.	N/A	Boolean: • true—Yes. • false—No.	N/A
CcmpSelected	Whether the cipher suite is CCMP.	N/A	Boolean: • true—Yes. • false—No.	N/A

Wclt/RadioInfo

This table contains client optimization information.

XML structure

```
<Wclt>
  <RadioInfo>
    <ApName></ApName>
```

```
    <SSID></SSID>
    <RadioId></RadioId>
    <Rssi></Rssi>
    <AuthenticationMethod></AuthenticationMethod>
    <RadioType></RadioType>
    <Channel></Channel>
    <OnlineTime></OnlineTime>
    <RcvDataPkts></RcvDataPkts>
    <SndDataPkts></SndDataPkts>
    <MgrPkts></MgrPkts>
    <DropPkts></DropPkts>
    <Vlan></Vlan>
    <Status></Status>
  </RadioInfo>
</Wclt>
```

Table description

Item	Description
Feature name	Wclt
Table name	RadioInfo
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase Length: 1 to 63 characters.	N/A
RadioId	Radio ID		Unsigned char. Value range: 1 to 4.	N/A
SSID	SSID		String, the length is 1 to 32.	N/A.
Rssi	RSSI		Unsigned long. Value range: 0 to 100. • RSSI=0—No signal • 0<RSSI≤15—Signal Intensity I • 15<RSSI≤25—Signal Intensity II • 25<RSSI≤35—Signal Intensity III • 35<RSSI≤45—Signal Intensity IV • 45<RSSI—Signal Intensity V	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenticationMethod	Authentication mode of the client-mode		Enumeration: • 0—Open-system. • 1—Shared-key • 2—WPA2-PSK	N/A
RadioType	Radio type		Enumeration: • 1—802.11b (2.4GHz). • 2—802.11a (5GHz). • 3—802.11g (2.4GHz). • 4—802.11gn (2.4GHz). • 5—802.11an (5GHz). • 6—802.11ac (5GHz). • 7—802.11gac (2.4GHz). • 8—802.11ax (5GHz). • 9—802.11gax (2.4GHz).	N/A
Channel	Channel		Unsigned char	N/A
OnlineTime	Online time in seconds		Unsigned long	N/A
RcvDataPkts	Received data packets		Unsigned long long	N/A
SndDataPkts	Sent data packets		Unsigned long long	N/A
MgrPkts	Received management packets		Unsigned long long	N/A
DropPkts	Discarded packets		Unsigned long long	N/A
Vlan	VLAN		Unsinged integer. Value range: 1 to 4094.	N/A
Status	Status of connecting the wireless service		Enumeration: • 1—connected. • 2—disconnected.	N/A

Contents

WebAuth 1

WebAuth/ResetAccessUsers 1

XML structure 1

Table description 1

Columns 1

WebAuth

WebAuth/ResetAccessUsers

This table logs off online Web authentication users.

XML structure

```
<WebAuth>
  <ResetAccessUsers>
    <IfIndex></IfIndex>
    <MAC></MAC>
    <UserName></UserName>
  </ResetAccessUsers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	ResetAccessUsers
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in *Ifmgr NETCONF XML API Configuration Reference*.
MAC	User MAC address	N/A	MAC address.	N/A
UserName	Username	N/A	String. Length: 1 to 253 characters.	N/A

Contents

WebAuth 1
WebAuth/WebServers 1
XML structure 1
Table description 1
Columns 1
WebAuth/WebRemoteServers 2
XML structure 2
Table description 3
Columns 3
WebAuth/UrlParams 4
XML structure 4
Table description 4
Columns 4
WebAuth/Interfaces 5
XML structure 5
Table description 6
Columns 6
WebAuth/FreeIPs 7
XML structure 7
Table description 8
Columns 8
WebAuth/ProxyPorts 8
XML structure 8
Table description 8
Columns 9
WebAuth/FreeHosts 9
XML structure 9
Table description 9
Columns 10
WebAuth/Common 10
XML structure 10
Table description 10
Columns 10

WebAuth

WebAuth/WebServers

This table contains information about local Web authentication servers.

XML structure

```
<WebAuth>
  <WebServers>
    <WebServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
      <Port></Port>
      <IPv6Address></IPv6Address>
      <IPv6Port></IPv6Port>
      <Url></Url>
      <RedirectWaitTime></RedirectWaitTime>
      <ServerType></ServerType>
      <UrlUnescapeChars></UrlUnescapeChars>
    </WebServer>
  </WebServers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	WebServers
Table type	Multi-instance table
Row name	WebServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a local Web authentication server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IPv4 address of the local Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
Port	Port of the local Web authentication server	N/A	Unsigned integer. Value range: 1 to 65535. Default is not configured.	The column must be defined when the IPAddress exists.
IPv6Address	IPv6 address of the local Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
IPv6Port	IPv6 port of the local Web authentication server	N/A	Unsigned integer. Value range: 1 to 65535. Default is not configured.	The column must be defined when the IPV6Address exists.
Url	URL of the local Web authentication server	N/A	String. Length: 1 to 256 characters. Default is not configured.	N/A
RedirectWaitTime	Redirection wait time	N/A	Unsigned integer. Value range: 1 to 90. Default is 5.	N/A
ServerType	Type of a local Web authentication server	N/A	Enumeration: **1**—OAuth.	N/A
UrlUnescapeChars	Special characters that are not escaped in the redirect URL	N/A	String. Length: 1 to 16 characters. Default: Not configured.	N/A

WebAuth/WebRemoteServers

This table contains information about remote Web authentication servers.

XML structure

```
<WebAuth>
  <WebRemoteServers>
    <WebRemoteServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
```

```
      <IPv6Address></IPv6Address>
      <Url></Url>
      <TrackId></TrackId>
      <ServerType></ServerType>
      <UrlUnescapeChars></UrlUnescapeChars>
    </WebRemoteServer>
  </WebRemoteServers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	WebRemoteServers
Table type	Multi-instance table
Row name	WebServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a remote Web authentication server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddress	IPv4 address of the remote Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
IPv6Address	IPv6 address of the remote Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
Url	URL of the remote Web authentication server	N/A	String. Length: 1 to 256 characters. Default is not configured.	N/A
TrackId	Track ID for the Web authentication server URL	N/A	Unsigned integer. Value range: 1 to 1024.	The column could be defined only when the Url exists.
ServerType	Type of the remote Web authentication server	N/A	Enumeration: OAuth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UrlUnescapeChars	Special characters that are not escaped in the redirect URL	N/A	String. Length: 1 to 16 characters. Default: Not configured.	N/A

WebAuth/UrlParams

This table contains information about parameters in the URL of a Web authentication server.

XML structure

```
<WebAuth>
  <UrlParams>
    <UrlParam>
      <ServerName></ServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	UrlParams
Table type	Multi-instance table
Row name	UrlParam
Restrictions	Row creation is allowed only when the web-server exists.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a Web authentication server	Index	String. case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ParamName	Parameter name of the URL	Index	String. Length: 1 to 32 characters.	The column configures the parameter name carried in the redirect URL.
ParamType	Parameter type	N/A	Enumeration: • **0**—source-address. • **1**—source-mac. • **2**—original-url. • **3**—selfdefine.	The column must be defined.
SelfDefValue	User-defined parameter	N/A	String. Legth: 1 to 256 Characters. Default is not configured.	The column takes effect when ParamType is selfdefine.

WebAuth/Interfaces

This table contains Web authentication configuration on an interface.

XML structure

```
<WebAuth>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthEnable></AuthEnable>
      <ApplyServer></ApplyServer>
      <ApplyDomain></ApplyDomain>
      <MaxUser></MaxUser>
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <AuthFailVlan></AuthFailVlan>
      <OfflineDetectInterval></OfflineDetectInterval>
      <MultiVLAN></MultiVLAN>
      <ApplySecondaryServer></ApplySecondaryServer>
      <ApplyMacTriggerServer></ApplyMacTriggerServer>
      <MacVlanEnable></MacVlanEnable>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see “Appendix” in *Ifmgr NETCONF XML API Configuration Reference*.
AuthEnable	Enables the Web authentication function	N/A	Boolean: • **true**—Yes. • **false**—No (default).	You cannot enable both Web authentication and port security on an interface.
ApplyServer	Applies a Web authentication server	N/A	String. case-insensitive. Length: 1 to 32 characters. Default is not configured.	N/A
ApplyDomain	Applies an IPv4 authentication domain	N/A	String, Length: 1 to 255. Default is not configured.	N/A
MaxUser	Maximum number of users on the interface	N/A	Unsigned integer.	The value range depends on the device model.
MaxPreAuthUser	Maximum number of preauth-domain users on the interface	N/A	Unsigned integer.	The value range depends on the device model
MaxAuthFailUser	Maximum number of auth-fail-domain users on the	N/A	Unsigned integer.	The value range depends on the device model

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			
AuthFailVlan	VLAN for users that failed authentication	N/A	Unsigned integer. Value range: 1 to 4094. Default Value is not configured.	N/A
OfflineDetectInterval	Online user detection interval	N/A	Unsigned integer Value range: 60 to 65535 seconds. Default is not configured.	N/A
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: • **0**—Single VLAN (default). • **1**—Multiple VLAN.	N/A
ApplySecondaryServer	Applies a secondary Web authentication server	N/A	String. case-insensitive. Length: 1 to 32 characters. Default is not configured.	N/A
ApplyMacTriggerServer	Applies a MAC-trigger server	N/A	String. case-insensitive. Length: 1 to 32 characters. Default is not configured.	N/A
MacVlanEnable	Enables MAC-based VLAN for Web authentication users	N/A	Boolean: • **true**—Enabled. • **false**—Disabled (default).	N/A
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0**—Disables online users to bypass offline detection when all authentication servers are unavailable. • **1**—Enables online users to bypass offline detection and stay online when all authentication servers are unavailable.	N/A

WebAuth/FreeIPs

This table contains free IP configuration of Web authentication.

XML structure

```
<WebAuth>
  <FreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </FreeIPs>
```

```
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	FreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.	N/A
IPv4Mask	IP address mask	Index	IPv4 mask.	N/A

WebAuth/ProxyPorts

This table contains Web proxy configuration for Web authentication.

XML structure

```
<WebAuth>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
      <ProxyType></ProxyType>
    </ProxyPort>
  </ProxyPorts>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort

Item	Description
Restrictions	No.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	TCP port number	Index	Unsigned integer. Value range: 1 to 65535 (except 80 and 443). Default is not configured.	N/A
ProxyType	Proxy type	N/A	Enumeration: • **0**—HTTP (default). • **1**—HTTPS.	N/A

WebAuth/FreeHosts

This table contains Web authentication-free host configuration.

XML structure

```
<WebAuth>
  <FreeHosts>
    <FreeHost>
      <HostName></HostName>
    </FreeHost>
  </FreeHosts>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	FreeHosts
Table type	Multi-instance table
Row name	FreeHost
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of a Web authentication-free host	Index	String. Length: 1 to 253 characters.	Case-insensitive and can contains letters, digits, hyphens(-), dots (.), and underscores (_). It cannot· contain asterisks (*).

WebAuth/Common

This table contains Web authentication global parameters.

XML structure

```
<WebAuth>
  <Common>
    <TempEntryAging></TempEntryAging>
  </Common>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
TempEntryAging	Aging timer for the temporary MAC address entries	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds. Default: 60 seconds.

Contents

WebAuth 1

WebAuth/WebServers 1
XML structure 1
Table description 1
Columns 1
WebAuth/WebRemoteServers 2
XML structure 2
Table description 3
Columns 3
WebAuth/UrlParams 4
XML structure 4
Table description 4
Columns 4
WebAuth/Interfaces 5
XML structure 5
Table description 5
Columns 6
WebAuth/FreeIPs 7
XML structure 7
Table description 8
Columns 8
WebAuth/ProxyPorts 8
XML structure 8
Table description 8
Columns 9
WebAuth/OnlineUsers 9
XML structure 9
Table description 9
Columns 10
WebAuth/FreeHosts 11
XML structure 11
Table description 11
Columns 11
WebAuth/Common 11
XML structure 12
Table description 12
Columns 12

WebAuth

WebAuth/WebServers

This table contains information about local Web authentication servers.

XML structure

```
<WebAuth>
  <WebServers>
    <WebServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
      <Port></Port>
      <Url></Url>
      <IPv6Address></IPv6Address>
      <IPv6Port></IPv6Port>
      <RedirectWaitTime></RedirectWaitTime>
      <ServerType></ServerType>
      <UrlUnescapeChars></UrlUnescapeChars>
    </WebServer>
  </WebServers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	WebServers
Table type	Multi-instance table
Row name	WebServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a local Web authentication server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IPv4 address of the local Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
Port	Port of the local Web authentication server	N/A	Unsigned integer. Value range: 1-65535. Default is not configured.	The column must be defined when the IPAddress exists.
Url	URL of the local Web authentication serverr	N/A	String. Length: 1 to 256 characters. Default is not configured.	N/A
IPv6Address	IPv6 address of the local Web authentication server	N/A	String, dotted decimal notation. Default is not configured.	N/A
IPv6Port	IPv6 port of the local Web authentication server	N/A	Unsigned integer. Value range: 1-65535. Default is not configured.	The column must be defined when the IPv6Address exists.
RedirectWaitTime	Redirection wait time	N/A	Unsigned integer. Value range: 1 to 90. Default is 5.	N/A
ServerType	Type of a local Web authentication server	N/A	Enumeration: **1**—OAuth.	N/A
UrlUnescapeChars	Special characters that are not escaped in the redirect URL	N/A	String. Length: 1 to 16 characters. Default: Not configured.	N/A

WebAuth/WebRemoteServers

This table contains information about remote Web authentication servers.

XML structure

```
<WebAuth>
  <WebRemoteServers>
    <WebRemoteServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
```

```
      <IPv6Address></IPv6Address>
      <Url></Url>
      <TrackId></TrackId>
      <ServerType></ServerType>
      <State></State>
     <UrlUnescapeChars></UrlUnescapeChars>
    </WebRemoteServer>
  </WebRemoteServers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	WebRemoteServers
Table type	Multi-instance table
Row name	WebServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a remote Web authentication server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddress	IPv4 address of the remote Web authentication server server	N/A	String, dotted decimal notation.	N/A
IPv6Address	IPv6 address of the remote Web authentication server	N/A	String, dotted decimal notation.	N/A
Url	URL of the remote Web authentication server	N/A	String. Length: 1 to 256 characters.	N/A
TrackId	Track ID for the Web authentication server URL	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
State	State of the Web authentication server	N/A	Enumeration: • **0**—Active. • **1**—Blocked.	The column must be defined when the Url exists.
ServerType	Type of the remote Web authentication server	N/A	Enumeration: OAuth.	N/A
UrlUnescapeChar	Special characters	N/A	String.	N/A

Column name	Column description	Colu mn type	Data type and restrictions	Remarks
s	that are not escaped in the redirect URL		Length: 1 to 16 characters. Default: Not configured.	

WebAuth/UrlParams

This table contains information about URL parameters.

XML structure

```
<WebAuth>
  <UrlParams>
    <UrlParam>
      <ServerName></ServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	UrlParams
Table type	Multi-instance table
Row name	UrlParam
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of a Web authentication server	Index	String. case-insensitive. Length: 1 to 32 characters.	N/A
ParamName	Parameter name of the URL	Index	String. Length: 1 to 32 characters.	The column configures the parameter name carried in the redirect URL.

Column name	Column description	Column type	Data type and restrictions	Remarks
ParamType	Parameter type	N/A	Enumeration: • **0**—source-address. • **1**—source-mac. • **2**—original-url. • **3**—selfdefine.	The column must be defined.
SelfDefValue	User-defined parameter	N/A	String. Length: 1 to 256 characters. Default is not configured.	The column takes effect when ParamType is selfdefine.

WebAuth/Interfaces

This table contains Web authentication configuration on an interface.

XML structure

```
<WebAuth>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthEnable></AuthEnable>
      <ApplyServer></ApplyServer>
      <ApplyDomain></ApplyDomain>
      <MaxUser></MaxUser>
      <MaxPreAuthUser></MaxPreAuthUser>
      <MaxAuthFailUser></MaxAuthFailUser>
      <AuthFailVlan></AuthFailVlan>
      <OfflineDetectInterval></OfflineDetectInterval>
      <OnlineUserNum></OnlineUserNum>
      <MultiVLAN></MultiVLAN>
      <ApplySecondaryServer></ApplySecondaryServer>
      <ApplyMacTriggerServer></ApplyMacTriggerServer>
      <MacVlanEnable></MacVlanEnable>
      <AuthServerUnReachEscape></AuthServerUnReachEscape>
    </Interface>
  </Interfaces>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	Interfaces

Item	Description
Table type	Multi-instance table
Row name	Interface
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Some versions supports interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see ‘‘Appendix’’ in Ifmgr NETCONF XML API Configuration Reference.
AuthEnable	Enables the Web authentication function	N/A	Boolean: • **true**—Yes. • **false**—No	You cannot enable both Web authentication and port security on an interface.
ApplyServer	Applies a Web authentication server	N/A	String. case-insensitive. • Length: 1 to 32 characters.	N/A
ApplyDomain	Applies an IPv4 authentication domain	N/A	String, case-insensitive. • Length: 1 to 255.	N/A
MaxUser	Maximum number of users on the interface	N/A	Unsigned integer.	N/A
MaxPreAuthUser	Maximum number of preauth-domain users on the interface	N/A	Unsigned integer.	N/A
MaxAuthFailUser	Maximum number of auth-fail-domain users on the interface	N/A	Unsigned integer.	N/A
AuthFailVlan	VLAN for users that failed authentication	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
OfflineDetectInterval	Online user detection interval	N/A	Unsigned integer Value range: 60 to 65535 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OnlineUserNum	Allows authenticated users in multiple VLANs on this interface	N/A	Unsigned integer.	N/A
MultiVLAN	Applies a secondary Web authentication server	N/A	Enumeration: • **0**—Single VLAN • **1**—Multiple VLAN.	N/A
ApplySecondaryServer	Enables the Web authentication function	N/A	String. case-insensitive. Length: 1 to 32 characters. Default is not configured.	N/A
ApplyMacTriggerServer	Applies a MAC-trigger server	N/A	String. case-insensitive. Length: 1 to 32 characters. Default is not configured.	N/A
MacVlanEnable	Enables MAC-based VLAN for Web authentication users	N/A	Boolean: • **true**—Enabled. **false**—Disabled (default).	N/A
AuthServerUnReachEscape	Whether online users can bypass offline detection when all authentication servers are unavailable	N/A	Enumeration: • **0**—Disables online users to bypass offline detection when all authentication servers are unavailable. **1**—Enables online users to bypass offline detection and stay online when all authentication servers are unavailable.	N/A

WebAuth/FreeIPs

This table contains free IP configuration of Web authentication.

XML structure

```
<WebAuth>
  <FreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </FreeIPs>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	FreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.	N/A
IPv4Mask	IP address mask	Index	IPv4 mask.	N/A

WebAuth/ProxyPorts

This table contains Web proxy configuration for Web authentication.

XML structure

```
<WebAuth>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
      <ProxyType></ProxyType>
    </ProxyPort>
  </ProxyPorts>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	TCP port number	Index	Unsigned integer. Value range: 1 to 65535 (except 80 and 443).	N/A
ProxyType	Proxy type	N/A	Enumeration: • **0**—HTTP • **1**—HTTPS.	N/A

WebAuth/OnlineUsers

This table contains online Web authentication user information.

XML structure

```
<WebAuth>
  <OnlineUsers>
    <OnlineUser>
      <AccessInterface></AccessInterface>
      <UserMac></UserMac>
      <UserName></UserName>
      <InitVlan></InitVlan>
      <AuthVlan></AuthVlan>
      <AuthAcl></AuthAcl>
      <AuthUserProfile></AuthUserProfile>
      <AuthMicroSegmentID></AuthMicroSegmentID>
      <DrniNasIpType></DrniNasIpType>
      <DrniUserState></DrniUserState>
      <MLagNasIpType></MLagNasIpType>
      <MLagUserState></MLagUserState>
    </OnlineUser>
  </OnlineUsers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessInterface	Access interface of an online user	Index	Unsigned integer.	Some versions supports interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see ''Appendix'' in Ifmgr NETCONF XML API Configuration Reference.
UserMac	MAC address of the user	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
UserName	User name	N/A	String.	N/A
InitVlan	Initiate VLAN of the user	N/A	Unsigned integer.	N/A
AuthVlan	Authorization VLAN of the user	N/A	Unsigned integer.	N/A
AuthAcl	Authorization ACL of the user	N/A	Unsigned integer.	N/A
AuthUserProfile	Authorization user profile of the user	N/A	String.	N/A
AuthMicroSegmentID	Microsegment ID assigned to the user	N/A	Unsigned integer. Value range: 1 to 65535	N/A
DrniNasIpType	In DRNI networking, the nas ip address type used for user authentication on DR interface	N/A	Enumeration: • **1**—Local. • **2**—Peer.	N/A
DrniUserState	User status on DR interface in DRNI network	N/A	Enumeration: • **0**—Inactive. • **1**—Active.	N/A
MLagNasIpType	In MLAG networking, the nas ip address type used for user authentication on MLAG interface	N/A	Enumeration: • “Local”. • “Peer”.	N/A
MLagUserState	User status on MLAG	N/A	Enumeration: • “Inactive”.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface in MLAG network		• “Active”.	

WebAuth/FreeHosts

This table contains Web authentication-free host configuration.

XML structure

```
<WebAuth>
  <FreeHosts>
    <FreeHost>
      <HostName></HostName>
    </FreeHost>
  </FreeHosts>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	FreeHosts
Table type	Multi-instance table
Row name	FreeHost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of a Web authentication-free host	Index	String. Length: 1 to 253 characters.	Case-insensitive and can contains letters, digits, hyphens(-), dots (.), and underscores (_). It cannot contain asterisks (*).

WebAuth/Common

This table contains Web authentication global parameters.

XML structure

```
<WebAuth>
  <Common>
    <TempEntryAging></TempEntryAging>
  </Common>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TempEntryAging	Aging timer for the temporary MAC address entries	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.

Contents

WebAuth 1
WebAuth/Interfaces 1
WebAuth/WebServers 1
WebAuth/WebRemoteServers 2
WebAuth/ProxyPorts 2
WebAuth/FreeHosts 2

WebAuth

WebAuth/Interfaces

Message	Explanation
The primary and secondary Web authentication servers must be different servers. 主从Web认证服务器名称不能相同。	The primary and secondary Web authentication servers must be different servers. 主从Web认证服务器名称不能相同。
Can't delete a primary or backup server without <AuthEnable> tag.若要删除主从服务器，请指定<AuthEnable>标签	Can't delete a primary or backup server that is disabled with Web authentication.若要删除主从服务器，请指定<AuthEnable>标签
Can't enable Web authentication on an IPP port. 不能使能Web认证，因为这是一个IPP接口。	Can't enable Web authentication on an IPP port. 不能使能Web认证，因为这是一个IPP接口。
Configuration failed because the specified object does not support the web-auth MAC-VLAN enable operation. 不支持Web认证的MAC VLAN功能，配置失败。	Configuration failed because the specified object does not support the web-auth MAC-VLAN enable operation. 不支持Web认证的MAC VLAN功能，配置失败。
This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。	This operation conflicts with pre-auth domain configuration. 配置失败，因为与前域配置冲突。
This operation conflicts with the URL-unavailable domain configuration. 此操作和URL逃生域配置冲突。	This configuration conflicts with the URL-unavailable domain configuration. 该配置与URL逃生域配置冲突。

WebAuth/WebServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The name is already used by another Web authentication server. Web服务器名已被其它服务器使用。	The name is already used by another Web authentication server. Web服务器名已被其它服务器使用。
Invalid characters. Only the following characters are valid: !$'()*+,-./:;?@_ 配置的字符必须包含在!$'()*+,-./:;?@_中	Invalid characters. Only the following characters are valid: !$'()*+,-./:;?@_ 配置的字符必须包含在!$'()*+,-./:;?@_中
`The string cannot contain repeated characters.` 配置字符串中不能包含重复字符	`The string cannot contain repeated characters.` 配置字符串中不能包含重复字符

WebAuth/WebRemoteServers

Message	Explanation
Invalid IP address. 无效IP地址。	Invalid IP address. 无效IP地址。
The name is already used by another Web authentication server. Web服务器名已被其它服务器使用。	The name is already used by another Web authentication server. Web服务器名已被其它服务器使用。
Invalid characters. Only the following characters are valid: !$'()*+,-./:;?@_ 配置的字符必须包含在!$'()*+,-./:;?@_中	Invalid characters. Only the following characters are valid: !$'()*+,-./:;?@_ 配置的字符必须包含在!$'()*+,-./:;?@_中
The string cannot contain repeated characters. 配置字符串中不能包含重复字符	The string cannot contain repeated characters. 配置字符串中不能包含重复字符

WebAuth/ProxyPorts

Message	Explanation
Can't configure the same Web proxy port for HTTP and HTTPS. 无法将一个端口同时配置为HTTP和HTTPS。	Can't configure the same Web proxy port for HTTP and HTTPS. 无法将一个端口同时配置为HTTP和HTTPS。
User-configured port number can't be 80 (default for HTTP) or 443 (default for HTTPS). 用户配置的端口号不能为80（HTTP默认端口号）或443（HTTPS默认端口号）。	User-configured port number can't be 80 (default for HTTP) or 443 (default for HTTPS). 用户配置的端口号不能为80（HTTP默认端口号）或443（HTTPS默认端口号）。
Maximum number of Web proxy ports already reached. Web代理服务器端口数配置已经达到最大值。	Maximum number of Web proxy ports already reached. Web代理服务器端口数配置已经达到最大值。

WebAuth/FreeHosts

Message	Explanation
Invalid host name. 无效的主机名。	The host name is invalid. 配置了无效的主机名。

Contents

WebAuth event stream 1
WebAuth event 1
XML structure for event subscription 1
XML structure for event report 1

WebAuth event stream

WevAuth event stream description.

WebAuth event

This event is used to report information about a Web server for remote Web authentication, including the server state.

XML structure for event subscription

```
<WebAuthServerState>
</WebAuthServerState>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>WEBAUTH</stream>
    <filter type="subtree">
      < WebAuthServerState xmlns="http://www.h3c.com/netconf/event:1.0/WEBAUTH:1.0">
      </WebAuthServerState>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	WEBAUTH
Event name	WebAuthServerState
Event namespace	http://www.h3c.com/netconf/event:1.0/WEBAUTH:1.0
Support for extended query	No

XML structure for event report

```
<WebAuthServerState>
  <ServerState>
     <ServerName></ServerName>
     <IPv4Address></IPv4Address>
     <IPv6Address></IPv6Address>
     <Url></Url >
     <State></State>
  </ServerState>
</WebAuthServerState>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2019-07-05T10:24:36</eventTime>
  <WebAuthServerState xmlns="http://www.h3c.com/netconf/event:1.0/WEBAUTH:1.0">
  <ServerState>
     <ServerName>user</ServerName>
     <IPv4Address>192.168.0.112</IPv4Address>
     <IPv6Address>1::2</IPv6Address>
     <Url>http://192.168.0.112:8080/portal/</Url >
     <State>Active</State>
  </ServerState>
</WebAuthServerState>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
ServerName	Name of the remot Web authentication server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPv4Address	IPv4 address of the remote Web authentication server	N/A	IPv4: String, dotted decimal notation.	This column represents an IPv4 address. For example, 1.0.0.1.
IPv6Address	IPv6 address of the remote Web authentication server	N/A	IPv6: Hexadecimal string, colon-separated	This column represents an IPv6 address. For example, 2001:12::1:2.
Url	URL of the remote Web authentication server	Index	String, case-sensitive. Length: 1 to 256 characters.	N/A
State	State of the remote Web authentication server	N/A	String: • Active. • Blocked.	N/A

Contents

WebCache 1

WebCache/Configurations 1
XML structure 1
Table description 1
Columns 2
WebCache/ListenPorts 5
XML structure 5
Table description 5
Columns 6

WebCache

WebCache/Configurations

This table contains Web caching configuration information.

XML structure

```
<WebCache>
  <Configurations>
    <Configuration>
      <Chassis></Chassis>
      <Slot></Slot>
      <Enable></Enable>
      <PortNumber></PortNumber>
      <HttpsEnable></HttpsEnable>
      <HttpsPortNumber></HttpsPortNumber>
      <FileDir></FileDir>
      <DataType></DataType>
      <CacheLimit></CacheLimit>
      <DestIpv4ObjectGroup></DestIpv4ObjectGroup>
      <SrcIpv4ObjectGroup></SrcIpv4ObjectGroup>
      <DestIpv6ObjectGroup></DestIpv6ObjectGroup>
      <SrcIpv6ObjectGroup></SrcIpv6ObjectGroup>
      <CachedFileList>
        <FileName></FileName>
      </CachedFileList>
      <CachedExtensionNameList>
        <ExtensionName></ExtensionName>
      </CachedExtensionNameList>
    </Configuration>
  </Configurations>
</WebCache>
```

Table description

Item	Description
Feature name	WebCache
Table name	Configurations
Table type	Multi-instance table

Item	Description
Row name	Configuration
Restrictions	Only one row can be created.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is not a distributed device operating in IRF mode, set this column to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is a centralized device or centralized IRF device in standalone mode, set this column to 65535.
Enable	Whether Web caching is enabled for HTTP data	N/A	Boolean: • **true**—Web caching is enabled for HTTP data. • **false**—Web caching is disabled for HTTP data (default).	N/A
PortNumber	Web caching listening port number for HTTP data	N/A	Unsigned integer. Value range: 1 to 65535. Default value: 80.	N/A
HttpsEnable	Whether Web caching is enabled for HTTPS data	N/A	Boolean: • **true**—Web caching is enabled for HTTPS data. • **false**—Web caching is disabled for HTTPS data (default).	N/A
HttpsPortNu	Web caching	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
mber	listening port number for HTTPS data		Value range: 1 to 65535. Default value: 443.	
FileDir	Web cache directory	N/A	String, case sensitive. Length: 0 to 255 characters. Default: no value is specified.	The Web cache directory string must start with the storage medium location information.
DataType	Types of the webpage files to be cached	N/A	String, case sensitive. Length: 1 to 127 characters. File types available: • apk. • bmp. • doc. • docx. • gif. • gzip. • ipa. • jar. • jpg. • jpeg. • mp4. • pdf. • png. • ppt. • pptx. • rar. • swf. • tar. • txt. • xls. • xlsx. • zip. Default: no value is	To specify multiple file types, use spaces as the delimiter, for example, apk bmp doc. You must specify all the file types at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
			specified.	
CacheLimit	Maximum total size for Web cache files, in GB	N/A	Unsigned integer. Value range: 1 to 4095. Default value: 4.	N/A
DestIpv4ObjectGroup	Name of the IPv4 address object group used to specify the Web servers whose Web contents are to be cached	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
SrcIpv4ObjectGroup	Name of the IPv4 address object group used to specify the clients to be serviced	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
DestIpv6ObjectGroup	Name of the IPv6 address object group used to specify the Web servers whose Web contents are to be cached	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
SrcIpv6ObjectGroup	Name of the IPv6 address object group used to specify the clients to be serviced	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
CachedFileList	List of files to be cached	Data Structure	Members include: FileName	N/A
FileName	File name, which contains the extension but does not contain the path information	N/A	String, case sensitive. Length: 1 to 127 characters. Default: No file name is specified.	A maximum of 20 file names are supported in CachedFileList.

Column name	Column description	Column type	Data type and restrictions	Remarks
CachedExtensionNameList	List of file extension names	Data Structure	Members include: ExtensionName	N/A
ExtensionName	File extension name to be cached	N/A	String, case sensitive. Length: 1 to 16 characters. Default: No file extension names are specified.	A maximum of 64 file extension names are supported

WebCache/ListenPorts

This table contains Web caching listening port information.

XML structure

```
<WebCache>
  <ListenPorts>
    <ListenPort>
      <Chassis></Chassis>
      <Slot></Slot>
      <PortNumber></PortNumber>
      <Protocol></Protocol>
      <ServerPortNumber></ServerPortNumber>
    </ListenPort>
  </ListenPorts>
</WebCache>
```

Table description

Item	Description
Feature name	WebCache
Table name	ListenPorts
Table type	Multi-instance table
Row name	ListenPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is not a distributed device operating in IRF mode, set this column to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is a centralized device or centralized IRF device in standalone mode, set this column to 65535.
PortNumber	Listening port number for Web caching.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Protocol	Protocol of the Web caching service.	N/A	String, case sensitive. Protocol: • HTTP • HTTPS	N/A
ServerPortNumber	Port Number of a Web server.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Contents

WebCache 1

WebCache/Configurations 1
XML structure 1
Table description 1
Columns 2
WebCache/ListenPorts 5
XML structure 5
Table description 5
Columns 5
WebCache/Informations 6
XML structure 6
Table description 8
Columns 8

WebCache

WebCache/Configurations

This table contains Web caching configuration information.

XML structure

```
<WebCache>
  <Configurations>
    <Configuration>
      <Chassis></Chassis>
      <Slot></Slot>
      <Enable></Enable>
      <PortNumber></PortNumber>
      <HttpsEnable></HttpsEnable>
      <HttpsPortNumber></HttpsPortNumber>
      <FileDir></FileDir>
      <DataType></DataType>
      <CacheLimit></CacheLimit>
      <DestIpv4ObjectGroup></DestIpv4ObjectGroup>
      <SrcIpv4ObjectGroup></SrcIpv4ObjectGroup>
      <DestIpv6ObjectGroup></DestIpv6ObjectGroup>
      <SrcIpv6ObjectGroup></SrcIpv6ObjectGroup>
      <CachedFileList>
        <FileName></FileName>
      </CachedFileList>
      <CachedExtensionNameList>
        <ExtensionName></ExtensionName>
      </CachedExtensionNameList>   </Configuration>
  </Configurations>
</WebCache>
```

Table description

Item	Description
Feature name	WebCache
Table name	Configurations
Table type	Multi-instance table
Row name	Configuration

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is not a distributed device operating in IRF mode, the value of this column is 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is a centralized device or centralized IRF device in standalone mode, the value of this column is 65535.
Enable	Whether Web caching is enabled for HTTP data	N/A	Boolean: • **true**—Web caching is enabled for HTTP data. • **false**—Web caching is disabled for HTTP data.	N/A
PortNumber	Web caching listening port number for HTTP data	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
HttpsEnable	Whether Web caching is enabled for HTTPS data	N/A	Boolean: • **true**—Web caching is enabled for HTTPS data. • **false**—Web caching is disabled for HTTPS data.	N/A
HttpsPortNumber	Web caching listening port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	number for HTTPS data		Value range: 1 to 65535.	
FileDir	Web cache directory	N/A	String, case sensitive. Length: 0 to 255 characters.	The Web cache directory string must start with the storage medium location information.
DataType	Types of the webpage files to be cached	N/A	String, case sensitive. Length: 1 to 127 characters. File types available: • apk. • bmp. • doc. • docx. • gif. • gzip. • ipa. • jar. • jpg. • jpeg. • mp4. • pdf. • png. • ppt. • pptx. • rar. • swf. • tar. • txt. • xls. • xlsx. • zip.	To specify multiple file types, use spaces as the delimiter, for example, apk bmp doc. You must specify all the file types at the same time.
CacheLimit	Maximum total size for Web cache files, in GB	N/A	Unsigned integer. Value range: 1 to 4095. Default value: 4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestIpv4ObjectGroup	Name of the IPv4 address object group used to specify the Web servers whose Web contents are to be cached	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
SrcIpv4ObjectGroup	Name of the IPv4 address object group used to specify the clients to be serviced	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
DestIpv6ObjectGroup	Name of the IPv6 address object group used to specify the Web servers whose Web contents are to be cached	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
SrcIpv6ObjectGroup	Name of the IPv6 address object group used to specify the clients to be serviced	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
CachedFileList	List of files to be cached	Data Structure	Members include: FileName	N/A
FileName	File name, which contains the extension but does not contain the path information	N/A	String, case sensitive. Length: 1 to 127 characters. Default: No file name is specified.	A maximum of 20 file names are supported in CachedFileList.
CachedExtensionNameList	List of file extension names	Data Structure	Members include: ExtensionName	N/A
ExtensionName	File extension name to be	N/A	String, case sensitive. Length: 1 to 16 characters.	A maximum of 64 file extension names are

Column name	Column description	Column type	Data type and restrictions	Remarks
	cached		Default: No file extension names are specified.	supported

WebCache/ListenPorts

This table contains Web caching listening port information.

XML structure

```
<WebCache>
  <ListenPorts>
    <ListenPort>
      <Chassis></Chassis>
      <Slot></Slot>
      <PortNumber></PortNumber>
      <Protocol></Protocol>
      <ServerPortNumber></ServerPortNumber>
    </ListenPort>
  </ListenPorts>
</WebCache>
```

Table description

Item	Description
Feature name	WebCache
Table name	ListenPorts
Table type	Multi-instance table
Row name	ListenPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer.	If the device is not a

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	distributed device operating in IRF mode, set this column to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.	If the device is a centralized device or centralized IRF device in standalone mode, set this column to 65535.
PortNumber	Listening port number for Web caching.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Protocol	Protocol of the Web caching service.	N/A	String, case sensitive. Protocol: • HTTP • HTTPS	N/A
ServerPortNumber	Port Number of a Web server.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

WebCache/Informations

This table contains the current Web caching statistics.

XML structure

```
<WebCache>
  <Informations>
    <Information>
      <Chassis></Chassis>
      <Slot></Slot>
      <CachePath></CachePath>
      <MaxConnect></MaxConnect>
      <MaxCache></MaxCache>
      <CacheMemory></CacheMemory>
      <CacheCount></CacheCount>
      <Last1min>
```

```
  <ConnectTop></ConnectTop>
  <CacheTop></CacheTop>
  <BandwidthSaved></BandwidthSaved>
  <ServiceSpeed></ServiceSpeed>
  <ServiceSize></ServiceSize>
  <DownloadSpeed></DownloadSpeed>
  <DownloadSize></DownloadSize>
  <CacheHitRate></CacheHitRate>
  <HitCount></HitCount>
  <MissCount></MissCount>
</Last1min>
<Last1hour>
  <ConnectTop></ConnectTop>
  <CacheTop></CacheTop>
  <BandwidthSaved></BandwidthSaved>
  <ServiceSpeed></ServiceSpeed>
  <ServiceSize></ServiceSize>
  <DownloadSpeed></DownloadSpeed>
  <DownloadSize></DownloadSize>
  <CacheHitRate></CacheHitRate>
  <HitCount></HitCount>
  <MissCount></MissCount>
</Last1hour>
<Last1day>
  <ConnectTop></ConnectTop>
  <CacheTop></CacheTop>
  <BandwidthSaved></BandwidthSaved>
  <ServiceSpeed></ServiceSpeed>
  <ServiceSize></ServiceSize>
  <DownloadSpeed></DownloadSpeed>
  <DownloadSize></DownloadSize>
  <CacheHitRate></CacheHitRate>
  <HitCount></HitCount>
  <MissCount></MissCount>
</Last1day>
<Last30days>
  <ConnectTop></ConnectTop>
  <CacheTop></CacheTop>
  <BandwidthSaved></BandwidthSaved>
  <ServiceSpeed></ServiceSpeed>
  <ServiceSize></ServiceSize>
  <DownloadSpeed></DownloadSpeed>
  <DownloadSize></DownloadSize>
  <CacheHitRate></CacheHitRate>
  <HitCount></HitCount>
  <MissCount></MissCount>
</Last30days>
<Last365days>
```

```
        <ConnectTop></ConnectTop>
        <CacheTop></CacheTop>
        <BandwidthSaved></BandwidthSaved>
        <ServiceSpeed></ServiceSpeed>
        <ServiceSize></ServiceSize>
        <DownloadSpeed></DownloadSpeed>
        <DownloadSize></DownloadSize>
        <CacheHitRate></CacheHitRate>
        <HitCount></HitCount>
        <MissCount></MissCount>
      </Last365days>
    </Information>
  </Informations>
</WebCache>
```

Table description

Item	Description
Feature name	WebCache
Table name	Informations
Table type	Multi-instance table
Row name	Information
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.
CachePath	Web cache directory	N/A	String. Length: 0 to 255 characters.
MaxConnect	Maximum number of connections allowed	N/A	Unsigned integer. Value range: 0 to 4,294,967,295.
MaxCache	Maximum storage space size	N/A	String.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 4 characters.
CacheMemory	Current total size of Web cache files	N/A	String. Length: 1 to 8 characters.
CacheCount	Number of Web cache files	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
ConnectTop	Maximum number of connections during the specified period of time	N/A	Unsigned integer. Value range: 0 to 4,294,967,295.
CacheTop	Maximum total size (in MB) of Web cache files during the specified period of time	N/A	String. Length: 1 to 8 characters.
BandwidthSaved	Bandwidth saved during the specified period of time	N/A	String. Length: 1 to 10 characters.
ServiceSpeed	Speed at which cached data was transferred to users during the specified period of time	N/A	String. Length: 1 to 10 characters.
ServiceSize	Amount of cached data that was transferred to users during the specified period of time	N/A	String. Length: 1 to 8 characters.
DownloadSpeed	Speed at which cached data was downloaded from Web servers during the specified period of time	N/A	String. Length: 1 to 10 characters.
DownloadSize	Amount of cached data that was downloaded from Web servers during the specified period of time	N/A	String. Length: 1 to 8 characters.
CacheHitRate	Percentage of hits of cached data	N/A	String. Length: 1 to 5 characters.

Column name	Column description	Column type	Data type and restrictions
HitCount	Number of hits of cached data	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.
MissCount	Number of times that cached data was not matched	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.

Contents

WEBCUSTOM 1
WEBCustom/ Customs 1
XML structure 1
Table description 1
Columns 1

WEBCUSTOM

WEBCustom/ Customs

This table contains information about WEB custom configuration.

XML structure

```
<WEBCustom>
  <Customs>
    <Custom>
      <ID></ID>
      <Data></Data>
    </Custom>
  </Customs>
</WEBCustom>
```

Table description

Item	Description
Feature name	WEBCustom
Table name	Customs
Table type	Multi-instance table
Row name	Custom
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Index of WEB custom configuration.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Data	The data of WEB custom configuration.	N/A	String, case-insensitive. Length: 1 to 16383 characters.	N/A

Contents

WEBCUSTOM 1
WEBCustom/ Customs 1
XML structure 1
Table description 1
Columns 1

WEBCUSTOM

WEBCustom/ Customs

This table contains information about WEB custom configuration.

XML structure

```
<WEBCustom>
  <Customs>
    <Custom>
      <ID></ID>
      <Data></Data>
    </Custom>
  </Customs>
</WEBCustom>
```

Table description

Item	Description
Feature name	WEBCustom
Table name	Customs
Table type	Multi-instance table
Row name	Custom
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Index of WEB custom configuration.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Data	The data of WEB custom configuration.	N/A	String, case-insensitive. Length: 1 to 16383 characters.	N/A

Comware V7 WLANClient NETCONF XML API Action Reference

Copyright © 2013 Hangzhou H3C Technologies Co., Ltd. All rights reserved.
No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Hangzhou H3C Technologies Co., Ltd.
The information in this document is subject to change without notice.

Revision Record

Date	Revision Version	Change Description	Author
2015-5-16	V1.00	Initial	C09811

Contents

WLANClient 1
- WLANClient/ResetDynamicBlackList 1
  - XML structure 1
  - Table description 1
  - Columns 1
- WLANClient/ResetClient 1
  - XML structure 2
  - Table description 2
  - Columns 2
- WLANClient/SetDynamicBlackList 2
  - XML structure 2
  - Table description 3
  - Columns 3
- WLANClient/UserCtrlInfo 4
  - XML structure 4
  - Table description 4
  - Columns 4

WLANClient

WLANClient/ResetDynamicBlackList

This table contains information of dynamic black list resetting.

XML structure

```
<WLANClient>
  <ResetDynamicBlackList>
    <DynamicBlackList>
      <MacAddress></MacAddress>
    </DynamicBlackList>
  </ResetDynamicBlackList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ResetDynamicBlackList
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remaks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0.	When MacAddress is empty, all client will be reset.

WLANClient/ResetClient

This table contains information of client resetting.

XML structure

```
<WLANClient>
  <ResetClient>
    <Client>
      <MacAddress></MacAddress>
    </Client>
  </ResetClient>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ResetClient
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remaks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0.	When MacAddress is empty, all client will be reset.

WLANClient/SetDynamicBlackList

This table contains information about dynamic blacklist settings.

XML structure

```
<WLANClient>
  <SetDynamicBlackList>
    <DynamicBlackList>
      <MacAddress> </MacAddress>
      <Ipv4Address> </Ipv4Address>
      <Ipv6Address> </Ipv6Address>
      <ApName> </ApName>
```

```
        <RadioId></RadioId>
        <LifeTime></LifeTime>
      </DynamicBlackList>
    </SetDynamicBlackList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	SetDynamicBlackList
Table type	Multi-instance table
Row name	DynamicBlackList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0.	You can specify a client by only one of the three attributes: MAC address, IPv4 address, and IPv6 address.
Ipv4Address	Client IPv4 address.	N/A	IPv4: String, dotted decimal notation. Example, 1.0.0.1	You can specify a client by only one of the three attributes: MAC address, IPv4 address, and IPv6 address.
Ipv6Address	Client IPv6 address.	N/A	IPv6: Hexadecimal string, colon-separated. Example, 2001:12::1:2.	You can specify a client by only one of the three attributes: MAC address, IPv4 address, and IPv6 address.
ApName	AP name.	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioId	Radio ID.	N/A	Unsigned char. Value range: 1 to 4.	N/A
LifeTime	Aging time of a blacklist entry.	N/A	Unsiged integer. Value range:1 to 3600 seconds.	N/A

WLANClient/UserCtrlInfo

This table information about user control settings.

XML structure

```
<WLANClient>
  <UserCtrlInfo>
    <ClientCtrlInfo>
      <MacAddress></MacAddress>
      <CarSource></CarSource>
      <Inbound>
        <Cir></Cir>
      </Inbound>
      <Outbound>
        <Cir></Cir>
      </Outbound>
    </ClientCtrlInfo>
  </UserCtrlInfo>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	UserCtrlInfo
Table type	Multi-instance table
Row name	ClientCtrlInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address	Index	MAC address. Example: 00-0c-af-e3-5d-c0.	N/A
CarSource	Source module that uses the	N/A	Enumeration:. 1: Cloud	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			
Inbound	Inbound information	Data structure	Members include: Cir	N/A
Outbound	Outbound information	Data structure	Members include: Cir	N/A
Cir	Committed information rate	N/A	Unsiged integer. Value range: 8 to 4294967295 bps.	N/A

Contents

WLANClient 1

WLANClient/ClientOption 1
XML structure 1
Table description 1
Columns 1
WLANClient/ServiceTemplates 2
XML structure 2
Table description 3
Columns 3
WLANClient/ServiceBindings 6
XML structure 6
Table description 6
Columns 7
WLANClient/APGroupServiceBindings 7
XML structure 7
Table description 8
Columns 8
WLANClient/ServiceSecurity 9
XML structure 9
Table description 9
Columns 10
WLANClient/ServiceWepKey 12
XML structure 12
Table description 12
Columns 13
WLANClient/RadioWmm 13
XML structure 13
Table description 14
Columns 14
WLANClient/ClientEdca 15
XML structure 15
Table description 15
Columns 16
WLANClient/MobilityRole 16
XML structure 16
Table description 17
Columns 17
WLANClient/MobilityGroups 17
XML structure 17
Table description 18
Columns 18
WLANClient/MobilityIPv4Members 18
XML structure 18
Table description 19
Columns 19
WLANClient/MobilityIPv6Members 19
XML structure 19
Table description 19
Columns 20
WLANClient/MobilityPeerGroups 20
XML structure 20
Table description 20
Columns 21
WLANClient/PeerGroupIPv4Members 21
XML structure 21
Table description 21
Columns 22

WLANClient/PeerGroupIPv6Members 22
XML structure 22
Table description 22
Columns 22
WLANClient/Layer2Authentication 23
XML structure 23
Table description 23
Columns 24
WLANClient/APs 25
XML structure 25
Table description 26
Columns 26
WLANClient/APGroup 28
XML structure 28
Table description 29
Columns 29
WLANClient/BandNavigation 31
XML structure 31
Table description 31
Columns 32
WLANClient/LoadBalance 32
XML structure 32
Table description 33
Columns 33
WLANClient/LoadBalanceGroup 34
XML structure 34
Table description 34
Columns 35
WLANClient/RadioInLBGroup 35
XML structure 35
Table description 35
Columns 35
WLANClient/WhiteList 36
XML structure 36
Table description 36
Columns 36
WLANClient/StaticBlackList 36
XML structure 37
Table description 37
Columns 37
WLANClient/DynamicBlackListCfg 37
XML structure 37
Table description 37
Columns 38
WLANClient/pmfConfiguration 38
XML structure 38
Table description 38
Columns 39
WLANClient/FtConfiguration 39
XML structure 39
Table description 40
Columns 40
WLANClient/Layer2AccessControl 40
XML structure 40
Table description 41
Columns 41
WLANClient/Wrlb5GOverLoad 41
XML structure 41
Table description 41
Columns 42
WLANClient/WciaAp 42
XML structure 42

Table description ····· 42
Columns ····· 43
WLANClient/WciaApGroup ····· 43
XML structure ····· 43
Table description ····· 43
Columns ····· 44
WLANClient/VipClientGroup ····· 44
XML structure ····· 44
Table description ····· 44
Columns ····· 44
WLANClient/VipClientGroupCfg ····· 45
XML structure ····· 45
Table description ····· 45
Columns ····· 46
WLANClient/VipClientRateLimitCfg ····· 46
XML structure ····· 46
Table description ····· 47
Columns ····· 47
WLANClient/PermitSsid ····· 48
XML structure ····· 48
Table description ····· 48
Columns ····· 49
WLANClient/RoamingCenter ····· 49
XML structure ····· 49
Table description ····· 49
Columns ····· 50
WLANClient/RadioWnm ····· 50
XML structure ····· 50
Table description ····· 51
Columns ····· 51

WLANClient

WLANClient/ClientOption

This table contains client optimization information.

XML structure

```
<WLANClient>
  <ClientOption>
    <Option>
      <ApName></ApName>
      <RadioId></RadioId>
      <Reject>
        <Status></Status>
        <Rssi></Rssi>
      </Reject>
    </Option>
  </ClientOption>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientOption
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier	Index	Unsigned char. Value range: 1 to 4
Reject	weak-signal client rejection	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
	information		Status Rssi
Status	Status of weak-signal client access rejection		Enumeration: 0: Disable. 1: Enable 2: Inherit.
Rssi	RSSI threshold for weak-signal client access rejection		Unsigned integer. Value range: 5 to 100. Default value is 10.

WLANClient/ServiceTemplates

This table contains service template information.

XML structure

```
<WLANClient>
  <ServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <MaxClientCnt></MaxClientCnt>
      <Enable></Enable>
      <ForwardingLocation></ForwardingLocation>
      <LocalForwardVlanList></LocalForwardVlanList>
      <PolicyForwarding></PolicyForwarding>
      <PolicyName></PolicyName>
      <AssociationLocation></AssociationLocation>
      <AuthenticationLocation></AuthenticationLocation>
      <QuikAssociation></QuikAssociation>
      <HotspotPolicyNum></HotspotPolicyNum>
      <UserIsolation></UserIsolation>
      <Description></Description>
      <UrlRedirect></UrlRedirect>
      <Ipv4ArpLearning></Ipv4ArpLearning>
      <Ipv4DhcpLearning></ Ipv4DhcpLearning >
      <Ipv6DhcpLearning></Ipv6DhcpLearning>
      <Ipv6DhcpVlanList></Ipv6DhcpVlanList>
      <Ipv6NdLearning></Ipv6NdLearning>
      <Ipv6NdVlanList></Ipv6NdVlanList>
      <IpVerifySource></IpVerifySource>
```

```
    <Ipv6VerifySource></Ip6VerifySource>
    <AddressSecurityStatus></AddressSecurityStatus>
    <Failpermit>
      <FailpermitStatus></FailpermitStatus>
      <KeepOnline></KeepOnline>
      <UrlUserLogoff></UrlUserLogoff>
    <Failpermit>
    <FailpermitTemplate></FailpermitTemplate>
    <WPA3Switch></WPA3Switch>
    <BTMStatus></BTMStatus>    </Template>
  </ServiceTemplates>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceTemplates
Table type	Multi-instance table
Row name	ServiceTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name	Index	String, letter, number or '-', '[',']','/','-'. The length is 1 to 63.
SSID	Identifier of service set.		String, the length is 1 to 32.
DefaultVlan	DefaultVlan.		Unsinged integer. Value range: 1 to 4094. The default value is 1.
HideSsid	Hiding status of SSID		Boolean: • true—enabled. • false—disabled, default value.
MaxClientCnt	Maximum clients of the BSS.		Unsinged integer. Value range: 1 to 2007. The default value is 0.
Enable	Status of service template.		Boolean: true or 1 : enabled. false or 0 : disabled. The default value is false.
ForwardingLocation	Client forwarding location.		Enumeration:. • 4—On AP • 2—On AC

Column name	Column description	Column type	Data type and restrictions
			• 8—Hybrid AC • 16—Hybrid AP Default value is 2.
LocalForwardVlanList	Client local forwarding vlan list.		VlanRange
PolicyForwarding	Status of policy forwarding.		Boolean: • true—Enabled. • false—Disabled. Default value is false.
PolicyName	Name of policy forwarding.		String, letter, number or '_'. The length is 1 to 31.
AssociationLocation	Client association location.		Enumeration: • 4—On AP • 2—On AC Default value is 2.
AuthenticationLocation	Client authentication location.		Enumeration: • 1—On MAC • 2—On AC • 4—On AP Default value is 2.
QuikAssociation	Status of quik association.		Boolean: • true—Enabled. • false—Disabled. Default value is false.
HotspotPolicyNum	Hotspot policy number		Unsinged integer.Value range:1 to 32.
UserIsolation	Status of user isolation.		Boolean: • true—Enabled. • false—Disabled. Default value is false.
Description	Description of service template.		Text. The length is 1 to 64.
UrlRedirect	Status of url redirect		Boolean: • true • false
Ipv4ArpLearning	Status of ipv4 arp learning		Boolean: • true false
Ipv4dhcpLearning	Status of IPv4 DHCP learning		Boolean: • true • false Default: true.
Ipv6DhcpLearning	Status of IPv6 DHCP learning.		Boolean: • true • false

Column name	Column description	Column type	Data type and restrictions
			Default: false.
Ipv6DhcpVlanList	List of VLANs for IPv6 DHCP learning.		VlanRange. Value range: 1 to 4094. For example,1,3,5-10.
Ipv6NdLearning	Status of IPv6 ND learning.		Boolean: • true • false Default: false.
Ipv6NdVlanList	List of VLANs for IPv6 ND learning.		VlanRange. Value range:1 to 4094. For example,1,3,5-10.
IpVerifySource	Client verification by source IPv4 address.		Boolean: • true—Yes. • false—No. Default: false.
Ipv6VerifySource	Client verification by source IPv6 address.		Boolean: • true—Yes. • false—No. Default: false.
AddressSecurityStatus	Address security status.		Boolean: • true—Yes. • false—No. Default: false.
Failpermit	Fail permit info		Members include: • FailpermitStatus • KeepOnline • UrlUserLogoff
FailpermitStatus	Enabling status of fail permit		Boolean: • true • false Default:false
KeepOnline	Whether existing users stay online		Boolean: • true • false Default:false
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs and have not passed authentication when a fail-permit event occurs		Boolean: • true • false Default:false
FailpermitTempl	Whether the service template is a fail-permit		Boolean:

Column name	Column description	Column type	Data type and restrictions
ate	template.		• true • false Default:false
WPA3Switch	WPA3 switch		Enumeration: 0 : disable 1 : mandatory 2 : optional 3: enterprise Default: 0
BTMStatus	Status of btm.		Boolean: • true • false Default: false.

WLANClient/ServiceBindings

This table contains service template binding information.

XML structure

```
<WLANClient>
  <ServiceBindings>
    <Binding>
      <ApName></ApName>
      <RadioId></RadioId>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
      <NasID></NasID>
      <NasPortID></NasPortID>
      <HideSsid></HideSsid>
    </Binding>
  </ServiceBindings>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.
Vlan	VLAN.		Unsinged integer. Value range: 1 to 4094. .
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.
NasID	Network access server identifier.		Text. Length: 1 to 63 characters.
NasPortID	Network access server port identifier.		Text. Length: 1 to 63 characters.
HideSsid	Hide the identifier of service set in beacon frames		Boolean: • **true**—enabled. • **false**—**disabled.** **Default value is false**.

WLANClient/APGroupServiceBindings

This table contains service template binding information of AP group radios.

XML structure

```
<WLANClient>
  <APGroupServiceBindings>
    <Binding>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
```

```
      <NasID></NasID>
      <NasPortID></NasPortID>
      <HideSsid></HideSsid>
    </Binding>
  </APGroupServiceBindings>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroupServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.
Vlan	VLAN.		Unsinged integer. Value range: 1 to 4094. .
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.
NasID	Network access server identifier.		Text. Length: 1 to 63 characters.
NasPortID	Network access server port identifier.		Text. Length: 1 to 63 characters.
HideSsid	Hide the identifier of		Boolean: • **true**—enabled.

Column name	Column description	Column type	Data type and restrictions
	service set in beacon frames		• **false—disabled.** **Default value is false**.

WLANClient/ServiceSecurity

This table contains security information about a service template.

XML structure

```
<WLANClient>
  <ServiceSecurity>
    <Security>
      <Name></Name>
      <WpaIeSelected></WpaIeSelected>
      <RsnIeSelected></RsnIeSelected>
      <TkipSelected></TkipSelected>
      <CcmpSelected></CcmpSelected>
      <Wep40Selected></Wep40Selected>
      <Wep104Selected></Wep104Selected>
      <Wep128Selected></Wep128Selected>
      <WepMode></WepMode>
      <AkmMode></AkmMode>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
      <PtkLifeTime></PtkLifeTime>
      <GtkUpdateEnable></GtkUpdateEnable>
      <GtkUpdateMode></GtkUpdateMode>
      <GtkUpdateTime></GtkUpdateTime>
      <GtkPacketNumber></GtkPacketNumber>
      <ClientOffUpdateGtk></ClientOffUpdateGtk>
      <TkipCmTime></TkipCmTime>
      <GcmpSelected></GcmpSelected>
    </Security>
  </ServiceSecurity>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceSecurity
Table type	Multi-instance table
Row name	Security

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name.	Index	String. Length: 1 to 63 The string can contain letters, digits, and special characters -, [,], /, and _.	N/A
WpaIeSelected	Whether WPA IE is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
RsnIeSelected	Whether RSN IE is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
TkipSelected	Whether the cipher suite is TKIP.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
CcmpSelected	Whether the cipher suite is CCMP.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep40Selected	Whether the cipher suite is WEP40.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep104Selected	Whether the cipher suite is WEP104.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep128Selected	Whether the cipher suite is WEP128.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
WepMode	WEP mode.		Enumeration.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0: Static. 1: Dynamic. The default value is 0.	
AkmMode	AKM mode.		Enumeration. 1: 802.1X. 2: PSK.	N/A
PskInputMode	PSK input mode.		Enumeration. 1: Pass-phrase. 2: Raw-key.	N/A
PskPassPhraseKey	Pre-shared key.		String.	A PSK is a string of 8-63 alphanumeric characters.
PskRawKey	Raw key.		String	A PSK is a string of 64 hex characters.
PtkLifeTime	PTK lifetime.		Unsigned integer. Unit: Second. Value range: 180 to 604800. The default value is 43200.	N/A
GtkUpdateEnable	Whether GTK update is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
GtkUpdateMode	GTK update mode.		Enumeration. 1: Time-based. 2: Packet quantity-based.	N/A
GtkUpdateTime	GTK update interval.		Unsinged integer. Unit: Second. Value range: 180 to 604800. The default value is 86400.	N/A
GtkPacketNumber	GTK update packet quantity threshold.		Unsigned integer. Value range: 5000 to 4294967295. The default value is 10000000.	N/A
ClientOffUpdateGtk	Whether to update GTK when a client goes offline.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
TkipCmTime	TKIP MIC failure hold time.		Unsigned integer. Unit: Second. Value range: 0 to 3600. The default value is 0 and the AP does not	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			take any countermeasures.	
GcmpSelected	Whether the cipher suite is GCMP		Boolean: • true—Yes. • false—No. Default: false.	

WLANClient/ServiceWepKey

This table contains security wep key information of service template.

XML structure

```
<WLANClient>
  <ServiceWepKey>
    <WepKey>
      <ServiceName></ServiceName>
      <WepKeyId></WepKeyId>
      <CipherSuite></CipherSuite>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
      <IsSelected></IsSelected>
    </WepKey>
  </ServiceWepKey>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceWepKey
Table type	Multi-instance table
Row name	WepKey
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceName	Service template name	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.	N/A
WepKeyId	WEP key ID	Index	Enumeration. Value range: 1 to 4.	N/A
CipherSuite	WEP cipher suite.		Enumeration. 1 : wep40. 5 : wep104. 7 : wep128.	N/A
KeyInputType	Key Type		Enumeration. 1 : PassPhrase. 2 : RawKey	N/A
Wep40PassPhraseKey	Wep40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	Wep40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	Wep104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	Wep104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	Wep128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	Wep128 key in raw		String.	The key is 32 hex characters.
IsSelected	Is this wep key Selected.		Boolean. Ture or 1 : selected. False or 0 : no selected. The default value is false.	N/A

WLANClient/RadioWmm

This table contains radio WMM information.

XML structure

```
<WLANClient>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
```

```
      <RadioId></RadioId>
      <Enable></Enable>
      <SvpMapAc></SvpMapAc>
      <CacPolicy></CacPolicy>
      <CacUserNum></CacUserNum>
      <CacChannelUtilization></CacChannelUtilization>
    </Wmm>
  </RadioWmm>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
Enable	WMM status of radio		Boolean. true or 1 : enabled False or 0 : disabled The default value is true.
SvpMapAc	Access category of SVP		Enumeration 2 : vi 3 : vo
CacPolicy	CAC policy		Enumeration. 1 : channel utilization. 2 : based on client number. The default value is 2.
CacUserNum	CAC client number		Unsigned integer. Value range is 0 to 124.

Column name	Column description	Column type	Data type and restrictions
	threshold		The default value is 20.
CacChannel Utilization	CAC channel utilization threshold.		Unsigned integer. Unit is percent. Value range is 0 to 100. The default value is 65.

WLANClient/ClientEdca

This table contains client EDCA information.

XML structure

```
<WLANClient>
  <ClientEdca>
    <Edca>
      <ApName></ApName>
      <RadioId></RadioId>
      <AccessCategory></AccessCategory>
      <Aifsn></Aifsn>
      <TxOpLimit></TxOpLimit>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <CacEnable></CacEnable>
    </Edca>
  </ClientEdca>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientEdca
Table type	Multi-instance table
Row name	Edca
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.	N/A
RadioId	Radio identifier.	Index	Unsigned char. Value range is 1 to 4	N/A
AccessCategory	Access category.	Index	Enumeration. 0 : be. 1 : bk. 2 : vi 3 : vo	N/A
Aifsn	Arbitration Inter Frame Spacing Number		Unsigned integer. Value range is 2 to 15, and is restricted by chipset.	N/A
TxOpLimit	Transmission oppurtunity limit		Unsigned number. Value range is 0 to 65535. Unit is millisecond.	N/A
Ecwmin	Exponent form of CWmin		Unsigned integer. Value range is 1 to 15.	N/A
Ecwmax	Exponent form of CWmax		Unsigned integer. Value range is 1 to 15.	N/A
CacEnable	Whether CAC is enabled.		Boolean. true or 1 : enabled. False or 0 : disabled. The default value is false.	When ac is vi or vo, Cac can be configured.

WLANClient/MobilityRole

This table contains mobility role information.

XML structure

```
<WLANClient>
  <MobilityRole>
    <Role></Role>
    <MAIPv4Address></MAIPv4Address>
    <MAIPv6Address></MAIPv6Address>
  </MobilityRole>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityRole
Table type	single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Role	Mobility role of the device.		Enumeration. 0 : not configured, default value. 1 : ma 2 : mc
MAIPv4Address	IPv4 address of mobility agent.		Ipv4Address
MAIPv6Address	IPv6 address of mobility agent.		Ipv6Address 若Ipv4和Ipv6同时存在下，则Ipv6有效

WLANClient/MobilityGroups

This table contains mobility group information.

XML structure

```
<WLANClient>
  <MobilityGroups>
    <MobilityGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
      <Enable></Enable>
    </MobilityGroup>
  </MobilityGroups>
```

```
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityGroups
Table type	Multi-instance table
Row name	MobilityGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4 10 : IPv6
SourceIpv4 Address	Source IPv4 address		Ipv4Address
SourceIpv6 Address	Source IPv6 address		Ipv6Address
Enable	Status of mobility group.		Boolean. true or 1 : enabled. False or 0 : disabled. The default value is false.

WLANClient/MobilityIPv4Members

This table contains mobility group IPv4 member information.

XML structure

```
<WLANClient>
  <MobilityIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
```

```
    </Member>
  </MobilityIPv4Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/MobilityIPv6Members

This table contains mobility group IPv6 member information.

XML structure

```
<WLANClient>
  <MobilityIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </MobilityIPv6Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient

Table name	MobilityIPv6Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/MobilityPeerGroups

This table contains mobility peer group information.

XML structure

```
<WLANClient>
  <MobilityPeerGroups>
    <MobilityPeerGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <Enable></Enable>
    </MobilityPeerGroup>
  </MobilityPeerGroups>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityPeerGroups
Table type	Multi-instance table
Row name	MobilityPeerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4 10 : IPv6
Enable	Status of mobility peer group.		Boolean. true or 1: enabled. False or 0 : disabled. The default value is false.

WLANClient/PeerGroupIPv4Members

This table contains mobility peer group IPv4 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
    </Member>
  </PeerGroupIPv4Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/PeerGroupIPv6Members

This table contains mobility peer group IPv6 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </PeerGroupIPv6Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv6Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/Layer2Authentication

This table contains WLAN access security's authenticating configurations in service template.

XML structure

```
<WLANClient>
  <Layer2Authentication>
    <Authentication>
      <ServiceTemplateName></ServiceTemplateName>
      <AuthenticationMode></AuthenticationMode>
      <IntrusionProtectionEnable></IntrusionProtectionEnable>
      <IntrusionProtectionOperation></IntrusionProtectionOperation>
      <TemporaryServiceStopTimer></TemporaryServiceStopTimer>
      <TemporaryBlockTimer></TemporaryBlockTimer>
      <IgnoreAuthorization></IgnoreAuthorization>
      <AuthorizationFailOffline></AuthorizationFailOffline>
      <Dot1xHandshakeEnable></Dot1xHandshakeEnable>
      <Dot1xSecurityHandshakeEnable></Dot1xSecurityHandshakeEnable>
      <Dot1xReauthenticationEnable></Dot1xReauthenticationEnable>
      <Dot1xMandatoryDomain></Dot1xMandatoryDomain>
      <Dot1xMaxUserCount></Dot1xMaxUserCount>
      <MACAuthenticationDomain></MACAuthenticationDomain>
      <MACAuthenticationMaxUserCount></MACAuthenticationMaxUserCount>
      <FailVLAN></FailVLAN>
      <IgnoreAuthentication></IgnoreAuthentication>
    </Authentication>
  </Layer2Authentication>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2Authentication
Table type	Multi-instance table
Row name	Authentication
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.	N/A
AuthenticationMode	Authentication mode of the service template	N/A	Enumeration: 0 : bypass. 1 : mac authentication 2 : mac then dot1x authentication 3 : dot1x authentication 4 : dot1x then mac authentication 5 : oui then dot1x	Default status is bypass.
IntrusionProtectionEnable	Enable Intrusion Protection of the Service Template	N/A	Boolean: • true • false	Default status is false.
IntrusionProtectionOperation	Operation mode when intrusion detected	N/A	Enumeration: 0 : temporary block mac. 1 : emporary stop the service 2 : stop service	N/A
TemporaryServiceStopTimer	Period value of temporarily stop service	N/A	Unsigned integer Value range is 10 to 300.	Default value is 20 s.
TemporaryBlockTimer	Period value of temporarily block user mac	N/A	Unsigned integer Value range is 60 to 300.	Default value is 180 s.
IgnoreAuthorization	Ignore all authorization information set by server.	N/A	Boolean: • true • false	Default status is false.
AuthorizationFailOffline	Users are offline if the authorizing failed.	N/A	Boolean: • true • false	Default status is false
Dot1xHandshakeEnable	Enable handshake feature of dot1x	N/A	Boolean: • true • false	Default status is false
Dot1xSecurityHandshakeEnable	Enable secure handshake feature ofdot1x	N/A	Boolean: • true • false	Default status is false，and handshake feature should be enabled first.
Dot1xReauthenticationEnable	Enable re-authentication feature of dot1x	N/A	Boolean: • true • false	Default status is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1xMandatoryDomain	Mandatory domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	No default value.
Dot1xMaxUserCount	Max dot1x user numbers for a bss bound to this service template	N/A	Unsigned integer Value range is 1 to 4096.	Default value is 4096.
MACAuthenticationDomain	Domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	N/A
MACAuthenticationMaxUserCount	Max MAC authentication user numbers for a bss bound to this service template	N/A	Unsigned integer Value range is 1 to 4096.	N/A
FailVLAN	VLAN used	N/A	Unsigned integer Value range: 1 to 4094.	No default value
IgnoreAuthentication	Whether to ignore authentication failures	N/A	Boolean: • true • false	Default status is false.

WLANClient/APs

This table contains AP configuration information.

XML structure

```
<WLANClient>
  <APs>
    <AP>
      <Name></Name>
      <IdleTime></IdleTime>
      <KeepAliveTime></KeepAliveTime>
      <BandNaviStatus></BandNaviStatus>
      <BProbeReply24G>
        <Status24G></Status24G>
        <Threshold24G></Threshold24G>
      </BProbeReply24G>
      <BProbeReply5G>
        <Status5G></Status5G>
        <Threshold5G></Threshold5G>
```

```
      </BProbeReply5G>
      <Overload5GSsidHide>
        <SsidHideStatus></SsidHideStatus>
        <SessionValue></SessionValue>
        <GapValue></GapValue>
        <ForceLogoff></ForceLogoff>
      </Overload5GSsidHide>
      <RadioLoadBalanceNavStauts></RadioLoadBalanceNavStauts>
      <LoadBalanceIntensity></LoadBalanceIntensity>
    </AP>
  </APs>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APs
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
IdleTime	Station Idle time	N/A	Unsigned integer. Value range: 60s to 86400s. The default value is 3600s.	N/A
KeepAliveTime	Keeping alive time of staion	N/A	Unsigned integer. Value range: 3s to 1800s. The default value is 300s, which means disabled.	N/A
BandNaviStatus	Band navigation status	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).	Effective only when global BandNaviStatus is enabled.

Column name	Column description	Column type	Data type and restrictions	Remarks
BProbeReply24G	2.4G broadcast probe reply	Data structure	Members include: • Status24G • Threshold24G	N/A
Status24G	Broadcast probe reply status	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).	N/A
Threshold24G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A
BProbeReply5G	5G broadcast probe reply	Data structure	Members include: • Status5G • Threshold5G	N/A
Status5G	Broadcast probe reply status	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).	N/A
Threshold5G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A
Overload5GSsidHide	Enabling the overloaded 5 GHz radios to hide the SSID in beacon frames	Data structure	Members include: • SsidHideStatus • SessionValue • GapValue • ForceLogoff	N/A
SsidHideStatus	Whether the overloaded 5 GHz radios are enabled to hide the SSID in beacon frames	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).	N/A
SessionValue	Session threshold	N/A	Unsigned integer. Value range: 1 to 120. The default value is 5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GapValue	Session gap	N/A	Unsigned integer. Value range: 1 to 24. The default value is 4.	N/A
ForceLogoff	Whether half of the clients associated with the target 5 GHz radio are forced to log off	N/A	Boolean: • true—enabled. • false—disabled. Default value is false.	N/A
RadioLoadBalanceNavStauts	Radio load balancing band navigation feature status	N/A	Boolean. • true—enabled. • false—disabled. Default value is true.	N/A
LoadBalanceIntensity	Radio load balancing band navigation intensity	N/A	Enumeration. • 0—weak. • 1—strong. Default value is 0.	N/A

WLANClient/APGroup

This table contains AP group configuration information.

XML structure

```
<WLANClient>
  <APGroup>
    <Group>
      <Name></Name>
      <BandNaviStatus></BandNaviStatus>
      <BProbeReply24G>
        <Status24G></Status24G>
        <Threshold24G></Threshold24G>
      </BProbeReply24G>
      <BProbeReply5G>
        <Status5G></Status5G>
        <Threshold5G></Threshold5G>
      </BProbeReply5G>
      <Overload5GSsidHide>
        <SsidHideStatus></SsidHideStatus>
        <SessionValue></SessionValue>
        <GapValue></GapValue>
        <ForceLogoff></ForceLogoff>
```

```
      </Overload5GSsidHide>
      <NasID></NasID>
      <RadioLoadBalanceNavStauts></RadioLoadBalanceNavStauts>
      <LoadBalanceIntensity></LoadBalanceIntensity>
    </Group>
  </APGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
BandNaviStatus	Band navigation status	N/A	Boolean. • false—disabled • true—enabled (default)	Effective only when global BandNaviStatus is enabled.
BProbeReply24G	2.4G broadcast probe reply	Data structure	Members include: • Status24G • Threshold24G	N/A
Status24G	Broadcast probe reply status	N/A	Boolean. • false—disabled • true—enabled (default)	N/A
Threshold24G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BProbeReply5G	5G broadcast probe reply	Data structure	Members include: • Status5G • Threshold5G	N/A
Status5G	Broadcast probe reply status	N/A	Boolean. • false—disabled • true—enabled (default)	N/A
Threshold5G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A
Overload5GSsidHide	Enabling the overloaded 5 GHz radios to hide the SSID in beacon frames	Data structure	Members include: • SsidHideStatus • SessionValue • GapValue • ForceLogoff	N/A
SsidHideStatus	Whether overloaded 5 GHz radios are enabled to hide the SSID in beacon frames	N/A	Boolean. • false—disabled • true—enabled Default value is true.	N/A
SessionValue	Session threshold	N/A	Unsigned integer. Value range: 1 to 120. The default value is 5.	N/A
GapValue	Session gap	N/A	Unsigned integer. Value range: 1 to 24. The default value is 4.	N/A
ForceLogoff	Whether half of the clients associated with the target 5 GHz radio are forced to log off	N/A	Boolean: • true—enabled. • false—disabled. Default value is false.	N/A
NasID	NAS-ID of the AP group	N/A	String, Length: 1 to 63 cahracters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioLoadBalanceNavStauts	Radio load balancing band navigation feature status	N/A	Boolean. • true—Enabled. • false—Disabled.	N/A
LoadBalanceIntensity	Radio load balancing band navigation intensity	N/A	Enumeration. • 0—Weak. • 1—Strong. Default value is 0.	N/A

WLANClient/BandNavigation

This table contains band navigation information.

XML structure

```
<WLANClient>
  <BandNavigation>
    <GlobalStatus></GlobalStatus>
    <AgingTime></AgingTime>
    <DenialCnt></DenialCnt>
    <Session></Session>
    <Gap></Gap>
    <Threshold></Threshold>
  </BandNavigation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	BandNavigation
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GlobalStatus	Global status of band navigation	N/A	Boolean. • false—disabled(default). • true—enabled.
AgingTime	Client information aging time	N/A	Unsigned integer. Unit is second. Value range: 10 to 600. The default value is 180.
DenialCnt	Maximum number of denials for 5 GHz association requests	N/A	Unsigned integer. Value range: 1 to 10.The default value is 0.
Session	Client number threshold for the 5 GHz radio	N/A	Unsigned integer. Value range: 2 to 255.
Gap	Threshold for the session gap between the current 5 GHz radio and the radio that has the fewest clients	N/A	Unsigned integer. Value range: 1 to 8. The default value is 4.
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100.The default value is 15.

WLANClient/LoadBalance

This table contains load balancing information.

XML structure

```
<WLANClient>
  <LoadBalance>
    <Status></Status>
    <Mode></Mode>
    <Bandwidth></Bandwidth>
    <BandwidthGap></BandwidthGap>
    <Session></Session>
    <SessionGap></SessionGap>
    <Traffic></Traffic>
    <TrafficGap></TrafficGap>
    <DenialNum></DenialNum>
    <Threshold></Threshold>
  </LoadBalance>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WLAN load balancing status	N/A	Boolean. • false—disabled(default). • true—enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration: • **1**—session-mode(default). • **2**—traffic-mode. • **3**—bandwidth-mode.	N/A
Session	Session threshold in number of clients	N/A	Unsigned integer. Value range:1 to 120. The default value is 20.	This column can be configured only when the Mode is session-mode (1).To delete value just input Mode label.
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range:1 to 12. The default value is 4.	This column cannot be configured if the Session is not configured. To delete value just input Mode label.
Bandwidth	Bandwidth threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 500. The default value is 40.	This column can be configured only when the Mode is bandwidth-mode (3). To delete value just input Mode label.
Bandwidth Gap	Bandwidth gap threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 200. The default value is 20.	This column cannot be configured if the Bandwidth is not configured. To delete value just input Mode label.
Traffic	Traffic threshold	N/A	Unsigned integer. Unit is percent. Value range:1 to 80. The default value is 30.	This column can be configured only when the Mode is traffic -mode (2). To delete value just input Mode label.

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficGap	Traffic gap threshold	N/A	Unsigned integer. Unit is percent. Value range:10 to 40. The default value is 20.	This column cannot be configured if theTraffic is not configured. To delete value just input Mode label.
DenialNum	Maximum number of denials for association requests	N/A	Unsigned integer. Value range:2 to 10.The default value is 10.	N/A
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range:5 to 100.The default value is 25.	N/A

WLANClient/LoadBalanceGroup

This table contains load balancing group information.

XML structure

```
<WLANClient>
  <LoadBalanceGroup>
    <Group>
      <GroupId></GroupId>
      <GroupDescription></GroupDescription>
    </Group>
  </LoadBalanceGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalanceGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.
GroupDescription	Description for the load balancing group	N/A	String, case-sensitive. Length: 1 to 64 characters.

WLANClient/RadioInLBGroup

This table contains radio information of radios in the load balancing group.

XML structure

```
<WLANClient>
  <RadioInLBGroup>
    <Radio>
      <GroupId></GroupId>
      <ApName></ApName>
      <RadioId></RadioId>
    </Radio>
  </RadioInLBGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioInLBGroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.
RadioId	Radio identifier	Index	Unsigned integer. Value range: 1 to 31

WLANClient/WhiteList

This table contains information of white list.

XML structure

```
<WLANClient>
  <WhiteList>
    <MacList>
      <MacAddress></MacAddress>
    </MacList>
  </WhiteList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WhiteList
Table type	Multi-instance table
Row name	MacList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	Index	• MAC address.	Example: 00-0c-af-e3-5d-c0.

WLANClient/StaticBlackList

This table contains information of static black list.

XML structure

```
<WLANClient>
  <StaticBlackList>
    <MacList>
      <MacAddress></MacAddress>
    </MacList>
  </StaticBlackList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StaticBlackList
Table type	Multi-instance table
Row name	MacList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	Index	• MAC address.	Example: 00-0c-af-e3-5d-c0.

WLANClient/DynamicBlackListCfg

This table contains configuration of dynamic black list.

XML structure

```
<WLANClient>
  <DynamicBlackListCfg>
    <LifeTime></LifeTime>
  </DynamicBlackListCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	DynamicBlackListCfg

Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LifeTime	Global life time of dynamic black list.		Unsinged integer. Value range:1 to 3600.Unit is second.

WLANClient/pmfConfiguration

This table contains Protected management frames information.

XML structure

```
<WLANClient>
  <PmfConfiguration>
    <Information>
      <ServiceTemplateName></ServiceTemplateName>
      <KeyDerivation></KeyDerivation>
      <PmfSwitch></PmfSwitch>
      <ComeBackTime></ComeBackTime>
      <RetryCnt></RetryCnt>
      <RetryTime></RetryTime>
    </Information>
  </PmfConfiguration >
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PmfConfiguration
Table type	Multi-instance table
Row name	Information
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-',lowercase.The length is 1 to 63.
KeyDerivation	Key derivation		Enumeration: 1 : SHA1 2 : SHA256 3: SHA1 and SHA256 The default value is 1.
PmfSwitch	Pmf function switch		Enumeration: 0 : disable 1 : optional 2 : mandatory The default value is 0
ComeBackTime	Association comeback interval		Unsinged int.The value range is 1 to 20. Unit is second. The default value is 1 (s)
RetryCnt	Maximum number of SA query request retransmission		Unsinged int.The value range is 1 to 16. The default value is 4.
RetryTime	Retry interval for SA query response		Unsinged int.The value range is 100 to 500. Unit is millisecond. The default value is 200 (ms) .

WLANClient/FtConfiguration

This table contains FT configuration information.

XML structure

```
<WLANClient>
  <FtConfiguration>
    <Configuration>
      <ServiceTemplateName></ServiceTemplateName>
      <Enable></Enable>
      <Method></Method>
      <ReassocTime></ReassocTime>
    </Configuration>
  </FtConfiguration>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	FtConfiguration
Table type	Multi-instance table
Row name	Configuration
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-',lowercase.The length is 1 to 63.
Enable	Status of fast BSS transition protocol.		Boolean: • **true**—enabled. • **false**—**disabled.** The default value is false.
Method	Fast BSS transition method.		Unsinged char. 0:over-the-air; 1:over-the-ds. The default value is 0.
ReassocTime	Reassociation timeout.		Unsinged int. The value range is 1 to 100. The default value is 20.Unit is second.

WLANClient/Layer2AccessControl

This table contains Layer 2 access control information.

XML structure

```
<WLANClient>
  <Layer2AccessControl>
    <AccessControl>
      <ServiceTemplateName></ServiceTemplateName>
      <AclNum></AclNum>
      <PermitRemoteAP></PermitRemoteAP>
    </AccessControl>
  </Layer2AccessControl>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2AccessControl
Table type	Multi-instance table
Row name	AccessControl
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name	Index	String, lowercase. Length: 1 to 63 characters.
AclNum	ACL number	N/A	Unsigned integer Value range: 4000 to 4999.
PermitRemoteAP	Allow permit statements to take effect on remote APs	N/A	Boolean: • true—enabled. • false—disabled. The default value is false.

WLANClient/Wrlb5GOverLoad

This table contains wrlb 5g overload information.

XML structure

```
<WLANClient>
  <Wrlb5GOverLoad>
    <Wrlb5GOverLoadStatus></Wrlb5GOverLoadStatus>
    <SessionValue></SessionValue>
    <GapsValue></GapsValue>
  </Wrlb5GOverLoad>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient

Table name	Wrlb5GOverLoad
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Wrlb5GOverLoadStatus	Status of wrlb 5g overload.		Boolean: • true—enabled. • false—disabled. The default value is true.
SessionValue	Client number threshold between the 5 GHz radios.		Unsigned integer. Value range: 1 to 120. The default value is 40.
GapsValue	Threshold for the session gap between the current 5 GHz radio and other 5 GHz radio that has the fewest clients.		Unsigned integer. Value range: 1 to 24. The default value is 10.

WLANClient/WciaAp

This table contains wlan client inspect analysis configuration information of AP

XML structure

```
<WLANClient>
  <WciaAp>
    <AP>
      <Name></Name>
      <InspectSwitch></InspectSwitch>
    </AP>
  </WciaAp>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WciaAp
Table type	Multi-instance table

Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
InspectSwitch	Set wlan client inspect analysis switch	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).	N/A

WLANClient/WciaApGroup

This table contains wlan client inspect analysis configuration of AP groups

XML structure

```
<WLANClient>
  <WciaApGroup>
    <Group>
      <Name></Name>
      <InspectSwitch></InspectSwitch>
    </Group>
  </WciaApGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WciaApGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
InspectSwitch	Set wlan client inspect analysis switch	N/A	Enumeration. • 0—disabled. • 1—enabled.	N/A

WLANClient/VipClientGroup

This table contains VIP client group information.

XML structure

```
<WLANClient>
  <VipClientGroup>
    <MacList>
      <MacAddress></MacAddress>
      <Level></Level>
    </MacList>
  </VipClientGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientGroup
Table type	Multi-instance table
Row name	MacList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
MacAddress	Client MAC address.	Index	MAC address.
Level	VIP client level.	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 1 to 2 Default value is 1

WLANClient/VipClientGroupCfg

This table contains VIP client group configuration information.

XML structure

```
<WLANClient>
  <VipClientGroupCfg>
    <ReportInterval></ReportInterval>
    <InBoundInfo>
      <InBoundMode></InBoundMode>
      <InBoundMin></InBoundMin>
      <InBoundMax></InBoundMax>
      <InBoundCir></InBoundCir>
    </InBoundInfo>
    <OutBoundInfo>
      <OutBoundMode></OutBoundMode>
      <OutBoundMin></OutBoundMin>
      <OutBoundMax></OutBoundMax>
      <OutBoundCir></OutBoundCir>
    </OutBoundInfo>
  </VipClientGroupCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientGroupCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ReportInterval	Interval at which AP report client information to the AC.	N/A	Unsigned integer. Value range: 10 to 120.
InBoundInfo	Inbound QoS information for non-VIP clients.	Data structure	Members include: • InBoundMode. • InBoundMin. • InBoundMax. • InBoundCir.
InBoundMode	Rate limit mode for inbound traffic of non-VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
InBoundMin	Minimum limited rate for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundMax	Maximum limited rate for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundCir	CIR for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundInfo	Outbound QoS information for non-VIP clients.	Data structure	Members include: • OutBoundMode. • OutBoundMin. • OutBoundMax. • OutBoundCir.
OutBoundMode	Rate limit mode for outbound traffic of non-VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
OutBoundMin	Minimum limited rate for for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundMax	Maximum limited rate for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundCir	CIR for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.

WLANClient/VipClientRateLimitCfg

This table contains information about VIP client rate limit configurations.

XML structure

```
<WLANClient>
```

```
  <VipClientRateLimitCfg>
    <Level></Level>
    <InBoundInfo>
      <InBoundMode></InBoundMode>
      <InBoundMin></InBoundMin>
      <InBoundMax></InBoundMax>
      <InBoundCir></InBoundCir>
    </InBoundInfo>
    <OutBoundInfo>
      <OutBoundMode></OutBoundMode>
      <OutBoundMin></OutBoundMin>
      <OutBoundMax></OutBoundMax>
      <OutBoundCir></OutBoundCir>
    </OutBoundInfo>
  </VipClientRateLimitCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientRateLimitCfg
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Level	VIP client level.	Index	Unsigned integer. Value range: 2.
InBoundInfo	Inbound QoS information for VIP clients.	Data structure	Members include: • InBoundMode. • InBoundMin. • InBoundMax. • InBoundCir.
InBoundMode	Rate limit mode for inbound traffic of VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
InBoundMin	Minimum limited rate for inbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundMax	Maximum limited rate for	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	inbound traffic of VIP clients.		Value range: 16 to 1700000.
InBoundCir	CIR for inbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutboundInfo	Outbound QoS information for VIP clients.	Data structure	Members include: • OutBoundMode. • OutBoundMin. • OutBoundMax. • OutBoundCir.
OutBoundMode	Rate limit mode for outbound traffic of VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
OutBoundMin	Minimum limited rate for for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundMax	Maximum limited rate for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundCir	CIR for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.

WLANClient/PermitSsid

This table contains permit ssid configuration information for a user profile.

XML structure

```
<WLANClient>
  <PermitSsid>
    <SSIDList>
      <UserProfileName></UserProfileName>
      <SSID></SSID>
    </SSIDList>
  </PermitSsid>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PermitSsid
Table type	Multi-instance table
Row name	SSIDList

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.
SSID	Identifier of service set.	Index	String, the length is 1 to 32.

WLANClient/RoamingCenter

This table contains client roaming center information.

XML structure

```
<WLANClient>
  <RoamingCenter>
    <Ipv4Address></Ipv4Address>
    <Status></Status>
    <Port></Port>
    <ResponseTimeout></ResponseTimeout>
    <Retry></Retry>
    <Ipv4CacheAgingTime></Ipv4CacheAgingTime>
    <Ipv6CacheAgingTime></Ipv6CacheAgingTime>
  </RoamingCenter>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamingCenter
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address for communication with the WLAN roaming center.		IPv4: String, dotted decimal notation.
Status	Whether the client roaming center feature is enabled.		Boolean: • true • false Default: false.
Port	Port for communication with the WLAN roaming center.		Unsigned integer. Value range: 1 to 65534.
ResponseTimeout	Packets response timeout.		Unsigned integer. Value range:1 to 10, in seconds. Default: 3.
Retry	Maximum number of packet retransmission attempts.		Unsigned integer. Value range:1 to 10. Default: 5.
Ipv4CacheAgingTime	Aging time of IPv4 address security entries.		Unsigned integer. Value range:600 to 86400. Default: 14400.
Ipv6CacheAgingTime	Aging time of IPv6 address security entries.		Unsigned integer. Value range:600 to 1296000. Default: 604800.

WLANClient/RadioWnm

This table contains radio WNM information.

XML structure

```
<WLANClient>
  <RadioWnm>
    <Wnm>
      <ApName></ApName>
      <RadioId></RadioId>
      <AntiSticky>
        <Status></Status>
        <Rssi></Rssi>
        <Interval></Interval>
        <Forced></Forced>
      </AntiSticky>
    </Wnm>
  </RadioWnm>
</WLANClient>
```

Table description

Feature name	WLANClient
Table name	RadioWnm
Table type	Multi-instance table
Row name	Wnm
Restrictions	None
Support for row creation and deletion	No
Feature name	WLANClient

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name.	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4.
AntiSticky	weak-signal client co-roaming information.	Data structure	Members include: Status. Rssi. Interval. Forced.
Status	Status of weak-signal client co-roaming.		Enumeration. • 0—disabled. • 1—enabled. • 2—inherit(default).
Rssi	RSSI threshold for weak-signal client co-roaming.		Unsigned integer. Value range: 5 to 100. Default value is 20.
Interval	Interval of weak-signal detection for client co-roaming.		Unsigned integer. Value range: 1 to 10. Default value is 3.
Forced	Status of weak-signal client co-roaming for not support 11v.		Boolean: • true • false Default: false.

Contents

WLANClient 1

WLANClient/ClientOption 1
XML structure 1
Table description 1
Columns 1
WLANClient/APAssociations 2
XML structure 2
Table description 2
Columns 2
WLANClient/ServiceTemplates 3
XML structure 3
Table description 4
Columns 4
WLANClient/ServiceBindings 7
XML structure 7
Table description 7
Columns 8
WLANClient/APGroupServiceBindings 8
XML structure 8
Table description 9
Columns 9
WLANClient/ServiceConnections 10
XML structure 10
Table description 10
Columns 10
WLANClient/ServiceHistoryStatisticDay 10
XML structure 11
Table description 11
Columns 11
WLANClient/ServiceSecurity 12
XML structure 12
Table description 12
Columns 13
WLANClient/ServiceWepKey 15
XML structure 15
Table description 15
Columns 15
WLANClient/Stations 16
XML structure 16
Table description 17
Columns 17
WLANClient/Station11nInformation 19
XML structure 19
Table description 19
Columns 19
WLANClient/StationSecurityInformation 20
XML structure 20
Table description 20
Columns 20
WLANClient/StationRoamInformation 21
XML structure 21
Table description 21
Columns 21
WLANClient/StationStatistics 22
XML structure 22
Table description 22
Columns 23

WLANClient/RadioWmm 24
XML structure 24
Table description 24
Columns 25
WLANClient/ClientEdca 25
XML structure 25
Table description 26
Columns 26
WLANClient/StationWmmInformation 27
XML structure 27
Table description 27
Columns 27
WLANClient/MobilityRole 28
XML structure 28
Table description 28
Columns 28
WLANClient/MobilityGroups 29
XML structure 29
Table description 29
Columns 29
WLANClient/MobilityIPv4Members 30
XML structure 30
Table description 30
Columns 30
WLANClient/MobilityIPv6Members 31
XML structure 31
Table description 31
Columns 31
WLANClient/RoamInStation 32
XML structure 32
Table description 32
Columns 32
WLANClient/RoamOutStation 33
XML structure 33
Table description 33
Columns 33
WLANClient/StationRoamTrack 34
XML structure 34
Table description 34
Columns 34
WLANClient/MobilityPeerGroups 35
XML structure 35
Table description 35
Columns 35
WLANClient/PeerGroupIPv4Members 36
XML structure 36
Table description 36
Columns 36
WLANClient/PeerGroupIPv6Members 36
XML structure 36
Table description 37
Columns 37
WLANClient/Layer2Authentication 37
XML structure 37
Table description 38
Columns 38
WLANClient/StationLayer2Authentication 40
XML structure 40
Table description 40
Columns 40
WLANClient/APs 41
XML structure 41

Table description 42
Columns 42
WLANClient/APGroup 44
XML structure 44
Table description 44
Columns 45
WLANClient/BandNavigation 46
XML structure 47
Table description 47
Columns 47
WLANClient/LoadBalance 48
XML structure 48
Table description 48
Columns 48
WLANClient/LoadBalanceGroup 49
XML structure 49
Table description 49
Columns 50
WLANClient/RadioInLBGroup 50
XML structure 50
Table description 50
Columns 51
WLANClient/APStations 51
XML structure 51
Table description 51
Columns 51
WLANClient/APStationsNum 52
XML structure 52
Table description 52
Columns 52
WLANClient/WhiteList 53
XML structure 53
Table description 53
Columns 53
WLANClient/StaticBlackList 53
XML structure 53
Table description 54
Columns 54
WLANClient/DynamicBlackListCfg 54
XML structure 54
Table description 54
Columns 55
WLANClient/pmfConfiguration 55
XML structure 55
Table description 55
Columns 55
WLANClient/FtConfiguration 56
XML structure 56
Table description 56
Columns 57
WLANClient/Layer2AccessControl 57
XML structure 57
Table description 57
Columns 58
WLANClient/Wrlb5GOverLoad 1
XML structure 1
Table description 1
Columns 1
WLANClient/WciaAp 1
XML structure 2
Table description 2
Columns 2

WLANClient/WciaApGroup ····· 2
XML structure ····· 2
Table description ····· 3
Columns ····· 3
WLANClient/VipClientGroup ····· 3
XML structure ····· 3
Table description ····· 4
Columns ····· 4
WLANClient/VipClientGroupCfg ····· 4
XML structure ····· 4
Table description ····· 5
Columns ····· 5
WLANClient/VipClientRateLimitCfg ····· 6
XML structure ····· 6
Table description ····· 6
Columns ····· 6
WLANClient/OneClientHistoryRecord ····· 7
XML structure ····· 7
Table description ····· 8
Columns ····· 8
WLANClient/ClientOfflineReasonHelpInfo ····· 8
XML structure ····· 9
Table description ····· 9
Columns ····· 9
WLANClient/PermitSsid ····· 9
XML structure ····· 9
Table description ····· 10
Columns ····· 10
WLANClient/RoamingCenter ····· 10
XML structure ····· 10
Table description ····· 10
Columns ····· 11
WLANClient/RadioWnm ····· 11
XML structure ····· 11
Table description ····· 12
Columns ····· 12

WLANClient

WLANClient/ClientOption

This table contains client optimization information.

XML structure

```
<WLANClient>
  <ClientOption>
    <Option>
      <ApName></ApName>
      <RadioId></RadioId>
      <Reject>
        <Status></Status>
        <Rssi></Rssi>
      </Reject>
    </Option>
  </ClientOption>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientOption
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier	Index	Unsigned char. Value range: 1 to 4
Reject	weak-signal client rejection information	Data structure	Members include: Status Rssi

Column name	Column description	Column type	Data type and restrictions
Status	Status of weak-signal client access rejection		Enumeration: 0: Disable. 1: Enable 2: Inherit.
Rssi	RSSI threshold for weak-signal client access rejection		Unsigned integer. Value range: 5 to 100.

WLANClient/APAssociations

This table contains AP association information.

XML structure

```
<WLANClient>
  <APAssociations>
    <Association>
      <Name></Name>
      <Total></Total>
      <Reassociation></Reassociation>
      <Failure></Failure>
      <Rejection></Rejection>
      <Exception></Exception>
      <Current></Current>
    </Association>
  </APAssociations>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APAssociations
Table type	Multi-instance table
Row name	Association
Restrictions	None

Columns

Column name	Column description	Colum n type	Data type and restrictions
Name	AP name	Index	String, lowercase.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 63 characters.
Total	Total associations		Unsigned integer
Reassociation	Reassociations		Unsigned integer
Failure	Association failures		Unsigned integer
Rejection	Rejections of association		Unsigned integer
Exception	Exceptional associations		Unsigned integer
Current	Current associations		Unsigned integer

WLANClient/ServiceTemplates

This table contains service template information.

XML structure

```
<WLANClient>
  <ServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <MaxClientCnt></MaxClientCnt>
      <Enable></Enable>
      <ForwardingLocation></ForwardingLocation>
      <LocalForwardVlanList></LocalForwardVlanList>
      <PolicyForwarding></PolicyForwarding>
      <PolicyName></PolicyName>
      <AssociationLocation></AssociationLocation>
      <AuthenticationLocation></AuthenticationLocation>
      <QuikAssociation></QuikAssociation>
      <HotspotPolicyNum></HotspotPolicyNum>
      <UserIsolation></UserIsolation>
      <Description></Description>
      <UrlRedirect></UrlRedirect>
      <Ipv4ArpLearning></Ipv4ArpLearning>
      <Ipv4DhcpLearning></ Ipv4DhcpLearning >
      <Ipv6DhcpLearning></Ipv6DhcpLearning>
      <Ipv6DhcpVlanList></Ipv6DhcpVlanList>
```

```
    <Ipv6NdLearning></Ipv6NdLearning>
    <Ipv6NdVlanList></Ipv6NdVlanList>
    <IpVerifySource></IpVerifySource>
    <Ipv6VerifySource></Ip6VerifySource>
    <AddressSecurityStatus></AddressSecurityStatus>
    <Failpermit>
      <FailpermitStatus></FailpermitStatus>
      <KeepOnline></KeepOnline>
      <UrlUserLogoff></UrlUserLogoff>
    <Failpermit>
    <FailpermitTemplate></FailpermitTemplate>
    <WPA3Switch></WPA3Switch>
    <BTMStatus></BTMStatus>    </Template>
  </ServiceTemplates>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name	Index	String, letter, number or '-'，'[','],'/','-'. The length is 1 to 63.
SSID	Identifier of service set.		String, the length is 1 to 32.
DefaultVlan	Default VLAN		Unsinged integer. Value range: 1 to 4094. Default: 1.
HideSsid	Hiding status of SSID		Boolean: • true—enabled. • false—disabled, default value. Default: false.
MaxClientCnt	Maximum clients of the BSS.		Unsinged integer. Value range: 1 to 2007. Default: 0. Value 0 indicates that the number is not restricted.
Enable	Status of service template.		Boolean: • true—enabled.

Column name	Column description	Column type	Data type and restrictions
			• false—disabled, default value.
ForwardingLocation	Client forwarding location.		Enumeration:. • 4—On AP • 2—On AC • 8—Hybrid AC • 16—Hybrid AP Default: 2.
LocalForwardVlanList	Client local forwarding VLAN list.		VlanRange
PolicyForwarding	Status of policy forwarding.		Boolean: • true—Enabled. • false—Disabled. Default: false.
PolicyName	Name of policy forwarding.		String, letter, number or '_'. The length is 1 to 31.
Association Location	Client association location.		Enumeration: • 4—On AP • 2—On AC Default: 2.
AuthenticationLocation	Client authentication location.		Enumeration: • 1—On MAC • 2—On AC • 4—On AP Default: 2.
QuikAssociation	Status of quick association.		Boolean: • true—Enabled. • false—Disabled. Default: false.
HotspotPolicyNum	Hotspot policy number.		Unsinged integer.Value range:1 to 32.
UserIsolation	Status of user isolation.		Boolean: • true—Enabled. • false—Disabled. Default: false.
Description	Description of service template.		Text. The length is 1 to 64.
UrlRedirect	Status of URL redirection		Boolean: • true • false
Ipv4ArpLearning	Status of IPv4 ARP learning		Boolean: • true false
Ipv4dhcpLearning	Status of IPv4 DHCP learning.		Boolean: • true false

Column name	Column description	Column type	Data type and restrictions
Ipv6DhcpLearning	Status of IPv6 DHCP learning.		Boolean: • true false
Ipv6DhcpVlanList	List of VLANs for IPv6 DHCP learning.		VlanRange. Value range: 1 to 4094. For example, 1,3,5-10.
Ipv6NdLearning	Status of IPv6 ND learning.		Boolean: • true false
Ipv6NdVlanList	List of VLANs for IPv6 ND learning.		VlanRange, Value range: 1 to 4094. For example, 1,3,5-10.
IpVerifySource	Client verification by source IPv4 address.		Boolean: • true—Yes. false—No.
Ipv6VerifySource	Client verification by source IPv6 address.		Boolean: • true—Yes. false—No.
AddressSecurityStatus	Address security status.		Boolean: • true—Yes. false—No.
Failpermit	Fail permit info		Members include: • FailpermitStatus • KeepOnline • UrlUserLogoff
FailpermitStatus	Enabling status of fail permit		Boolean: • true • false
KeepOnline	Whether existing users stay online		Boolean: • true • false
UrlUserLogoff	Whether to log off users that have been assigned authorization URLs and have not passed authentication when a fail-permit event occurs		Boolean: • true • false
FailpermitTemplate	Whether the service template is a fail-permit template.		Boolean: • true • false

Column name	Column description	Column type	Data type and restrictions
WPA3Switch	WPA3 switch		Enumeration: 0 : disable 1 : mandatory 2 : optional 3: enterprise
BTMStatus	Status of btm.		Boolean: • true • false

WLANClient/ServiceBindings

This table contains service template binding information.

XML structure

```
<WLANClient>
  <ServiceBindings>
    <Binding>
      <ApName></ApName>
      <RadioId></RadioId>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
      <NasID></NasID>
      <NasPortID></NasPortID>
      <HideSsid></HideSsid>
      <RadioMode></RadioMode>
    </Binding>
  </ServiceBindings>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.
Vlan	VLAN.		Unsinged integer. Value range: 1 to 4094.
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.
NasID	Network access server identifier.		Text. Length: 1 to 63 characters.
NasPortID	Network access server port identifier.		Text. Length: 1 to 63 characters.
HideSsid	Hide the identifier of service set in beacon frames		Boolean: • **true**—enabled. • **false**—**disabled.** **Default value is false**.
RadioMode	Radio mode.		Unsinged integer.

WLANClient/APGroupServiceBindings

This table contains service template binding information of AP group radios.

XML structure

```
<WLANClient>
  <APGroupServiceBindings>
    <Binding>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
      <NasID></NasID>
      <NasPortID></NasPortID>
      <HideSsid></HideSsid>
```

```
    <RadioMode></RadioMode>    </Binding>
  </APGroupServiceBindings>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroupServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.
Vlan	VLAN.		Unsinged integer. Value range: 1 to 4094. .
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.
NasID	Network access server identifier.		Text. Length: 1 to 63 characters.
NasPortID	Network access server port identifier.		Text. Length: 1 to 63 characters.
HideSsid	Hide the identifier of service set in beacon frames		Boolean: • **true**—enabled. • **false—disabled.** **Default value is false**.
RadioMode	Radio mode.		Unsinged integer.

WLANClient/ServiceConnections

This table contains service template connection information.

XML structure

```
<WLANClient>
  <ServiceConnections>
    <Connection>
      <Name></Name>
      <ApName></ApName>
      <RadioId></RadioId>
    </Connection>
  </ServiceConnections>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceConnections
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63.
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4

WLANClient/ServiceHistoryStatisticDay

This table contains service template information of day statistics.

XML structure

```
<WLANClient>
  <ServiceHistoryStatisticDay>
    <ServiceHistoryStatistic>
      <STName></STName>
      <RecordTime></RecordTime>
      <SSID></SSID>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
    <ServiceHistoryStatistic>
  </ServiceHistoryStatisticDay>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceHistoryStatisticDay
Table type	Multi-instance table
Row name	ServiceHistoryStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
STName	Service template name.	Index	String, letter, number or '-', '[','],'/','-'. The length is 1 to 63..	N/A
RecordTime	The date of the record flow.	Index	Format: YYYY-MM-DDTHH:MM:SS.	N/A
SSID	Identifier of service set.	N/A	String, the length is 1 to 32.	N/A
InOctets	Enter the bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to 2^{64} - 1.	N/A

WLANClient/ServiceSecurity

This table contains security information about a service template.

XML structure

```
<WLANClient>
  <ServiceSecurity>
    <Security>
      <Name></Name>
      <WpaIeSelected></WpaIeSelected>
      <RsnIeSelected></RsnIeSelected>
      <TkipSelected></TkipSelected>
      <CcmpSelected></CcmpSelected>
      <Wep40Selected></Wep40Selected>
      <Wep104Selected></Wep104Selected>
      <Wep128Selected></Wep128Selected>
      <WepMode></WepMode>
      <AkmMode></AkmMode>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
      <PtkLifeTime></PtkLifeTime>
      <GtkUpdateEnable></GtkUpdateEnable>
      <GtkUpdateMode></GtkUpdateMode>
      <GtkUpdateTime></GtkUpdateTime>
      <GtkPacketNumber></GtkPacketNumber>
      <ClientOffUpdateGtk></ClientOffUpdateGtk>
      <TkipCmTime></TkipCmTime>
      <PskDigest></PskDigest>
      <GcmpSelected></GcmpSelected>
    </Security>
  </ServiceSecurity>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceSecurity
Table type	Multi-instance table
Row name	Security
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name.	Index	String. Length: 1 to 63 The string can contain letters, digits, and special characters -, [,], /, and _.	N/A
WpaIeSelected	Whether WPA IE is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
RsnIeSelected	Whether RSN IE is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
TkipSelected	Whether the cipher suite is TKIP.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
CcmpSelected	Whether the cipher suite is CCMP.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep40Selected	Whether the cipher suite is WEP40.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep104Selected	Whether the cipher suite is WEP104.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
Wep128Selected	Whether the cipher suite is WEP128.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
WepMode	WEP mode.		Enumeration. 0: Static. 1: Dynamic. The default value is 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AkmMode	AKM mode.		Enumeration. 1: 802.1X. 2: PSK.	N/A
PskInputMode	PSK input mode.		Enumeration. 1: Pass-phrase. 2: Raw-key.	N/A
PskPassPhraseKey	Pre-shared key.		String.	A PSK is a string of 8-63 alphanumeric characters.
PskRawKey	Raw key.		String	A PSK is a string of 64 hex characters.
PtkLifeTime	PTK lifetime.		Unsigned integer. Unit: Second. Value range: 180 to 604800. The default value is 43200.	N/A
GtkUpdateEnable	Whether GTK update is enabled.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
GtkUpdateMode	GTK update mode.		Enumeration. 1: Time-based. 2: Packet quantity-based.	N/A
GtkUpdateTime	GTK update interval.		Unsinged integer. Unit: Second. Value range: 180 to 604800. The default value is 86400.	N/A
GtkPacketNumber	GTK update packet quantity threshold.		Unsigned integer. Value range: 5000 to 4294967295. The default value is 10000000.	N/A
ClientOffUpdateGtk	Whether to update GTK when a client goes offline.		Boolean: • true—Yes. • false—No. The default value is false.	N/A
TkipCmTime	TKIP MIC failure hold time.		Unsigned integer. Unit: Second. Value range: 0 to 3600. The default value is 0 and the AP does not take any countermeasures.	N/A
PskDigest	Pre-shared key digest.		String.	A PSK digest is a string of 32 alphanumeric characters.

Column name	Column description	Column type	Data type and restrictions	Remarks
GcmpSelected	Whether the cipher suite is GCMP		Boolean: • true—Yes. • false—No.	

WLANClient/ServiceWepKey

This table contains security wep key information of service template.

XML structure

```
<WLANClient>
  <ServiceWepKey>
    <WepKey>
      <ServiceName></ServiceName>
      <WepKeyId></WepKeyId>
      <CipherSuite></CipherSuite>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
      <IsSelected></IsSelected>
    </WepKey>
  </ServiceWepKey>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceWepKey
Table type	Multi-instance table
Row name	WepKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceNam	Service	Index	String, letter, number or	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
e	template name		'-', '[','],'/','-'. The length is 1 to 63.	
WepKeyId	WEP key ID	Index	Enumeration. Value range: 1 to 4.	N/A
CipherSuite	WEP cipher suite.		Enumeration. 1 : wep40. 5 : wep104. 7 : wep128.	N/A
KeyInputType	Key Type		Enumeration. 1 : PassPhrase. 2 : RawKey	N/A
Wep40PassPhraseKey	Wep40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	Wep40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	Wep104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	Wep104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	Wep128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	Wep128 key in raw		String.	The key is 32 hex characters.
IsSelected	Is this wep key Selected.		Boolean: • true—selected. • false—no selected, The default value is false..	N/A

WLANClient/Stations

This table contains station summury information.

XML structure

```
<WLANClient>
  <Stations>
    <Station>
      <MacAddress></MacAddress>
      <UserName></UserName>
      <Aid></Aid>
      <ApName></ApName>
```

```
      <RadioId></RadioId>
      <Channel></Channel>
      <Ssid></Ssid>
      <Bssid></Bssid>
      <VLAN></VLAN>
      <PowerSaveMode></PowerSaveMode>
      <ListenInterval></ListenInterval>
      <RSSI></RSSI>
      <RxRate></RxRate>
      <TxRate></TxRate>     <UpTime></UpTime>
      <QoSMode></QoSMode>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <WirelessMode></WirelessMode>
      <SNR></SNR>
      <DeviceType></DeviceType>
      <ClassifyDeviceType></ClassifyDeviceType>
      <SupportedRate></SupportedRate>     <RetransmissionRate></RetransmissionRate>
    </Station>
  </Stations>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Stations
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
UserName	User name of station.		String	N/A
Aid	Association ID		Unsigned integer	N/A
ApName	AP name		String	N/A
RadioId	Radio ID		Unsigned char	N/A
Channel	Channel		Unsigned char	N/A

Ssid	SSID		String	N/A
Bssid	BSS ID		MAC address	N/A
VLAN	VLAN		Unsigned integer	N/A
PowerSave Mode	Poser save status		Enumeration. 0 : active 1: sleep	N/A
ListenInterval	Listen interval		Unsigned integer	N/A
RSSI	RSSI		Unsigned integer	N/A
RxRate	Reception rate		String	N/A
TxRate	Transmission rate		String	N/A
UpTime	Up time		Integer	N/A
QoSMode	Qosmode		Enumeration. 0 : doesn't support any qos mode 1 : support mode WMM 2 : support mode 11e 3 : support mode WMM and 11e	N/A
Ipv4Address	Ipv4 address		Ipv4Address	N/A
Ipv6Address	Ipv6 address		Ipv6Address	N/A
WirelessMode	Wireless mode		Enumeration. 1 : 802.11b 2 : 802.11a 4 : 802.11g 8 : 802.11gn 16 : 802.11an 32 : 802.11gac 64 : 802.11ac 128 : 802.11gax 256 : 802.11ax	N/A
SNR	SNR		Integer	N/A
DeviceType	Device type		String	N/A
ClassifyDeviceType	Classify device type		String	N/A
SupportedRate	Supported rate		String	N/A
RetransmissionRate	Client retransmission rate		Integer	N/A

WLANClient/Station11nInformation

This table contains station 11n information.

XML structure

```
<WLANClient>
  <Station11nInformation>
    <Dot11n>
      <MacAddress></MacAddress>
      <WirelessMode></WirelessMode>
      <SupportMCSSet></SupportMCSSet>
    </Dot11n>
  </Station11nInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Station11nInformation
Table type	Multi-instance table
Row name	11n
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
WirelessMode	Wireless mode		Enumeration. 1 : 802.11b 2 : 802.11a 4 : 802.11g 8 : 802.11gn 16 : 802.11an 64 : 802.11ac	N/A
SupportMCSSet	Supported MCS		String	N/A

WLANClient/StationSecurityInformation

This table contains station security information.

XML structure

```
<WLANClient>
  <StationSecurityInformation>
    <Security>
      <MacAddress></MacAddress>
      <ClientType></ClientType>
      <AkmMethod></AkmMethod>
      <EncryptionCipher></EncryptionCipher>
    </Security>
  </StationSecurityInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationSecurityInformation
Table type	Multi-instance table
Row name	Security
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
ClientType	Client type		Enumeration. 0 : pre-rsn 1: WPA 2 : RSN	N/A
AkmMethod	AKM method		Enumeration.1 : 802.1x 2 : PSK	N/A
EncryptionCipher	Encryption cipher		Enumeration. 0 : USEGROUP 1 : WEP40 2 : TKIP 4 : CCMP	N/A

			5 : WEP104 6 : BIP 7 : WEP128 255 : CLEAR 255 : CLEAR	

WLANClient/StationRoamInformation

This table contains station roam information.

XML structure

```
<WLANClient>
  <StationRoamInformation>
    <Roam>
      <MacAddress></MacAddress>
      <RoamStatus></RoamStatus>
    </Roam>
  </StationRoamInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationRoamInformation
Table type	Multi-instance table
Row name	Roam
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
RoamStatus	Roam status		Enumeration.0 : NORMAL. 1 : SEARCHING. 2 : SLOW. 3 : FAST. 4 : ROAMAUTHING. 5 : ROAMFAILED.	N/A

			6 : INTRAAC_SLOW. 7 : INTERAC_SLOW, 8 : INTRAAC_FAST, 9 : INTERAC_FAST. 10 : INTRAMA_SLOW. 11 : INTERMA_SLOW. 12 : INTRAMA_FAST. 13 : INTERMA_FAST. 14 : ROAMBACK_SLOW. 15 : ROAMBACK_FAST. 16 : INTRABSSID_FAST. 17 : INTRABSSID_SLOW.	

WLANClient/StationStatistics

This table contains station statistics information.

XML structure

```
<WLANClient>
  <StationStatistics>
    <Statistics>
      <MacAddress></MacAddress>
    </Statistics>
  </StationStatistics>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
TxBkFrames	Transmitted backgroud frames		Unsigned integer64	N/A
TxBkBytes	Transmitted backgroud bytes		Unsigned integer64	N/A
TxBeFrames	Transmitted besteffort frames		Unsigned integer64	N/A
TxBeBytes	Transmitted besteffort bytes		Unsigned integer64	N/A
TxViFrames	Transmitted video frames		Unsigned integer64	N/A
TxViBytes	Transmitted video bytes		Unsigned integer64	N/A
TxVoFrames	Transmitted voice frames		Unsigned integer64	N/A
TxVoBytes	Transmitted voice bytes		Unsigned integer64	N/A
RxBkFrames	Received backgroud frames		Unsigned integer64	N/A
RxBkBytes	Received backgroud bytes		Unsigned integer64	N/A
RxBeFrames	Received besteffort frames		Unsigned integer64	N/A
RxBeBytes	Received besteffort bytes		Unsigned integer64	N/A
RxViFrames	Received video frames		Unsigned integer64	N/A
RxViBytes	Received video bytes		Unsigned integer64	N/A
RxVoFrames	Received voice frames		Unsigned integer64	N/A
RxVoBytes	Received voice bytes		Unsigned integer64	N/A
DropBkFrames	Dropped backgroud frames		Unsigned integer64	N/A
DropBkByte	Dropped		Unsigned integer64	N/A

s	backgroud bytes			
DropBeFrames	Dropped besteffort frames		Unsigned integer64	N/A
DropBeBytes	Dropped besteffort bytes		Unsigned integer64	N/A
DropViFrames	Dropped video frames		Unsigned integer64	N/A
DropViBytes	Dropped video bytes		Unsigned integer64	N/A
DropVoFrames	Dropped voice frames		Unsigned integer64	N/A
DropVoBytes	Dropped voice bytes		Unsigned integer64	N/A

WLANClient/RadioWmm

This table contains radio WMM information.

XML structure

```
<WLANClient>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioId></RadioId>
      <Enable></Enable>
      <SvpMapAc></SvpMapAc>
      <CacPolicy></CacPolicy>
      <CacUserNum></CacUserNum>
      <CacChannelUtilization></CacChannelUtilization>
    </Wmm>
  </RadioWmm>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
Enable	WMM status of radio		Boolean: • true—enable. • false—disable, The default value is false.
SvpMapAc	Access category of SVP		Enumeration. 2 : vi 3 : vo
CacPolicy	CAC policy		Enumeration. 1 : channel utilization. 2 : based on client number. The default value is 2.
CacUserNum	CAC client number threshold		Unsigned integer. Value range is 0 to 124. The default value is 20.
CacChlUtlValue	CAC channel utilization threshold.		Unsigned integer. Unit is percent.Value range is 0 to 100. The default value is 65.

WLANClient/ClientEdca

This table contains client EDCA information.

XML structure

```
<WLANClient>
  <ClientEdca>
    <Edca>
      <ApName></ApName>
      <RadioId></RadioId>
      <AccessCategory></AccessCategory>
      <Aifsn></Aifsn>
```

```
      <TxOpLimit></TxOpLimit>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <CacEnable></CacEnable>
    </Edca>
  </ClientEdca>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientEdca
Table type	Multi-instance table
Row name	Edca
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.	N/A
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4	N/A
AccessCategory	Access category.	Index	Enumeration. 0 : be. 1 : bk. 2 : vi 3 : vo	N/A
Aifsn	Arbitration Inter Frame Spacing Number		Unsigned integer. Value range is 2 to 15, and is restricted by chipset.	N/A
TxOpLimit	Transmission oppurtunity limit		Unsigned number. Value range is 0 to 65535. Unit is millisecond.	N/A
Ecwmin	Exponent form of CWmin		Unsigned integer. Value range is 1 to 15.	N/A
Ecwmax	Exponent form of CWmax		Unsigned integer. Value range is 1 to 15.	N/A
CacEnable	Whether CAC is enabled.		Boolean: • true—enable.	When ac is vi or vo, Cac can be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• false—disable, The default value is false.	

WLANClient/StationWmmInformation

This table contains station WMM information.

XML structure

```
<WLANClient>
  <StationWmmInformation>
    <Wmm>
      <MacAddress></MacAddress>
      <SSID></SSID>
      <QoSMode></QoSMode>
    </Wmm>
  </StationWmmInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationWmmInformation
Table type	Multi-instance table
Row name	Wmm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
SSID	SSID		String	N/A
QoSMode	QoS mode		0 : doesn't support any qos mode 1 : support mode WMM 2 : support mode 11e 3 : support mode WMM	N/A

			and 11e	

WLANClient/MobilityRole

This table contains mobility role information.

XML structure

```
<WLANClient>
  <MobilityRole>
    <Role></Role>
    <MAIPv4Address></MAIPv4Address>
    <MAIPv6Address></MAIPv6Address>
  </MobilityRole></WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityRole
Table type	single-instance table
Row name	Noe
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Role	Mobility role of the device.		Enumeration. 0 : not configured, default value. 1 : ma 2 : mc
MAIPv4Address	IPv4 address of mobility agent.		Ipv4Address
MAIPv6Address	IPv6 address of mobility agent.		Ipv6Address 若Ipv4和Ipv6同时存在下，则Ipv6有效

WLANClient/MobilityGroups

This table contains mobility group information.

XML structure

```
<WLANClient>
  <MobilityGroups>
    <MobilityGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
      <Enable></Enable>
    </MobilityGroup>
  </MobilityGroups>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityGroups
Table type	Multi-instance table
Row name	MobilityGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4. 10 : IPv6
SourceIpv4 Address	Source IPv4 address		Ipv4Address
SourceIpv6 Address	Source IPv6 address		Ipv6Address
Enable	Status of mobility group.		Boolean: • true—enable. • false—disable,

Column name	Column description	Column type	Data type and restrictions
			The default value is false.

WLANClient/MobilityIPv4Members

This table contains mobility group IPv4 member information.

XML structure

```
<WLANClient>
  <MobilityIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
      <Status></Status>
      <UpTime></UpTime>
    </Member>
  </MobilityIPv4Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.
Status	Mobility Status		Enumeration. 1 : up 2 : dowm

Column name	Column description	Column type	Data type and restrictions
UpTime	Online Time		Unsigned integer.

WLANClient/MobilityIPv6Members

This table contains mobility group IPv6 member information.

XML structure

```
<WLANClient>
  <MobilityIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
      <Status></Status>
      <UpTime></UpTime>
    </Member>
  </MobilityIPv6Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.
Status	Mobility Status		Enumeration. 1 : up 2 : down
UpTime	Online Time		Unsigned integer.

WLANClient/RoamInStation

This table contains station roam in information.

XML structure

```
<WLANClient>
  <RoamInStation>
    <Station>
      <MacAddress></MacAddress>
      <BssID></BssID>
      <VlanID></VlanID>
      <OnlineTime></OnlineTime>
      <HomeAcIpv4></HomeAcIpv4>
      <HomeAcIpv6></HomeAcIpv6>
    </Station>
  </RoamInStation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamInStation
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
BssID	BSS ID		MAC address	N/A
VlanID	VLAN-ID		Unsigned integer 1 to 4094	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
HomeAcIpv4	Home AC IPv4		String	N/A
HomeAcIpv6	Home AC Ipv6		String	N/A

WLANClient/RoamOutStation

This table contains station roam out information.

XML structure

```
<WLANClient>  <RoamOutStation>
    <RoamOutStaInfo>
      <MacAddress></MacAddress>
      <BssID></BssID>
      <VlanID></VlanID>
      <OnlineTime></OnlineTime>
      <ForeignAcIpv4></ForeignAcIpv4>
      <ForeignAcIpv6></ForeignAcIpv6>
    </RoamOutStaInfo>
  </RoamOutStation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamOutStation
Table type	Multi-instance table
Row name	RoamOutStaInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
BssID	BSS ID		MAC address	N/A
VlanID	VLAN-ID		Unsigned integer 1 to 4094	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
HomeAcIpv4	Foreign AC Ipv4		String	N/A
ForeignAcIpv6	Foreign AC Ipv6		String	N/A

WLANClient/StationRoamTrack

This table contains station roaming track information.

XML structure

```
<WLANClient>
  <StationRoamTrack>
    <RoamTrack>
      <MacAddress></MacAddress>
      <TrackCnt></TrackCnt>
      <BssId></BssId>
      <OnlineTime></OnlineTime>
      <AcIpv4Addr></AcIpv4Addr>
      <AcIpv6Addr></AcIpv6Addr>
      <RadioMode></RadioMode>
    </RoamTrack>
  </StationRoamTrack>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationRoamTrack
Table type	Multi-instance table
Row name	RoamTrack
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address of the station	Index	MAC address	N/A
TrackCnt	Track count	Index	Unsigned integer	N/A
BssId	BSS ID		MAC address	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
AcIpv4Addr	IPv4 address of the AC		String	N/A
AcIpv6Addr	IPv6 address of the AC		String	N/A

RadioMode	Radio mode		Unsigned integer	N/A

WLANClient/MobilityPeerGroups

This table contains mobility peer group information.

XML structure

```
<WLANClient>
  <MobilityPeerGroups>
    <MobilityPeerGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <Enable></Enable>
    </MobilityPeerGroup>
  </MobilityPeerGroups>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityPeerGroups
Table type	Multi-instance table
Row name	MobilityPeerGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4. 10 : IPv6
Enable	Status of mobility peer group.		Boolean: • true—enable. • false—disable, The default value is false.

WLANClient/PeerGroupIPv4Members

This table contains mobility peer group IPv4 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
    </Member>
  </PeerGroupIPv4Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/PeerGroupIPv6Members

This table contains mobility peer group IPv6 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv6Members>
    <Member>
      <GroupName></GroupName>
```

```
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </PeerGroupIPv6Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeegGroupIPv6Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Colum n type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/Layer2Authentication

This table contains WLAN access security's authenticating configurations in service template.

XML structure

```
<WLANClient>
  <Layer2Authentication>
    <Authentication>
      <ServiceTemplateName></ServiceTemplateName>
      <AuthenticationMode></AuthenticationMode>
      <IntrusionProtectionEnable></IntrusionProtectionEnable>
      <IntrusionProtectionOperation></IntrusionProtectionOperation>
      <TemporaryServiceStopTimer></TemporaryServiceStopTimer>
      <TemporaryBlockTimer></TemporaryBlockTimer>
      <IgnoreAuthorization></IgnoreAuthorization>
      <AuthorizationFailOffline></AuthorizationFailOffline>
      <Dot1xHandshakeEnable></Dot1xHandshakeEnable>
      <Dot1xSecurityHandshakeEnable></Dot1xSecurityHandshakeEnable>
```

```
      <Dot1xReauthenticationEnable></Dot1xReauthenticationEnable>
      <Dot1xMandatoryDomain></Dot1xMandatoryDomain>
      <Dot1xMaxUserCount></Dot1xMaxUserCount>
      <MACAuthenticationDomain></MACAuthenticationDomain>
      <MACAuthenticationMaxUserCount></MACAuthenticationMaxUserCount>
      <FailVLAN></FailVLAN>
      <IgnoreAuthentication></IgnoreAuthentication>
    </Authentication>
  </Layer2Authentication>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2Authentication
Table type	Multi-instance table
Row name	Authentication
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[',']','/','-'. The length is 1 to 63.	N/A
AuthenticationMode	Authentication mode of the service template	N/A	Enumeration: 0 : bypass. 1 : mac authentication 2 : mac then dot1x authentication 3 : dot1x authentication 4 : dot1x then mac authentication 5 : oui then dot1x	N/A
IntrusionProtectionEnable	Enable Intrusion Protection of the Service Template	N/A	Boolean: • true • false	N/A
IntrusionProtectionOperation	Operation mode when intrusion detected	N/A	Enumeration: 0 : temporary block mac. 1 : temporary stop the service 2 : stop service	N/A
TemporaryS	Period value of	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
erviceStopTimer	temporarily stop service		Value range: 10 to 300.	
TemporaryBlockTimer	Period value of temporarily block user mac	N/A	Unsigned integer Value range: 60 to 300.	N/A
IgnoreAuthorization	Ignore all authorization information set by server.	N/A	Boolean: • true • false	N/A
AuthorizationFailOffline	Users are offline if the authorizing failed.	N/A	Boolean: • true • false	N/A
Dot1xHandshakeEnable	Enable handshake feature of dot1x	N/A	Boolean: • true • false	N/A
Dot1xSecurityHandshakeEnable	Enable secure handshake feature ofdot1x	N/A	Boolean: • true • false	N/A
Dot1xReauthenticationEnable	Enable re-authentication feature of dot1x	N/A	Boolean: • true • false	N/A
Dot1xMandatoryDomain	Mandatory domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	N/A
Dot1xMaxUserCount	Max dot1x user numbers for a bss bound to this service template	N/A	Unsigned integer Value range: 1 to 4096.	N/A
MACAuthenticationDomain	Domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	N/A
MACAuthenticationMaxUserCount	Max MAC authentication user numbers for a bss bound to this service template	N/A	Unsigned integer Value range: 1 to 4096.	N/A
FailVLAN	VLAN used	N/A	Unsigned integer Value range: 1 to 4094.	No default value
IgnoreAuthentication	Whether to ignore authentication failures	N/A	Boolean: • true • false	N/A

WLANClient/StationLayer2Authentication

This table contains wlan authenticated station's connection information.

XML structure

```
<WLANClient>
  <StationLayer2Authentication>
    <Information>
      <MACAddress></MACAddress>
      <AuthenDomain></AuthenDomain>
      <AuthenMode></AuthenMode>
      <AuthenMethod></AuthenMethod>
      <AuthorACLIndex></AuthorACLIndex>
      <AuthorUserProfile></AuthorUserProfile>
    </Information>
  </StationLayer2Authentication>
</WLANClient>
```

Table description

Item	Description
Feature name	WLAS
Table name	StationLayer2Authentication
Table type	Multi-instance table
Row name	Information
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
MACAddress	Station MAC address	Index	MAC address
AuthenDomain	Domain of the user.	N/A	String, case-insensitive. Length: 1 to 255 characters.
AuthenMode	Authentication Mode.	N/A	Enumeration: 0 : BYPASS. 1 : MAC authentication. 2 : Dot1X. 3 : OUI.

Column name	Column description	Column type	Data type and restrictions
AuthenMethod	Authentication Method of Dot1X user.	N/A	Enumeration: 1 : Chap. 2 : PAP. 3 : EAP
AuthorACLIndex	Authorization ACL group index allocated by the server.	N/A	Unsigned integer.
AuthorUserProfile	Authorization User Profile name allocated by the server.	N/A	String Length: 1 to 31 characters.

WLANClient/APs

This table contains AP configuration information.

XML structure

```
<WLANClient>
  <APs>
    <AP>
      <Name></Name>
      <IdleTime></IdleTime>
      <KeepAliveTime></KeepAliveTime>
      <BandNaviStatus></BandNaviStatus>
      <BProbeReply24G>
        <Status24G></Status24G>
        <Threshold24G></Threshold24G>
      </BProbeReply24G>
      <BProbeReply5G>
        <Status5G></Status5G>
        <Threshold5G></Threshold5G>
      </BProbeReply5G>
      <Overload5GSsidHide>
        <SsidHideStatus></SsidHideStatus>
        <SessionValue></SessionValue>
        <GapValue></GapValue>
        <ForceLogoff></ForceLogoff>
      </Overload5GSsidHide>
      <RadioLoadBalanceNavStauts></RadioLoadBalanceNavStauts>
      <LoadBalanceIntensity></LoadBalanceIntensity>
    </AP>
  </APs>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APs
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
IdleTime	Station Idle time	N/A	Unsigned integer. Value range: 60s to 86400s.	N/A
KeepAliveTime	Keeping alive time of staion	N/A	Unsigned integer. Value range: 3s to 1800s.	N/A
BandNaviStatus	Band navigation status	N/A	Enumeration. • 0—Disabled • 1—Enabled • 2—Inherit	Effective only when global BandNaviStatus is enabled.
BProbeReply24G	2.4G broadcast probe reply	Data structure	Members include: • Status24G • Threshold24G	N/A
Status24G	Broadcast probe reply status	N/A	Enumeration. • 0—Disabled. • 1—Enabled. • 2—Inherit(default).	N/A
Threshold24G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BProbeReply5G	5G broadcast probe reply	Data structure	Members include: • Status5G • Threshold5G	N/A
Status5G	Broadcast probe reply status	N/A	Enumeration. • 0—Disabled. • 1—Enabled. • 2—Inherit(default).	N/A
Threshold5G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A
Overload5GSsidHide	Enabling the overloaded 5 GHz radios to hide the SSID in beacon frames	Data structure	Members include: • SsidHideStatus • SessionValue • GapValue • ForceLogoff	N/A
SsidHideStatus	Whether overloaded 5 GHz radios are enabled to hide the SSID in beacon frames	N/A	Enumeration. • 0—Disabled. • 1—Enabled. • 2—Inherit(default).	N/A
SessionValue	Session threshold	N/A	Unsigned integer. Value range: 1 to 120. The default value is 5.	N/A
GapValue	Session gap	N/A	Unsigned integer. Value range: 1 to 24. The default value is 4.	N/A
ForceLogoff	Whether half of the clients associated with the target 5 GHz radio are forced to log off	N/A	Boolean: • true—Enabled. • false—Disabled. Default value is false.	N/A
RadioLoadBalanceNavStauts	Radio load balancing band navigation feature status	N/A	Boolean. • true—Enabled. • false—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadBalanceIntensity	Radio load balancing band navigation intensity	N/A	Enumeration. • 0—Weak. • 1—Strong. Default value is 0.	N/A

WLANClient/APGroup

This table contains AP group configuration information.

XML structure

```
<WLANClient>
  <APGroup>
    <Group>
      <Name></Name>
      <BandNaviStatus></BandNaviStatus>
      <BProbeReply24G>
        <Status24G></Status24G>
        <Threshold24G></Threshold24G>
      </BProbeReply24G>
      <BProbeReply5G>
        <Status5G></Status5G>
        <Threshold5G></Threshold5G>
      </BProbeReply5G>
      <Overload5GSsidHide>
        <SsidHideStatus></SsidHideStatus>
        <SessionValue></SessionValue>
        <GapValue></GapValue>
        <ForceLogoff></ForceLogoff>
      </Overload5GSsidHide>
      <NasID></NasID>
      <RadioLoadBalanceNavStauts></RadioLoadBalanceNavStauts>
      <LoadBalanceIntensity></LoadBalanceIntensity>
    </Group>
  </APGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroup

Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
BandNaviStatus	Band navigation status	N/A	Boolean. • false—disabled. • true—enabled.	Effective only when global BandNaviStatus is enabled.
BProbeReply24G	2.4G broadcast probe reply	Data structure	Members include: • Status24G • Threshold24G	N/A
Status24G	Broadcast probe reply status	N/A	Boolean. • false—disabled • true—enabled	N/A
Threshold24G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A
BProbeReply5G	5G broadcast probe reply	Data structure	Members include: • Status5G • Threshold5G	N/A
Status5G	Broadcast probe reply status	N/A	Boolean. • false—disabled • true—enabled	N/A
Threshold5G	Broadcast probe reply RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Overload5GSsidHide	Enabling the overloaded 5 GHz radios to hide the SSID in beacon frames	Data structure	Members include: • SsidHideStatus • SessionValue • GapValue • ForceLogoff	N/A
SsidHideStatus	Whether overloaded 5 GHz radios are enabled to hide the SSID in beacon frames	N/A	Boolean. • false—disabled • true—enabled Default value is true.	N/A
SessionValue	Session threshold	N/A	Unsigned integer. Value range: 1 to 120. The default value is 5.	N/A
GapValue	Session gap	N/A	Unsigned integer. Value range: 1 to 24. The default value is 4.	N/A
ForceLogoff	Whether half of the clients associated with the target 5 GHz radio are forced to log off	N/A	Boolean: • true—enabled. • false—disabled. Default value is false.	N/A
NasID	NAS-ID of the AP Group.	N/A	String, Length: 1 to 63 characters	N/A
RadioLoadBalanceNavStauts	Radio load balancing band navigation feature status	N/A	Boolean. • true—Enabled. • false—Disabled.	N/A
LoadBalanceIntensity	Radio load balancing band navigation intensity	N/A	Enumeration. • 0—Weak. • 1—Strong. Default value is 0.	N/A

WLANClient/BandNavigation

This table contains band navigation information.

XML structure

```
<WLANClient>
  <BandNavigation>
    <GlobalStatus></GlobalStatus>
    <AgingTime></AgingTime>
    <DenialCnt></DenialCnt>
    <Session></Session>
    <Gap></Gap>
    <Threshold></Threshold>
  </BandNavigation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	BandNavigation
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GlobalStatus	Global status of band navigation	N/A	Boolean. • false—disabled. • true—enabled.
AgingTime	Client information aging time	N/A	Unsigned integer. Unit is second. Value range: 10 to 600.
DenialCnt	Maximum number of denials for 5 GHz association requests	N/A	Unsigned integer. Value range: 1 to 10.
Session	Client number threshold for the 5 GHz radio	N/A	Unsigned integer. Value range: 2 to 255.
Gap	Threshold for the session gap between the current 5 GHz radio and the radio that has the fewest clients	N/A	Unsigned integer. Value range: 1 to 8.
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100.

WLANClient/LoadBalance

This table contains load balancing information.

XML structure

```
<WLANClient>
  <LoadBalance>
    <Status></Status>
    <Mode></Mode>
    <Bandwidth></Bandwidth>
    <BandwidthGap></BandwidthGap>
    <Session></Session>
    <SessionGap></SessionGap>
    <Traffic></Traffic>
    <TrafficGap></TrafficGap>
    <DenialNum></DenialNum>
    <Threshold></Threshold>
  </LoadBalance>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WLAN load balancing status	N/A	Boolean. • false—disabled. • true—enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration. • 1—session-mode. • 2—traffic-mode. • 3—bandwidth-mode.	N/A
Session	Session threshold in number of clients	N/A	Unsigned integer. Value range:1 to 120.	This column can be configured only when the Mode is session-mode (1).

Column name	Column description	Column type	Data type and restrictions	Remarks
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range:1 to 12.	This column cannot be configured if the Session is not configured.
Bandwidth	Bandwidth threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 500.	This column can be configured only when the Mode is bandwidth-mode (3).
Bandwidth Gap	Bandwidth gap threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 200.	This column cannot be configured if the Bandwidth is not configured.
Traffic	Traffic threshold	N/A	Unsigned integer. Unit is percent. Value range:1 to 80.	This column can be configured only when the Mode is traffic -mode (2).
TrafficGap	Traffic gap threshold	N/A	Unsigned integer. Unit is percent. Value range:10 to 40.	This column cannot be configured if the Traffic is not configured.
DenialNum	Maximum number of denials for association requests	N/A	Unsigned integer. Value range:2 to 10.	N/A
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range:5 to 100.	N/A

WLANClient/LoadBalanceGroup

This table contains load balancing group information.

XML structure

```
<WLANClient>
  <LoadBalanceGroup>
    <Group>
      <GroupId></GroupId>
      <GroupDescription></GroupDescription>
    </Group>
  </LoadBalanceGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient

Table name	LoadBalanceGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsignedinteger. Value range: 1 to 65535.
GroupDescription	Description for the load balancing group	N/A	String, case-sensitive. Length: 1 to 64 characters.

WLANClient/RadioInLBGroup

This table contains radio information of radios in the load balancing group.

XML structure

```
<WLANClient>
  <RadioInLBGroup>
    <Radio>
      <GroupId></GroupId>
      <ApName></ApName>
      <RadioId></RadioId>
    </Radio>
  </RadioInLBGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioInLBGroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.
RadioId	Radio identifier	Index	Unsigned integer. Value range:1 to 31

WLANClient/APStations

This table contains information about clients associated with an AP.

XML structure

```
<WLANClient>
  <APStations>
    <APStation>
      <ApName></ApName>
      <MacAddress></MacAddress>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <UpTime></UpTime>
    </APStation>
  </APStations>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APStations
Table type	Multi-instance table
Row name	APStation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks

ApName	AP name	Index	String	Length: 1 to 64 characters.
MacAddress	MAC address of the client	Index	MAC address	N/A
Ipv4Address	IPv4 address of the client		IPv4 address.	N/A
Ipv6Address	IPv6 address of the client		IPv6 address.	N/A
UpTime	Uptime		Integer	N/A

WLANClient/APStationsNum

This table contains the number of clients associated with an AP.

XML structure

```
<WLANClient>
  <APStationsNum>
    <StationNum>
      <ApName></ApName>
      <StaNum></StaNum>
    </StationNum>
  </APStationsNum>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APStationsNum
Table type	Multi-instance table
Row name	StationNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String	Length: 1 to 64 characters.
StaNum	Number of clients associated with the AP		Integer	N/A

WLANClient/WhiteList

This table contains information of white list.

XML structure

```
<WLANClient>
  <WhiteList>
    <MacList>
      <MacAddress></MacAddress>
    </MacList>
  </WhiteList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WhiteList
Table type	Multi-instance table
Row name	MacList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	Index	• MAC address.	Example: 00-0c-af-e3-5d-c0.

WLANClient/StaticBlackList

This table contains information of static black list.

XML structure

```
<WLANClient>
  <StaticBlackList>
    <MacList>
      <MacAddress></MacAddress>
    </MacList>
  </StaticBlackList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StaticBlackList
Table type	Multi-instance table
Row name	MacList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	Index	• MAC address.	Example: 00-0c-af-e3-5d-c0.

WLANClient/DynamicBlackListCfg

This table contains configuration of dynamic black list.

XML structure

```
<WLANClient>
  <DynamicBlackListCfg>
    <LifeTime></LifeTime>
  </DynamicBlackListCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	DynamicBlackListCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LifeTime	Global life time of dynamic black list.		Unsinged integer. Value range:1 to 3600.Unit is second.

WLANClient/pmfConfiguration

This table contains Protected management frames information.

XML structure

```
<WLANClient>
  <PmfConfiguration>
    <Information>
      <ServiceTemplateName></ServiceTemplateName>
      <KeyDerivation></KeyDerivation>
      <PmfSwitch></PmfSwitch>
      <ComeBackTime></ComeBackTime>
      <RetryCnt></RetryCnt>
      <RetryTime></RetryTime>
    </Information>
  </PmfConfiguration >
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PmfConfiguration
Table type	Multi-instance table
Row name	Information
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[',']','/','-',lowercase.The length is 1 to 63.
KeyDerivation	Key derivation		Enumeration:

Column name	Column description	Column type	Data type and restrictions
			1 : SHA1 2 : SHA256 3: SHA1 and SHA256 The default value is 1.
PmfSwitch	Pmf function switch		Enumeration: 0 : disable 1 : optional 2 : mandatory The default value is 0
ComeBackTime	Association comeback interval		Unsinged int.The value range is 1 to 20. Unit is second. The default value is 1 (s)
RetryCnt	Maximum number of SA query request retransmission		Unsinged int.The value range is 1 to 16. The default value is 4.
RetryTime	Retry interval for SA query response		Unsinged int.The value range is 100 to 500. Unit is millisecond. The default value is 200 (ms) .

WLANClient/FtConfiguration

This table contains FT configuration information.

XML structure

```
<WLANClient>
  <FtConfiguration>
    <Configuration>
      <ServiceTemplateName></ServiceTemplateName>
      <Enable></Enable>
      <Method></Method>
      <ReassocTime></ReassocTime>
    </Configuration>
  </FtConfiguration>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	FtConfiguration
Table type	Multi-instance table
Row name	Configuration

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[',']','/','-',lowercase.The length is 1 to 63.
Enable	Status of fast BSS transition protocol.		Boolean: • **true**—enabled. • **false**—**disabled.** The default value is false.
Method	Fast BSS transition method.		Unsinged char. 0:over-the-air; 1:over-the-ds. The default value is 0.
ReassocTime	Reassociation timeout.		Unsinged int. The value range is 1 to 100. The default value is 20.Unit is second.

WLANClient/Layer2AccessControl

This table contains Layer 2 access control ACL information..

XML structure

```
<WLANClient>
  <Layer2AccessControl>
    <AccessControl>
      <ServiceTemplateName></ServiceTemplateName>
      <AclNum></AclNum>
      <PermitRemoteAP></PermitRemoteAP>
    </AccessControl>
  </Layer2AccessControl>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2AccessControl
Table type	Multi-instance table

Item	Description
Row name	AccessControl
Restrictions	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name	Index	String, lowercase. Length: 1 to 63 characters.
AclNum	ACL number	N/A	Unsigned integer Value range: 4000 to 4999.
PermitRemoteAP	Allow permit statements to take effect on remote APs	N/A	Boolean: • true—enabled. • false—disabled.

WLANClient/Wrlb5GOverLoad

This table contains wrlb 5g overload information.

XML structure

```
<WLANClient>
  <Wrlb5GOverLoad>
    <Wrlb5GOverLoadStatus></Wrlb5GOverLoadStatus>
    <SessionValue></SessionValue>
    <GapsValue></GapsValue>
  </Wrlb5GOverLoad>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Wrlb5GOverLoad
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Wrlb5GOverLoadStatus	Status of wrlb 5g overload.		Boolean: • true—enabled. • false—disabled. The default value is true.
SessionValue	Client number threshold between the 5 GHz radios.		Unsigned integer. Value range: 1 to 120. The default value is 40.
GapsValue	Threshold for the session gap between the current 5 GHz radio and other 5 GHz radio that has the fewest clients.		Unsigned integer. Value range: 1 to 24. The default value is 10.

WLANClient/WciaAp

This table contains wlan client inspect analysis configuration information of AP.

XML structure

```
<WLANClient>
  <WciaAp>
    <AP>
      <Name></Name>
      <InspectSwitch></InspectSwitch>
    </AP>
  </WciaAp>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WciaAp
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
InspectSwitch	Set wlan client inspect analysis switch	N/A	Enumeration. • 0—disabled. • 1—enabled. • 2—inherit.	N/A

WLANClient/WciaApGroup

This table contains wlan client inspect analysis configuration of AP groups.

XML structure

```
<WLANClient>
  <WciaApGroup>
    <Group>
```

```
      <Name></Name>
      <InspectSwitch></InspectSwitch>
    </Group>
  </WciaApGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	WciaApGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
InspectSwitch	Set wlan client inspect analysis switch	N/A	Enumeration. • 0—disabled. • 1—enabled.	N/A

WLANClient/VipClientGroup

This table contains VIP client group information.

XML structure

```
<WLANClient>
  <VipClientGroup>
    <MacList>
      <MacAddress></MacAddress>
      <Level></Level>
    </MacList>
  </VipClientGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientGroup
Table type	Multi-instance table
Row name	MacList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MacAddress	Client MAC address.	Index	MAC address.
Level	VIP client level.	N/A	Unsigned integer. Value range: 1 to 2

WLANClient/VipClientGroupCfg

This table contains VIP client group configuration information.

XML structure

```
<WLANClient>
  <VipClientGroupCfg>
    <ReportInterval></ReportInterval>
    <InBoundInfo>
      <InBoundMode></InBoundMode>
      <InBoundMin></InBoundMin>
      <InBoundMax></InBoundMax>
      <InBoundCir></InBoundCir>
    </InBoundInfo>
    <OutBoundInfo>
      <OutBoundMode></OutBoundMode>
      <OutBoundMin></OutBoundMin>
      <OutBoundMax></OutBoundMax>
      <OutBoundCir></OutBoundCir>
    </OutBoundInfo>
  </VipClientGroupCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientGroupCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ReportInterval	Interval at which AP report client information to the AC.	N/A	Unsigned integer. Value range: 10 to 120.
InBoundInfo	Inbound QoS information for non-VIP clients.	Data structure	Members include: • InBoundMode. • InBoundMin. • InBoundMax. • InBoundCir.
InBoundMode	Rate limit mode for inbound traffic of non-VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
InBoundMin	Minimum limited rate for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundMax	Maximum limited rate for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundCir	CIR for inbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundInfo	Outbound QoS information for non-VIP clients.	Data structure	Members include: • OutBoundMode. • OutBoundMin. • OutBoundMax. • OutBoundCir.
OutBoundMode	Rate limit mode for outbound traffic of non-VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
OutBoundMin	Minimum limited rate for for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundMax	Maximum limited rate for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.

Column name	Column description	Column type	Data type and restrictions
OutBoundCir	CIR for outbound traffic of non-VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.

WLANClient/VipClientRateLimitCfg

This table contains information about VIP client rate limit configurations.

XML structure

```
<WLANClient>
  <VipClientRateLimitCfg>
    <Level></Level>
    <InBoundInfo>
      <InBoundMode></InBoundMode>
      <InBoundMin></InBoundMin>
      <InBoundMax></InBoundMax>
      <InBoundCir></InBoundCir>
    </InBoundInfo>
    <OutBoundInfo>
      <OutBoundMode></OutBoundMode>
      <OutBoundMin></OutBoundMin>
      <OutBoundMax></OutBoundMax>
      <OutBoundCir></OutBoundCir>
    </OutBoundInfo>
  </VipClientRateLimitCfg>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	VipClientRateLimitCfg
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Level	VIP client level.	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range:2.
InBoundInfo	Inbound QoS information for VIP clients.	Data structure	Members include: • InBoundMode. • InBoundMin. • InBoundMax. • InBoundCir.
InBoundMode	Rate limit mode for inbound traffic of VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
InBoundMin	Minimum limited rate for inbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundMax	Maximum limited rate for inbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
InBoundCir	CIR for inbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundInfo	Outbound QoS information for VIP clients.	Data structure	Members include: • OutBoundMode. • OutBoundMin. • OutBoundMax. • OutBoundCir.
OutBoundMode	Rate limit mode for outbound traffic of VIP clients.	N/A	Enumeration: • **2**—Dynamic. • **3**—Static.
OutBoundMin	Minimum limited rate for for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundMax	Maximum limited rate for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.
OutBoundCir	CIR for outbound traffic of VIP clients.	N/A	Unsigned integer. Value range: 16 to 1700000.

WLANClient/OneClientHistoryRecord

This table contains history record information about a client online and offline.

XML structure

```
<WLANClient>
  <OneClientHistoryRecord>
    <HistoryRecord>
      <ClientMac></ClientMac>
      <OnOfflineTime></OnOfflineTime>
```

```
      <OnOfflineTimeString></OnOfflineTimeString>
      <RadioID></RadioID>
      <ApName></ApName>
      <ClientState></ClientState>
      <Ssid></Ssid>
      <Reason></Reason>
    </HistoryRecord>
  </OneClientHistoryRecord>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	OneClientHistoryRecord
Table type	Multi-instance table
Row name	HistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientMac	Client Mac Address	Index	MAC address	N/A
OnOfflineTime	Station online or offline time	Index	Integer	N/A
OnOfflineTimeString	Station online or offline time		String	N/A
RadioID	Radio ID		Integer	N/A
ApName	AP name		String	N/A
ClientState	Client state		Enumeration. 0 : online 1 : offline 2 : online failed 3 : client reconnect	N/A
Ssid	SSID		String	N/A
Reason	Client offline reason		Unsigned integer	N/A

WLANClient/ClientOfflineReasonHelpInfo

This table contains client offline reason help information.

XML structure

```
<WLANClient>
  <ClientOfflineReasonHelpInfo>
    <HelpInformation>
      <Reason></Reason>
      <HelpInfo></HelpInfo>
    </HelpInformation>
  </ClientOfflineReasonHelpInfo>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientOfflineReasonHelpInfo
Table type	Multi-instance table
Row name	HelpInformation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reason	Client offline reason	Index	Unsigned integer	N/A
HelpInfo	Client offline reson help information		String	The length is 1 to 4096.

WLANClient/PermitSsid

This table contains permit ssid configuration information for a user profile.

XML structure

```
<WLANClient>
  <PermitSsid>
    <SSIDList>
      <UserProfileName></UserProfileName>
      <SSID></SSID>
     </SSIDList>
  </PermitSsid>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PermitSsid
Table type	Multi-instance table
Row name	SSIDList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserProfile Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.
SSID	Identifier of service set.	Index	String, the length is 1 to 32.

WLANClient/RoamingCenter

This table contains client roaming center information.

XML structure

```
<WLANClient>
  <RoamingCenter>
    <Ipv4Address></Ipv4Address>
    <Status></Status>
    <Port></Port>
    <ResponseTimeout></ResponseTimeout>
    <Retry></Retry>
    <Ipv4CacheAgingTime></Ipv4CacheAgingTime>
    <Ipv6CacheAgingTime></Ipv6CacheAgingTime>
  </RoamingCenter>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamingCenter

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address for communication with the WLAN roaming center.		IPv4: String, dotted decimal notation.
Status	Whether the client roaming center feature is enabled.		Boolean: • true • false
Port	Port for communication with the WLAN roaming center.		Unsigned integer. Value range: 1 to 65534.
ResponseTimeout	Packets response timeout.		Unsigned integer. Value range:1 to 10, in seconds.
Retry	Maximum number of packet retransmission attempts.		Unsigned integer. Value range:1 to 10.
Ipv4CacheAgingTime	Aging time of IPv4 address security entries.		Unsigned integer. Value range:600 to 86400.
Ipv6CacheAgingTime	Aging time of IPv6 address security entries.		Unsigned integer. Value range:600 to 1296000.

WLANClient/RadioWnm

This table contains radio WNM information.

XML structure

```
<WLANClient>
  <RadioWnm>
    <Wnm>
      <ApName></ApName>
      <RadioId></RadioId>
      <AntiSticky>
        <Status></Status>
        <Rssi></Rssi>
        <Interval></Interval>
        <Forced></Forced>
      </AntiSticky>
    </Wnm>
```

```
  </RadioWnm>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioWnm
Table type	Multi-instance table
Row name	Wnm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name.	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. • Value range: 1 to 4.
AntiSticky	weak-signal client co-roaming information.	Data structure	Members include: Status. Rssi. Interval. Forced.
Status	Status of weak-signal client co-roaming.		Enumeration. • 0—disabled. • 1—enabled. • 2—inherit.
Rssi	RSSI threshold for weak-signal client co-roaming.		Unsigned integer. Value range: 5 to 100.
Interval	Interval of weak-signal detection for client co-roaming.		Unsigned integer. Value range: 1 to 10.
Forced	Status of weak-signal client co-roaming for not support 11v.		Boolean. • true. • false.

Contents

WLANFW 1

WLANFW/AntiBMCAp 1
XML structure 1
Table description 1
Columns 1
WLANFW/AntiBMCApGroup 2
XML structure 2
Table description 3
Columns 3
WLANFW/AntiBMCFATAp 4
XML structure 4
Table description 4
Columns 5
WLANFW/ArpAttackProtect 5
XML structure 6
Table description 6
Columns 6
WLANFW/ IsovlanApGroup 7
XML structure 7
Table description 7
Columns 7
WLANFW/IsovlanPermitBroadcastApGroup 8
XML structure 8
Table description 8
Columns 9
WLANFW/Isovlan 9
XML structure 9
Table description 9
Columns 10
WLANFW/IsovlanPermitBroadcast 10
XML structure 10
Table description 10
Columns 11

WLANFW

WLANFW/AntiBMCAp

This table contains broadcast and multicast packet control information of AP.

XML structure

```
<WLANFW>
  <AntiBMCOfAP>
    <AP>
      <ApName></ApName>
      <DefaultAction></DefaultAction>
      <ProIPv6></ProIPv6>
      <NetworkType></NetworkType>
      <BCRateLimitPPS></BCRateLimitPPS>
      <BCRateLimitStataus></BCRateLimitStataus>
      <MCRateLimitPPS></MCRateLimitPPS>
      <MCRateLimitStataus></MCRateLimitStataus>
    </AP>
  </AntiBMCOfAP>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfAP
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String. Length: 1 to 63 characters.
DefaultActio	Default action		Enumeration.

Column name	Column description	Column type	Data type and restrictions
n			• 2—deny. • 1—permit. • 0—inherit(default).
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 1—continue. • 0—inherit(default).
NetworkType	The type of the network.		Enumeration. • 0—inherit(default) • 1—disabled. • 2—ipv4-simple. • 3—ipv6-simple. • 4—ipv4-and-ipv6-simple.
BCRateLimitPPS	Configure the packet rate of broadcast packets.		Unsigned integer. Value range: 1 to 1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 2—disabled. • 1—enabled. • 0—inherit(default).
MCRateLimitPPS	Configure the packet rate of multicast packets.		Unsigned integer. Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 2—disabled. • 1—enabled. • 0—inherit(default).

WLANFW/AntiBMCApGroup

This table contains broadcast and multicast packet control information of AP group.

XML structure

```
<WLANClient>
  <AntiBMCOfAPGroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <DefaultAction></DefaultAction>
      <ProIPv6></ProIPv6>
```

```
      <NetworkType></NetworkType>
      <BCRateLimitPPS></BCRateLimitPPS>
      <BCRateLimitStataus></BCRateLimitStataus>
      <MCRateLimitPPS></MCRateLimitPPS>
      <MCRateLimitStataus></MCRateLimitStataus>
    </APGroup>
  </AntiBMCOfAPGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfAPGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApGroupName	AP group	Index	String. Length: 1 to 31 characters.
DefaultAction	Default action		Enumeration. • 2—deny. • 0—permit. Default value is permit.
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 0—continue. Default value is continue.
NetworkType	The type of the network.		Enumeration. • 0—disable. • 2—ipv4-simple. • 4—ipv4-and-ipv6-simple. Default value is disable.
BCRateLimitPPS	Configure the packet rate of broadcast		Unsigned integer. Value range: 1 to

Column name	Column description	Column type	Data type and restrictions
	packets.		1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 0—disable. • 1—enabled. Default value is disable.
MCRateLimitPPS	Configure the packet rate of multicast packets.		Unsigned integer. Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 0—disable. • 1—enabled. Default value is disable.

WLANFW/AntiBMCFATAp

This table contains broadcast and multicast packet control information of FAT AP .

XML structure

```
<WLANFW>
  <AntiBMCOfFATAP>
    <DefaultAction></DefaultAction>
    <ProIPv6></ProIPv6>
    <NetworkType></NetworkType>
    <BCRateLimitPPS></BCRateLimitPPS>
    <BCRateLimitStataus></BCRateLimitStataus>
    <MCRateLimitPPS></MCRateLimitPPS>
    <MCRateLimitStataus></MCRateLimitStataus>
  </AntiBMCOfFATAP>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfFATAP
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default action		Enumeration. • 2—deny. • 0—permit. Default value is permit.
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 0—continue. Default value is continue.
NetworkType	The type of the network.		Enumeration. • 0—ipv4-simple. • 1—disabled. • 2—ipv4-simple. • 3—ipv6-simple. • 4—ipv4-and-ipv6-simple. Default value is ipv4-simple.
BCRateLimitPPS	Configure the packet rate of broadcast packets.		Unsigned integer. Value range: 1 to 1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 1—enabled. • 0—disable. Default value is disable.
MCRateLimitPPS	Configure the packet rate of multicast packets.		Unsigned integer. Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 1—enabled. • 0—disable. Default value is disable.

WLANFW/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<WLANFW>
  <ArpAttackProtect>
    <AttackSuppressionEnable></AttackSuppressionEnable>
    <AttackSuppressionThreshold></AttackSuppressionThreshold>
    <AttackSuppressionBlockTime></AttackSuppressionBlockTime>
    <GatewayArpReplyEnable></GatewayArpReplyEnable>
    <GatewayArpReplyCount></GatewayArpReplyCount>
  </ArpAttackProtect>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AttackSuppressionEnable	ARP attack suppresion	N/A	Enumeration: • 1—enable • 0—disable(default)	N/A
AttackSuppressionThreshold	The threshold of ARP attack suppression entries	N/A	Unsigned integer. Value range: 2 to 4096.	The default value of AttackSuppressionThreshold is 10.
AttackSuppressionBlockTime	The block time of ARP attack suppression entries.	N/A	Unsigned integer. Value range: 10 to 6000.	The default value of AttackSuppressionBlockTime is 60.
GatewayArpReplyEnable	AP reply the arp of the gateway.	N/A	Enumeration: • 1—enable • 0—disable(default).	N/A
GatewayArpReplyCount	The packet count AP reply the arp of the gateway.	N/A	Unsigned integer. Value range: 1 to 4096.	The default value of GatewayArpReplyCount is 10.

WLANFW/ IsovlanApGroup

This table contains vlan isolation information of AP group.

XML structure

```
<WLANFW>

  <IsovlanApGroup>

    <APGroup>

      <GroupName></GroupName>

      <Vlan></Vlan>

      <PermitMacList></PermitMacList>

      <IsovlanEnable></IsovlanEnable>

      <PermitUnicast></PermitUnicast>

    </APGroup>

  </IsovlanApGroup>

</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	IsovlanApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
Vlan	Vlan id.	Index	Unsigned short. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PermitMacList	Permit mac list	Column	String, lowercase. Length: 14 to 240 characters	Example: “000c-afe3-5dc0, 000c-afe3-5dc1.”
IsovlanEnable	Vlan isolation enable	Column	Boolean: • true—enable. • false—disable. Default value is disable.	N/A
PermitUnicast	Permit unicast	Column	Boolean: • true—enable. • false—disable. Default value is disable.	Must be used with IsovlanEnable column.

WLANFW/IsovlanPermitBroadcastApGroup

This table contains vlan isolation permit broadcast information of AP group.

XML structure

```
<WLANFW>
  <IsovlanPermitBroadcastApGroup>
    <APGroup>
      <GroupName></GroupName>
      <PermitBroadcast></PermitBroadcast>
    </APGroup>
  </IsovlanPermitBroadcastApGroup>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	IsovlanPermitBroadcastApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name	Index	String. Length: 1 to 31 characters.
PermitBroadcast	Permit broadcast	Column	Boolean: • true—enable. • false—disable. Default value is disable.

WLANFW/Isovlan

This table contains vlan isolation information in system view.

XML structure

```
<WLANFW>

  <Isovlan>

    <Vlan>

      <VlanID></VlanID>

      <PermitMacList></PermitMacList>

      <IsovlanEnable></IsovlanEnable>

      <PermitUnicast></PermitUnicast>

      <PermitBmcIpv4Acl></PermitBmcIpv4Acl>

      <PermitBmcIpv6Acl></PermitBmcIpv6Acl>

    </Vlan>

  </Isovlan>

</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	Isovlan
Table type	Multi-instance table

Item	Description
Row name	Vlan
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	Vlan id.	Index	Unsigned short. Value range: 1 to 4094.	N/A
PermitMacList	Permit mac list	Column	String, lowercase. Length: 14 to 960 characters	Example: “000c-afe3-5dc0, 000c-afe3-5dc1.”
IsovlanEnable	Vlan isolation enable	Column	Boolean: • true—enable. • false—disable. Default value is disable.	N/A
PermitUnicast	Permit unicast	Column	Boolean: • true—enable. • false—disable. Default value is disable.	Must be used with IsovlanEnable column.
PermitBmcIpv4Acl	IPV4 ACL number of Permitt bmc.	Column	Unsigned short. Value range: 3000 to 3999.	
PermitBmcIpv6Acl	IPV6 ACL number of Permitt bmc.	Column	Unsigned short. Value range: 3000 to 3999.	

WLANFW/IsovlanPermitBroadcast

This table contains vlan isolation permit broadcast information in system view.

XML structure

```
<WLANFW>
  <IsovlanPermitBroadcast>
    <PermitBroadcast></PermitBroadcast>
  </IsovlanPermitBroadcast>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW

Table name	IsovlanPermitBroadcastApGroup
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
PermitBroadcast	Permit broadcast	Column	Boolean: • true—enable. • false—disable. Default value is disable.

Contents

WLANFW 1

WLANFW/AntiBMCAp 1
XML structure 1
Table description 1
Columns 1
WLANFW/AntiBMCApGroup 2
XML structure 2
Table description 3
Columns 3
WLANFW/AntiBMCFATAp 4
XML structure 4
Table description 4
Columns 4
WLANFW/ArpAttackProtect 5
XML structure 5
Table description 6
Columns 6
WLANFW/ IsovlanApGroup 6
XML structure 6
Table description 7
Columns 7
WLANFW/IsovlanPermitBroadcastApGroup 7
XML structure 8
Table description 8
Columns 8
WLANFW/Isovlan 8
XML structure 8
Table description 9
Columns 9
WLANFW/IsovlanPermitBroadcast 10
XML structure 10
Table description 10
Columns 10

WLANFW

WLANFW/AntiBMCAp

This table contains broadcast and multicast packet control information of AP.

XML structure

```
<WLANFW>
  <AntiBMCOfAP>
    <AP>
      <ApName></ApName>
      <DefaultAction></DefaultAction>
      <ProIPv6></ProIPv6>
      <NetworkType></NetworkType>
      <BCRateLimitPPS></BCRateLimitPPS>
      <BCRateLimitStataus></BCRateLimitStataus>
      <MCRateLimitPPS></MCRateLimitPPS>
      <MCRateLimitStataus></MCRateLimitStataus>
    </AP>
  </AntiBMCOfAP>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String. Length: 1 to 63 characters.
DefaultAction	Default action		Enumeration. • 2—deny.

Column name	Column description	Column type	Data type and restrictions
			• 1—permit. • 0—inherit.
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 1—continue. • 0—inherit.
NetworkType	The type of the network.		Enumeration. • 0—inherit • 1—disabled. • 2—ipv4-simple. • 3—ipv6-simple. • 4—ipv4-and-ipv6-simple.
BCRateLimitPPS	Configure the packet rate of broadcast packets.		Unsigned integer. Value range: 1 to 1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 2—disabled. • 1—enabled. • 0—inherit.
MCRateLimitPPS	Configure the packet rate of multicast packets.		Unsigned integer. Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 2—disabled. • 1—enabled. • 0—inherit.

WLANFW/AntiBMCApGroup

This table contains broadcast and multicast packet control information of AP group.

XML structure

```
<WLANClient>
  <AntiBMCOfAPGroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <DefaultAction></DefaultAction>
      <ProIPv6></ProIPv6>
      <NetworkType></NetworkType>
```

```
      <BCRateLimitPPS></BCRateLimitPPS>
      <BCRateLimitStataus></BCRateLimitStataus>
      <MCRateLimitPPS></MCRateLimitPPS>
      <MCRateLimitStataus></MCRateLimitStataus>
    </APGroup>
  </AntiBMCOfAPGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfAPGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApGroupName	AP group	Index	String. Length: 1 to 31 characters.
DefaultAction	Default action		Enumeration. • 2—deny. • 0—permit.
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 0—continue.
NetworkType	The type of the network.		Enumeration. • 0—disable. • 2—ipv4-simple. • 4—ipv4-and-ipv6-simple.
BCRateLimitPPS	Configure the packet rate of broadcast packets.		Unsigned integer. Value range: 1 to 1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 0—disable. • 1—enabled.
MCRateLimi	Configure the		Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
tPPS	packet rate of multicast packets.		Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 0—disable. • 1—enabled.

WLANFW/AntiBMCFATAp

This table contains broadcast and multicast packet control information of FAT AP .

XML structure

```
<WLANFW>
  <AntiBMCOfFATAP>
    <DefaultAction></DefaultAction>
    <ProIPv6></ProIPv6>
    <NetworkType></NetworkType>
    <BCRateLimitPPS></BCRateLimitPPS>
    <BCRateLimitStataus></BCRateLimitStataus>
    <MCRateLimitPPS></MCRateLimitPPS>
    <MCRateLimitStataus></MCRateLimitStataus>
  </AntiBMCOfFATAP>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	AntiBMCOfFATAP
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default action		Enumeration. • 2—deny.

Column name	Column description	Column type	Data type and restrictions
			• 0—permit.
ProIPv6	The way of process IPv6 multicast packets.		Enumeration. • 2—deny. • 0—continue.
NetworkType	The type of the network.		Enumeration. • 0—ipv4-simple. • 1—disabled. • 2—ipv4-simple. • 3—ipv6-simple. • 4—ipv4-and-ipv6-simple.
BCRateLimitPPS	Configure the packet rate of broadcast packets.		Unsigned integer. Value range: 1 to 1410000.
BCRateLimitStataus	Limit the rate of broadcast packets.		Enumeration. • 1—enabled. • 0—disable.
MCRateLimitPPS	Configure the packet rate of multicast packets.		Unsigned integer. Value range: 1 to 1410000.
MCRateLimitStataus	Limit the rate of multicast packets.		Enumeration. • 1—enabled. • 0—disable.

WLANFW/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<WLANFW>
  <ArpAttackProtect>
    <AttackSuppressionEnable></AttackSuppressionEnable>
    <AttackSuppressionThreshold></AttackSuppressionThreshold>
    <AttackSuppressionBlockTime></AttackSuppressionBlockTime>
    <GatewayArpReplyEnable></GatewayArpReplyEnable>
    <GatewayArpReplyCount></GatewayArpReplyCount>
  </ArpAttackProtect>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AttackSuppressionEnable	ARP attack suppresion	N/A	Enumeration: • 1—enable • 0—disable
AttackSuppressionThreshold	The threshold of ARP attack suppression entries	N/A	Unsigned integer. Value range: 2 to 4096.
AttackSuppressionBlockTime	The block time of ARP attack suppression entries.	N/A	Unsigned integer. Value range: 10 to 6000.
GatewayArpReplyEnable	AP reply the arp of the gateway.	N/A	Enumeration: • 1—enable • 0—disable
GatewayArpReplyCount	The packet count AP reply the arp of the gateway.	N/A	Unsigned integer. Value range: 1 to 4096.

WLANFW/ IsovlanApGroup

This table contains vlan isolation information of AP group.

XML structure

```
<WLANFW>

  <IsovlanApGroup>

    <APGroup>

      <GroupName></GroupName>
```

```
      <Vlan></Vlan>

      <PermitMacList></PermitMacList>

      <IsovlanEnable></IsovlanEnable>

      <PermitUnicast></PermitUnicast>

    </APGroup>

  </IsovlanApGroup>

</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	IsovlanApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
Vlan	Vlan id.	Index	Unsigned short. Value range: 1 to 4094.	N/A
PermitMacList	Mac list to permit.		String, lowercase.	Example: “000c-afe3-5dc0, 000c-afe3-5dc1.”
IsovlanEnable	Vlan isolation enable		Boolean: • true—enable. • false—disable.	N/A
PermitUnicast	Permit unicast		Boolean: • true—enable. • false—disable.	Must be used with IsovlanEnable column.

WLANFW/IsovlanPermitBroadcastApGroup

This table contains vlan isolation permit broadcast information of AP group.

XML structure

```
<WLANFW>
  <IsovlanPermitBroadcastApGroup>
    <APGroup>
      <GroupName></GroupName>
      <PermitBroadcast></PermitBroadcast>
    </APGroup>
  </IsovlanPermitBroadcastApGroup>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	IsovlanPermitBroadcastApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name	Index	String. Length: 1 to 31 characters.
PermitBroadcast	Permit broadcast		Boolean: • true—enable. • false—disable.

WLANFW/Isovlan

This table contains vlan isolation information in system view.

XML structure

```
<WLANFW>

  <Isovlan>

    <Vlan>
```

```
      <VlanID></VlanID>

      <PermitMacList></PermitMacList>

      <IsovlanEnable></IsovlanEnable>

      <PermitUnicast></PermitUnicast>

      <PermitBmcIpv4Acl></PermitBmcIpv4Acl>

      <PermitBmcIpv6Acl></PermitBmcIpv6Acl>

    </Vlan>

  </Isovlan>

</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	Isovlan
Table type	Multi-instance table
Row name	Vlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanID	Vlan id.	Index	Unsigned short. Value range: 1 to 4094.	N/A
PermitMacList	Permit mac list		String, lowercase.	Example: “000c-afe3-5dc0, 000c-afe3-5dc1.”
IsovlanEnable	Vlan isolation enable		Boolean: • true—enable. • false—disable.	N/A
PermitUnicast	Permit unicast		Boolean: • true—enable. • false—disable.	Must be used with IsovlanEnable column.
PermitBmcIpv4Acl	IPV4 ACL number of Permitt bmc.		Unsigned short. Value range: 3000 to 3999. Invalid value:4294967295	

Column name	Column description	Column type	Data type and restrictions	Remarks
PermitBmcIpv6Acl	IPV6 ACL number of Permitt bmc.		Unsigned short. Value range: 3000 to 3999 Invalid value:4294967295	

WLANFW/IsovlanPermitBroadcast

This table contains vlan isolation permit broadcast information in system view.

XML structure

```
<WLANFW>
  <IsovlanPermitBroadcast>
    <PermitBroadcast></PermitBroadcast>
  </IsovlanPermitBroadcast>
</WLANFW>
```

Table description

Item	Description
Feature name	WLANFW
Table name	IsovlanPermitBroadcastApGroup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PermitBroadcast	Permit broadcast		Boolean: • true—enable. • false—disable.

Contents

WlanMesh 1

WlanMesh/Profile 1
XML structure 1
Table description 1
Columns 1
WlanMesh/Policy 2
XML structure 2
Table description 3
Columns 3
WlanMesh/ MLSPProxy 4
XML structure 4
Table description 5
Columns 5
WlanMesh/RadioCfg 5
XML structure 5
Table description 6
Columns 6
WlanMesh/APCfg 7
XML structure 7
Table description 7
Columns 7
WlanMesh/ WDSPeerMac 8
XML structure 8
Table description 8
Columns 8
WlanMesh/APGroupRadioCfg 8
XML structure 9
Table description 9
Columns 9
WlanMesh/APGroupAPCfg 10
XML structure 10
Table description 10
Columns 10
WlanMesh/APGroupWDSPeerMac 10
XML structure 11
Table description 11
Columns 11
WlanMesh/GlobalCfg 11
XML structure 12
Table description 12
Columns 12
WlanMesh/APMeshIF 12
XML structure 12
Table description 13
Columns 13
WlanMesh/GroupMeshIF 14
XML structure 14
Table description 15
Columns 15

WlanMesh

WlanMesh/Profile

This table contains mesh profile information.

XML structure

```
<WlanMesh>
  <Profile>
    <ProfileEntry>
      <ProfileIndex></ProfileIndex>
      <MeshID></MeshID>
      <KeepAlive></KeepAlive>
      <AKMMode></AKMMode>
      <SimpleKey></SimpleKey>
      <ProfileEnable></ProfileEnable>
    </ProfileEntry>
  </Profile>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	Profile
Table type	Multi-instance table
Row name	ProfileEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileIndex	Mesh profile number	Index	Unsigned integer. Value range: 1 to 32.
MeshID	Mesh ID for the mesh profile	N/A	String. Length: 1 to 32 characters.
KeepAlive	Mesh link keepalive interval	N/A	Unsigned integer. Value range: 1 to 1800.

Column name	Column description	Column type	Data type and restrictions
AKMMode	SAE mode	N/A	Enumeration: • **1**—Enabled. • **2**—Disabled.
SimpleKey	Plain text string	N/A	String. Length: 8 to 63 characters.
ProfileEnable	Mesh profile enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

WlanMesh/Policy

This table contains mesh policy information.

XML structure

```
<WlanMesh>
  <Policy>
    <PolicyEntry>
      <PolicyName></PolicyName>
      <PolicyEnable></PolicyEnable>
      <MlspEnable></MlspEnable>
      <MlspMode></MlspMode>
      <TransmitLevel></TransmitLevel>
      <ProbRequestInterval></ProbRequestInterval>
      <LinkHoldRSSI></LinkHoldRSSI>
      <WaveGuideHoldRSSI></WaveGuideHoldRSSI>
      <TransMissionMethod></TransMissionMethod>
      <WaveGuideSwitch></WaveGuideSwitch>
      <LinkHoldTime></LinkHoldTime>
      <SwitchMargin></SwitchMargin>
      <LinkSaturationRSSI></LinkSaturationRSSI>
      <MaxLinkNum></MaxLinkNum>
      <MlspOptimize></MlspOptimize>
      <LinkOptimizeThreshold></LinkOptimizeThreshold>
      <MlspLog></MlspLog>
      <MlspLogInterval></MlspLogInterval>
      <TempLinkEnable></TempLinkEnable>
      <ActiveKeepaliveCount></ActiveKeepaliveCount>
      <LinkEstablishThreshold></LinkEstablishThreshold>
    </PolicyEntry>
  </Policy>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	Policy
Table type	Multi-instance table
Row name	PolicyEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Mesh policy name	Index	String. Length: 1 to 31 characters.	N/A
PolicyEnable	Mesh policy enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MlspEnable	MLSP enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
MlspMode	MLSP mode	N/A	Unsigned integer. Value range: 0 to 1.	Only available for fat APs.
TransmitLevel	Keepalive packet limit	N/A	Unsigned integer. Value range: 0 to 4.	Only available for ACs.
ProbRequestInterval	Probe request interval	N/A	Unsigned integer. Value range: 100 to 8191.	N/A
LinkHoldRSSI	Mesh link hold RSSI	N/A	Unsigned integer. Value range: 5 to 100.	N/A
WaveGuideHoldRSSI	Waveguide hold RSSI	N/A	Unsigned integer. Value range: 5 to 100.	Only available for fat APs.
TransMissionMethod	Transmission method	N/A	Unsigned integer. Value range: 0 to 1.	Only available for ACs.
WaveGuideSwitch	Fast waveguide switch state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkHoldTime	Mesh link hold time	N/A	Unsigned integer. Value range: 1000 to 20000.	Only available for fat APs.
SwitchMargin	Mesh link switch threshold	N/A	Unsigned integer. Value range: 1 to 100.	Only available for fat APs.
LinkSaturationRSSI	Mesh link saturation RSSI	N/A	Unsigned integer. Value range: 30 to 150.	N/A
MaxLinkNum	Maximum number of links that an MP can form	N/A	Unsigned integer. Value range: 1 to 8.	N/A
MlspOptimize	MLSP optimization state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
LinkOptimizeThreshold	Mesh link optimization threshold	N/A	Unsigned integer. Value range: 30 to 120.	Only available for fat APs.
MlspLog	MLSP logging enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
MlspLogInterval	MLSP logging interval	N/A	Unsigned integer. Value range: 500 to 4000.	Only available for fat APs.
TempLinkEnable	Temporary link enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for ACs.
ActiveKeepaliveCount	Mesh link active keepalive packet limit	N/A	Unsigned integer. Value range: 1 to 100.	Only available for fat APs.
LinkEstablishThreshold	Mesh link establishment threshold	N/A	Unsigned integer. Value range: 1 to 100.	N/A

WlanMesh/ MLSPProxy

This table contains MLSP proxy information.

XML structure

```
<WlanMesh>
  <MLSPProxy>
    <MLSPProxyEntry>
      <PolicyName></PolicyName>
      <ProxyMac></ProxyMac>
```

```
      <VlanID></VlanID>
      <IPAddress></IPAddress>
    </MLSPProxyEntry>
  </MLSPProxy>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	MLSPProxy
Table type	Multi-instance table
Row name	MLSPProxyEntry
Restrictions	The table is applicable only to fat APs and MLSP must be enabled first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Mesh policy name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ProxyMac	Proxy MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	It cannot be an all zero address or broadcast address or multicast address, 00-0c-af-e3-5d-c0 for example.
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
IPAddress	IP address	N/A	String. Dotted decimal notation.	It cannot be an all zero address or broadcast address or multicast address, 192.168.0.1 for example.

WlanMesh/RadioCfg

This table contains radio configuration information.

XML structure

```
<WlanMesh>
  <RadioCfg>
```

```
    <Radio>
      <ApName></ApName>
      <RadioId></RadioId>
      <RadioType></RadioType>
      <PolicyName></PolicyName>
      <BindInterface></BindInterface>
      <ProfileIndex></ProfileIndex>
    </Radio>
  </RadioCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	RadioCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
RadioType	Radio type	N/A	Enumeration: • **1**—802.11b. • **2**—802.11a. • **3**—802.11g. • **4**—802.11n(2.4GHz). • **5**—802.11n(5GHz). • **6**—802.11ac(2.4GHz). • **7**—802.11ac(5GHz).	N/A
PolicyName	Name of the policy bound to the radio	N/A	String. Length: 1 to 31 characters.	N/A
BindInterface	Index of the interface bound to the radio	N/A	Unsigned integer. Value range: 0 to 1023.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile bound to the radio	N/A	Unsigned integer. Value range: 1 to 32.	N/A

WlanMesh/APCfg

This table contains AP configuration information.

XML structure

```
<WlanMesh>
  <APCfg>
    <CfgInfo>
      <ApName></ApName>
      <PortalEnable></PortalEnable>
    </CfgInfo>
  </APCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APCfg
Table type	Multi-instance table
Row name	CfgInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

WlanMesh/ WDSPeerMac

This table contains WDS peer MAC information.

XML structure

```
<WlanMesh>
  <WDSPeerMac>
    <PeerMacEntry>
      <ApName></ApName>
      <RadioId></RadioId>
      <PeerMac></PeerMac>
    </PeerMacEntry>
  </WDSPeerMac>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	WDSPeerMac
Table type	Multi-instance table
Row name	PeerMacEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
PeerMac	Peer MP's MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

WlanMesh/APGroupRadioCfg

This table contains radio configuration information for an AP group.

XML structure

```
<WlanMesh>
  <APGroupRadioCfg>
    <GroupRadio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioId></RadioId>
      <PolicyName></PolicyName>
      <BindInterface></BindInterface>
      <ProfileIndex></ProfileIndex>
    </GroupRadio>
  </APGroupRadioCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APGroupRadioCfg
Table type	Multi-instance table
Row name	GroupRadio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ModelName	AP model name	Index	String. Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
PolicyName	Name of the policy bound to the radio	N/A	String. Length: 1 to 31 characters.	N/A
BindInterface	Index of the interface bound to the radio	N/A	Unsigned integer. Value range: 0 to 1023.	N/A
ProfileIndex	Index of the profile bound to the radio	N/A	Unsigned integer. Value range: 1 to 32.	N/A

WlanMesh/APGroupAPCfg

This table contains AP group configuration information.

XML structure

```
<WlanMesh>
  <APGroupAPCfg>
    <GroupCfgInfo>
      <GroupName></GroupName>
      <PortalEnable></PortalEnable>
    </GroupCfgInfo>
  </APGroupAPCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APGroupAPCfg
Table type	Multi-instance table
Row name	GroupCfgInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name	Index	String. Length: 1 to 31 characters.
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

WlanMesh/APGroupWDSPeerMac

This table contains WDS peer MAC address information for an AP group.

XML structure

```
<WlanMesh>
  <APGroupWDSPeerMac>
    <GroupPeerMacEntry>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioId></RadioId>
      <PeerMac></PeerMac>
    </GroupPeerMacEntry>
  </APGroupWDSPeerMac>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APGroupWDSPeerMac
Table type	Multi-instance table
Row name	GroupPeerMacEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ModelName	AP model name	Index	String. Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
PeerMac	Peer MP MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

WlanMesh/GlobalCfg

This table contains global configuration information.

XML structure

```
<WlanMesh>
  <GlobalCfg>
    <PeerConfig></PeerConfig>
    <PortalEnable></PortalEnable>
  </GlobalCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	GlobalCfg
Table type	Multi-instance table
Row name	GroupCfgInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
PeerConfig	Mesh peer configuration state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

WlanMesh/APMeshIF

This table contains AP mesh interface configuration information.

XML structure

```
<WlanMesh>
  <APMeshIF>
    <APMeshIFEntry>
      <ApName></ApName>
      <MeshIFNum></MeshIFNum>
      <LinkType></LinkType>
      <PVID></PVID>
```

```
      <PermitVlanList></PermitVlanList>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
    </APMeshIFEntry>
  </APMeshIF>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APMeshIF
Table type	Multi-instance table
Row name	APMeshIFEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
MeshIFNum	Mesh interface Nnmber	Index	Unsigned integer. Value range: 0 to 1023.	
LinkType	VLAN type of an interface	N/A	Enumeration: • **1**—Access (default). • **2**—Trunk. • **3**—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<PermitVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

Column name	Column description	Column type	Data type and restrictions	Remarks
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **TaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<UntaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **UntaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<TaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

WlanMesh/GroupMeshIF

This table contains AP group mesh interface configuration information.

XML structure

```
<WlanMesh>
  <GroupMeshIF>
    <GroupMeshIFEntry>
      <GroupName></GroupName >
      <MeshIFNum></MeshIFNum>
      <LinkType></LinkType>
      <PVID></PVID>
      <PermitVlanList></PermitVlanList>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
    </GroupMeshIFEntry >
  </GroupMeshIF>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	GroupMeshIF
Table type	Multi-instance table
Row name	GroupMeshIFEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
MeshIFNum	Mesh interface Nnmber	Index	Unsigned integer. Value range: 0 to 1023.	
LinkType	VLAN type of an interface	N/A	Enumeration: • **1**—Access (default). • **2**—Trunk. • **3**—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like “<PermitVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

Column name	Column description	Column type	Data type and restrictions	Remarks
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **TaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<UntaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the **UntaggedVlanList** column. The item is permitted to incremental edit. You can sign the flag like “<TaggedVlanList base:incremental="true">”. If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.

Contents

WlanMesh 2

WlanMesh/Profile 2
XML structure 2
Table description 2
Columns 2
WlanMesh/Policy 3
XML structure 3
Table description 4
Columns 4
WlanMesh/ MLSPProxy 5
XML structure 5
Table description 6
Columns 6
WlanMesh/RadioCfg 6
XML structure 7
Table description 7
Columns 7
WlanMesh/APCfg 8
XML structure 8
Table description 8
Columns 8
WlanMesh/ WDSPeerMac 9
XML structure 9
Table description 9
Columns 9
WlanMesh/LinkStatus 10
XML structure 10
Table description 10
Columns 10
WlanMesh/LinkStatistics 11
XML structure 11
Table description 12
Columns 12
WlanMesh/NbrStatus 13
XML structure 13
Table description 14
Columns 14
WlanMesh/APMeshIF 15
XML structure 15
Table description 15
Columns 15
WlanMesh/GroupMeshIF 16
XML structure 17
Table description 17
Columns 17
WlanMesh/APGroupRadioCfg 18
XML structure 18
Table description 18
Columns 19
WlanMesh/APGroupAPCfg 19
XML structure 19
Table description 19
Columns 20
WlanMesh/APGroupWDSPeerMac 20
XML structure 20
Table description 20
Columns 21

WlanMesh/GlobalCfg ····· 21
XML structure ····· 21
Table description ····· 21
Columns ····· 22

WlanMesh

WlanMesh/Profile

This table contains mesh profile information.

XML structure

```
<WlanMesh>
  <Profile>
    <ProfileEntry>
      <ProfileIndex></ProfileIndex>
      <MeshID></MeshID>
      <KeepAlive></KeepAlive>
      <AKMMode></AKMMode>
      <SimpleKey></SimpleKey>
      <IsKeyConfig></IsKeyConfig>
      <ProfileEnable></ProfileEnable>
    </ProfileEntry>
  </Profile>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	Profile
Table type	Multi-instance table
Row name	ProfileEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileIndex	Mesh profile number	Index	Unsigned integer. Value range: 1 to 32.

Column name	Column description	Column type	Data type and restrictions
MeshID	Mesh ID for the mesh profile	N/A	String. Length: 1 to 32 characters.
KeepAlive	Mesh link keepalive interval	N/A	Unsigned integer. Value range: 1 to 1800.
AKMMode	SAE mode	N/A	Enumeration: • **1**—Enabled. • **2**—Disabled.
SimpleKey	Plain text string	N/A	String. Length: 8 to 63 characters.
IsKeyConfig	SimpleKey configuration state	N/A	Boolean: • **true**—The simpleKey has been configured. • **false**—The simpleKey is not configured.
ProfileEnable	Mesh profile enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

WlanMesh/Policy

This table contains mesh policy information.

XML structure

```
<WlanMesh>
  <Policy>
    <PolicyEntry>
      <PolicyName></PolicyName>
      <PolicyEnable></PolicyEnable>
      <MlspEnable></MlspEnable>
      <MlspMode></MlspMode>
      <TransmitLevel></TransmitLevel>
      <ProbRequestInterval></ProbRequestInterval>
      <LinkHoldRSSI></LinkHoldRSSI>
      <WaveGuideHoldRSSI></WaveGuideHoldRSSI>
      <TransMissionMethod></TransMissionMethod>
      <WaveGuideSwitch></WaveGuideSwitch>
      <LinkHoldTime></LinkHoldTime>
      <SwitchMargin></SwitchMargin>
      <LinkSaturationRSSI></LinkSaturationRSSI>
      <MaxLinkNum></MaxLinkNum>
      <MlspOptimize></MlspOptimize>
      <LinkOptimizeThreshold></LinkOptimizeThreshold>
      <MlspLog></MlspLog>
```

```
      <MlspLogInterval></MlspLogInterval>
      <TempLinkEnable></TempLinkEnable>
      <ActiveKeepaliveCount></ActiveKeepaliveCount>
      <LinkEstablishThreshold></LinkEstablishThreshold>
    </PolicyEntry>
  </Policy>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	Policy
Table type	Multi-instance table
Row name	PolicyEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Mesh policy name	Index	String. Length: 1 to 31 characters.	N/A
PolicyEnable	Mesh policy enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A
MlspEnable	MLSP enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
MlspMode	MLSP mode	N/A	Unsigned integer. Value range: 0 to 1.	Only available for fat APs.
TransmitLevel	Keepalive packet limit	N/A	Unsigned integer. Value range: 0 to 4.	Only available for ACs.
ProbRequestInterval	Probe request interval	N/A	Unsigned integer. Value range: 100 to 8191.	N/A
LinkHoldRSSI	Mesh link hold RSSI	N/A	Unsigned integer. Value range: 5 to 100.	N/A
WaveGuideHoldRSSI	Waveguide hold RSSI	N/A	Unsigned integer. Value range: 5 to 100.	Only available for fat APs.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransMissionMethod	Transmission method	N/A	Unsigned integer. Value range: 0 to 1.	Only available for ACs.
WaveGuideSwitch	Fast waveguide switch state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
LinkHoldTime	Mesh link hold time	N/A	Unsigned integer. Value range: 1000 to 20000.	Only available for fat APs.
SwitchMargin	Mesh link switch threshold	N/A	Unsigned integer. Value range: 1 to 100.	Only available for fat APs.
LinkSaturationRSSI	Mesh link saturation RSSI	N/A	Unsigned integer. Value range: 30 to 150.	N/A
MaxLinkNum	Maximum number of links that an MP can form	N/A	Unsigned integer. Value range: 1 to 8.	N/A
MlspOptimize	MLSP optimization state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
LinkOptimizeThreshold	Mesh link optimization threshold	N/A	Unsigned integer. Value range: 30 to 120.	Only available for fat APs.
MlspLog	MLSP logging enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for fat APs.
MlspLogInterval	MLSP logging interval	N/A	Unsigned integer. Value range: 500 to 4000.	Only available for fat APs.
TempLinkEnable	Temporary link enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	Only available for ACs.
ActiveKeepaliveCount	Mesh link active keepalive packet limit	N/A	Unsigned integer. Value range: 1 to 100.	Only available for fat APs.
LinkEstablishThreshold	Mesh link establishment threshold	N/A	Unsigned integer. Value range: 1 to 100.	N/A

WlanMesh/ MLSPProxy

This table contains MLSP proxy information.

XML structure

```
<WlanMesh>
```

```
  <MLSPProxy>
    <MLSPProxyEntry>
      <PolicyName></PolicyName>
      <ProxyMac></ProxyMac>
      <VlanID></VlanID>
      <IPAddress></IPAddress>
    </MLSPProxyEntry>
  </MLSPProxy>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	MLSPProxy
Table type	Multi-instance table
Row name	MLSPProxyEntry
Restrictions	The table is applicable only to fat APs and MLSP must be enabled first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Mesh policy name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ProxyMac	Proxy MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	It cannot be an all zero address or broadcast address or multicast address, 00-0c-af-e3-5d-c0 for example.
VlanID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
IPAddress	IP address	N/A	String. Dotted decimal notation.	It cannot be an all zero address or broadcast address or multicast address, 192.168.0.1 for example.

WlanMesh/RadioCfg

This table contains radio configuration information.

XML structure

```
<WlanMesh>
  <RadioCfg>
    <Radio>
      <ApName></ApName>
      <RadioId></RadioId>
      <RadioType></RadioType>
      <PolicyName></PolicyName>
      <BindInterface></BindInterface>
      <ProfileIndex></ProfileIndex>
    </Radio>
  </RadioCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	RadioCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
RadioType	Radio type	N/A	Enumeration: • **1**—802.11b. • **2**—802.11a. • **3**—802.11g. • **4**—802.11n(2.4GHz). • **5**—802.11n(5GHz). • **6**—802.11ac(2.4GHz). • **7**—802.11ac(5GHz). • **8**—802.11ax(2.4GHz). • **9**—802.11ax(5GHz).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy bound to the radio	N/A	String. Length: 1 to 31 characters.	N/A
BindInterface	Index of the interface bound to the radio	N/A	Unsigned integer. Value range: 0 to 1023.	N/A
ProfileIndex	Index of the profile bound to the radio	N/A	Unsigned integer. Value range: 1 to 32.	N/A

WlanMesh/APCfg

This table contains AP configuration information.

XML structure

```
<WlanMesh>
  <APCfg>
    <CfgInfo>
      <ApName></ApName>
      <PortalEnable></PortalEnable>
    </CfgInfo>
  </APCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APCfg
Table type	Multi-instance table
Row name	CfgInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.	N/A

WlanMesh/ WDSPeerMac

This table contains WDS peer MAC information.

XML structure

```
<WlanMesh>
  <WDSPeerMac>
    <PeerMacEntry>
      <ApName></ApName>
      <RadioId></RadioId>
      <PeerMac></PeerMac>
    </PeerMacEntry>
  </WDSPeerMac>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	WDSPeerMac
Table type	Multi-instance table
Row name	PeerMacEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerMac	Peer MP's MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

WlanMesh/LinkStatus

This table contains mesh link state information.

XML structure

```
<WlanMesh>
  <LinkStatus>
    <LinkStatusEntry>
      <IfIndex></IfIndex>
      <IfName></IfName>
      <BssID></BssID>
      <PeerMac></PeerMac>
      <Age></Age>
      <LinkType></LinkType>
      <LinkMode></LinkMode>
      <RSSI></RSSI>
      <IsZeroLink></IsZeroLink>
      <SignalType></SignalType>
    </LinkStatusEntry>
  </LinkStatus>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	LinkStatus
Table type	Multi-instance table
Row name	LinkStatusEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
BssID	Base service set ID	N/A	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PeerMac	Peer MAC address	N/A	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Age	Link age timer	N/A	Unsigned integer.	N/A
LinkType	Link type	N/A	Enumeration: • **1**—Active. • **2**—Standby.	N/A
LinkMode	Link mode	N/A	Unsigned integer: • **1**—802.11b. • **2**—802.11a. • **3**—802.11g. • **4**—802.11n(2.4GHz). • **5**—802.11n(5GHz). • **6**—802.11ac(2.4GHz). • **7**—802.11ac(5GHz). • **8**—802.11ax(2.4GHz). • **9**—802.11ax(5GHz).	N/A
RSSI	Mean RSSI	N/A	Unsigned integer.	N/A
IsZeroLink	Whether the link is a zero link	N/A	Boolean: • true • false	N/A
SignalType	Signal type	N/A	Unsigned integer: • **0**—Air • **1**—Waveguide	N/A

WlanMesh/LinkStatistics

This table contains mesh link statistics.

XML structure

```
<WlanMesh>
  <LinkStatistics>
    <LinkStatisticsEntry>
      <ApName></ApName>
      <IfIndex></IfIndex>
      <NbrIndex></NbrIndex>
      <RecvPkt></RecvPkt>
      <RecvByte></RecvByte>
```

```
      <RecvUniPkt></RecvUniPkt>
      <RecvMultiPkt></RecvMultiPkt>
      <RecvBrocPkt></RecvBrocPkt>
      <RecvDiscPkt></RecvDiscPkt>
      <SendPkt></SendPkt>
      <SendByte></SendByte>
      <SendUniPkt></SendUniPkt>
      <SendMultiPkt></SendMultiPkt>
      <SendBrocPkt></SendBrocPkt>
      <SendDiscPkt></SendDiscPkt>
      <IfName></IfName>
    </LinkStatisticsEntry>
  </LinkStatistics>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	LinkStatistics
Table type	Multi-instance table
Row name	LinkStatisticsEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
IfIndex	Interface index	Index	Unsigned integer.	N/A
NbrIndex	Neighbor index	N/A	Unsigned integer.	N/A
RecvPkt	Received packets	N/A	Unsigned integer.	N/A
RecvByte	Received bytes	N/A	Unsigned integer.	N/A
RecvUniPkt	Received unicast packets	N/A	Unsigned integer.	N/A
RecvMultiPkt	Received multicast packets	N/A	Unsigned integer.	N/A
RecvBrocPkt	Received broadcast packets	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RecvDiscPkt	Received discarded packet	N/A	Unsigned integer.	N/A
SendPkt	Sent packets	N/A	Unsigned integer.	N/A
SendByte	Sent bytes	N/A	Unsigned integer.	N/A
SendUniPkt	Sent unicast packets	N/A	Unsigned integer.	N/A
SendMultiPkt	Sent multicast packets	N/A	Unsigned integer.	N/A
SendBrocPkt	Sent broadcast packets	N/A	Unsigned integer.	N/A
SendDiscPkt	Sent discarded packets	N/A	Unsigned integer.	N/A
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	N/A

WlanMesh/NbrStatus

This table contains neighbor state information.

XML structure

```
<WlanMesh>
  <NbrStatus>
    <NbrStatusEntry>
      <ApName></ApName>
      <NbrIndex></NbrIndex>
      <RadioID></RadioID>
      <RadioType></RadioType>
      <LocalMeshID></LocalMeshID>
      <NbrMeshID></NbrMeshID>
      <BSSID></BSSID>
      <PeerMac></PeerMac>
      <IfIndex></IfIndex>
      <Status></Status>
      <Channel></Channel>
      <Age></Age>
      <RSSI></RSSI>
      <SNR></SNR>
    </NbrStatusEntry>
  </NbrStatus>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	NbrStatus
Table type	Multi-instance table
Row name	NbrStatusEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String. Length: 1 to 64 characters.
NbrIndex	Neighbor index	Index	Unsigned integer.
RadioID	Radio ID	N/A	Unsigned integer.
RadioType	Radio mode	N/A	Enumeration: • 1—802.11b. • 2—802.11a. • 3—802.11g. • 4—802.11n(2.4GHz). • 5—802.11n(5GHz). • 6—802.11ac(2.4GHz). • 7—802.11ac(5GHz). • 8—802.11ax(2.4GHz). • 9—802.11ax(5GHz).
LocalMeshID	Local mesh ID	N/A	String. Length: 1 to 32 characters.
NbrMeshID	Peer mesh ID	N/A	String. Length: 1 to 32 characters.
BSSID	Base service set ID	N/A	MAC address. Six groups of two hexadecimal digits, hyphen-separated.
PeerMac	Peer MAC address	N/A	MAC address. Six groups of two hexadecimal digits, hyphen-separated.
IfIndex	Interface index	N/A	Unsigned integer.
Status	Link status	N/A	Enumeration: • **1**—Active. • **2**—Standby.
Channel	Radio channel	N/A	Unsigned integer.
Age	Link aging timer	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
RSSI	Link RSSI	N/A	Unsigned integer.
SNR	Signal noise ratio	N/A	Unsigned integer.

WlanMesh/APMeshIF

This table contains mesh interface information for an AP.

XML structure

```
<WlanMesh>
  <APMeshIF>
    <APMeshIFEntry>
      <ApName></ApName>
      <MeshIFNum></MeshIFNum>
      <MeshIFName></MeshIFName>
      <LinkType></LinkType>
      <PVID></PVID>
      <PermitVlanList></PermitVlanList>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
    </APMeshIFEntry>
  </APMeshIF>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APMeshIF
Table type	Multi-instance table
Row name	APMeshIFEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String. Length: 1 to 64 characters.	N/A
MeshIFNum	Mesh interface number	Index	Unsigned integer: Value range: 0 to 1023	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MeshIFName	Mesh interface name	N/A	String. Length: 1 to 47 characters.	N/A
LinkType	Mesh interface type	N/A	Unsigned integer. • **1**—Access. • **2**—Trunk. • **3**—Hybrid.	N/A
PVID	Mesh interface PVID	N/A	Unsigned integer. Value range: 1 to 4094	N/A
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	N/A

WlanMesh/GroupMeshIF

This table contains mesh interface information for an AP group.

XML structure

```
<WlanMesh>
  <GroupMeshIF>
    <GroupMeshIFEntry>
      <GroupName></GroupName>
      <MeshIFNum></MeshIFNum>
      <MeshIFName></MeshIFName>
      <LinkType></LinkType>
      <PVID></PVID>
      <PermitVlanList></PermitVlanList>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
    </GroupMeshIFEntry>
  </GroupMeshIF>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	GroupMeshIF
Table type	Multi-instance table
Row name	GroupMeshIFEntry
Restrictions	Support only for AC

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name	Index	String. Length: 1 to 31 characters.
MeshIFNum	Mesh interface number	Index	Unsigned integer. Value range: 0 to 1023
MeshIFName	Mesh interface name	N/A	String. Length: 1 to 47 characters.
LinkType	Mesh interface type	N/A	Unsigned integer. • **1**—Access. • **2**—Trunk. • **3**—Hybrid.
PVID	Mesh interface PVID	N/A	Unsigned integer. Value range: 1 to 4094

Column name	Column description	Column type	Data type and restrictions
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.

WlanMesh/APGroupRadioCfg

This table contains radio configuration information for an AP group.

XML structure

```
<WlanMesh>
  <APGroupRadioCfg>
    <GroupRadio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioId></RadioId>
      <PolicyName></PolicyName>
      <BindInterface></BindInterface>
      <ProfileIndex></ProfileIndex>
    </GroupRadio>
  </APGroupRadioCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh

Item	Description
Table name	APGroupRadioCfg
Table type	Multi-instance table
Row name	GroupRadio
Restrictions	Applicable only to ACs

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ModelName	AP model name	Index	String. Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31.	N/A
PolicyName	Name of the policy bound to the radio	N/A	String. Length: 1 to 31 characters.	N/A
BindInterface	Index of the interface bound to the radio	N/A	Unsigned integer. Value range: 0 to 1023.	N/A
ProfileIndex	Index of the profile bound to the radio	N/A	Unsigned integer. Value range: 1 to 32.	N/A

WlanMesh/APGroupAPCfg

This table contains AP configuration information for an AP group.

XML structure

```
<WlanMesh>
  <APGroupAPCfg>
    <GroupCfgInfo>
      <GroupName></GroupName>
      <PortalEnable></PortalEnable>
    </GroupCfgInfo>
  </APGroupAPCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh

Item	Description
Table name	APGroupAPCfg
Table type	Multi-instance table
Row name	GroupCfgInfo
Restrictions	Support only for AC

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name	Index	String. Length: 1 to 31 characters.
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

WlanMesh/APGroupWDSPeerMac

This table contains WDS peer MAC address information for an AP group.

XML structure

```
<WlanMesh>
  <APGroupWDSPeerMac>
    <GroupPeerMacEntry>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioId></RadioId>
      <PeerMac></PeerMac>
    </GroupPeerMacEntry>
  </APGroupWDSPeerMac>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	APGroupWDSPeerMac
Table type	Multi-instance table
Row name	GroupPeerMacEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String. Length: 1 to 31 characters.	If this column contains an uppercase character, it will be converted to lowercase automatically.
ModelName	AP model name	Index	String. Length: 1 to 63 characters.	N/A
RadioId	Radio ID	Index	Unsigned integer. Value range: 1 to 31	N/A
PeerMac	Peer MP MAC address	Index	MAC address. Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

WlanMesh/GlobalCfg

This table contains global configuration information.

XML structure

```
<WlanMesh>
  <GlobalCfg>
    <PeerConfig></PeerConfig>
    <PortalEnable></PortalEnable>
  </GlobalCfg>
</WlanMesh>
```

Table description

Item	Description
Feature name	WlanMesh
Table name	GlobalCfg
Table type	Multi-instance table
Row name	GroupCfgInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
PeerConfig	Mesh peer configuration state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.
PortalEnable	Portal service enabling state	N/A	Boolean: • **true**—Enabled. • **false**—Disabled.

Contents

WLANOptimization 1
WLANOptimization/APRadios 1
XML structure 1
Table description 1
Columns 2
WLANOptimization/APGroupRadios 3
XML structure 3
Table description 4
Columns 4

WLANOptimization

WLANOptimization/APRadios

This table contains WLAN optimization information for an AP.

XML structure

```
<WLANOptimization>
  <APRadios>
    <APRadio>
      <ApName></ApName>
      <RadioId></RadioId>
      <SoftwareRetryUnicast>
        <UStatus></UStatus>
        <UCount></UCount>
      </SoftwareRetryUnicast>
      <SoftwareRetryEap>
        <EStatus></EStatus>
        <ECount></ECount>
      </SoftwareRetryEap>
      <SoftwareRetryBroadcast>
        <BStatus></BStatus>
        <BCount></BCount>
      </SoftwareRetryBroadcast>
      <ClientReconnect>
        <RStatus></RStatus>
        <Rssi></Rssi>
        <Interval></Interval>
      </ClientReconnect>
      <HideNodeProtectionStatus></HideNodeProtectionStatus>
    </APRadio>
  </APRadios>
</WLANOptimization>
```

Table description

Item	Description
Feature name	WLANOptimization
Table name	APRadios
Table type	Multi-instance table
Row name	APRadio
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name.	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned character. Value range: 1 to 31
SoftwareRetryUnicast	Software retransmission for unicast packets.	Data structure	Members include: • UStatus • UCount
UStatus	Whether software retransmission for unicast packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
UCount	Maximum number of software retransmissions for unicast packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryEap	Software retransmission for EAP packets.	Data structure	Members include: • EStatus • ECount
EStatus	Whether software retransmission for EAP packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
ECount	Maximum number of software retransmissions for EAP packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryBroadcast	Software retransmission for broadcast packets.	Data structure	Members include: • BStatus • BCount
BStatus	Whether software retransmission for broadcast packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
BCount	Maximum number of software retransmissions for broadcast packets.		Unsigned integer. Value range: 0 to 16.
ClientReconnect	AP-triggered client reconnection.	Data structure	Members include: • RStatus • Rssi

Column name	Column description	Column type	Data type and restrictions
			• Interval
RStatus	Whether AP-triggered client reconnection is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
Rssi	Reconnecting clients whose RSSI is lower than the RSSI threshold.		Unsigned integer. Value range: 5 to 100. The default value is 10.
Interval	Interval for RSSI checking.		Unsigned integer. Value range: 3 to 10. The default value is 3.
HideNodeProtectionStatus	Whether hidden node protection is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.

WLANOptimization/APGroupRadios

This table contains WLAN optimization information for an AP group.

XML structure

```
<WLANOptimization>
  <APGroupRadios>
    <APGroupRadio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <SoftwareRetryUnicast>
        <UStatus></UStatus>
        <UCount></UCount>
      </SoftwareRetryUnicast>
      <SoftwareRetryEap>
        <EStatus></EStatus>
        <ECount></ECount>
      </SoftwareRetryEap>
      <SoftwareRetryBroadcast>
        <BStatus></BStatus>
        <BCount></BCount>
      </SoftwareRetryBroadcast>
      <ClientReconnect>
        <RStatus></RStatus>
```

```
        <Rssi></Rssi>
        <Interval></Interval>
      </ClientReconnect>
      <HideNodeProtectionStatus></HideNodeProtectionStatus>
    </APGroupRadio>
  </APGroupRadios>
</WLANOptimization>
```

Table description

Item	Description
Feature name	WLANOptimization
Table name	APGroupRadios
Table type	Multi-instance table
Row name	APGroupRadio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.
SoftwareRetryUnicast	Software retransmission for unicast packets.	Data structure	Members include: • UStatus • UCount
UStatus	Whether software retransmission for unicast packets is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.
UCount	Maximum number of software retransmissions for unicast packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryEap	Software retransmission for EAP packets.	Data structure	Members include: • EStatus • ECount
EStatus	Whether software retransmission for EAP packets is enabled.		Boolean: • 0: disable

Column name	Column description	Column type	Data type and restrictions
			• 1: enable The default value is 0..
ECount	Maximum number of software retransmissions for EAP packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryBroadcast	Software retransmission for broadcast packets.	Data structure	Members include: • BStatus • BCount
BStatus	Whether software retransmission for broadcast packets is enabled.		Boolean: • 0: disable • 1: enable The default value is 0..
BCount	Maximum number of software retransmissions for broadcast packets.		Unsigned integer. Value range: 0 to 16.
ClientReconnect	AP-triggered client reconnection.	Data structure	Members include: • RStatus • Rssi • Interval
RStatus	Whether AP-triggered client reconnection is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.
Rssi	Reconnecting clients whose RSSI is lower than the RSSI threshold.		Unsigned integer. Value range: 5 to 100. The default value is 10.
Interval	Interval for RSSI checking.		Unsigned integer. Value range: 3 to 10. The default value is 3.
HideNodeProtectionStatus	Whether hidden node protection is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.

Contents

WLANOptimization 1
WLANOptimization/APRadios 1
XML structure 1
Table description 1
Columns 2
WLANOptimization/APGroupRadios 3
XML structure 3
Table description 4
Columns 4

WLANOptimization

WLANOptimization/APRadios

This table contains WLAN optimization information for an AP.

XML structure

```
<WLANOptimization>
  <APRadios>
    <APRadio>
      <ApName></ApName>
      <RadioId></RadioId>
      <SoftwareRetryUnicast>
        <UStatus></UStatus>
        <UCount></UCount>
      </SoftwareRetryUnicast>
      <SoftwareRetryEap>
        <EStatus></EStatus>
        <ECount></ECount>
      </SoftwareRetryEap>
      <SoftwareRetryBroadcast>
        <BStatus></BStatus>
        <BCount></BCount>
      </SoftwareRetryBroadcast>
      <ClientReconnect>
        <RStatus></RStatus>
        <Rssi></Rssi>
        <Interval></Interval>
      </ClientReconnect>
      <HideNodeProtectionStatus></HideNodeProtectionStatus>
    </APRadio>
  </APRadios>
</WLANOptimization>
```

Table description

Item	Description
Feature name	WLANOptimization
Table name	APRadios
Table type	Multi-instance table
Row name	APRadio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name.	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
SoftwareRetryUnicast	Software retransmission for unicast packets.	Data structure	Members include: • UStatus • UCount
UStatus	Whether software retransmission for unicast packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
UCount	Maximum number of software retransmissions for unicast packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryEap	Software retransmission for EAP packets.	Data structure	Members include: • EStatus • ECount
EStatus	Whether software retransmission for EAP packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
ECount	Maximum number of software retransmissions for EAP packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryBroadcast	Software retransmission for broadcast packets.	Data structure	Members include: • BStatus • BCount
BStatus	Whether software retransmission for broadcast packets is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.
BCount	Maximum number of software retransmissions for broadcast packets.		Unsigned integer. Value range: 0 to 16.
ClientReconnect	AP-triggered client reconnection.	Data structure	Members include: • RStatus • Rssi • Interval
RStatus	Whether AP-triggered client reconnection is enabled.		Enumeration: • 0: disable

Column name	Column description	Column type	Data type and restrictions
			• 1: enable • 2: inherit The default value is 2.
Rssi	Reconnecting clients whose RSSI is lower than the RSSI threshold.		Unsigned integer. Value range: 5 to 100. The default value is 10.
Interval	Interval for RSSI checking.		Unsigned integer. Value range: 3 to 10. The default value is 3.
HideNodeProtectionStatus	Whether hidden node protection is enabled.		Enumeration: • 0: disable • 1: enable • 2: inherit The default value is 2.

WLANOptimization/APGroupRadios

This table contains WLAN optimization information for an AP group.

XML structure

```
<WLANOptimization>
  <APGroupRadios>
    <APGroupRadio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <SoftwareRetryUnicast>
        <UStatus></UStatu>
        <UCount></UCount>
      </SoftwareRetryUnicast>
      <SoftwareRetryEap>
        <EStatus></EStatus>
        <ECount></ECount>
      </SoftwareRetryEap>
      <SoftwareRetryBroadcast>
        <BStatus></BStatus>
        <BCount></BCount>
      </SoftwareRetryBroadcast>
      <ClientReconnect>
        <RStatus></RStatus>
        <Rssi></Rssi>
        <Interval></Interval>
      </ClientReconnect>
```

```
    <HideNodeProtectionStatus></HideNodeProtectionStatus>
  </APGroupRadio>
 </APGroupRadios>
</WLANOptimization>
```

Table description

Item	Description
Feature name	WLANOptimization
Table name	APGroupRadios
Table type	Multi-instance table
Row name	APGroupRadio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	AP group name.	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	AP model name.	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioID	Radio ID.	Index	Unsigned short. Value range: 1 to 31.
SoftwareRetryUnicast	Software retransmission for unicast packets.	Data structure	Members include: • UStatus • UCount
UStatus	Whether software retransmission for unicast packets is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.
UCount	Maximum number of software retransmissions for unicast packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRetryEap	Software retransmission for EAP packets.	Data structure	Members include: • EStatus • ECount
EStatus	Whether software retransmission for EAP packets is enabled.		Boolean: • 0: disable • 1: enable The default value is 0..
ECount	Maximum number of software retransmissions for EAP packets.		Unsigned integer. Value range: 0 to 16.
SoftwareRet	Software retransmission for	Data structure	Members include:

Column name	Column description	Column type	Data type and restrictions
ryBroadcast	broadcast packets.		• BStatus • BCount
BStatus	Whether software retransmission for broadcast packets is enabled.		Boolean: • 0: disable • 1: enable The default value is 0..
BCount	Maximum number of software retransmissions for broadcast packets.		Unsigned integer. Value range: 0 to 16.
ClientReconnect	AP-triggered client reconnection.	Data structure	Members include: • RStatus • Rssi • Interval
RStatus	Whether AP-triggered client reconnection is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.
Rssi	Reconnecting clients whose RSSI is lower than the RSSI threshold.		Unsigned integer. Value range: 5 to 100. The default value is 10.
Interval	Interval for RSSI checking.		Unsigned integer. Value range: 3 to 10. The default value is 3.
HideNodeProtectionStatus	Whether hidden node protection is enabled.		Boolean: • 0: disable • 1: enable The default value is 0.

Contents

WLANQoS 1
WLANQoS/RadioClientRateLimit 1
XML structure 1
Table description 1
Columns 1
WLANQoS/STClientRateLimit 2
XML structure 2
Table description 3
Columns 3
WLANQoS/GroupClientRateLimit 3
XML structure 3
Table description 4
Columns 4

WLANQoS

WLANQoS/RadioClientRateLimit

This table contains radio client rate limit information.

XML structure

```
<WLANQoS>
  <RadioClientRateLimit>
    <ClientRateLimit>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
      <Inbound>
         <Mode></Mode>
         <Cir></Cir>
      </Inbound>
      <Outbound>
         <Mode></Mode>
         <Cir></Cir>
      </Outbound>
    </ClientRateLimit>
  </RadioClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	RadioClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, number or '-','[',']','/','-'. The length is 1 to 64.

Column name	Column description	Column type	Data type and restrictions
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 31
Status	Client rate limit status.		Unsigned integer. Value range: 0 to 2. 0:default value. 1:enable. 2:disable.
Inbound	Inbound direction from client to AP	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Mode	Client rate limit mode		Unsigned integer. **1** : STATIC. **2 :** DYNAMIC.
Cir	The committed information rate in Kbps		Unsigned integer. Value range: 16 to 1700000

WLANQoS/STClientRateLimit

This table contains service template client rate limit information.

XML structure

```
<WLANQoS>
  <STClientRateLimit>
    <ClientRateLimit>
      <ServiceTemplateName></ServiceTemplateName>
      <Inbound>
         <Mode></Mode>
         <Cir></Cir>
      </Inbound>
      <Outbound>
         <Mode></Mode>
         <Cir></Cir>
      </Outbound>
    </ClientRateLimit>
  </STClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	STClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name	Index	String, letter, number or '-'，'[','],'/','-'. The length is 1 to 63.
Inbound	Inbound direction from client to AP	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Mode	Client rate limit mode		Unsigned integer. **1** : STATIC. **2 :** DYNAMIC.
Cir	The committed information rate in Kbps		Unsigned integer. Value range: 16 to 1700000

WLANQoS/GroupClientRateLimit

This table contains group client rate limit information.

XML structure

```
<WLANQoS>
  <GroupClientRateLimit>
    <ClientRateLimit>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Enable></Enable>
      <Inbound>
```

```
        <Mode></Mode>
        <Cir></Cir>
      </Inbound>
      <Outbound>
        <Mode></Mode>
        <Cir></Cir>
      </Outbound>
    </ClientRateLimit>
  </GroupClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	GroupClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
GroupName	Group name.	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	Model name.	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioID	Radio ID.	Index	Unsigned integer. Value range: 1 to 31
Enable	Client rate limit status.	N/A	Boolean: • true • false Default value is false.
Inbound	Inbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Mode	Client rate limit mode.	N/A	Unsigned integer. • 1—Static. • 2—Dynamic.
Cir	Committed information rate in Kbps.	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 16 to 1700000

Contents

WLANQoS 1
WLANQoS/RadioClientRateLimit 1
XML structure 1
Table description 1
Columns 2
WLANQoS/STClientRateLimit 2
XML structure 2
Table description 3
Columns 3
WLANQoS/GroupClientRateLimit 3
XML structure 3
Table description 4
Columns 4

WLANQoS

WLANQoS/RadioClientRateLimit

This table contains radio client rate limit information.

XML structure

```
<WLANQoS>
  <RadioClientRateLimit>
    <ClientRateLimit>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
      <Inbound>
         <Mode></Mode>
         <Cir></Cir>
      </Inbound>
      <Outbound>
         <Mode></Mode>
         <Cir></Cir>
      </Outbound>
      <RunInbound>
         <Mode></Mode>
         <Cir></Cir>
      </RunInbound>
      <RunOutbound>
         <Mode></Mode>
         <Cir></Cir>
      </RunOutbound>
          <RadioMode></RadioMode></ClientRateLimit>
  </RadioClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	RadioClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, number or '-','[',']','/','-'. The length is 1 to 64.
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 31
Status	Client rate limit status.		Unsigned integer. Value range: 0 to 2. 0:default value. 1:enable. 2:disable.
Inbound	Inbound direction from client to AP	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir
RunInbound	Effected inbound direction from client to AP	Data structure	Members include: • Mode • Cir
RunOutbound	Effected outbound direction from client to AP	Data structure	Members include: • Mode • Cir
Mode	Client rate limit mode		Unsigned integer. **1** : STATIC. **2 :** DYNAMIC.
Cir	The committed information rate in Kbps		Unsigned integer. Value range: 16 to 1700000
RadioMode	Radio mode.		Unsigned integer.

WLANQoS/STClientRateLimit

This table contains service template client rate limit information.

XML structure

```
<WLANQoS>
  <STClientRateLimit>
    <ClientRateLimit>
      <ServiceTemplateName></ServiceTemplateName>
      <Inbound>
         <Mode></Mode>
         <Cir></Cir>
      </Inbound>
```

```
      <Outbound>
         <Mode></Mode>
         <Cir></Cir>
      </Outbound>
    </ClientRateLimit>
  </STClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	STClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ServiceTemplateName	Service template name	Index	String, letter, number or '-'，'[','],'/','-'. The length is 1 to 63.
Inbound	Inbound direction from client to AP	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Mode	Client rate limit mode		Unsigned integer. **1** : STATIC. **2 :** DYNAMIC.
Cir	The committed information rate in Kbps		Unsigned integer. Value range: 16 to 1700000

WLANQoS/GroupClientRateLimit

This table contains group client rate limit information.

XML structure

```
<WLANQoS>
  <GroupClientRateLimit>
    <ClientRateLimit>
      <GroupName></GroupName>
```

```
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Enable></Enable>
      <Inbound>
        <Mode></Mode>
        <Cir></Cir>
      </Inbound>
      <Outbound>
        <Mode></Mode>
        <Cir></Cir>
      </Outbound>
      <RadioMode></RadioMode>
    </ClientRateLimit>
  </GroupClientRateLimit>
</WLANQoS>
```

Table description

Item	Description
Feature name	WLANQoS
Table name	GroupClientRateLimit
Table type	Multi-instance table
Row name	ClientRateLimit
Restrictions	None

Columns

Column name	**Column description**	**Column type**	**Data type and restrictions**
GroupName	Group name.	Index	String, lowercase. Length: 1 to 31 characters.
ModelName	Model name.	Index	String, case-insensitive. Length: 1 to 63 characters.
RadioID	Radio ID.	Index	Unsigned integer. Value range: 1 to 31
Enable	Client rate limit status.	N/A	Boolean: • true • false Default value is false.
Inbound	Inbound direction from client to AP.	Data structure	Members include: • Mode • Cir
Outbound	Outbound direction from client to AP.	Data structure	Members include: • Mode • Cir

Column name	Column description	Column type	Data type and restrictions
Mode	Client rate limit mode.	N/A	Unsigned integer. • 1—STATIC. • 2—DYNAMIC.
Cir	Committed information rate in Kbps.	N/A	Unsigned integer. Value range: 16 to 1700000
RadioMode	Radio mode.		Unsigned integer.

Contents

WLOC 1
WLOC/ModuleRestore 1
XML structure 1
Table description 1
Columns 1
WLOC/ModuleReset 1
XML structure 1
Table description 2
Columns 2
WLOC/ModuleManualUpDate 2
XML structure 2
Table description 3
Columns 3
WLOC/ ModuleManualUpDateOfApGroup 3
XML structure 3
Table description 3
Columns 4

WLOC

WLOC/ModuleRestore

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleRestore>
    <Module>
      <APName></APName>
      <ModuleID></ModuleID>
    </Module>
  </ModuleRestore>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleRestore
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A

WLOC/ModuleReset

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleReset>
```

```
    <Module>
      <APName></APName>
      <ModuleID></ModuleID>
    </Module>
  </ModuleReset>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleReset
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A

WLOC/ModuleManualUpDate

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleManualUpDate>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <FilePath></FilePath>
    </Module>
  </ModuleManualUpDate>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleManualUpDate
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
FilePath	FilePath	Column	String, case-insensitive. Length: 1 to 512 characters	N/A

WLOC/ ModuleManualUpDateOfApGroup

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleManualUpDateOfApGroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <FilePath></FilePath>
    </Module>
  </ModuleManualUpDateOfApGroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleManualUpDateOfApGroup
Table type	Multi-instance table

Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ApModelName	ModelName	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
FilePath	FilePath	Column	String, case-insensitive. Length: 1 to 512 characters	N/A

Contents

WLOC 1

WLOC/AeroScout 1
XML structure 1
Table description 1
Columns 1
WLOC/BLE 2
XML structure 2
Table description 3
Columns 3
WLOC/CUPID 5
XML structure 5
Table description 5
Columns 6
WLOC/FingerPrint 7
XML structure 7
Table description 7
Columns 7
WLOC/CommonConf 8
XML structure 8
Table description 9
Columns 9
WLOC/AeroScoutOfApgroup 10
XML structure 10
Table description 11
Columns 11
WLOC/BLEOfApgroup 12
XML structure 12
Table description 12
Columns 13
WLOC/CUPIDOfApgroup 14
XML structure 14
Table description 15
Columns 15
WLOC/FingerPrintOfApgroup 16
XML structure 16
Table description 17
Columns 17
WLOC/CommonConfOfApgroup 18
XML structure 18
Table description 18
Columns 19
WLOC/AeroScoutOfGlobal 20
XML structure 20
Table description 20
Columns 20
WLOC/BLEOfGlobal 21
XML structure 21
Table description 22
Columns 22
WLOC/CUPIDOfGlobal 24
XML structure 24
Table description 24
Columns 24
WLOC/FingerPrintOfGlobal 25
XML structure 25
Table description 26
Columns 26

WLOC/CommonConfOfGlobal ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
WLOC/RadioConf ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
WLOC/RadioConfOfApgroup ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
WLOC/ModuleConf ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 32
WLOC/ModuleConfOfApgroup ····· 32
XML structure ····· 32
Table description ····· 33
Columns ····· 33
WLOC/BLEModuleConf ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
WLOC/BLEModuleConfOfApgroup ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 36
WLOC/IOTConf ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37
WLOC/IOTConfOfApgroup ····· 37
XML structure ····· 37
Table description ····· 38
Columns ····· 38
WLOC/IOTConfOfGlobal ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 39

WLOC

WLOC/AeroScout

This table contains AeroScout of AP protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScout>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </AP>
  </AeroScout>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScout
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the	N/A	Enumeration: • 1—enable	N/A

	AeroScout protocol		• 2—disable	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 2—V2 • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 1—static • 2—dynamic	N/A
EngineAddress	Specify a locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together.Example: 1.1.1.1.
EnginePort	Specify a locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 1—absolute • 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLE

This table contains BLE of AP protocol related parameters information.

XML structure

```
<WLOC>
  <BLE>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
```

```
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
    </AP>
  </BLE>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLE
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
AgingTime	Specify a neighbor aging time for BLE location	N/A	Unsigned integer Value range:60 to 3600.	N/A
EngineAddress	Specify the locating server IP address to which the AP sends packets, this column must	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

	configure with EnginePort			
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Configure Rssi-Threadhold status	N/A	Enumeration: • 1—enable • 2—dsable	N/A
RssiThreshold	Specify the Rssi-Threadhold value	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswd Simple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswd Cipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of real-time wireless locating	N/A	Enumeration: • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example:1.1.1.1.
RealTimeReportEnginePort	Specify the locating server	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.

	port to which the AP sends packets, this column must configure with EngineAddress			
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/CUPID

This table contains CUPID of AP protocol related parameters information.

XML structure

```
<WLOC>
  <CUPID>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </AP>
  </CUPID>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPID
Table type	Multi-instance table
Row name	AP
Restrictions	None

Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ReportStatus	Specify the status of clietnt list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
UnassoMeasStatus	Unassociated Measurement report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/FingerPrint

This table contains FingerPrint of AP protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrint>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus></RawFrameStatus>
      <MuReportStatus></MuReportStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </AP>
  </FingerPrint>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrint
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address, this	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

	column must configure with EnginePort			
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 1—enable • 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConf

This table contains CommonConf of AP protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConf>
    <AP>
      <ApName></ApName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
```

```
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </AP>
  </CommonConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConf
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRateLimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout,	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must

	this column must configure with DilutionFactor			set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitCir	Configure the committed information rate, this column must configure with RateLimitCbs	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RateLimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Specify the Rssi-Threadhold value	N/A	Enumeration: • 1—enable • 2—disable	N/A
RssiThreshold	Specify the Rssi-Threadhold value	N/A	Unsigned integer. Value range: 5 to 100.	N/A
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/AeroScoutOfApgroup

This table contains AeroScout of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScoutOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
```

```
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </APGroup>
  </AeroScoutOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 2—V2 • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 1—static • 2—dynamic	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

	of AP			
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 0—inherit • 1—absolute • 2—relative	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfApgroup

This table contains Ble of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <BLEOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
    </APGroup>
  </BLEOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC

Table name	BLEOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the status of client list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threadhold value	N/A	Enumeration: • 1—enable • 2—disable	N/A
RssiThreshold	Specify the Rssi-Threadhold value	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswd	Specify the	N/A	String.	N/A

Simple	simple Command password		Length: 12	
CmdPasswd Cipher	Specify the cipher cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the RSSI threshold status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/CUPIDOfApgroup

This table contains CUPID of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <CUPIDOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
```

```
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </APGroup>
  </CUPIDOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

ReportStatus	Specify the status of client list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfApgroup

This table contains FingerPrint of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrintOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus></RawFrameStatus>
      <MuReportStatus></MuReprotStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </APGroup>
  </FingerPrintOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration • 1—enable • 2—disable	N/A
MuReprotStatus	Specify the status of report MU information	N/A	Enumeration • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general	N/A

			• 2—lightweight • 3—cupid-hybrid	
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfApgroup

This table contains CommonConf of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </APGroup>
  </CommonConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGrou[p Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRateLimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Otional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout, this column must configure with DilutionFactor	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RateLimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Configure Rssi-Threadhold status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RssiThreshol	Specify the Rssi-Threadhold	N/A	Unsigned integer	N/A

d	value		Value range: 5 to 100.	
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/AeroScoutOfGlobal

This table contains AeroScout of Global protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScoutOfGlobal>
    <Status></Status>
    <VersionID></VersionID>
    <EngineDetectionMode></EngineDetectionMode>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <TimeStamp></TimeStamp>
    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </AeroScoutOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the AeroScout	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A

	protocol			
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 2—V2(default) • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 1—static • 2—dynamic(default)	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 1—absolute • 2—relative(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfGlobal

This table contains BLE of Global protocol related parameters information.

XML structure

```
<WLOC>
  <BLEOfGlobal>
    <Status></Status>
    <AgingTime></AgingTime>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <RssiThresholdStatus></RssiThresholdStatus>
    <RssiThreshold></RssiThreshold>
```

```
    <VendorPort></VendorPort>
    <CmdPasswdSimple></CmdPasswdSimple>
    <CmdPasswdCipher></CmdPasswdCipher>
    <RealTimeReportStatus></RealTimeReportStatus>
    <RealTimeReportPrefix></RealTimeReportPrefix>
    <RealTimeReportInterval></RealTimeReportInterval>
    <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
    <RealTimeReportEnginePort></RealTimeReportEnginePort>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
  </BLEOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 60 to 3600. Default:180	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the	N/A	Enumeration:	N/A

	status of client list report		• 1—enable • 2—disable(default)	
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400. Default:900	N/A
RssiThresholdStatus	Configure Rssi-Threadhold status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RssiThreshold	Specify the Rssi-Threadhold value	N/A	Unsigned integer. Value range: 5 to 255. Default:5	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of real-time wireless locating	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18 (even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A

ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight	N/A

WLOC/CUPIDOfGlobal

This table contains CUPID of Global protocol related parameters information.

XML structure

```
<WLOC>
  <CUPIDOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <UnassociateReportStatus></UnassociateReportStatus>
    <UnassoMeasStatus></UnassoMeasStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <LocalCalculate></LocalCalculate>
  </CUPIDOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
EngineAddress	Specify the locating server IP	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set

	address, this column must configure with EnginePort			together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ReportInterval	Specify the interval for sending client list	N/A	Unsigned integer. Value range: 1 to 10. Default:1	N/A
UnassociateReportStatus	Specify the status of Unassociated measurement	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
UnassoMeasStatus	Specify the status of Unassociated measurement	N/A	Enumeration: • 1—enable(default) • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfGlobal

This table contains FingerPrint of Global protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrintOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
```

```
    <VendorPort></VendorPort>
    <RawFrameStatus></RawFrameStatus>
    <MuReportStatus></MuReportStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <MulticastAddress></MulticastAddress>
  </FingerPrintOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A.
EngineAddress	Specify the locating server port to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A

MuReprotStatus	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfGlobal

This table contains CommonConf of location protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConfOfGlobal>
    <ClientRateLimitStatus></ClientRateLimitStatus>
    <ClientRateLimitCir></ClientRateLimitCir>
    <ClientRateLimitCbs></ClientRateLimitCbs>
    <DilutionStatus></DilutionStatus>
    <DilutionFactor></DilutionFactor>
    <DilutionTimeout></DilutionTimeout>
    <IgnoreBeaconStatus></IgnoreBeaconStatus>
    <RateLimitStatus></RateLimitStatus>
    <RateLimitCir></RateLimitCir>
    <RateLimitCbs></RateLimitCbs>
    <RssiStatus></RssiStatus>
    <RssiThreshold></RssiThreshold>
    <IgnoreApFrameStatus></IgnoreApFrameStatus>
    <KeepAliveStatus></KeepAliveStatus>
  </CommonConfOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfGlobal
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientRateLimitStatus	Limit the rate for clients to send locating packets to AP	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRatelimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Dilution for locating packets	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout, this column must configure with DilutionFactor	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RatelimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Configure rssi-threadhold status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RssiThreshol	Specify the	N/A	Unsigned integer.	N/A

d	rssi-threadhold value		Value range: 5 to 100. Default:5.	
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/RadioConf

This table contains Radio related parameters information.

XML structure

```
<WLOC>
  <RadioConf>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConf
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer.	N/A

			Value range: 1 to 4.	
RadioStatus	Radio status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: • 2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: • 1—tag	N/A

WLOC/RadioConfOfApgroup

This table contains Radio of Apgroup related parameters information.

XML structure

```
<WLOC>
  <RadioConfOfApgroup>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>    </Radio>
  </RadioConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConfOfApgroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Configure an AP group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

ApModelName	Specify an AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ModeMu	Specify the type of Mu	N/A	Enumeration: • 0—disable(default) • 2—enable	N/A
ModeTag	Specify the type of Tag	N/A	Enumeration: • 0—disable(default) • 1—enable	N/A

WLOC/ModuleConf

This table contains Module of AP related parameters information.

XML structure

```
<WLOC>
  <ModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	Module status	N/A	Enumeration: • 1—enable • 2—disable	N/A
Type	Specify the Type of module	N/A	Enumeration: • 0—NotConfig • 1—BLE • 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/ModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <ModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	AP group module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
Type	Spicify the Type of module	N/A	Enumeration: • 0—NotConfig(default) • 1—BLE • 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4. Default:1.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A

WLOC/BLEModuleConf

This table contains Module of AP related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConf>
    <Module>
```

```
      <ApName></ApName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: • 1—enable • 2—disable	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A

	advertisement reports			
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/BLEModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	AP group module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000. Default:100.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default:1.	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default:1.	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/IOTConf

This table contains IOT server of AP related parameters information.

XML structure

```
<WLOC>
  <IOTConf>
    <AP>
      <ApName></ApName>
      <IOTAddress></IOTAddress>
```

```
      <IOTPort></IOTPort>
    </AP>
  </IOTConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConf
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

WLOC/IOTConfOfApgroup

This table contains IOT server of AP group related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <IOTAddress></IOTAddress>
      <IOTPort></IOTPort>
    </APGroup>
  </IOTConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

WLOC/IOTConfOfGlobal

This table contains IOT server of global related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfGlobal>
    <IOTAddress></IOTAddress>
    <IOTPort></IOTPort>
  </IOTConfOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfGlobal

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

Contents

WLOC 1

WLOC/AeroScout 1
XML structure 1
Table description 1
Columns 1
WLOC/BLE 2
XML structure 2
Table description 3
Columns 3
WLOC/CUPID 5
XML structure 5
Table description 5
Columns 6
WLOC/FingerPrint 7
XML structure 7
Table description 7
Columns 7
WLOC/CommonConf 8
XML structure 8
Table description 9
Columns 9
WLOC/AeroScoutOfApgroup 10
XML structure 10
Table description 11
Columns 11
WLOC/BLEOfApgroup 12
XML structure 12
Table description 13
Columns 13
WLOC/CUPIDOfApgroup 15
XML structure 15
Table description 15
Columns 15
WLOC/FingerPrintOfApgroup 16
XML structure 16
Table description 17
Columns 17
WLOC/CommonConfOfApgroup 18
XML structure 18
Table description 19
Columns 19
WLOC/AeroScoutOfGlobal 20
XML structure 20
Table description 20
Columns 21
WLOC/BLEOfGlobal 21
XML structure 21
Table description 22
Columns 22
WLOC/CUPIDOfGlobal 24
XML structure 24
Table description 24
Columns 24
WLOC/FingerPrintOfGlobal 25
XML structure 25
Table description 26
Columns 26

WLOC/CommonConfOfGlobal ····· 27
XML structure ····· 27
Table description ····· 27
Columns ····· 28
WLOC/RadioConf ····· 29
XML structure ····· 29
Table description ····· 29
Columns ····· 29
WLOC/RadioConfOfApgroup ····· 30
XML structure ····· 30
Table description ····· 30
Columns ····· 30
WLOC/ModuleConf ····· 31
XML structure ····· 31
Table description ····· 31
Columns ····· 31
WLOC/ModuleConfOfApgroup ····· 32
XML structure ····· 32
Table description ····· 32
Columns ····· 33
WLOC/BLEModuleConf ····· 33
XML structure ····· 33
Table description ····· 34
Columns ····· 34
WLOC/BLEModuleConfOfApgroup ····· 35
XML structure ····· 35
Table description ····· 35
Columns ····· 35
WLOC/ModuleInfo//暂时不做 ····· 36
XML structure ····· 36
Table description ····· 37
Columns ····· 37
WLOC/IOTConf ····· 38
XML structure ····· 38
Table description ····· 38
Columns ····· 39
WLOC/IOTConfOfApgroup ····· 39
XML structure ····· 39
Table description ····· 39
Columns ····· 40
WLOC/IOTConfOfGlobal ····· 40
XML structure ····· 40
Table description ····· 40
Columns ····· 40

WLOC

WLOC/AeroScout

This table contains AeroScout of AP protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScout>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </AP>
  </AeroScout>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScout
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: • 0—inherit • 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—disable	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 0—inherit • 2—V2 • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 0—inherit • 1—static • 2—dynamic	N/A
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 0—inherit • 1—absolute • 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLE

This table contains BLE of AP protocol related parameters information.

XML structure

```
<WLOC>
  <BLE>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
```

```
      <EnginePort></EnginePort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
    </AP>
  </BLE>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLE
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range:0 or 60 to 3600.	Zero means inherited.
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RssiThreshold	Specify the RSSI threshold value	N/A	Unsigned integer. Value range: 0 or 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
RealTimeReportEnginePort	Specify the locating server port to which the	N/A	Unsigned integer. Value range: .0 to 65535.	EngineAddress and EnginePort must set together.

Column name	Column description	Column type	Data type and restrictions	Remarks
	AP sends packets, this column must configure with EngineAddress			Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A

WLOC/CUPID

This table contains CUPID of AP protocol related parameters information.

XML structure

```
<WLOC>
  <CUPID>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </AP>
  </CUPID>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPID
Table type	Multi-instance table

Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
ReportStatus	Specify the stauts client list report	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 10.	Zero means inherited.
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A

WLOC/FingerPrint

This table contains FingerPrint of AP protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrint>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus><RawFrameStatus>
      <MuReportStatus></MuReportStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </AP>
  </FingerPrint>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrint
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 0—inherited • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. If it is 0, it means inherited
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConf

This table contains CommonConf of AP protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConf>
```

```
    <AP>
      <ApName></ApName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </AP>
  </CommonConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConf
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range:0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	dilution for locating packets		• 0—inherit • 1—enable • 2—disable	
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/AeroScoutOfApgroup

This table contains AeroScout of APGroup protocol related parameters information.

XML structure

```
<WLOC>
```

```
  <AeroScoutOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <VersionID></VersinID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </APGroup>
  </AeroScoutOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 0—inherit • 2—V2 • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 0—inherit • 1—static • 2—dynamic	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 0—inherit • 1—absolute • 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
MulticastAddr ess	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfApgroup

This table contains Ble of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <BLEOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
```

```
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
    </APGroup>
  </BLEOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 0 or 60 to 3600.	Zero means inherited.
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the stauts of neighbor list report	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 86400.	Zero means inherited.
RssiThresholdStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 0—inherit • 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—disable	
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 0 or 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A

WLOC/CUPIDOfApgroup

This table contains CUPID of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <CUPIDOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </APGroup>
  </CUPIDOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupNam e	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
EngineAddre	Specify the	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set

Column name	Column description	Column type	Data type and restrictions	Remarks
ss	locating server IP address			together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
ReportStatus	Specify the status of client list report	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 10.	Zero means inherited.
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfApgroup

This table contains FingerPrint of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrintOfApgroup>
```

```
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus><RawFrameStatus>
      <MuReportStatus></MuReportStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </APGroup>
  </FingerPrintOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.

Column name	Column description	Column type	Data type and restrictions	Remarks
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfApgroup

This table contains CommonConf of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </APGroup>
  </CommonConfOfApgroup>
```

```
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 0—inherited • 1—enable • 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/AeroScoutOfGlobal

This table contains AeroScout of Global protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScoutOfGlobal>
    <Status></Status>
    <VersionID></VersionID>
    <EngineDetectionMode></EngineDetectionMode>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <TimeStamp></TimeStamp>
    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </AeroScoutOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC

Table name	AeroScoutOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 2—V2 • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 1—static • 2—dynamic	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 1—absolute • 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
MulticastAddress	MACAddress of tag multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfGlobal

This table contains BLE of Global protocol related parameters information.

XML structure

```
<WLOC>
```

```
  <BLEOfGlobal>
    <Status></Status>
    <AgingTime></AgingTime>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <RssiThresholdStatus></RssiThresholdStatus>
    <RssiThreshold></RssiThreshold>
    <VendorPort></VendorPort>
    <CmdPasswdSimple></CmdPasswdSimple>
    <CmdPasswdCipher></CmdPasswdCipher>
    <RealTimeReportStatus></RealTimeReportStatus>
    <RealTimeReportPrefix></RealTimeReportPrefix>
    <RealTimeReportInterval></RealTimeReportInterval>
    <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
    <RealTimeReportEnginePort></RealTimeReportEnginePort>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
  </BLEOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the BLE protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer Value range: 60 to 3600.	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server	N/A	Unsigned integer.	EngineAddress and EnginePort must set

Column name	Column description	Column type	Data type and restrictions	Remarks
	port to which the AP sends packets		Value range: 1 to 65535.	together.
ReportStatus	Specify the stauts of neighbor list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example:1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/CUPIDOfGlobal

This table contains CUPID of Global protocol related parameters information.

XML structure

```
<WLOC>
  <CUPIDOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <UnassociateReportStatus></UnassociateReportStatus>
    <UnassoMeasStatus></UnassoMeasStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <LocalCalculate></LocalCalculate>
  </CUPIDOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	through the Cupid protocol		• 1—enable • 2—disable	
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ReportStatus	Specify the stauts of client list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfGlobal

This table contains FingerPrint of Global protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrintOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
```

```
    <VendorPort></VendorPort>
    <RawFrameStatus><RawFrameStatus>
    <MuReportStatus></MuReportStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <MulticastAddress></MulticastAddress>
  </FingerPrintOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: • 1—enable • 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 1—enable • 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddr ess	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfGlobal

This table contains CommonConf of Global protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConfOfGlobal>
    <ClientRateLimitStatus></ClientRateLimitStatus>
    <ClientRateLimitCir></ClientRateLimitCir>
    <ClientRateLimitCbs></ClientRateLimitCbs>
    <DilutionStatus></DilutionStatus>
    <DilutionFactor></DilutionFactor>
    <DilutionTimeout></DilutionTimeout>
    <IgnoreBeaconStatus></IgnoreBeaconStatus>
    <RateLimitStatus></RateLimitStatus>
    <RateLimitCir></RateLimitCir>
    <RateLimitCbs></RateLimitCbs>
    <RssiStatus></RssiStatus>
    <RssiThreshold></RssiThreshold>
    <IgnoreApFrameStatus></IgnoreApFrameStatus>
    <KeepAliveStatus></KeepAliveStatus>
  </CommonConfOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 1—enable • 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Specify the Rssi-Threadhold status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 5 to 100.	N/A
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/RadioConf

This table contains Radio related parameters information.

XML structure

```
<WLOC>
  <RadioConf>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConf
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: • 0—inherited • 1—enable • 2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: • 0—inherited • 2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: • 0—inherited • 1—tag	N/A

WLOC/RadioConfOfApgroup

This table contains Radio of Apgroup related parameters information.

XML structure

```
<WLOC>
  <RadioConfOfApgroup>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConfOfApgroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Configure an AP group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ApModelName	Specify an AP model and enter AP model view	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: • 0—disable • 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeMu	Locate all 802.11 clients	N/A	Enumeration: • 0—disable • 2—enable	N/A

WLOC/ModuleConf

This table contains Module of AP related parameters information.

XML structure

```
<WLOC>
  <ModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: • 0—inherited • 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—disable	
Type	Specify a module type	N/A	Enumeration: • 0—inherited • 1—BLE • 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:0 to 4.	If it is 0, it means inherited
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: • 0—inherited • 1—enable • 2—disable	N/A

WLOC/ModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <ModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: • 1—enable • 2—disable	N/A
Type	Specify a module type	N/A	Enumeration: • 0—NotConfig • 1—BLE • 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/BLEModuleConf

This table contains Module of AP related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: • 0—inherited • 1—enable • 2—disable	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 0 or 50 to 1000.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. 4294967295	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. 4294967295	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/BLEModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: • 1—enable • 2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/ModuleInfo//暂时不做

This table contains Module status of AP related parameters information.

XML structure

```
<WLOC>
  <ModuleInfo>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleAdminType></ModuleAdminType>
      <ModuleType></ModuleType>
      <ModuleChipType></ModuleChipType>
      <HWVersion></HWVersion>
      <SWVersion></SWVersion>
      <SequenceID></SequenceID>
      <ModuleStatus></ModuleStatus>
      <ModuleAdminStatus></ModuleAdminStatus>
      <RF1Status></RF1Status>
      <RF2Status></RF2Ststus>
      <RF3Status></RF3Status>
      <ZIGBEEStatus></ZIGBEEStatus>
```

```
    </Module>
  </ModuleInfo>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleInfo
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleAdminType	Module administrate type	N/A	Enumeration: • 0—NotConfig • 1—BLE • 2—IOT	N/A
ModuleType	Module physical Type	N/A	Enumeration: • 0—N/A • 1—H3C • 2—IOT	N/A
ModuleChipType	Module Chip Type	N/A	Enumeration: • 0—N/A • 1—BLE • 2—RFID • 3—ZIGBEE	N/A
HWVersion	HardWare Version	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SWVersion	SoftWare Version	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SequenceID	Sequence ID	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ModuleStatus	Module Status	N/A	Enumeration: • 0—unavailable • 1—norma • 2—absent	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleAdminStatus	Module Admin Status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RF1Status	RF1 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supportted.
RF2Status	RF2 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supportted.
RF3Status	RF3 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supportted.
ZIGBEEStatus	ZIGBEE Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supportted.

WLOC/IOTConf

This table contains IOT server of AP related parameters information.

XML structure

```
<WLOC>
  <IOTConf>
    <AP>
      <ApName></ApName>
      <IOTAddress></IOTAddress>
      <IOTPort></IOTPort>
    </AP>
  </IOTConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConf
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

WLOC/IOTConfOfApgroup

This table contains IOT server of AP group related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <IOTAddress></IOTAddress>
      <IOTPort></IOTPort>
    </APGroup>
  </IOTConfOfApgroup >
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

WLOC/IOTConfOfGlobal

This table contains IOT server of global related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfGlobal>
    <IOTAddress></IOTAddress>
    <IOTPort></IOTPort>
  </IOTConfOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

Contents

Wrdc 1
Wrdc/GlobalCfg 1
XMLstructure 1
Table description 1
Columns 1
Wrdc/IPControlAccesss 2
XMLstructure 2
Table description 2
Columns 3
Wrdc/IP6ControlAccesss 3
XMLstructure 3
Table description 3
Columns 3
Wrdc/AddressSecurityBlacklists 4
XMLstructure 4
Table description 4
Columns 4

Wrdc

Wrdc/GlobalCfg

This table contains the global configuration for WRDC.

XMLstructure

```
<Wrdc>
  <GlobalCfg>
    <EnableStatus></EnableStatus>
    <Port></Port>
    <ResponseTimeout></ResponseTimeout>
    <Retry></Retry>
    <Ipv4CacheAgingTime></Ipv4CacheAgingTime>
    <Ipv6CacheAgingTime></Ipv6CacheAgingTime>
  </GlobalCfg>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableStatus	Whether the WLAN roaming center feature is enabled.	N/A	Boolean: • true • false Default: false	N/A
Port	Port for communicatio n with the portal access device.	N/A	Unsigned integer. Value range: 1 to 65534.	N/A
ResponseTimeo	Packets response	N/A	Unsigned integer. Value range:1 to 10, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ut	timeout.		seconds. Default:3	
Retry	Maximum number of packet retransmission attempts.	N/A	Unsigned integer. Value range:1 to 10. Default:5	N/A
Ipv4CacheAgingTime	Aging time of IPv4 address security entries.		Unsigned integer. Value range:600 to 86400. Default: 14400	N/A
Ipv6CacheAgingTime	Aging time of IPv6 address security entries.		Unsigned integer. Value range:600 to 1296000. Default: 604800	N/A

Wrdc/IPControlAccesss

This table contains the IP access control configuration for WRDC.

XMLstructure

```
<Wrdc>
  <IPControlAccesss>
    <IPControlAccess>
      <IPAddress></IPAddress>
    </IPControlAccess>
  </IPControlAccesss>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	IPControlAccesss
Table type	Multi-instance table
Row name	IPControlAccess
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of a portal access device permitted by the WLAN roaming center.	Index	IPv4: String, dotted decimal notation.	N/A

Wrdc/IP6ControlAccesss

XMLstructure

```
<Wrdc>
  <IP6ControlAccesss>
    <IP6ControlAccess>
      <IPAddress></IPAddress>
    </IP6ControlAccess>
  </IP6ControlAccesss>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	IP6ControlAccesss
Table type	Multi-instance table
Row name	IP6ControlAccess
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IPv6 address of a portal access device permitted by the WLAN roaming center.	Index	IPv6: Hexadecimal string, colon-separated.	N/A

Wrdc/AddressSecurityBlacklists

XMLstructure

```
<Wrdc>
  <AddressSecurityBlacklists>
    <AddressSecurityBlacklist>
      <Username></Username>
    </AddressSecurityBlacklist>
  </AddressSecurityBlacklists>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	AddressSecurityBlacklists
Table type	Multi-instance table
Row name	AddressSecurityBlacklist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`Username`	Username of the spoofing attack device.	Index	String,the length is 1 to 55. The username cannot contain special characters “\”,”|”,”/”,”:”,”*”,”?”,”<”,”>”,”@” and cannot be a, al, or all.	N/A

Contents

Wrdc 1
Wrdc/GlobalCfg 1
XML structure 1
Table description 1
Columns 1
Wrdc/IPControlAccesss 2
XML structure 2
Table description 2
Columns 2
Wrdc/IP6ControlAccesss 3
XML structure 3
Table description 3
Columns 3
Wrdc/RoamingUsers 3
XML structure 3
Table description 4
Columns 4
Wrdc/RoamingTracks 6
XML structure 6
Table description 6
Columns 6
Wrdc/AddressSecurityBlacklists 7
XML structure 7
Table description 7
Columns 7

Wrdc

Wrdc/GlobalCfg

XML structure

```
<Wrdc>
  <GlobalCfg>
    <EnableStatus></EnableStatus>
    <Port></Port>
    <ResponseTimeout></ResponseTimeout>
    <Retry></Retry>
    <Ipv4CacheAgingTime></Ipv4CacheAgingTime>
    <Ipv6CacheAgingTime></Ipv6CacheAgingTime>
  </GlobalCfg>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableStatus	Whether the WLAN roaming center feature is enabled.	N/A	Boolean: • true • false	N/A
Port	Port for communication with the portal access.	N/A	Unsigned integer. Value range: 1 to 65534.	N/A
ResponseTimeout	Packets response timeout.	N/A	Unsigned integer. Value range:1 to 10, in seconds.	N/A
Retry	Maximum number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet retransmission attempts.		Value range:1 to 10.	
Ipv4CacheAgingTime	Aging time of IPv4 address security entries.		Unsigned integer. Value range: 600 to 86400.	N/A
Ipv6CacheAgingTime	Aging time of IPv6 address security entries.		Unsigned integer. Value range: 600 to 1296000.	N/A

Wrdc/IPControlAccesss

XML structure

```
<Wrdc>
  <IPControlAccesss>
    <IPControlAccess>
      <IPAddress></IPAddress>
    </IPControlAccess>
  </IPControlAccesss>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	IPControlAccesss
Table type	Multi-instance table
Row name	IPControlAccess
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of a portal access device permitted by the WLAN roaming center.	Index	IPv4: String, dotted decimal notation.	N/A

Wrdc/IP6ControlAccesss

XML structure

```
<Wrdc>
  <IP6ControlAccesss>
    <IP6ControlAccess>
      <IPAddress></IPAddress>
    </IP6ControlAccess>
  </IP6ControlAccesss>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	IP6ControlAccesss
Table type	Multi-instance table
Row name	IP6ControlAccess
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of a portal access device permitted by the WLAN roaming center.	Index	IPv6: Hexadecimal string, colon-separated.	N/A

Wrdc/RoamingUsers

XML structure

```
<Wrdc>
  <RoamingUsers>
    <RoamingUser>
      <MacAddress></MacAddress>
      <IPAddress></IPAddress>
      <UserName></UserName>
      <AuthorizationInfo>
        <UserProfile></UserProfile>
        <ACLInfo></ACLInfo>
```

```
        <InboundCAR>
          <CIR></CIR>
          <PIR></PIR>
        </InboundCAR>
        <OutboundCAR>
          <CIR></CIR>
          <PIR></PIR>
        </OutboundCAR>
        <SessionTimeout></SessionTimeout>
        <IdleTime></IdleTime>
        <IdleFlow></IdleFlow>
      </AuthorizationInfo>
      <FirstOnlineBasIP></FirstOnlineBasIP>
      <FirstOnlineTime></FirstOnlineTime>
      <RoamingCount></RoamingCount>
    </RoamingUser>
  </RoamingUsers>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	RoamingUsers
Table type	Multi-instance table
Row name	RoamingUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address of the user.	Index	MAC address in the HHHH-HHHH-HHHH format.	N/A
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
UserName	User name.	N/A	String. Length: 1 to 253 characters.	N/A
AuthorizationInfo	Authorization info of the user.	Data structure	Members include: ● UserProfile ● ACLInfo ● InboundCAR	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			● OutboundCAR ● SessionTimeout ● IdleTime ● IdleFlow	
UserProfile	Authorization user profile info.	N/A	String. Length: 1 to 31 characters.	N/A
ACLInfo	Authorization acl info.	N/A	String, Length: 1 to 63 characters.	N/A
InboundCAR	Authorization inbound car info.	Data structure	Members include: ● CIR ● PIR	N/A
CIR	Average rate.	N/A	Unsigned integer.	N/A
PIR	Peak rate.	N/A	Unsigned integer.	N/A
OutboundCAR	Authorization outbound car info.	Data structure	Members include: ● CIR ● PIR	N/A
CIR	Average rate.	N/A	Unsigned integer.	N/A
PIR	Peak rate.	N/A	Unsigned integer.	N/A
SessionTimeout	The time of authorization session timeout.	N/A	Unsigned integer.	N/A
IdleTime	The time of authorization Idle timeout.	N/A	Unsigned integer.	N/A
IdleFlow	The minimum traffic that must be generated in the idle timeout period.	N/A	Unsigned integer.	N/A
FirstOnlineBasIP	First device ipaddress when user online.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
FirstOnlineTime	First time when user online.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
RoamingCount	Count of user roaming.	N/A	Unsigned integer.	N/A

Wrdc/RoamingTracks

XML structure

```
<Wrdc>
  <RoamingTracks>
    <RoamingTrack>
      <MacAddress></MacAddress>
      <IPAddress></IPAddress>
      <RoamingInTime></RoamingInTime>
      <RoamingInBASIPAddress></RoamingInBASIPAddress>
    </RoamingTrack>
  </RoamingTracks>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	RoamingTracks
Table type	Multi-instance table
Row name	RoamingTrack
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address of the user.	Index	MAC address in the HHHH-HHHH-HHHH format.	N/A
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
RoamingInTime	Roaming-in time of the user.	Index	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
RoamingInBASIPAddress	IP address of the device which the user roamed.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A

Wrdc/AddressSecurityBlacklists

XML structure

```
<Wrdc>
  <AddressSecurityBlacklists>
    <AddressSecurityBlacklist>
      <Username></Username>
    </AddressSecurityBlacklist>
  </AddressSecurityBlacklists>
</Wrdc>
```

Table description

Item	Description
Feature name	Wrdc
Table name	AddressSecurityBlacklists
Table type	Multi-instance table
Row name	AddressSecurityBlacklist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
`Username`	Username of the spoofing attack device.	Index	String,the length is 1 to 55. The username cannot contain special characters “\”,”|”,”/”,”:”,”*”,”?”,”<”,”>”,”@” and cannot be a, al, or all.	N/A

Contents

WRED 1

WRED/Tables 1
XML structure 1
Table description 1
Columns 1
WRED/DropParameter 1
XML structure 1
Table description 2
Columns 2
WRED/QueueParameter 2
XML structure 3
Table description 3
Columns 3
WRED/IfApplyTable 3
XML structure 4
Table description 4
Columns 4
WRED/IfQueueWreds 4
XML structure 4
Table description 5
Columns 5
WRED/IfQueueWreds/IfQueueWred/DropParameters 6
XML structure 6
Table description 6
Columns 6
WRED/GlobalEnable 7
XML structure 7
Table description 7
Columns 7
WRED/Global 8
XML structure 8
Table description 8
Columns 8
WRED/QueueProfiles 8
XML structure 8
Table description 9
Columns 9
WRED/QueueProfiles/QueueProfile/DropParameters 10
XML structure 10
Table description 10
Columns 10
WRED/IfApplyProfile 11
XML structure 11
Table description 11
Columns 11
WRED/FabricGlbApplyTable 12
XML structure 12
Table description 12
Columns 12
WRED/FabricSlotApplyTable 12
XML structure 12
Table description 13
Columns 13
WRED/AIIfQueueWreds 13
XML structure 14
Table description 14
Columns 14

WRED/AIIfQueueWreds/IfQueueWred/DropParameters 15
XML structure 15
Table description 15
Columns 15
WRED/AIECN 16
XML structure 16
Table description 16
Columns 17

WRED

WRED/Tables

This table contains information about WRED tables.

XML structure

```
<WRED>
  <Tables>
    <Table>
      <Name></Name>
    </Table>
  </Tables>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	Tables
Table type	Multi-instance table
Row name	Table
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A

WRED/DropParameter

This table contains information about WRED drop parameters.

XML structure

```
<WRED>
  <DropParameter>
    <Parameter>
```

```
      <Name></Name>
      <QueueID></QueueID>
      <DropLevel></DropLevel>
      <LowLimit></LowLimit>
      <HighLimit></HighLimit>
      <DiscardProbability></DiscardProbability>
    </Parameter>
  </DropParameter>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	DropParameter
Table type	Multi-instance table
Row name	Parameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
DropLevel	Packet drop level	Index	Unsigned integer.	The value range for this column varies by device model.
LowLimit	Queue length low limit	N/A	Unsigned integer.	The value range for this column varies by device model.
HighLimit	Queue length high limit	N/A	Unsigned integer.	The value range for this column varies by device model.
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	The value range for this column varies by device model.

WRED/QueueParameter

This table contains information about WRED queue parameters.

XML structure

```
<WRED>
  <QueueParameter>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
    </Queue>
  </QueueParameter>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	QueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	The value range for this column varies by device model.
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

WRED/IfApplyTable

This table contains information about WRED table applications.

XML structure

```
<WRED>
  <IfApplyTable>
    <Table>
      <IfIndex></IfIndex>
      <Name></Name>
    </Table>
  </IfApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfApplyTable
Table type	Multi-instance table
Row name	Table
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A

WRED/IfQueueWreds

This table contains information about WRED queue applications.

XML structure

```
<WRED>
  <IfQueueWreds>
    <IfQueueWred>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
```

```
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
    </IfQueueWred>
  </IfQueueWreds>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfQueueWreds
Table type	Multi-instance table
Row name	IfQueueWred
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
DropParameters	DropParameters tables	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	The value range for this column varies by device model.
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **false**—Disable.	

WRED/IfQueueWreds/IfQueueWred/DropParameters

This table contains information about WRED queue drop parameters applications.

XML structure

Please refer to the XML structure of wred/IfQueueWreds.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table
Row name	DropParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
DropLevel	Packet drop level	Index	Unsigned integer.	The value range for this column varies by device model.
LowLimit	Queue length low limit	N/A	Unsigned integer.	The value range for this column varies by device model.
HighLimit	Queue length high limit	N/A	Unsigned integer.	The value range for this column varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	The value range for this column varies by device model.
LimitUnit	Threshold unit	N/A	Unsigned integer.	The value range for this column varies by device model.

WRED/GlobalEnable

This table contains information about WRED global queue applications.

XML structure

```
<WRED>
  <GlobalEnable>
    <Queue>
      <QueueID></QueueID>
      <SmartECN></SmartECN>
    </Queue>
  </GlobalEnable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	GlobalEnable
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
SmartECN	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

WRED/Global

This table contains information about WRED global applications.

XML structure

```
<WRED>
  <GlobalCfg>
      <SmartECN></SmartECN>
      <ECN></ECN>
  </GlobalCfg>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartECN	Enable smart explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A
ECN	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

WRED/QueueProfiles

This table contains information about WRED queue profiles.

XML structure

```
<WRED>
  <QueueProfiles>
```

```
    <QueueProfile>
      <ProfileName></ProfileName>
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
      <QueueLength></QueueLength>
    </QueueProfile>
  </QueueProfiles>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	QueueProfiles
Table type	Multi-instance table
Row name	QueueProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Per-queue WRED profile name	Index	String. Length: 1 to 32 characters.	N/A
DropParameters	Drop parameters	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	WRED exponent for average queue size calculation	N/A	Unsigned integer.	The value range for this column varies by device model.
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	The value range for this

Column name	Column description	Column type	Data type and restrictions	Remarks
				column varies by device model.

WRED/QueueProfiles/QueueProfile/DropParameters

This table contains information about drop parameters for a per-queue WRED profile.

XML structure

Please refer to the XML structure of wred/QueueProfiles.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table
Row name	DropParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Per-queue WRED profile name	Index	String. Length: 1 to 32 characters.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	The value range for this column varies by device model.
LowLimit	Lower limit for the average queue length	N/A	Unsigned integer.	The value range for this column varies by device model.
HighLimit	Upper limit for the average queue length	N/A	Unsigned integer.	The value range for this column varies by device model.
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	The value range for this column varies by device model.
LimitUnit	Threshold unit	N/A	Enumeration: • **1**—Absolute.	The value range for this column varies by device

Column name	Column description	Column type	Data type and restrictions	Remarks
			• **2**—Percent.	model.

WRED/IfApplyProfile

This table contains information about WRED profile applications.

XML structure

```
<WRED>
  <IfApplyProfile>
    <Profile>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <Name></Name>
      <IfName></IfName>
    </Profile>
  </IfApplyProfile>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfApplyProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
Name	Per-queue	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	WRED profile name		Length: 1 to 32 characters.	

WRED/FabricGlbApplyTable

This table contains information about the WRED table applied globally.

XML structure

```
<WRED>
  <FabricGlbApplyTable>
    <Table>
      <Name></Name>
    </Table>
  </FabricGlbApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	FabricGlbApplyTable
Table type	Single-instance table
Row name	Table
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A

WRED/FabricSlotApplyTable

This table contains information about the WRED table applied to a slot.

XML structure

```
<WRED>
  <FabricSlotApplyTable>
```

```
    <Table>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Direction></Direction>
      <Name></Name>
    </Table>
  </FabricSlotApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	FabricSlotApplyTable
Table type	Multi-instance table
Row name	Table
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device	Index	Format: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPU ID	Index	Unsigned integer.	N/A
Direction	Application direction.	Index	Enumeration: • **0**—to-switch-fabric. • **1—**from-switch-fabric.	N/A
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A

WRED/AIIfQueueWreds

This table contains information about WRED AI-ECN queue applications.

XML structure

```
<WRED>
  <AIIfQueueWreds>
    <IfQueueWred>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
    </IfQueueWred>
  </AIIfQueueWreds>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	AIIfQueueWreds
Table type	Multi-instance table
Row name	IfQueueWred
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
DropParameters	Drop parameter table	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	The value range for this column varies by device model.
Ecn	Enable explicit congestion notification	N/A	Boolean: **true**—Enable. **false**—Disable.	N/A

WRED/AIIfQueueWreds/IfQueueWred/DropParameters

This table contains information about WRED queue drop parameters.

XML structure

Please refer to the XML structure of wred/AIIfQueueWreds.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table
Row name	DropParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
DropLevel	Packet drop level	Index	Unsigned integer.	The value range for this column varies by device model.
LowLimit	Queue length low limit	N/A	Unsigned integer.	The value range for this column varies by device model.
HighLimit	Queue length high limit	N/A	Unsigned integer.	The value range for this column varies by device model.
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	The value range for this column varies by device model.
LimitUnit	Threshold unit	N/A	Unsigned integer.	The value range for this column varies by device model.

WRED/AIECN

This table contains information about WRED AI-ECN parameters.

XML structure

```
<WRED>
    <AIECN>
      <AIMode></AIMode>
      <Queue0></Queue0>
      <Queue1></Queue1>
      <Queue2></Queue2>
      <Queue3></Queue3>
      <Queue4></Queue4>
      <Queue5></Queue5>
      <Queue6></Queue6>
      <Queue7></Queue7>
    </AIECN>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	AIECN
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AIMode	AI ECN mode	N/A	Enumeration: centralized. distributed. neural.	N/A
Queue0	Enable queue 0 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue1	Enable queue 1 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue2	Enable queue 2 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue3	Enable queue 3 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue4	Enable queue 4 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue5	Enable queue 5 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue6	Enable queue 6 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A
Queue7	Enable queue 7 AI ECN	N/A	Boolean: **true**—Enable. **false**—Disable (default).	N/A

Contents

WRED 1

WRED/DefDropParameter 1
XML structure 1
Table description 1
Columns 1
WRED/DefWeightingConstant 2
XML structure 2
Table description 2
Columns 2
WRED/Tables 2
XML structure 2
Table description 3
Columns 3
WRED/DropParameter 3
XML structure 3
Table description 3
Columns 4
WRED/QueueParameter 4
XML structure 4
Table description 4
Columns 5
WRED/IfApplyTable 5
XML structure 5
Table description 5
Columns 6
WRED/IfQueueWreds 6
XML structure 6
Table description 7
Columns 7
WRED/IfQueueWreds/IfQueueWred/DropParameters 7
XML structure 7
Table description 8
Columns 8
WRED/GlobalEnable 8
XML structure 8
Table description 9
Columns 9
WRED/Global 9
XML structure 9
Table description 9
Columns 10
WRED/QueueProfiles 10
XML structure 10
Table description 11
Columns 11
WRED/QueueProfiles/QueueProfile/DropParameters 11
XML structure 11
Table description 11
Columns 12
WRED/IfApplyProfile 12
XML structure 12
Table description 12
Columns 13
WRED/FabricGlbApplyTable 13
XML structure 13
Table description 13
Columns 14

WRED/FabricSlotApplyTable 14
XML structure 14
Table description 14
Columns 14
WRED/AIIfQueueWreds 15
XML structure 15
Table description 15
Columns 16
WRED/AIIfQueueWreds/IfQueueWred/DropParameters 16
XML structure 16
Table description 16
Columns 17
WRED/AIECN 17
XML structure 17
Table description 18
Columns 18

WRED

WRED/DefDropParameter

This table contains information about default WRED drop parameters.

XML structure

```
<WRED>
  <DefDropParameter>
    <Parameter>
      <QueueID></QueueID>
      <DropLevel></DropLevel>
      <LowLimit></LowLimit>
      <HighLimit></HighLimit>
      <DiscardProbability></DiscardProbability>
    </Parameter>
  </DefDropParameter>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	DefDropParameter
Table type	Multi-instance table
Row name	Parameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueID	Queue ID	Index	Unsigned integer.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	N/A
LowLimit	Queue length low limit	N/A	Unsigned integer.	N/A
HighLimit	Queue length high limit	N/A	Unsigned integer.	N/A
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	N/A

WRED/DefWeightingConstant

This table contains information about the default WRED weighting constant parameter.

XML structure

```
<WRED>
  <DefWeightingConstant>
    <Queue>
      <QueueID></QueueID>
      <WeightingConstant></WeightingConstant>
    </Queue>
  </DefWeightingConstant>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	DefWeightingConstant
Table type	Multi-instance table
Row name	Queue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueID	Queue ID	Index	Unsigned integer.	N/A
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	N/A

WRED/Tables

This table contains information about WRED tables.

XML structure

```
<WRED>
  <Tables>
    <Table>
      <Name></Name>
```

```
    </Table>
  </Tables>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	Tables
Table type	Multi-instance table
Row name	Table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A

WRED/DropParameter

This table contains information about WRED drop parameters.

XML structure

```
<WRED>
  <DropParameter>
    <Parameter>
      <Name></Name>
      <QueueID></QueueID>
      <DropLevel></DropLevel>
      <LowLimit></LowLimit>
      <HighLimit></HighLimit>
      <DiscardProbability></DiscardProbability>
    </Parameter>
  </DropParameter>
</WRED>
```

Table description

Item	Description
Feature name	WRED

Table name	DropParameter
Table type	Multi-instance table
Row name	Parameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	N/A
LowLimit	Queue length low limit	N/A	Unsigned integer.	N/A
HighLimit	Queue length high limit	N/A	Unsigned integer.	N/A
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	N/A

WRED/QueueParameter

This table contains information about WRED queue parameters.

XML structure

```
<WRED>
  <QueueParameter>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
    </Queue>
  </QueueParameter>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	QueueParameter

Table type	Multi-instance table
Row name	Queue
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	Index	String. Length: 1 to 32 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer.	N/A
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	N/A
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

WRED/IfApplyTable

This table contains information about WRED table applications.

XML structure

```
<WRED>
  <IfApplyTable>
    <Table>
      <IfIndex></IfIndex>
      <Name></Name>
      <IfName></IfName>
    </Table>
  </IfApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfApplyTable
Table type	Multi-instance table
Row name	Table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A
`IfName`	Interface name	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

WRED/IfQueueWreds

This table contains information about WRED queue applications.

XML structure

```
<WRED>
  <IfQueueWreds>
    <IfQueueWred>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
      <IfName></IfName>
    </IfQueueWred>
  </IfQueueWreds>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfQueueWreds
Table type	Multi-instance table
Row name	IfQueueWred
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	N/A
DropParameters	DropParameters tables	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	N/A
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
`IfName`	Interface name	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

WRED/IfQueueWreds/IfQueueWred/DropParameters

This table contains information about WRED queue drop parameters applications.

XML structure

Please refer to the XML structure of wred/IfQueueWreds.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table
Row name	DropParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	N/A
LowLimit	Queue length low limit	N/A	Unsigned integer.	N/A
HighLimit	Queue length high limit	N/A	Unsigned integer.	N/A
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	N/A
LimitUnit	Threshold unit	N/A	Unsigned integer.	N/A

WRED/GlobalEnable

This table contains information about WRED global queue applications.

XML structure

```
<WRED>
  <GlobalEnable>
    <Queue>
      <QueueID></QueueID>
      <SmartECN></SmartECN>
    </Queue>
```

```
  </GlobalEnable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	GlobalEnable
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column depends on the device model.
SmartECN	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

WRED/Global

This table contains information about WRED global applications.

XML structure

```
<WRED>
  <GlobalCfg>
      <SmartECN></SmartECN>
      <ECN></ECN>
  </GlobalCfg>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	GlobalCfg
Table type	Single-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartECN	Enable smart explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A
ECN	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable (default).	N/A

WRED/QueueProfiles

This table contains information about per-queue WRED profiles.

XML structure

```
<WRED>
  <QueueProfiles>
    <QueueProfile>
      <ProfileName></ProfileName>
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
      <QueueLength></QueueLength>
    </QueueProfile>
  </QueueProfiles>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	QueueProfiles
Table type	Multi-instance table
Row name	QueueProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Per-queue WRED profile name	Index	String. Length: 1 to 32 characters.	N/A
DropParameters	Drop parameters	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	WRED exponent for average queue size calculation	N/A	Unsigned integer.	N/A
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
QueueLength	Queue length	N/A	Unsigned integer.	N/A

WRED/QueueProfiles/QueueProfile/DropParameters

This table contains information about drop parameters for a per-queue WRED profile.

XML structure

Please refer to the XML structure of wred/QueueProfiles.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table

Row name	DropParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Per-queue WRED profile name	Index	String. Length: 1 to 32 characters.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	N/A
LowLimit	Lower limit for the average queue length	N/A	Unsigned integer.	N/A
HighLimit	Upper limit for the average queue length	N/A	Unsigned integer.	N/A
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	N/A
LimitUnit	Threshold unit	N/A	Enumeration: • **1**—Absolute. • **2**—Percent.	N/A

WRED/IfApplyProfile

This table contains information about per-queue WRED profile application information.

XML structure

```
<WRED>
  <IfApplyProfile>
    <Profile>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <Name></Name>
      <IfName></IfName>
    </Profile>
  </IfApplyProfile>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	IfApplyProfile

Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	N/A
Name	Per-queue WRED profile name	N/A	String. Length: 1 to 32 characters.	N/A
`IfName`	Interface name	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	N/A

WRED/FabricGlbApplyTable

This table contains information about the WRED table applied globally.

XML structure

```
<WRED>
  <FabricGlbApplyTable>
    <Table>
      <Name></Name>
    </Table>
  </FabricGlbApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	FabricGlbApplyTable
Table type	Single-instance table
Row name	Table

Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A

WRED/FabricSlotApplyTable

This table contains information about the WRED table applied to a slot.

XML structure

```
<WRED>
  <FabricSlotApplyTable>
    <Table>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Direction></Direction>
      <Name></Name>
    </Table>
  </FabricSlotApplyTable>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	FabricSlotApplyTable
Table type	Multi-instance table
Row name	Table
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device	Index	Format: Chassis. Slot.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			CPUID	
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPU ID	Index	Unsigned integer.	N/A
Direction	Application direction.	Index	Enumeration: • **0**—to-switch-fabric. • **1—**from-switch-fabric.	N/A
Name	WRED table name	N/A	String. Length: 1 to 32 characters.	N/A

WRED/AIIfQueueWreds

This table contains information about WRED AI-ECN queue applications.

XML structure

```
<WRED>
  <AIIfQueueWreds>
    <IfQueueWred>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <DropParameters>
        <DropParameter>
          <DropLevel></DropLevel>
          <LowLimit></LowLimit>
          <HighLimit></HighLimit>
          <DiscardProbability></DiscardProbability>
          <LimitUnit></LimitUnit>
        </DropParameter>
      </DropParameters>
      <WeightingConstant></WeightingConstant>
      <Ecn></Ecn>
      <IfName></IfName>
    </IfQueueWred>
  </AIIfQueueWreds>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	AIIfQueueWreds
Table type	Multi-instance table

Row name	IfQueueWred
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	The value range for this column varies by device model.
DropParameters	Drop parameter table	Sublist	N/A	For more information, see the DropParameters table.
WeightingConstant	Queue length weighting constant	N/A	Unsigned integer.	The value range for this column varies by device model.
Ecn	Enable explicit congestion notification	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
IfName	Interface name	N/A	String. Length: 1 to 47 characters.	N/A

WRED/AIIfQueueWreds/IfQueueWred/DropParameters

This table contains information about WRED queue drop parameters.

XML structure

Please refer to the XML structure of wred/AIIfQueueWreds.

Table description

Item	Description
Feature name	WRED
Table name	DropParameters
Table type	Multi-instance table

Row name	DropParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
QueueID	Queue ID	Index	Unsigned integer.	N/A
DropLevel	Packet drop level	Index	Unsigned integer.	N/A
LowLimit	Queue length low limit	N/A	Unsigned integer.	N/A
HighLimit	Queue length high limit	N/A	Unsigned integer.	N/A
DiscardProbability	Packet discard probability	N/A	Unsigned integer.	N/A
LimitUnit	Threshold unit	N/A	Unsigned integer.	N/A

WRED/AIECN

This table contains information about WRED AI-ECN parameters.

XML structure

```
<WRED>
    <AIECN>
      <AIMode></AIMode>
      <Queue0></Queue0>
      <Queue1></Queue1>
      <Queue2></Queue2>
      <Queue3></Queue3>
      <Queue4></Queue4>
      <Queue5></Queue5>
      <Queue6></Queue6>
      <Queue7></Queue7>
    </AIECN>
</WRED>
```

Table description

Item	Description
Feature name	WRED
Table name	AIECN
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AIMode	AI ECN mode	N/A	Enumeration: • centralized. • distributed. • neural.	N/A
Queue0	Enable queue 0 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue1	Enable queue 1 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue2	Enable queue 2 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue3	Enable queue 3 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue4	Enable queue 4 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue5	Enable queue 5 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue6	Enable queue 6 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A
Queue7	Enable queue 7 AI ECN	N/A	Boolean: • **true**—Enable. • **false**—Disable.	N/A

Contents

WRED 1
WRED/QueueProfiles 1
WRED/IfApplyProfile 1
WRED/FabricGlbApplyTable 1
WRED/FabricSlotApplyTable 1

WRED

WRED/QueueProfiles

Message	Explanation
The value of upper limit must be greater than low limit. 队列平均长度的上限值必须大于下限值。	During executing create or merge or replace operation, The value of upper limit must be greater than low limit. 执行create、merge或replace操作时，队列平均长度的上限值必须大于下限值。
The number of the queue wred profile has reached the maximum. 队列WRED模板的数量已达到最大值。	During executing create or merge or replace operation, The number of the queue wred profile has reached the maximum. 执行create、merge或replace操作时，队列WRED模板的数量已达到最大值。
Can’t delete the queue wred profile applied by the interface. 不能删除已经被应用在接口上的队列WRED模板。	During executing delete or move operation, Can’t delete the queue wred profile applied by the interface. 执行delete或move操作时，不能删除已经被应用在接口上的队列WRED模板。

WRED/IfApplyProfile

Message	Explanation
The interface WRED configuration conflicts with the WRED table. 接口下，应用WRED表和为队列应用队列WRED模板冲突。	During executing create or merge or replace operation, The value of upper limit must be greater than low limit. 执行create、merge或replace操作时，接口下应用WRED表和为队列应用队列WRED模板冲突。
The queue wred profile doesn’t exist. 指定的队列WRED模板不存在。	During executing create or merge or replace operation, The value of upper limit must be greater than low limit. 指定的队列WRED模板不存在。

WRED/FabricGlbApplyTable

Message	Explanation
Another WRED table has already been applied. Please view the current configuration. 全局网板应用WRED表和指定槽位网板应用WRED表冲突。	During a create, merge, or replace operation, the global WRED table configuration conflicts with the WRED table applied to a slot. 执行create、merge或replace操作时，全局网板应用WRED表和指定槽位网板应用WRED表冲突。

WRED/FabricSlotApplyTable

Message	Explanation
Another WRED table has already been applied. Please view the current configuration.	During a create, merge, or replace operation, the global WRED table configuration conflicts with the WRED table applied to a slot.

全局网板应用WRED表和指定槽位网板应用WRED表冲突。	执行create、merge或replace操作时，全局网板应用WRED表和指定槽位网板应用WRED表冲突。